DIRECTED DIFFERENTIATION OF HUMAN EMBRYONIC STEM CELLS INTO HAEMATOPOIETIC AND DEFINITIVE ENDODERMAL LINEAGES

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SUMMARY

Human embryonic stem cells (hESCs) are derived from the inner cell mass of a 5-day old blastocyst. hESCs possess the cardinal properties of unlimited self-renewal and pluripotency which enable them to give rise to the approximately 220 different cell types that comprise the human body. Theoretically, harnessing this property of hESCs could provide an inexhaustible source of cell therapy material for diseases like diabetes, Parkinson's disease, etc.

In order to assess the usefulness of hESCs in regenerative medicine, I investigated the ability of two cell lines- hES2 and hES3- to generate derivatives of mesoderm and endoderm in vitro. Differentiation into these particular lineages was of interest to me as hESC-derived β-like cells could be used as cell therapy for Type I Diabetes and haematopoietic cells from the same source could possibly be used to induce transplantation tolerance in a host receiving the allogeneic hESC-derived cell therapy graft. To this end, I evaluated published strategies that used stromal cell support or cytokines to differentiate hESCs or hESC-EBs into haematopoietic-like cells. Differentiation either on a cell layer of OP9 stroma or in the presence of cytokines like SCF, IL-4, TPO and Flt3L generated haematopoietic cells from both hES2 and hES3 EBs. The haematopoietic identity of these cells was established by the expression of relevant markers like CD45, CD14, CD34, CD83 and CD86 and the formation of colony forming units in methylcellulose cultures. The combination and concentrations of the cytokines used or the stroma itself seemed to bias the differentiation towards a granulocytic fate as no erythroid cells were formed at any stage. This finding might also indicate the restricted differentiation potential of hES2 and hES3. Though not efficient, the differentiation achieved in this study provides proof-of-principle that these 2 cells lines can be directed to a haematopoietic fate.

A simultaneous investigation of the endodermal potential of these cells resulted in the development of a three-dimensional differentiation strategy in which hESC-EBs embedded in Matrigel were exposed to Activin A and Bmp4 to generate definitive endoderm. Differentiation progressed in a developmentally relevant sequence with the formation of TBRA-expressing primitive streak-like cells followed by FOXA2- and SOX17-expressing endodermal cells. These cells differentiated further in the presence of growth factors that promote pancreatic development and maturation to generate $PDXI^{+}$ pancreatic progenitors which gave rise to insulin-secreting β -like cells albeit at a low efficiency. The unexpected combinatorial effect of Activin A and Bmp4 on the formation of endoderm was investigated in detail using molecular techniques that dissected the individual role of these factors in the differentiation. However, no clear mechanism of action was evident from these studies. A global view of the differentiation was obtained using microarray technology which revealed expression of novel genes and novel expression patterns of known genes in this system. Expression analysis of a few selected genes in the early mouse embryo showed hitherto uncharacterized expression domains some of which may be relevant to endoderm formation. The significance of these genes in the specification of endoderm will be addressed in future studies employing other model systems like *Xenopus* and Zebrafish.

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LIST OF SYMBOLS

- $\alpha-Alpha$
- $\beta-Beta$
- $\Delta-Delta$
- $\delta-Delta$
- $\mu-M\boldsymbol{u}$
- ° Degree



1.1. Embryonic stem cells

The isolation of mouse and human embryonic stem cells (ES cells) heralded a new era in regenerative medicine, raising hopes for effective cellular therapies to treat conditions like diabetes and heart disease. Working with the simple goal of replacing defective, diseased or lost cell types, embryonic stem cell-based therapy promised the repair of damaged tissue/s or organs of the human body. ES cells are derived from the inner cell mass (ICM) of the blastocyst-stage pre-implantation embryo which gives rise to the approximately 220 specialised cell types in the human body. ES cells possess the cardinal properties of self-renewal and pluripotency which enable them to give rise to all the cells that comprise the vertebrate body. The first successful isolation and study of pluripotent ES cells was accomplished in the mouse in 1981 (Evans and Kaufman 1981; Martin 1981). The ease with which mouse embryonic stem cells (mESCs) can be derived and manipulated has made them an ideal model system for the study of developmental biology. In vitro differentiation of mESCs has successfully given rise to cells of the various germ layers and provided valuable insights into the events in early development of the embryo like hemangioblast development (Keller 2005; Keller 1995). mESCs retain their pluripotency despite extended in vitro culture and generate all three germ layers and the germ line when reintroduced into mouse blastocysts (Bradley et al. 1984).

ES cell research achieved another milestone in 1994 when Bongso *et al.* (1994) reported the isolation and culture of ICM cells with stem cell-like morphology from human blastocysts (**Fig 1.1A**) though cultures failed beyond 2 passages. The first long-term culture (4-5 months) of human embryonic stem cells (hESCs) was accomplished using mouse fibroblast feeder layers by Thomson *et al.* (1998) (**Fig 1.1B**). These cells show characteristic expression of pluripotency markers like the

transcription factor OCT4/POU5F11 and the cell surface antigen Tra1-60 (Fig 1.1 D-E). Unlike mESCs the pluripotent nature of hESCs cannot be demonstrated through chimera formation as there are obvious ethical concerns in generating mosaic human embryos that require development in utero. Therefore, in vitro differentiation into the three embryonic germ layers- ectoderm, mesoderm and endoderm- and in vivo teratoma formation assays are used to substantiate pluripotency of hESCs. For in vitro culture of hESCs, mouse or human primary "feeder" monolayers are still popular though substrates like Matrigel are also widely used. In addition to the traditional method of mechanical dissection, enzymes like Trypsin and Collagenase IV have been successfully used for passaging hESCs. Culture media also play an important role in maintenance of the undifferentiated state. For example, unlike mouse ES cells, hESCs do not require LIF (leukemia inhibitory factor) or Bmp4 (bone morphogenetic protein 4) for maintenance of self-renewing, undifferentiated cultures. A combination of Activin A/ Nodal and Fgf2 has been shown to be sufficient to maintain hESCs in the pluripotent state even in the absence of feeders, fetal bovine serum or Matrigel (Xiao et al. 2006; Vallier et al. 2005; James et al. 2005; Beattie et al. 2005).

If mouse ES cells are grown in suspension cultures on low-attachment surfaces in the absence of feeder support, they form aggregates of differentiating cells called embryoid bodies or EBs (**Fig 1.1C**) (Reubinoff *et al.* 2000; Doetschman *et al.* 1985; Evans 1981). Various precursors representing the three germ layers including haematopoietic and endothelial progenitors emerge as these EBs spontaneously differentiate (Keller 1995).

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¹ Gene names are italicized. Human genes- all capital letters eg. *OCT4*. Mouse genes- first letter capital eg. *Oct4*.

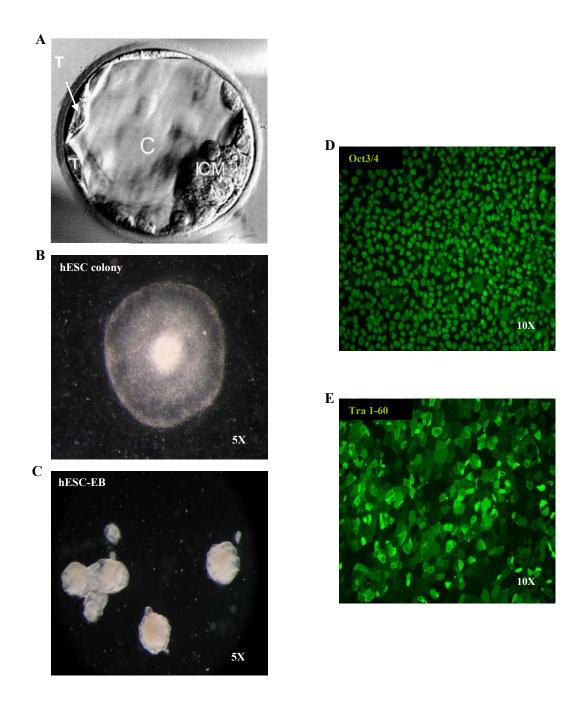


Figure 1.1. Embryonic origin of human embryonic stem cells and their in vitro characterisation. (A) 5-day human blastocyst with inner cell mass (ICM), blastocoel cavity (C) and trophectoderm (T). Image from the Advanced Fertility Centre, Chicago http://www.advancedfertility.com/blastocystimages.htm. **(B)** A single hESC colony, here hES3, maintained on a mitotically inactivated mouse embryonic fibroblast (MEF) monolayer. Typically a hESC colony grown under these conditions has the dense, white 'central button' surrounded by a thinner halo of cells with a crisp border. **(C)** hESC-derived embryoid bodies (EBs) in suspension culture. **(D, E)** Immunostaining performed on hESC colonies for pluripotency markers. Nuclear staining for transcription factor *OCT4* **(D)** and cell surface staining for Tra 1-60 **(E)** show that more than 90% of the cells in all colonies stain positive for these two markers.

Detailed investigation of the differentiating ES/ EB system suggests that it recapitulates to a limited degree the early events of embryonic development (Dvash and Benvenisty 2004; Dvash *et al.* 2004; Rust *et al.* 2006). EBs derived from hESCs organise themselves in a manner reminiscent of the early post-implantation mouse embryo, with features like an outer jacket of extraembyonic (visceral) endoderm (Rust *et al.* 2006). These similarities prompted the use of the EB system as a model to stimulate *in vitro* the early events of mammalian axis specification and germ layer patterning. Several methods of EB formation— in hanging drops, in low-attachment plates, in 3D matrices (synthetic and natural) and the use of various growth factors in all or some of these methods— are commonly used to induce differentiation.

Though they were thought to be equivalent to the ICM, it was suggested that ES cells are cell culture artefacts as they adapt well to *in vitro* growth conditions and show properties not usually associated with the embryo such as dependence on exogenous cytokines/ growth factors (Buehr *et al.* 2003; Smith 2001; Rossant 2001). Later studies provided evidence that ES cells likely bear closer resemblance to embryonic germ (EG) cells as several germ cell markers like *Dppa3* (*Stella*) were expressed in ES cells (Zwaka and Thomson 2005). Derivation of pluripotent cell lines from the mouse epiblast, called EpiSCs, brought to light similarities between these cells and hESCs (Tesar *et al.* 2007; Brons *et al.* 2007). EpiSCs and hESCs have the ability to give rise to trophectoderm in the presence of Bmp4 which mESCs do not possess (Xu *et al.* 2002; Beddington and Robertson 1989). Another similarity between these two cell types is the requirement for Activin A/ Nodal signaling to maintain pluripotency, a property that has been previously demonstrated for hESCs (Vallier *et al.* 2005). Inhibition of Activin signaling resulted in rapid downregulation of pluripotency genes in both cell types. This may reflect the embryonic stage to which

hESCs are equivalent, since Activin/ Nodal signaling is known to be required for maintenance of pluripotency in the epiblast of the post-implantation embryo (Brennan et al. 2001). The importance of Activin/ Nodal signaling in the maintenance of hESC pluripotency has been re-iterated in recent studies detailing the derivation and maintenance of induced pluripotent stem (iPS) cells (Takahashi et al. 2007; Takahashi and Yamanaka 2006). iPS cells are generated from mouse and human adult fibroblasts by nuclear reprogramming using a few critical transcription factors like SOX2, OCT3/4, KLF4 and C-MYC. Human iPS cells were found to be similar to hESCs in several aspects including morphology, growth kinetics, cell-surface antigen profile and gene expression. In addition it has been shown that iPS cells can differentiate into the three germ layers in vivo and form teratomas identical to hESCs. A family tree of the various embryonic and extraembryonic lineages summarises these relationships (Fig 1.2). The lineage tree emphasizes that as the biology of ES cells continues to be unravelled, there is mounting confidence that culture regimes can be developed which direct pluripotent ES cells toward a desired cell fate that would be therapeutically useful.

Much progress has been made towards gaining a better understanding of hESC biology and translating the technology from the bench to the bedside. However, the hESC lines on which most of these studies were performed might have restricted use in the clinic, as they have all come in contact with materials or reagents of foreign origin (Bongso *et al.* 2008; Hentze *et al.* 2007). Recently, this presumed roadblock was deemed acceptable when the Food and Drug Administration (FDA), USA granted permission for the use of oligodendrocyte cells derived from hESCs for Phase I clinical trials to treat patients with spinal cord injury. GRNOPC1, oligodendroglial progenitor cells, were derived from the H7 hESC line (Thomson *et al.* 1998) and have

been demonstrated to support re-myelination and nerve growth stimulation in animal models of acute spinal cord injury (Kierstead *et al.* 2005). The current clinical trial will be an attempt to demonstrate the safety of using these cells in humans though it has been shown to elicit a poor immune response in the immune-deficient animal model (Okamura *et al.* 2007).

The isolation of clinically compliant hESC lines was recently achieved (Crook et al. 2007). Six hESC lines were derived on clinical grade human fibroblasts, Ortec 143, and maintained in chemically defined medium containing Knockout Serum Replacement supplemented with basic fibroblast growth factor (bFGF). None of the reagents used during derivation and expansion were of animal origin and the entire process was carried out under cGMP (current good manufacturing practice) guidelines. Even with derivation of qualified lines and defined culture methods, the recurring challenges of directing the differentiation of hESCs to generate cell types in numbers sufficient for clinical applications and ensuring acceptance of the transplant and preventing rejection by the recipient's immune system remain. Harnessing and understanding the differentiation potential of hESCs and employing that knowledge to gain insight into mammalian development is the focus of the thesis. Such studies require experimental strategies that are guided by the knowledge of how a vertebrate embryo develops and forms a complex organism. Hence it is important to review key aspects of the mammalian developmental sequence especially, formation of the three primary germ layers in the embryo.

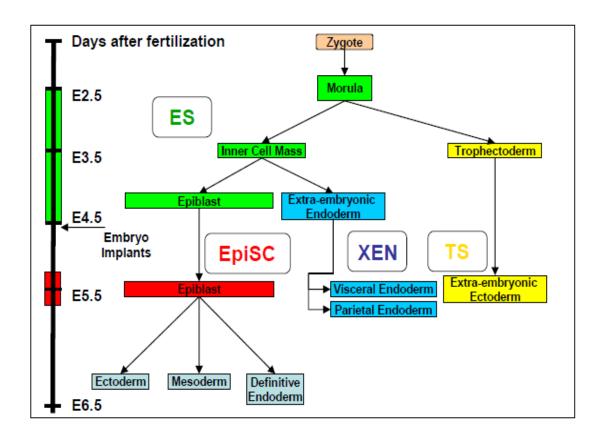
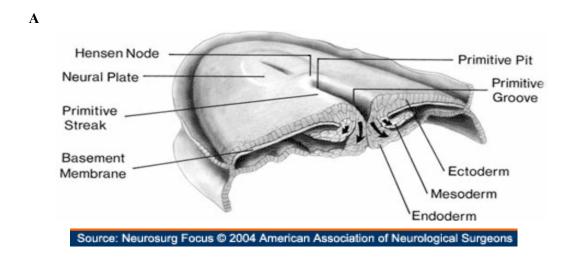


Figure 1.2. Lineage tree of embryo-derived cells and cell lines. The various stages of embryonic development from fertilization to E6.5 are represented in this image. Embryonic Stem (ES) cells are derived from the inner cell mass while epiblast stem cells (EpiSCs) are of epiblast origin. Human ES cells (hESCs) and mouse EpiSCs have been found to share several characteristics which imply that hESCs might actually be derivatives of epiblast-stage embryos. The extraembryonic endoderm is the source of XEN cells while TS cells represent the extraembryonic ectoderm lineage. Schematic used with permission from Tesar *et al.* 2007, *Nature*.

1.2. Gastrulation–formation of mesoderm and endoderm in the embryo

Gastrulation is defined by a series of complex morphogenetic events in combination with cell proliferation and differentiation that generate the three embryonic germ layers and establish a vertebrate body plan (Arnold and Robertson 2009; Tam and Loebel 2007; Rossant and Tam 2004). In the mouse embryo gastrulation is initiated by the recruitment of epiblast cells to the primitive streak around E6.5 (Fig 1.3). There, epiblast cells undergo an epithelial to mesenchymal transition (EMT) as they ingress through the primitive streak, emerging as definitive endoderm (DE) and the mesoderm (Tam and Beddington 1992; Lawson et al. 1991). Mesoderm is formed as an epithelial sheet that expands from either side of the primitive streak (Tam and Behringer 1997). Extensive studies on cells of the cardiac mesoderm showed that the timing of ingression through the streak and the position of these cells in the epiblast determines their lineage fate (Tam and Behringer 1997; Tam and Zhou 1996; Lawson et al. 1991). The newly formed motile mesoderm migrates laterally between the outer visceral endoderm (VE) layer and the epiblast, while the definitive endoderm moves to the outer surface of the embryo by displacing the visceral endoderm proximally (Lawson et al. 1986). However, recent work from Kwon et al. (2008) suggests that the DE is formed by intercalation of epiblast cells with the underlying VE and not by complete displacement of the visceral layer. This work is discussed in more detail in section 1.5. Understanding the complex events that characterise gastrulation is critical for the creation of experimental strategies to generate relevant cell types for therapeutic use (discussed below).



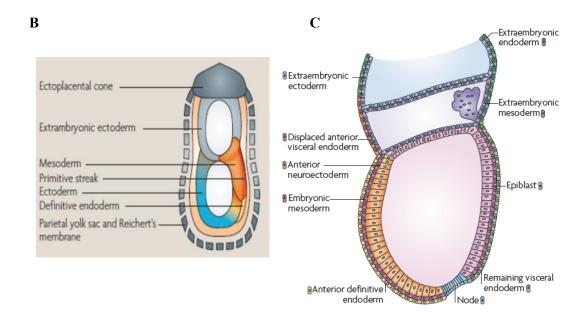


Figure 1.3. Gastrulation and specification of the germ layers. (**A**) Gastrulation in the human embryo results in the specification of the three germ layers. During this process, prospective endodermal and mesodermal cells ingress through the primitive streak (arrows) to form definitive endoderm and mesoderm respectively. Image used with permission from Dias *et al.* 2004 *Neurosurgical Focus*. (**B**) Gastrulation in mouse embryo occurs at E6.5 and forms the three germ layers. Image used with permission from Tam *et al.* 2007 *Nature Reviews Genetics*. (**C**) Cellular organisation of the mouse embryo after the process of gastrulation is complete. Image used with permission from Arnold *et al.* 2009 *Nature Reviews Molecular Cell Biology*.

1.3. Regenerative medicine and embryonic stem cells

1.3.1. Diabetes- a candidate disease for cell therapy

Autoimmune destruction of insulin-secreting pancreatic β -cells within the Islets of Langerhans causes Type I diabetes which makes up about 5-10% of all diagnosed cases (Fig 1.4). Clinical islet transplantation using cadaveric islets is to date, the most successful cell-based therapy that has been used to treat this condition (Shapiro et al. 2006; Robertson 2004). However, the demand for such islets far exceeds the actual supply especially, since the modern procedure called the Edmonton protocol utilises approximately 10,000 islet 'units' per kilogram of bodyweight. Therefore, alternative sources of β -cells need to be identified and hESCs are an appealing source. Pluripotent hESCs retain the capability to differentiate into cells representing all three embryonic germ layers (Keller 2005). By directing the differentiation of hESCs to generate functional beta (β) cells, one hopes to create an inexhaustible supply of these cells for the treatment of Type I Diabetes. This has led to immense interest in the differentiation of hESCs into endodermal derivatives. One part of this thesis (Chapter 4) describes my contribution to the development of *in vitro* β cell differentiation protocols, with particular emphasis on the formation of the definitive endoderm, the parental lineage of the pancreas.

1.3.2. Transplantation tolerance of hESC-derived cell therapy

As research efforts intensify towards deriving transplantable cell therapy material like insulin-secreting β -like cells from hESCs, issues pertaining to graft acceptance/ rejection must be addressed. Rejection of hESC-derived cell populations is a significant concern as their immunological signature is indisputably foreign

(Draper and Andrews 2002; Drukker *et al.* 2002). Interestingly, several studies have shown that undifferentiated hESCs and their differentiated progeny may in fact be immune-privileged or can be transplanted specifically into immune-privileged sites like the spleen (Li *et al.* 2004; Drukker *et al.* 2006). Transplantation into areas like the spleen are under consideration largely due to the low expression of Major Histocompatibility Complex (MHC) class I molecules on the surface of hESCs and the resultant low immunostimulatory capacity of these cells. Though hESC-derivatives show increased expression of MHC class I, this does not alter the immune response.

Recently, it was demonstrated that mESCs and their derivatives with similar MHC I signatures can induce a potent immunological reaction even with a single difference between the donor and host Minor Histocompatibility antigen (mH) profiles (Robertson et al. 2007). However, these authors found that the inherent immune-privileged status of mESCs could be harnessed with minimal intervention to induce tolerance and prevent rejection. Highlighting the differences between the mouse and human systems, a very recent study shows that hESCs and their derivatives might not be as immune-privileged as previously thought and are capable of triggering a severe immune response in a xenogeneic host like the mouse (Swijnenburg et al. 2008). In this study, hESCs transduced with a double fusion reporter gene consisting of firefly luciferase and enhanced GFP were tracked in vivo using bioluminescent imaging. Severe infiltration of the graft 5 days after transplantation with immune cells and detectable levels of anti-hESC antibodies in the recipient serum together demonstrate active rejection of the graft. However, this reaction could be mitigated with the use of immunosuppressive drugs like tacrolimus (binds calcineurin and thereby inhibits T-cell signaling) and sirolimus (blocks activation of T- and B- cells by inhibiting interleukin-2 responsiveness) that prolonged hESC graft survival up to 28 days. The disadvantage of immunosuppression is the undesirable side-effects that it triggers including nephrotoxicity, liver disease, increased risk of infections and a compromised immune system. Though much progress has been made, it is clear that more studies are required before any of the above strategies can be put to clinical use. Nevertheless, one step forward is the recently approved clinical trial for oligodendrocyte precursor cells derived from hESCs. The outcome of this safety study is eagerly anticipated as longevity of the graft within humans will pave the way for effective cell therapy.

If the inherent immune-privileged status of hESCs is inadequate to aid transplantation, one strategy is to induce tolerance with the use of hESC-derived haematopoietic cells (Drukker and Benvenisty 2004). Haematopoietic stem cells (HSC) are mesodermal derivatives that serve as progenitors to all cells that circulate in the peripheral blood and differentiate into several myeloid or lymphoid lineages during development (**Fig 1.5**). Theoretically, haematopoietic cells derived from the same exact source as the therapeutic graft, for example, a given pluripotential hESC line, could tolerise the recipient towards the incoming transplant material irrespective of its cellular nature (Kaufman and Thomson 2002). Tolerance could either be induced (1) through mixed haematopoietic chimerism or (2) through tolerogenic dendritic cells (DCs) (**Fig 1.6**) (Drukker and Benvenisty 2004; Fairchild *et al.* 2004).

Mixed haematopoietic chimerism refers to the use of haematopoietic progenitor cells to establish a resident donor population in the host. This grants donor-specific tolerance to the host and allows any other material from the same donor to be accepted with out any adverse reaction. Clinical examples of this phenomenon in humans have been reported (Alexander *et al.* 2008; Kawai *et al.* 2008).

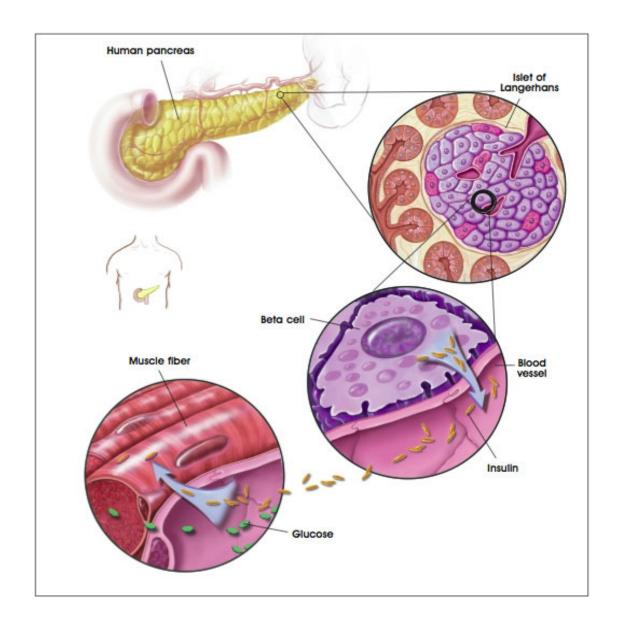


Figure 1.4. Pancreas and diabetes. The pancreas consists of Acinar cells which perform its exocrine functions and clusters of cells called Islets of Langerhans which perform its endocrine functions. Acinar cells secrete digestive enzymes like trypsin and chymotrypsin into the small intestine. Islets of Langerhans secrete various hormones into blood from its four main cell types which are (1) alpha (α) cells that secrete glucagon, (2) beta (β) cells that secrete insulin, (3) Delta (δ) cells that secrete somatostatin and (4) PP cells that secrete pancreatic polypeptide. The beta cells sense glucose levels in the blood and secrete Insulin to allow uptake of this important nutrient. Decreased production of Insulin leads to hyperglycemia and all the symptoms associated with the metabolic disease Type I Diabetes. Schematic diagram adapted from the NIH Stem Cells Information Resource http://stemcells.nih.gov/info/scireport/chapter7.asp.

Kawai et al. (2008) showed that the patient's immune system accepted solid organ transplants from a donor whose haematopoietic cells were previously used to treat the same patient after myeloablative chemotherapy. A recent study describes the role of mixed chimerism in the successful treatment of type I diabetes in a mouse model transplanted with ES cell-derived haematopoietic material (Verda et al. 2008). Haematopoietic defects are one of the causes of autoimmune diabetes in the non-obese diabetic (NOD) mice. Therefore, these authors generated diabetic-resistant adult haematopoietic progenitor-like cells from mESCs and transplanted these into NOD mice to induce islet cell tolerance and treat diabetes. Though cell surface marker analysis showed that full donor chimerism was not established, the low level chimerism was significant enough to have an anti-diabetic effect. Importantly, no teratomas were formed in mice transplanted with the differentiated cells. Similar observations have previously been reported where highly homogenous differentiated populations failed to generate teratomas in the animal model (Kroon et al. 2008; Okamura et al. 2007).

Mixed chimerism induces tolerance through the deletion of alloreactive T cells that would otherwise activate the host immune system against the incoming graft (Sykes 2001). Recently Bonde *et al.* (2008) demonstrated that tolerance could be induced by the stimulation of regulatory T (T_{reg}) cells in the host. This mechanism in part can be attributed to the differentiation of the mixed pool of donor haematopoietic cells into allogeneic antigen-presenting cells (APCs). DCs are potent antigen presenting cells of the immune system that are responsible for priming naïve T cells (Banchereau and Steinman 1998). They are identified by the presence of costimulatory cell surface molecules CD80, CD86 and CD83 that enhance the activation of naïve T cells.

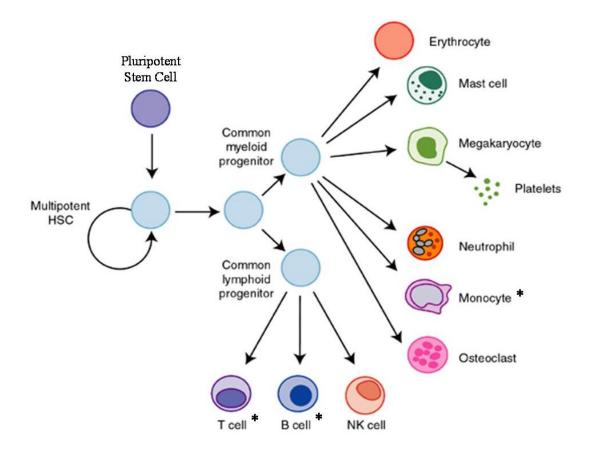


Figure 1.5. Haematopoietic development. Pluripotent stem cells give rise to multipotent haematopoietic stem cells that differentiate into lymphoid and myeloid progenitors. T-cells, B-cells and Natural killer (NK) cells form from lymphoid progenitors. Myeloid progenitors differentiate into various lineages including erythrocytes, granulocytes and monocytes. The asterisk (*) marks the cell types from which dendritic cells can be generated. Schematic diagram adapted with permission from Qasim *et al.* 2004 *Expert Reviews in Molecular Medicine*.

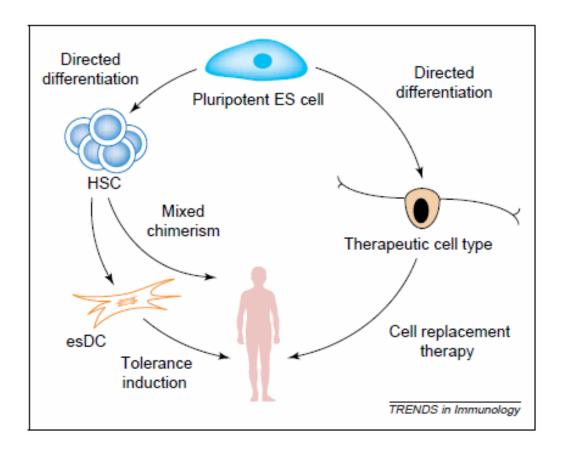


Figure 1.6. Pluripotent hESCs for cell replacement therapy. Regenerative medicine aims to produce therapeutic cell types through the directed differentiation of hESCs *in vitro*. Rejection of hESC-derived grafts is a concern that may be effectively addressed by using co-grafts derived from the exact same hESC source. Haematopoietic progenitors are known to repopulate myeloablated animals by establishing donor-specific chimerism in the host. In much the same way, haematopoietic cells differentiated from hESCs can either be used directly to achieve a state of mixed haematopoietic chimerism or can be differentiated further to generate dendritic cells (esDCs) that tolerise the host to the incoming graft. Schematic diagram used with permission from Fairchild *et al.* 2004 *Trends in Immunology*.

DCs are also involved in the maintenance of immunologic self-tolerance, inducing production of regulatory T cells or anergy/ immune unresponsiveness of autoreactive T cells (Steinbrink et al. 2002). Several studies have documented graft tolerance induced by donor DCs or host DCs in mice with various immunological backgrounds. Pulsing host DCs with alloantigens, using DCs to generate antigenspecific T_{reg} cells which induce tolerance, targeting DCs using monoclonal antibodies and targeting DCs using donor-derived apoptotic cells are some of the methods that were used with varying degrees of success (Morelli and Thomson 2007). If hESCs could be differentiated in vitro to form tolerogenic DCs, these could be presented to the host's immune system to establish a state of tolerance. Theoretically, these DCs would selectively activate T_{reg} cells that induce anergy and attenuate the host's immune response to the graft, even though the introduction of DCs into the host can be considered an allogeneic transplantation. The predicted tolerance of this graft sets the stage for the delivery and engraftment of other hESC-derived transplant material such as cardiomyocytes or beta-like cells. Ideally, this second graft would be recognized as 'self' as the host's immune system has encountered and developed prior tolerance to a similar set of antigens.

To generate functional haematopoietic-like cells *in vitro*, it is critical to understand the process of haematopoiesis *in vivo* during embryogenesis. By closely mimicking *in vitro* the sequence of haematopoietic development, one envisages that efficient differentiation of hESCs into these mesodermal derivatives can be robustly achieved.

1.4. Haematopoiesis

1.4.1. Haematopoietic development in the mouse

In the mouse, haematopoietic lineages first appear in the form of blood islands in the yolk sac, a derivative of the extraembryonic mesoderm by embryonic day E7.5 of gestation (Russell and van den Engh 1979). This is preceded by the expression of key haematopoietic genes like *Gata-2*, *Scl/ Tal-1* in the extraembryonic mesoderm which forms the visceral yolk sac (VYS), as revealed by *in situ* hybridization studies on the early embryo (Silver and Palis 1997). This yolk sac haematopoiesis was thought to seed the fetal liver and establish bone marrow haematopoiesis in the adult (Weissman *et al.* 1977; Moore and Metcalf 1970). However, this was shown otherwise by elegant grafting experiments done mainly in the chick which showed that adult haematopoiesis was established by cells from the embryo proper and the allantois (Caprioli *et al.* 2001; Cormier and Dieterlen-Lievre 1988; Dieterlen-Lievre 1975). By E10-11 of gestation, the yolk sac primitive haematopoiesis declines and haematopoietic activity shifts to the embryo proper where HSC emerge from the intraembryonic Para-Aortic Splanchnopleura (PAS/P-Sp), which is the presumptive aorta-gonad-mesonephros (AGM) (Godin *et al.* 1993; Medvinsky *et al.* 1993).

At E7.5, before circulation has connected the YS with the embryo, the PAS only contains stem cells with lymphoid potential (Cumano *et al.* 1996). Intraembryonic HSC emerge autonomously *in situ*, independently from the precursors emerging in the YS (Cumano *et al.* 1996; Medvinsky and Dzierzak 1996). Particularly, the dorsal aorta and the vitelline and umbilical arteries have been shown to contain haematopoietic cells between E9.5 to E12 (Garcia-Porrero *et al.* 1995). *In vitro* culture of segments of the embryo proper demonstrated that the haematopoietic precursors were exclusively present in the PAS (Godin *et al.* 1995). The AGM region

is the first site in the murine embryo where multipotential long term repopulating stem cells (LTRSCs) are detected (Muller *et al.* 1994). In this study, the E10 AGM injected into irradiated mice showed long-term reconstitution of the haematopoietic system. The AGM functions as a haematopoietic site until E11/E12 when it begins to degenerate; at the same time there is an increase in fetal liver haematopoietic activity (Medvinsky and Dzierzak 1996; Muller *et al.* 1994; Medvinsky *et al.* 1993). Haematopoiesis in the liver is not *de novo* but occurs by colonization from other tissues like yolk sac, placenta and AGM (Gekas *et al.* 2005; Kumaravelu *et al.* 2002; Houssaint 1981; Johnson and Moore 1975). The large number of HSC in the fetal liver could be the results of these colonisations and expansion of the population by the liver itself (Takeuchi *et al.* 2002). Beyond this point the liver functions as the site of haematopoiesis until just before birth when the bone marrow takes over and remains the only site of haematopoiesis in the adult (**Fig 1.7**).

The emergence of haematopoiesis is influenced by distinct interactions between germ layers within the embryo as well as transcription factors and other environmental factors. It has been shown that contact with visceral endoderm is required for primitive haematopoiesis in mouse yolk sac explants and that the VE can impart a haematopoietic fate to prospective neuroectoderm (Dyer *et al.* 2001; Belaoussoff *et al.* 1998). One of the signals responsible for this effect was found to be Indian Hedgehog which was then proven to be essential but not sufficient for effective primitive erythropoiesis in the mouse (Byrd *et al.* 2002). In the chick embryo, ventralising factors like vascular endothelial growth factor (VEGF) and bone morphogenetic protein 4 (BMP4) promote haematopoiesis while dorsalising factors like epidermal growth factor (EGF) and transforming growth factor α (TGF- α) antagonize the process (Pardanaud and Dieterlen-Lievre 1999). Similar activity of the

ventralising factors has been shown in the mouse through ES cell differentiation and gene targeting studies (Faloon et al. 2000; Shalaby et al. 1995; Winnier et al. 1995). For example, knockout studies showed that BMP4 is important for initiation of haematopoiesis in the mouse as Bmp4-/- embryos either die around gastrulation or have a smaller yolk sac and decreased erythropoiesis (Winnier et al. 1995). The critical requirement for Bmp4 in development of the cardiac mesoderm was also shown in studies on Bmp4 homozygous null mutant mice that showed abnormal heart formation (Fujiwara et al. 2002). These ventralising factors also regulate expression of critical haematopoietic transcription factors like Scl and Gata-1 (Sadlon et al. 2004). In addition to these Runx1 and Gata-2 are known to be absolutely essential for definitive haematopoiesis that originates in the AGM region. Mice lacking Gata-2 show a complete lack of committed progenitors and HSC and die at E10.5 as there is a severe drop in the number of AGM HSC (Tsai et al. 1994). Runx1 deficiency also leads to the absence of AGM HSC and all myeloid and lympho-myeloid progenitors (Cai et al. 2000). Absence of both transcription factors only marginally impaired primitive erythropoiesis thus revealing the specific role of these factors in the definitive program. Thus, complex interactions within the embryonic environment establish haematopoietic identity in the developing mouse embryo.

The yolk sac blood islands in the developing embryo consist of primitive erythrocytes surrounded by differentiating endothelial cells (Risau 1991). This close developmental association of the haematopoietic and endothelial cell lineages within the blood islands of the developing embryo has led to the hypothesis that they arise from a common precursor, termed the hemangioblast.

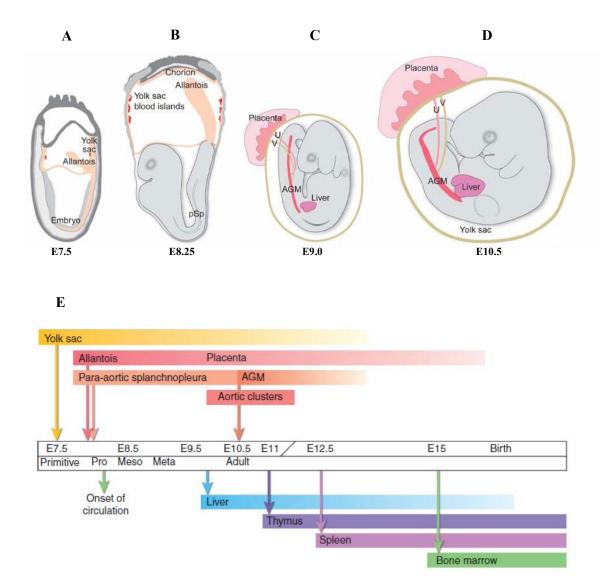


Figure 1.7. Haematopoiesis in the mouse embryo. (A) Haematopoietic cells are first visible at E7.5 in the yolk sac blood islands as primitive haematopoiesis is initiated. (B) At E8.25 circulation is established in the embryo. The allantois which will fuse with the chorion to form the umbilicus is seen at days E7.5 and E8.25. The para-aortic splanchnopleura (pSp) which is the prospective Aorta Gonad Mesonephros (AGM) is also indicated. (C) At E9.0 the embryo has turned and is enveloped in the yolk sac. Colonisation of the liver by haematopoietic progenitors begins at late E9. (D) The E10.5 mouse embryo contains haematopoietic clusters in the dorsal aorta in the AGM region, the vitelline (V) and umbilical (U) arteries. The first adult haematopoietic stem cells are found in these vessels. (E) Timeline of haematopoietic development in the mouse embryo. Arrows above indicate formation of specific haematopoietic populations. Arrows below show the colonisation of secondary sites of haematopoiesis. Schematic diagram adapted with permission from Dzierzak *et al.* 2008 *Nature Immunology*.

The concept of a bi-potent hemangioblast was supported by the observation that the expression of several genes was common to both haematopoietic and endothelial cell populations (Asahara et al. 1997; Kabrun et al. 1997; Young et al. 1995; Anagnostou et al. 1994; Kallianpur et al. 1994; Millauer et al. 1993; Yamaguchi et al. 1993; Fina et al. 1990). Studies on mice deficient in the receptor tyrosine kinase, Flk1 support the hemangioblast hypothesis as homozygous mutant embryos do not develop blood vessels or yolk sac blood islands, and die between E8.5 and E9.5 (Shalaby et al. 1997; Shalaby et al. 1995). ES cells provide a powerful tool to probe the existence of the hemangioblast population in the developing embryo. This is possible because haematopoietic and endothelial differentiation of ES cells in vitro is known to follow the same developmental sequence observed in the mouse embryo (Vittet et al. 1996; Keller 1995; Nakano et al. 1994; Keller et al. 1993; Wiles and Keller 1991; Risau et al. 1988). Using mESC-derived EBs, a common precursor for the primitive and definitive haematopoietic lineages was identified in vitro (Kennedy et al. 1997). When cultured in the presence of vascular endothelial growth factor (VEGF), c-Kit ligand and conditioned medium from an endothelial cell line D4T, these precursors formed colonies consisting of immature or blast-like cells that expressed a number of genes common to both the haematopoietic and endothelial lineages, including Tal-1/Scl, CD34 and the VEGF receptor, Flk-1. This work was developed further by Choi et al. (1998) who established the blast colony assay using mESC-derived EBs to prove the presence of BL-CFCs (blast colony forming cells) that could clonally give rise to cells of both endothelial and haematopoietic lineages in presence of factors like VEGF. Using genetic tools, Chung et al. (2002) determined that haematopoietic cells develop from the Flk1⁺ Scl⁺ and Flk1⁻ Scl⁺ population while endothelial cells arise from the Flk1⁺ Scl⁺ and Flk1⁺ Scl⁻ population. Applying the blast colony assay to early stage mouse embryos, it was demonstrated that in E7.0 embryos, the hemangioblast emerges from the posterior primitive streak and migrates to the extraembryonic mesoderm in the yolk sac (Huber et al. 2004). In this study, hemangioblasts were found to be most enriched in the Brachyury⁺ Flk1⁺ population within mESC-derived EBs and were determined to co-express Scl (Fig 1.8). Investigations in the zebrafish gastrula also provide evidence for the existence of a hemangioblast population (Vogeli et al. 2006). Detailed molecular characterization of hemangioblast cells has revealed an important role for the Notch pathway in differentiation of this multipotent lineage. Activation of Notch signaling in combination with inhibition of Wnt signaling was shown to be responsible in part for the formation of cardiac mesoderm from hemangioblasts while the converse was found to be important for specification of a primitive haematopoietic fate from hemangioblasts (Chen et al. 2008; Cheng et al. 2008). Recently, Lu et al. (2008) made improvements to the cell culture protocols to demonstrate that Bmp4 and VEGF were necessary and sufficient to induce robust differentiation of hESCs into hemangioblasts. Expression of hemangioblast-associated genes like TBRA, FLK-1, CD31 and LMO2 was upregulated in the differentiated cells while expression of the pluripotency gene OCT4 was downregulated. Hemangioblasts generated using this differentiation approach were recently shown to be tripotent cells which could differentiate into endothelial cells, haematopoietic cells and smooth muscle-like cells (Lu et al. 2009). This shows that functional vasculatures can be developed from such differentiated progeny again demonstrating that multipotent progenitors like the hemangioblast exist in the developing embryo.

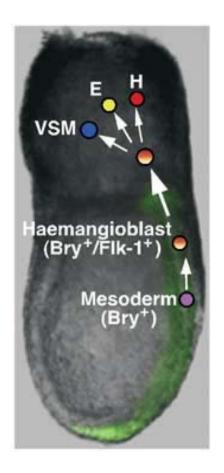


Figure 1.8. A model for hemangioblast development. Hemangioblasts are thought to arise from the *Brachyury* (Bry+) expressing mesodermal population of the developing embryo. These cells go on to express Flk1 in addition to T and migrate to the yolk sac (Bry+/ Flk-1+). At this point the hemangioblast differentiates to form progenitors of haematopoietic (H), endothelial (E) and vascular smooth muscle (VSM) cell lineages. Image adapted with permission from Huber *et al.* 2004 *Nature*.

1.4.2. Haematopoiesis in the human embryo

Detectable yolk-sac haematopoiesis and expression of evolutionarily conserved haematopoietic genes in the human system closely follows the sequence in mouse (Tavian et al. 1999). However, the lack of detectable haematopoietic activity after day 60 of human development suggests that the duration of yolk sac haematopoiesis in human gestation is shorter than that in birds and rodents (Huyhn et al. 1995; Dommergues et al. 1992; Migliaccio et al. 1986). Similar to the mouse embryo, the human yolk sac is the site of primitive haematopoiesis during which nucleated erythrocytes expressing embryonic globin and the surface molecule glycophorin A are detected. Primitive haematopoiesis gives way to definitive haematopoiesis in the liver where the erythrocytes are enucleated and express fetal globin (Brotherton et al. 1979). As mentioned earlier studies in chick embryos provided evidence that the yolk sac gives rise predominantly to primitive haematopoiesis while the embryo proper is the site of definitive haematopoiesis. Haematopoiesis in the embryo proper occurs at the embryonic truncal arteries (homologous to the mouse AGM region) in early development (Tavian et al. 1996). Other components of the definitive haematopoietic lineage, like lymphoid cells, are derived from multipotential cells which can be found at either the yolk sac or the embryo proper or both.

Recently, Tavian *et al.* (2005) used an *in vitro* organ culture assay with human embryonic explants to show that the aorta as well as the P-Sp is capable of establishing long-term haematopoietic cultures. This study also differentiated the multi-lineage potential of the yolk-sac and the embryo proper: though both contributed myeloid and NK cells, only intraembryonic haematopoiesis generated lymphoid cells. As in the mouse, progenitors from the embryo proper are thought to be responsible for the establishment of definitive haematopoiesis in the human system

(Tavian *et al.* 2001). Yoder *et al.* (1997) studied and identified these precursors in the embryo as CD34⁺/ c-Kit⁺ progenitor populations. CD34 is a cell-surface molecule thought to be one of the earliest markers of a haematopoietic cell/ progenitor. Another haematopoietic progenitor marker is c-Kit which is the receptor for the cytokine Stem Cell Factor (SCF/ Steel Factor). This study demonstrated that the CD34⁺/ c-Kit⁺ cells isolated from the yolk sac and separately from the P-Sp at the same stage of development showed presence of long-term repopulating stem cells (LTRSCs). LTRSCs are stem cells that can establish long term haematopoietic cultures and have the potency to repopulate an entire animal post irradiation. Beginning in the yolk sac and transiting through the liver, the haematopoietic program finally arrives in the bone marrow which takes over as the major site of haematopoiesis through out the lifetime of the developing adult (**Fig 1.9**).

1.4.3. Haematopoietic differentiation from mESCs

Although many aspects of embryonic haematopoiesis have been studied in detail, early events regulating the lineage specification and maturation of stem cells are still unclear. Studying the mouse embryo immediately after gastrulation and before the appearance of blood islands has yielded important insights into these processes (Baron 2005; Baron and Fraser 2005). However, unhindered analysis of developmental events was made possible with the isolation of embryonic stem cells. Extensive investigation of the properties and capabilities of these cells has led to the development of several experimental approaches to induce haematopoietic differentiation from ES cells (**Fig 1.10**).

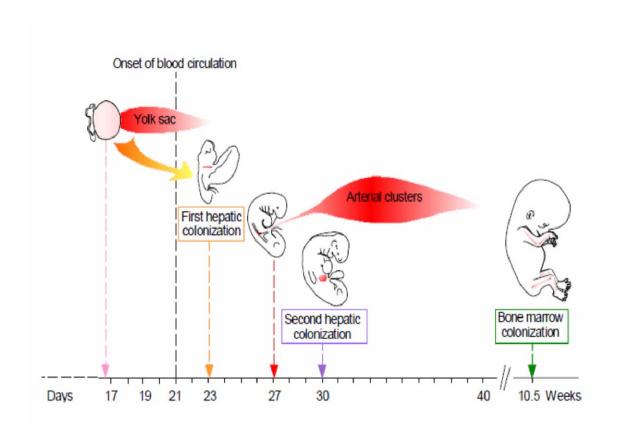


Figure 1.9. Haematopoiesis in the human embryo. Primitive haematopoiesis begins in the yolk sac around day 16 and contributes to erythroid and granulo-macrophage lineages. Circulation initiates around day 21 of development and mainly involves the nucleated erythrocytes found in the yolk sac. Around day 23, the first haematopoietic cells in the fetal liver are detected. These cells are thought to be of yolk sac origin. A second wave of haematopoiesis occurs at day 27 during which clusters of haematopoietic cells are visible in the vitelline and umbilical arteries and the AGM region. This definitive haematopoiesis seeds the fetal liver leading to the second hepatic colonisation. The fetal liver remains the main site of haematopoiesis until after birth when the bone marrow takes over and becomes the only site of haematopoiesis throughout adult life. Schematic diagram used with permission from Tavian *et al.* 2005 *International Journal of Developmental Biology*.

One favoured method is the formation of three-dimensional EBs from mESCs as earlier (Evans and Kaufman 1981). Spontaneous mesodermal differentiation occurs quite reproducibly within mESC-EBs and has been shown to generate cardiac and haematopoietic mesodermal cells (Keller 1995; Doetschman et al. 1985). Co-culture on stromal feeder cells is another method employed to generate haematopoietic progeny from mESCs. Stromal cells of bone marrow or yolk sac origin are known to support the growth and maintenance of haematopoietic progenitors in culture (Lu et al. 1996; Wineman et al. 1993). One such cell line OP9 is a murine macrophage colony stimulating factor (M-CSF)- deficient cell line which has been shown extensively to support the maintenance of haematopoietic progenitors differentiated from mESCs (Senju et al. 2003; Kitajima et al. 2003; Kyba et al. 2002; Nakano et al. 1994). OP9 co-culture mainly gives rise to B lymphocytes.

Haematopoietic-like cells have also been obtained from mESCs differentiating in monolayers on extracellular matrix proteins like collagen (Nishikawa *et al.* 1998). The authors of this study used antibodies against markers like E-cadherin, Flk1/KDR, CD45, etc., to define the intermediate stages during differentiation of mESCs to blood cells. Gene targeting studies have revealed that transcription factors like *Gata-1*, *Gata-2* and *Scl* that are known to be essential for haematopoietic development in the embryo are expressed during *in vitro* differentiation of mESCs. *Gata-1* is necessary for primitive erythroid differentiation as mESCs deficient in *Gata-1* and EBs derived from these showed a complete block in the development of erythroid precursors (Weiss *et al.* 1994). Mice homozygous for *Gata-2* and mESCs derived from the same have defective primitive erythropoiesis and an absolute lack of definitive erythroid precursors (Tsai *et al.* 1994). *Scl/ Tal-1* is critical for haematopoiesis as *Tal-1* deficient mESCs were found not to differentiate into several haematopoietic lineages

(Porcher *et al.* 1996). Though developmentally relevant markers were expressed on the differentiated progeny the functional competence of these cells was unclear. Since then, several studies have documented that haematopoietic progenitors derived from mESCs are capable of long-term repopulation of myeloablated mice (Burt *et al.* 2004; Kyba *et al.* 2003; Palacios *et al.* 1995). These studies were done with differentiated cells derived using distinct strategies and all of them showed low-level repopulating ability. Though these results are highly encouraging, more investigations need to be done to determine if these cells are indeed comparable to those found in the fetal liver and adult bone marrow.

1.4.4. Haematopoietic differentiation from hESCs

Although murine haematopoiesis has been extensively described using both embryological and gene targeting strategies, knowledge of early developmental decisions in the human embryo is limited. The study of human haematopoiesis has mainly been limited to primary human tissues like bone marrow, peripheral blood and umbilical cord blood. The differentiation of hESCs provides a possible inroad into embryonic development especially given the limited availability of human embryonic material. Differences in morphology, population doubling time and growth factor requirements between mESCs and hESCs point to the likelihood that there might be differences in the factors that direct *in vitro* differentiation of hESCs. Drawing on lessons from studies on mouse and human embryos and mESCs, hESCs have been subjected to various differentiation strategies in order to develop and establish models of human embryonic and haematopoietic development. These approaches are expectedly very similar to those used with mESCs despite the differences between the two cell types and are summarized in **Figure 1.10**.

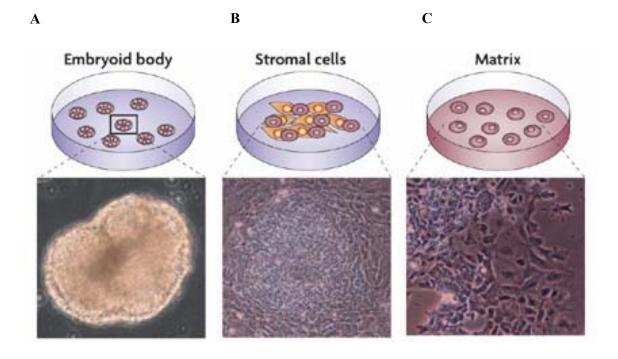


Figure 1.10. Strategies for haematopoietic differentiation from ES cells. Various successful strategies have been used in the recent years to differentiate ES cells (mouse and human) into cells of the haematopoietic lineage. (A). Differentiation within an EB shares similarities with vertebrate development and serves as an in vitro model system. However, the three-dimensional structure allows only minimal access to monitor selected cell types and hence to guide the differentiation. (B) The use of stromal cells allows better access to the differentiating cells and limited guidance of the differentiation although it is labour-intensive process. Another disadvantage is the low reproducibility as efficiency of differentiation depends on the quality of the stromal cells. (C). Differentiation on a matrix like collagen, fibronectin, etc., has the advantage of being a selective strategy that allows for maximum access to cells and therefore, directed differentiation. However, determination of optimal culture conditions is difficult and the cost is extremely high. Schematic diagram adapted with permission from Nishikawa et al. 2007 Nature Reviews Molecular Cell Biology.

A much reported strategy for haematopoietic differentiation from ES cells is the use of stromal cells as a supportive feeder layer which promotes the efficient production of haematopoietic derivatives in vitro. In addition to various murine cell lines including OP9 (described earlier), two immortalised human bone marrow stromal cell lines HS-5 and HS-27A have been shown to maintain bone marrowderived haematopoietic progenitors in culture (Nakano et al. 1994; Roecklein and Torok-Storb 1995). HS-5 secretes large amounts of cytokines; conditioned medium from this line supports the ex vivo expansion of both immature and mature haematopoietic progenitors. In contrast HS-27A does not secrete cytokines but has been shown to support formation of typically haematopoietic "cobblestone areas" from progenitor cells of human bone marrow origin (Torok-Storb et al. 1999). One of the first reports of hESC-derived haematopoietic colony-forming cells was from Kaufman et al. who co-cultured hESCs with either S17, a mouse bone marrow cell line, or C166, a mouse endothelial cell line (Kaufman et al. 2001). Few resulting cells (1-2%) were CD34⁺ CD38⁻, which identifies early haematopoietic cells. The haematopoietic potential of these cells at various stages of differentiation was demonstrated using the clonal assay for Colony Forming Units (CFUs). In this assay, a viscous Methyl Cellulose-based medium supplemented with appropriate cytokines is used to enrich the clonal progeny of single haematopoietic progenitor cells called colony-forming cells (CFCs) or colony-forming units (CFUs). In the study from Kaufman et al. (2001) the expression of evolutionarily conserved genes, GATA-2 and TAL-1, and the decline in their expression with a simultaneous decrease in CFU numbers confirmed the haematopoietic origin of the differentiated progeny. Although haematopoietic cells were successfully derived from hESCs and extensively characterized, some inherent problems in the process were brought to light. The

differentiation was inefficient as the number of CFUs generated from days 14 to 18 was low (0.03%). The use of selectively enriched CD34⁺ cells from the whole population resulted in an improved CFU efficiency of 0.27% (equivalent to human bone marrow samples). However, no new CFUs (secondary or tertiary) were formed during this assay. The lack of new CFUs indicates the absence of LTRSCs that are essential for successful engraftment of an irradiated animal. Therefore, the haematopoiesis obtained by differentiation is transient and not definitive in nature. In another study, hESCs growing on OP9 monolayers were shown to give rise to CD34⁺ CD38⁻ primitive haematopoietic-like cells which were further induced to differentiate into a definitive population by culturing on M5 stroma in the presence of cytokines (Vodyanik et al. 2005). These cells were enriched in CFUs and expressed haematopoietic genes like GATA-1, GATA-2, SCL/ TAL-1 and FLK1. This study was used by Slukvin et al. to demonstrate the efficient generation of well characterized DCs from hESCs (Slukvin et al. 2006). These authors used OP9 co-culture to differentiate hESCs into CD34⁺ haematopoietic progenitors. These precursors were then treated with GM-CSF and other cytokines in a non-feeder based system to generate myeloid cells like DCs. The DCs exhibited a typical marker profile (CD80, CD86, CD40, etc.,) and gave expected readouts in biological assays in vitro which demonstrated that these terminally differentiated cells were functional.

Another proven method of differentiation from ES cells is the use of prohaematopoietic cytokines. Chadwick *et al.* (2003) demonstrated the successful use of cytokines like Stem Cell Factor (SCF), Flt-3 Ligand (Flt-3L), Interleukin-3 (IL-3), Interleukin-6 (IL-6) and Granulocyte Colony Stimulating Factor (G-CSF) and Bmp4, to direct the differentiation of hESCs to haematopoietic stem cells. In this study, the differentiated cells were characterised as CD45⁺ haematopoietic cells similar to both committed adult haematopoietic tissue and the initial population of definitive haematopoietic cells detected within the AGM region of the human embryo around day 27 (Oberlin *et al.* 2002; Labastie *et al.* 1998). The haematopoietic transcription factors *GATA-1* and *PU.1* were upregulated in these cells, confirming their acquired identity. Though it did not significantly affect the efficiency of differentiation, Bmp4 was found to promote the self-renewal capacity of these hESC-derived haematopoietic progenitors.

An alternative strategy for haematopoietic differentiation of hESCs was developed by Zhan et al. (2004) where a combination of cytokines was used to generate functional antigen-presenting leukocytes in culture. Using a combination of serum stimulation and addition of haematopoietic cytokines to EBs grown in suspension, CD34⁺ CD45⁺ haematopoietic progenitors were generated in culture. In addition, cells expressing CD80, CD86 (dendritic-like cells) and CD40 (antigen presenting cells) were detected and confirmed to be of dendritic origin by Wright-Giemsa staining which allows identification of the different cells in blood or bone marrow samples. These immature DC-like cells were shown to be functional antigen presenting cells through a mixed leukocyte reaction (MLR). In the MLR assay, the cytotoxic T-cell response to antigens is measured as a direct result of the antigen presenting activity of the test population. Even though there is extensive proof that in vitro differentiation of hESCs can give rise to HSC the functionality of these cells in vivo needs to be demonstrated. In a recent study, either a CD34⁺ CD38⁻ or CD34⁺/ lin⁻ cell population generated using S17 stroma was used to successfully engraft fetal sheep via haematopoietic chimerism (Narayan et al. 2006). This is an encouraging result that provides proof of principle that differentiated cells derived in vitro retain their functional behaviour after transplantation.

In Chapter 3 of this thesis, I will present preliminary results from investigations on the haematopoietic differentiation potential of two hESC lines, hES2 and hES3, which are extensively utilized in our laboratory. I employed two approaches– stromal cell co-culture and exposure to cytokines— to induce differentiation of the hESC lines. In both strategies, hESC-EBs were used as the starting material as these seemed to have a selective advantage over undifferentiated cells in generating differentiated progeny. Stromal cells are thought to promote differentiation by providing an environment that mimics in vivo conditions. Since the differentiation using stromal cells was sporadic it is possibly a spontaneous occurrence. Cytokine-based differentiation has the advantage of being a slightly more controlled and defined system in which pro-haematopoietic cytokines tightly control the development of the relevant cell types in contrast to the inconsistencies accompanying the use of stromal cells. This phenomenon was clearly noted in my investigations as cytokine treatment gave much more reproducible differentiation from hESCs. Though much improvement is needed to improve the efficiency of differentiated, these results provide proof that these two cell lines can be directed to a haematopoietic fate in vitro (Chapter 3).

1.5. Definitive endoderm formation in the vertebrate embryo

As a result of segregatory events in the embryo, the DE emerges from the anterior part of the primitive streak about 8 to 10 hours after gastrulation and incorporates into the visceral endoderm (VE) which covers the basal surface of the embryo (Grapin-Botton and Constam 2007; Tam and Beddington 1992; Lawson *et al.* 1991). This endodermal layer progressively displaces the VE to a more anterior and proximal position and closer to the extraembryonic region of the embryo (Tremblay

and Zaret 2005; Kinder et al. 2000; Tam et al. 1993; Lawson et al. 1986). Supporting this observation is the expression of VE markers which initially mark the cells overlying both embryonic and extraembryonic regions and are subsequently restricted to the visceral layer of the yolk sac (Weber et al. 1999; Beddington and Robertson 1999). By the late streak stage, the endodermal layer overlying the epiblast is exclusively DE, except for a region overlying the posterior primitive streak (Tam and Beddington 1992; Lawson and Pedersen 1987; Lawson et al. 1986). Soon after the emergence of DE, the gut endoderm folds and is internalized to form the gut tube from which the respiratory and digestive tracts and associated visceral organs develop (Lewis and Tam 2006; Wells and Melton 1999). This model of DE formation was arrived at through extensive fate-mapping studies using single-cell labelling and cell transplantation techniques. Advances in genetic and imaging tools available for such studies have led to a revision of this classical model. Kwon et al. recently put forth an 'intercalation' model in which cells of the DE get integrated into the existing VE (Kwon et al. 2008). These authors used three different transgenic lines that expressed either Alpha Feto Protein (Afp) or Transthyretin (Ttr), both VE markers, to track these cells in vivo. Several findings were made during the course of this study. (1) Cells of the VE disperse to accommodate definitive endoderm cells thus leading to cell mixing. (2) The external epithelial lining of the embryo consists of both VE and DE cells (not exclusively VE). (3) Absence of expression of VE-specific genes is due to down regulation and not cell migration. (4) VE-derived cells incorporate into the gut tube and hence contribute to the embryo proper. The proposed new model for morphogenesis of the endoderm is based on these observations (Fig 1.11).

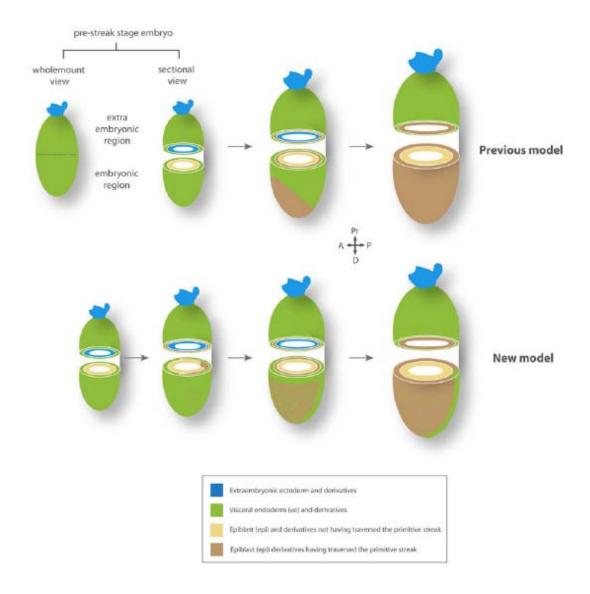


Figure 1.11. Development of endoderm in the vertebrate embryo. Historically, definitive endoderm is thought to arise at the anterior primitive streak present at the distal end of the embryo near the node. Ingression of definitive endodermal cells through the streak is accompanied by proximal movement of the visceral endoderm towards the extraembryonic region. In the new model proposed by Kwon *et al.* the visceral endoderm is not completely displaced but becomes dispersed by the intercalation of epiblast-derived definitive endodermal cells. Schematic diagram used with permission from Kwon *et al.* 2008 *Developmental Cell*.

Extensive studies in zebrafish, *Xenopus* and mouse have shown that members of the TGF- β family of molecules play critical roles in early development especially in the formation of mesoderm and endoderm (Schier 2003; Stainier 2002; Winnier et al. 1995; Smith et al. 1993). Nodal and Activin A are two such ligands that signal through phosphorylated Smad molecules to initiate transcription of genes important in development (Shi and Massague 2003; Moustakas et al. 2001). Receptor Smads-Smad2 and Smad3 are integral to the Nodal signalling pathway as these molecules mediate the intracellular consequences of ligand binding (Fig 1.12) (Arnold and Robertson 2009). Nodal has been shown to be important in determining cell fate and cell movements during early vertebrate development (Vincent et al. 2003; Norris et al. 2002; Whitman 2001; Schier and Shen 2000; Nomura and Li 1998). Its role in patterning is revealed in Nodal mutant mouse embryos that fail to form anterior visceral endoderm (AVE) and primitive streak and have no anterior-posterior identity (Brennan et al. 2001; Conlon et al. 1994). In the developing embryo, Nodal is also known to influence the formation of mesoderm and endoderm (Lewis and Tam 2006; Vincent et al. 2003; Lowe et al. 2001, Jones et al. 1995). Nodal establishes a gradient of expression which specifies the endoderm at higher levels and mesoderm at lower concentrations (Brennan et al. 2002; Stainier 2002; Chen and Schier 2001; Smith 1995). Activin A closely mimics Nodal, which is the endogenous ligand, and transduces its signals using the same receptor apparatus and Smads with the exception of Cripto, a co-receptor which is required for most Nodal signalling (Chen and Shen 2004; de Caestecker 2004; Schier 2003). This might explain why Activin can phosphorylate Smad2 faster than Nodal in Xenopus embryos as Nodal activity is limited by the requirement for the co-receptor (Lee et al. 2001). Studies on vertebrate embryos have shown that like Nodal, Activin can induce formation of both mesoderm and endoderm in a dose-dependant manner (Okabayashi and Asashima 2003; Ninomiya *et al.* 1999; Gurdon *et al.* 1995; Gurdon *et al.* 1994; Smith *et al.* 1990). Though largely considered to be identical, differences between these two molecules have been reported. Ramis *et al.* (2007) showed that Activin and Nodal are expressed differently and regulate distinct sets of genes in *Xenopus*. While Activin was ubiquitously expressed, Nodal was restricted to the vegetal and equatorial regions of the embryo.

For *in vitro* studies the commercially available preparation of Activin A is preferred over Nodal as it is more stable and shows better induction of differentiation (Tada *et al.* 2005). The ability of Activin A to generate either mesoderm or endoderm in a dose-dependent manner has been demonstrated in ES cells with low levels generating mesoderm and a higher concentration of Activin forming endoderm (Kubo *et al.* 2004; Johansson and Wiles 1995). Kubo *et al.* developed culture conditions in which Activin A induced formation of a primitive streak-like population expressing *Brachury*, which further developed into endodermal cells. Since then extensive studies have documented the use of Activin A *in vitro* to induce endoderm formation from mESCs and hESCs (McLean *et al.* 2007; D'Amour *et al.* 2005; Shi *et al.* 2005; Tada *et al.* 2005; Yasunaga *et al.* 2005). Activin A has also been employed successfully in generating more specialised and differentiated endoderm cell types from ES cells (D'Amour *et al.* 2006; Gouon-Evans *et al.* 2006). These observations prompted the use of Activin A in our differentiation strategy to induce formation of definitive endoderm *in vitro*.

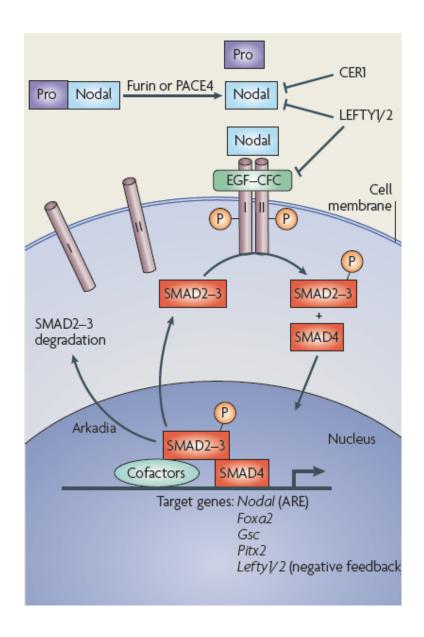


Figure 1.12. Nodal pathway. Pro Nodal is processed by convertases like Furin or PACE4 to generate Nodal which binds to the EGF-CFC co-receptor, Cripto to activate signaling. Ligand binding causes phosphorylation of Smad2/3 which enables the co-Smad, Smad4 to complex with Smad2/3. This complex then translocates to the nucleus and binds to co-factors like Foxh1/ FAST to trigger transcription of downstream target genes including *Nodal*, *Foxa2*, *Gsc*, *Pitx2* and *Lefty1/2*. Image used with permission from Arnold *et al.* 2009 *Nature Reviews Molecular Cell Biology*.

1.5.1. Differentiation of mESCs to endodermal derivatives

Endoderm induction has been extensively studied in model systems like Xenopus and zebrafish while such investigations in the mouse model have been limited due to the restricted accessibility to early stages of development. mESCs provide an ideal alternative system that allows extensive interrogation of mammalian development in vitro if their differentiation potential can be directed to give rise to desired cell types like endodermal cells (Keller 1995). One of the first reports of endoderm induction in vitro was from Kubo et al. who used a mESC line with GFP targeted to the Brachyury (Tbra) locus to monitor endoderm differentiation (Kubo et al. 2004, Fehling et al. 2003). Thra is a T-box transcription factor that marks the primitive streak and nascent mesoderm in vertebrate embryos (Wilkinson et al. 1990). These authors used Activin A in serum-free conditions to differentiate mESCs into Foxa2 and Sox17-expressing endoderm and Tbra-expressing mesoderm at the expense of Gata1-expressing haematopoietic cells and neuroectoderm marked by Pax6. Foxa2 (Forkhead box a2) is a marker of the anterior primitive streak (APS) and early endoderm, and is essential for the formation of foregut and midgut endoderm (Ang et al. 1993; Monaghan et al. 1993; Sasaki and Hogan 1993). Sox17 (Sry-related HMG box transcription factor) is expressed in the APS and DE, and is known to be essential for endoderm development as Sox17 null mice show severe depletion of definitive endoderm (Kanai-Azuma et al. 2002). The marker genes used most commonly to monitor endodermal differentiation as summarized in **Table 1.1**.

Kubo *et al.* (2004) observed, rather unexpectedly, that the endodermal cells were specified from *Tbra*⁺ cells which also exhibited mesoderm potential at the appropriate concentration of Activin A. When used at a high concentration Activin A induced endoderm and very little mesoderm, while at lower concentrations only

mesoderm formed from Tbra+ cells. In the embryo, Tbra is exclusively expressed in the PS and since both mesoderm and endoderm emerge from the PS, these cell types would have been Tbra⁺ at some point during their development. This was demonstrated in mouse studies using differentiated mESCs which showed development of both mesoderm and endoderm from mESC-derived *Tbra*⁺ cells (Kubo et al. 2004). The formation of mesoderm and endoderm from the same cell population under relevant culture conditions lends support to the existence of the mesendoderm. Though the concept of a common progenitor for mesoderm and endoderm, termed mesendoderm, had earlier been shown in C. elegans and Xenopus, no direct evidence had been found in the mouse system (Rodaway and Patient 2001). In Zebrafish the existence of cells expressing markers of both mesoderm (Tbra) and endoderm (Gata5) that generate all endoderm but only some part of mesoderm has been shown (Rodaway et al. 1999; Kimelman and Griffin 2000). Cell fate studies in the mouse have previously pointed to the possible mesendodermal potential of the organizer region of the anterior primitive streak as it gives rise to both anterior definitive endoderm and axial mesoderm (Kinder et al. 1999; Lawson et al. 1991). Therefore, it seems likely that the *Tbra*⁺ *Foxa2*⁺ cells generated by Kubo *et al.* are similar to cells of the anterior primitive streak that express these markers and give rise to the first endodermal cells and may possibly represent mesendoderm (Wilkinson et al. 1990; Monaghan et al. 1993; Sasaki and Hogan 1993; Wells and Melton 1999). Though Thra expression was used to define a bi-potent population by Kubo et al. it is not an exclusive marker of the mesendoderm. Thra is expressed in the node and early mesodermal cells and does not distinguish between mesendoderm and other cells of the mesoderm (Showell et al. 2004).

Working on the hypothesis that *Goosecoid* (*Gsc*) might be a better marker of the mesendoderm, Tada et al. (2005) generated a mESC line with a GFP reporter knocked into the Gsc locus and showed that a bi-potent mesendoderm population exists during Activin-induced mesodermal and endodermal differentiation of mESCs. Gsc is a homeobox transcription factor expressed in the organizer region that forms definitive endoderm in the developing mouse embryo (Blum et al. 1992). Using Gsc-GFP knock-in mESCs these authors were able to define a Gsc⁺ E-cadherin⁺ PDGFR⁺ mesendoderm population that subsequently diverges into Gsc⁺ E-cadherin⁺ PDGFR⁻ definitive endoderm precursors and Gsc+ E-cadherin- PDGFR+ mesodermal precursors. E-cadherin functions as a cell adhesion protein and is expressed in the epiblast and endoderm of the early mouse embryo (Takeichi 1995; Damjanov et al. 1986). The development of mesoderm from the Ecadherin precursors in the study outline above is consistent with the downregulation of E-cadherin expression during EMT which is essential for the differentiation and development of mesoderm at gastrulation (Burdsal et al. 1993). PDGFRa (platelet-derived growth factor receptor α) is expressed in the presumptive mesoderm of the vertebrate embryo and is induced during mesoderm formation by high doses of Activin (Jones et al. 1993; Symes et al. 1994). The Gsc⁺ Ecadherin⁺ PDGFR⁻ endoderm precursors and the Gsc⁺ Ecadherin⁻ PDGFR⁺ mesoderm precursors defined in this study further developed into Foxa2 and Sox17-expressing definitive endoderm and some mesoderm lineages respectively.

Though much progress was made in the derivation of endoderm induction *in vitro* it was still difficult to judge whether these differentiated endodermal cells represent definitive or visceral endoderm owing to the lack of molecular markers that distinguish between the two endodermal lineages (Grapin-Botton and Melton 2000; Tam *et al.* 2003).

Gene Name	Embryonic Expression	Relevance
Tbra	Primitive streak,	Required for posterior
	Nascent Mesoderm	mesoderm movement and
		somite differentiation
Gsc	Primitive streak,	Role in cell fate specification
	Anterior mesoderm	and craniofacial development
Foxa2	Anterior Primitve Streak,	Required for formation of
	Early Endoderm	foregut and midgut endoderm
Sox17	Anterior Primitve Streak,	Required for formation of
	Definitive Endoderm	definitive endoderm

Table 1.1. Marker genes expressed during the differentiation of mouse and human ES cells to definitive endoderm.

However, the expression of *Tbra* (which does not mark the VE) and lack of expression of VE markers like Sox7 in the above differentiation strategies suggests that it is DE and not VE that is being specified from the $Tbra^+$ and Gsc^+ populations (Kanai-Azuma et al. 2002). In order to distinguish between formation of DE and VE in vitro, Yasunaga et al. (2005) exploited the following observations: (1) Gsc is expressed in the anterior visceral endoderm of the mouse embryo (Filosa et al. 1997) and (2) Sox17 is expressed in the DE and not in the anterior VE (Kanai-Azuma et al. 2002). The authors proposed that it will be possible to distinguish between VEderived and DE-derived cells by monitoring appearance of mesendoderm markers during differentiation, as the DE forms through an intermediate mesendodermal state while the VE is derived directly from the ICM. In this study, a mESC line with a double knock-in– GFP into the Gsc locus and the human $IL2R\alpha$ gene (CD25) into the Sox17 locus— was generated and used to define and characterize the differentiated populations in vitro (Yasunaga et al. 2005). These authors were able to define mesendoderm-derived DE as $\operatorname{Gsc}^+\operatorname{Sox}17^+$ and VE as $\operatorname{Gsc}^-\operatorname{Sox}17^+$ and used this marker profile to identify culture conditions that selectively induced formation of either DE (Activin in serum-free medium) or VE (serum-free medium without Activin) and not both tissues. An unexpected observation from this study was that the cells designated as DE also expressed *Tbra*, an expression pattern that has rarely been described (Kispert and Herrmann 1994). This suggests that the mESCs progress through a gastrulation-like stage during differentiation as *Tbra* is a known marker of the same. Activin A could be responsible for this developmental sequence as it is known to induce expression of Tbra (D'amour et al. 2006; Rust et al. 2006; Kubo et al. 2004; Kimelman and Griffin 2000). To characterize the DE and VE populations, further microarray analysis of the differentiations was done to identify cell surface

markers. Nine surface markers with 10-fold difference in expression between DE and VE were identified. One of these, Cxcr4, is a chemokine receptor for Sdf-1 (stromal cell-derived factor 1) which is expressed in the DE and mesoderm but not in the VE (McGrath *et al.* 1999). Under conditions that support DE formation, Yasunaga *et al.* found that Cxcr4 expression was induced simultaneously with Gsc while the Gsc population showed no Cxcr4 expression. As Cxcr4 is not detected in VE or on undifferentiated ES cells, it can be used in combination with DE-specific markers to designate cells from the DE. These studies and others on mESCs encouraged and guided efforts to induce endoderm from hESCs, some of which are described below.

1.5.2. Endodermal differentiation from hESCs

Encouraged by the success of Activin A in generating definitive endodermal derivatives from mESCs when used at a high concentration, this Nodal mimic has been used widely to differentiate hESCs into DE. In one such strategy D'Amour *et al.* (2005) induced endodermal differentiation from hESCs in presence of high Activin A concentration (100 ng/ml) and low levels of serum. This differentiation resulted in the elevated expression of definitive endodermal marker genes like *GSC*, *FOXA2*, *SOX17* and *CXCR4* (described earlier) while markers of primitive, visceral and parietal endoderm like *SOX7*, *Alpha feto protein* (*AFP*) and *Thrombomodulin* (*THBD*) were not detected (Kanai-Azuma *et al.* 2002; Weiler-Guettler *et al.* 1996; Dziadek and Andrews 1983). *FOXA2* and *SOX17* double-positive cells were shown to be derived exclusively from the *TBRA*⁺ population thus confirming formation of DE as *TBRA* is not detected in the primitive endoderm (Wilkinson *et al.* 1990). The decreasing expression of E-cadherin followed by increasing expression of N-cadherin pointed to an EMT-like event and formation of a primitive streak-like intermediate during

differentiation. Testing the *in vivo* potential of these cells showed partial differentiation into endodermal derivatives. These authors subsequently extended this differentiation strategy to produce pancreatic hormone-expressing endocrine-like cells from hESCs (D'Amour *et al.* 2006).

In the modified protocol, DE was formed by treating cells with Activin A (high) and Wnt3 in serum-free conditions, which eliminated the requirement for serum stimulation. Sequential exposure of the DE to various other reagents like fibroblast growth factor 10 (FGF10), cyclopamine and Retionic Acid resulted in the formation of PDXI⁺ (pancreatic and duodenal homeobox 1) pancreatic endocrine progenitor cells which were further differentiated into hormone-expressing cells. Expression of the transcription factor Pdx1 in the ventral and dorsal endoderm first specifies the pancreatic fate in the embryonic foregut and this precedes the progressive expression of more mature markers of the endocrine lineage, including Neurogenin 3 (Ngn3) and Islet 1 (Isl1) (Habener et al. 2005; Ashizawa et al. 2004; Jensen 2004). The hormoneexpressing cells formed during the differentiation described by D'Amour et al. (2006) responded to a variety of insulin secretagogues, but only showed limited glucose responsiveness. In addition, a significant proportion of the insulin⁺ cells curiously displayed immunoreactivity for the additional islet endocrine hormones glucagon and/or somatostatin. Thus, these cells resemble the infrequent, doubly hormonepositive cells observed in the mouse and human embryo that have been shown by lineage analysis in the mouse to never give rise to adult endocrine cells (Piper et al. 2004; Herrera 2002). This emphasized the need for improved protocols for the generation of glucose-sensing insulin-secreting cells from hESCs.

Our lab used a novel hESC differentiation strategy that combines an initial three-dimensional (3D) endoderm induction phase with a series of culture conditions

originally optimized to trigger formation of endocrine β -cells from adult pancreatic epithelial duct cells (Phillips et al. 2007). Unlike the strategies described above, this differentiation exploited the hESC-EB system as we hypothesized that effective cellcell interactions within the three-dimensional EB may promote better lineage specification and cell type allocation in a manner reminiscent of human development. Even with the predicted drawbacks of (1) random EB sizes and (2) stochastic internal architecture, which may promote counter-productive cell-cell interactions, this system was effective in reproducibly generating pancreatic endoderm. Genes characteristic of definitive endoderm formation were induced within the first 4 days of differentiation, and this was followed by activation of PDXI on day 12. With extended differentiation, a portion of PDX1-expressing pancreatic progenitors became further restricted to the endocrine lineage, uniquely expressing the INSULIN gene and releasing C-peptide into the culture medium. These β -like cells do not produce other pancreatic hormones, show modest glucose responsiveness, and retain their endocrine identity when transplanted into diabetic severe combined immunodeficiency (SCID) mice.

In this protocol Activin A and Bmp4 (bone morphogenetic protein 4) were shown to synergistically enhance the formation of *PDXI*-expressing pancreatic endoderm in a Matrigel-based medium. Matrigel, a mouse EHS sarcoma-derived basement membrane matrix, can function as a supportive scaffold for cellular maintenance by mimicking *in vivo* conditions (Kleinman and Martin 2005). The endoderm-inducing effect of Bmp4 when used with Activin A is unexpected as it has been previously shown to induce formation of trophoblast, extraembryonic endoderm, primordial germ cells, and mesoderm-derived haematopoietic progenitors from hESCs but not definitive endoderm (Kee *et al.* 2006; Valdimarsdottir and Mummery

2005; Xu *et al.* 2002). This ability of Bmp4 to form endoderm is entirely reproducible within the EB-based differentiation and can also be implemented to promote endoderm differentiation of hESCs in a monolayer (Y. Ali, A. Teo, H. Chipperfield—unpublished results). Individually, both Activin A and Bmp4 are known to have critical functions in the embryo around the same period of development. However, synergistic activity between the two that enables the induction of endoderm has not been reported.

Activin A transduces its signal through a complex of Smad2/3 and Smad4 that translocates to the nucleus and binds to FOXH1 (FAST) which activates transcription of genes like Goosecoid (GSC), NODAL, PITX2, etc. This leads to downstream signaling that results in the formation of mesoderm or endoderm (Schier 2003). In the developing mouse embryo, Bmp4 is first expressed in the extraembryonic region adjacent to the posterior epiblast at gastrulation (Lawson et al. 1999; Waldrip et al. 1998). Later in development expression is detectable at the junction of the amnion with the posterior PS. Bmp4 signals through Smad1/5/8 to initiate transcription of genes that specify its downstream functions (Wu and Hill 2009; Massague and Gomis 2006; Massague et al. 2005). The requirement for extraembryonic Bmp4 in the formation of the node and primitive streak and for epiblast-derived Bmp4 in maintaining left-right patterning in the mouse embryo has been clearly shown using Bmp4 mutant mice that had defects in these processes (Fujiwara et al. 2002). However, not much is known about the relevance of Bmp4 in the formation of DE. One study provides evidence that Bmp receptor 1A (Bmpr1a) is required for endodermal morphogenesis in mouse embryos as mutants lacking Bmpr1a in the epiblast form mosaic embryos showing abnormal expression of definitive endoderm markers (Davis et al. 2004). Though the endoderm cell identity was not affected, the distribution of definitive endoderm was defective as seen by the patchy expression of Foxal (marks definitive endoderm) and the formation of the gut tube was incomplete. In a very recent report Bmp4 has been shown to be necessary and sufficient for the specification of ventral endoderm in Xenopus (Wills et~al. 2008). In this study, Bmp4 was overexpressed in Xenopus embryos which resulted in the specific induction of ventral endoderm marked by $Sox17\beta$, Mixer, VegT, etc., and not dorsal endoderm. The importance of Bmp signaling for the formation of ventral and not dorsoanterior endoderm was reiterated in experiments employing Bmp antagonists Chordin and Noggin, and morpholino knockdown of Bmp2, Bmp4 and Bmp7. A quadruple knockdown of Bmp2, Bmp4, Bmp7 and β -Catenin resulted in complete abrogation of all endoderm in the embryos, indicating that Bmp and Wnt pathways are essential for endoderm formation in Xenopus. These studies suggested that Bmp4 might be acting early in endoderm specification. Therefore, a significant focus of this dissertation is investigation of the role of Bmp4 in the initial part of this differentiation.

It is possible that our differentiation protocol creates an environment that reveals the effect of Bmp4 on primitive streak patterning and endoderm specification as has been reported in other vertebrate systems (Tiso *et al.* 2002; Song *et al.* 2007). It has been demonstrated that differentiating hESC-EBs form a VE-like layer around themselves (Conley *et al.* 2004). In the mouse embryo, the anterior VE (AVE) is known to antagonize formation of the primitive streak by secreting Bmp antagonists (Lewis and Tam 2006). Our lab recently demonstrated that Matrigel inhibits VE formation during *in vitro* differentiation of hESCs (Rust *et al.* 2006). Loss of this tissue might therefore be creating an environment which relieves the Bmp4 antagonism and facilitates its action during differentiation.

A more direct effect of Bmp4 could be due to its induction of *Tbra* expression which has been reported in mESCs (Johansson and Wiles 1995). Since definitive endoderm derived during in vitro differentiation of mESCs has been shown to arise from Tbra⁺ cells this might be a possible mechanism of Bmp4 action during hESC differentiation (Tada et al. 2005; Yasunaga et al. 2005; Kubo et al. 2004). The threedimensional differentiation described in Chapter 4 employs extended exposure of EBs to Bmp4 which raises the possibility that Bmp4 could act later in the differentiation on committed endodermal progenitors, possibly mimicking pancreas-promoting signals emanating from the lateral plate mesoderm (Kumar et al. 2003). This is supported by a recent study using mESCs which showed that isolating Activin Ainduced endodermal progenitors by cell sorting and subsequently culturing them at high density in the presence of Activin A and Bmp4 (and bFGF) promoted both hepatocyte differentiation and activation of Pdx1 (Gouon-Evans et al. 2006). However, this might not be relevant to my differentiation scheme as Bmp4 seems to be acting early to exert an endoderm-specifying effect on the hESCs in Matrigel and does not have a similar effect if added later (data not shown). In addition to probing the how Bmp4 facilitates or directly influences the formation of definitive endoderm it is also important to assess the actual mechanism of endoderm induction by Activin A in hESCs. In Chapter 4 of this thesis, I will describe my efforts towards a) the detailed characterization of differentiation in the 3D Matrigel system and b) the identification of a mechanism for the synergy shown by Activin A and Bmp4 in inducing endoderm from hESCs.

Broad Aims of the Thesis

- Test haematopoietic potential of human embryonic stem cells lines
 – hES2
 and hES3
 – maintained on various culture platforms.
- 2. Characterise the early lineage specification events that occur during *in vitro* endoderm differentiation from human embryonic stem cells.
- 3. Identify a mechanism of action for the observed Activin A and Bmp4 synergy during differentiation by screening for expression of novel genes.



2.1. Cell culture

2.1.1. Human embryonic stem cell culture

Human embryonic stem cells lines (hESCs), hES2 and hES3, were cultured as described (Reubinoff et al. 2000). Briefly, hESC lines were grown on a feeder layer of mitotically inactivated mouse embryonic fibroblasts (MEFs) derived from day 13.5 129/Sv mouse embryos and plated at a density of 5 x 10⁴ cells/cm² in hESC medium containing Dulbecco's Modified Eagle's Medium (DMEM), 20% Fetal Bovine Serum (FBS), 100 µM non-essential amino acids (NEAA), 2 mM L-glutamine, 1% v/v Insulin Transferrin Selenium (ITS), 0.5% v/v penicillin/streptomycin, and 0.1 mM βmercaptoethanol (β-ME) (ES Cell Culture Lab Manual, ES Cell International Pte Ltd). Alternatively, hESCs were grown on gamma-irradiated human fibroblasts CCD919 (ATCC) or Ortec (Crook et al. 2007) fibroblasts in KO medium containing Knock-out DMEM (KO-DMEM), 20% Knock-out Serum Replacement (KOSR), 2 mM L-glutamine, 100 µM NEAA and 25 ng/ml basic Fibroblast Growth Factor (bFGF) (Strathmann). For routine passaging, hESC colonies were cut into small clumps using a combination of manual and enzymatic methods. The plate was rinsed with Phosphate Buffered Saline (PBS) and treated with 1 mg/ml Type IV Collagenase in PBS for 5 minutes at 37°C. Collagenase was rinsed away with PBS and replaced with hESC/ KO medium. The entire surface area of the plate was streaked with a micropipette tip at approximately 2mm intervals. Cells were then harvested with a cell scraper and transferred to fresh feeder plates previously conditioned in hESC/KO medium. Typical splitting ratios were between 1:3 and 1:6 depending on the density of the starting culture. Morphologically differentiated colonies or cystic regions were

removed by aspiration prior to dissociation. All tissue culture reagents were purchased from Invitrogen (Gibco) unless otherwise stated.

2.1.2. Stromal feeder cells

Human feeder cells HS-5 and HS-27A were obtained from ATCC and cultured according to manufacturer's recommendations. Briefly, HS-5 cells were thawed and cultured in growth medium composed of DMEM, 4 mM L-glutamine, 4.5 mg/ml Glucose, 1.5 mg/ml Sodium bicarbonate (Na₂CO₃) and 10% FBS. Splitting ratio was 1: 3 to 1: 9. HS-27A cells were grown in medium composed of RPMI 1640, 2 mM L-glutamine, 10 mM HEPES, 1 mM Sodium pyruvate (C₃H₃NaO₃), 4.5 mg/ml Glucose, 1.5 mg/ml Na₂CO₃ and 10% FBS. Split ratio was 1: 4 to 1: 5. Mouse stromal cell line OP9 was grown in medium composed of Alpha Minimum Essential Medium without ribonucleosides and deoxyribonucleosides, 2 mM L-glutamine, 1.5 mg/ml Na₂CO₃ and 20% FBS (Nakano *et al.* 1994). Split ratio was 1: 4 to 1: 5.

2.2. Differentiation protocols

2.2.1. Haematopoietic differentiation: Co-culture with stromal cell lines

Human stromal cell lines HS-5 and HS-27A were seeded onto tissue culture dishes at a cell density of 5 x10⁴ cells/ cm². The next day, hESCs or EBs (defined in Chapter 1) were seeded onto the feeder cells. Briefly, hES2 and hES3 cells grown on MEFs were dissociated using Collagenase IV (1 mg/ml). The hESC layer was sectioned into small clumps (3-4 mm) and scrapped off using a cell scraper into hESC medium. Clumps were spun down at 1200 rpm for 3 minutes and resuspended in the appropriate medium, DMEM-based HS-5 medium, RPMI-based HS-27A medium or

hESC medium. Clumps in hESC medium were seeded into 6-well Ultra low attachment plates (Corning Lifesciences) for EB formation for 2 weeks with medium changes every 2 days. Clumps in feeder medium or day 14 EBs were seeded on feeder layers at the seeding density used in routine culture of hESCs. Medium changes were done every 2 days and culture continued for 2 weeks. By day 3, most hESC clumps attached and some seemed to differentiate (change in cell morphology) while others remained undifferentiated. By day 10 almost all clumps seemed to have differentiated. EBs attached by day 2 and seemed to grow out on the feeders. On day 14, cells were detached from the dishes using 0.25% Trypsin and seeded into Methocult H+4435 (Stem Cell Technologies) for the CFU assay described later. Methocult-containing plates were monitored for the appearance of haematopoietic colonies over the next 4 weeks.

OP9, a mouse MCF-deficient stromal cell line, was seeded in tissue culture dishes at 5 x 10^4 cells/ cm². hESCs or day 14 hESC EBs were seeded onto the monolayers in OP9 or hESC medium as outlined above. Cultures were continued for 2 weeks with medium changes every 2 days. At the end of culture, cells were dissociated using 0.25% Trypsin and seeded in Methocult for CFU assay as described. If cells with dendritic-like protrusions were observed in culture, 20 ng/ml Tumor Necrosis Factor alpha (TNF- α) and 1 μ g/ml Lipo Poly Saccharide (LPS) were added for 90 minutes at 37°C to stimulate maturation of any dendritic-like cells before using the cells for immunostaining.

2.2.2. Haematopoietic differentiation: Use of cytokines

hESC-derived EBs were differentiated in presence of cytokines that are known to be functional during haematopoiesis (Zhan *et al.* 2004). Briefly, hESCs were

dissociated using Collagenase IV and EBs were generated in 6-well ultra low attachment plates. EBs were formed in hESC medium supplemented with 0.1 mM β-ME and 20% FBS. After 2 weeks, EBs were transferred to 6-well tissue culture plates in a differentiation medium containing KO-DMEM, 2 mM L-glutamine, 0.1 mM NEAA, 0.1 mM β-ME and 20% FBS for another 2 weeks. The following cytokines were added to the differentiation medium: 100 ng/ml Stem Cell Factor (SCF), 50 ng/ml Flt3 ligand (Flt3L), and 20 ng/ml Thrombopoietin (TPO) to maintain haematopoietic stem cells and to expand committed progenitor cells; 20 ng/ml Interleukin 3 (IL-3), 100 ng/ml Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF), and 20 ng/ml Interleukin 4 (IL-4) to enhance maturation of lymphoid cells and dendritic cells (Cytokines from Peprotech). After 4 weeks of differentiation cells were dissociated using 0.25% Trypsin and either immunostained for flow cytometry or seeded in Methocult for CFU assay as described below. If cells with dendritic-like protrusions were observed in culture, these were stimulated with 20 ng/ml TNF-α and 1 µg/ml LPS for 90 minutes at 37°C to induce maturation of any dendritic-like cells before dissociating the cells.

2.2.3. Endodermal differentiation: 3D Matrigel protocol

hESCs cultures were washed with PBS+ (with Ca++, Mg++) and incubated with Collagenase IV (1 mg/ml) for 5 minutes at 37°C. Cells were washed again with PBS+ after removing the Collagenase IV and growth medium was added. Cell layer was sectioned/ streaked into 3-4 mm-sized clumps using a micropipette tip. Differentiated regions were aspirated out before Collagenase treatment. Cell clumps were scrapped off in the medium and spun down at 1500 rpm for 3 minutes. Clumps were resuspended in ice-cold RPMI + 20% KOSR medium containing 1:6 dilution of

Growth Factor reduced Matrigel (BD Biosciences, USA). Early factors (EF) Activin A and Bmp4 (50 ng/ml each; R & D Systems) were added to the relevant aliquot of cells. Clumps were distributed evenly between required number of wells in 6-well ultra low attachment plates (day 0) and incubated at 37°C for the duration of the experiment. Clumps started aggregating and rounding up by day 1 and were compact embryoid bodies by day 2. To accommodate medium evaporation and growth factor depletion and to maintain the semi-solid matrix over extended culture, the culture medium was supplemented on days 3 and 6 by adding 0.5 ml/well of basal RPMI medium (without Matrigel) containing 100 ng/ml Activin A and 100 ng/ml Bmp4. On day 10, EBs embedded in Matrigel were treated with the late factors (LF) - HGF (50 ng/ml), β-cellulin (50 ng/ml) and Exendin-4 (10 ng/ml) (growth factors from R & D Systems). Briefly, 2 ml RPMI+ 20% KOSR basal medium was added to each well and incubated for 1 hour to wash out the early factors. Without disrupting the Matrigel layer 2 ml medium was removed carefully from each well. Medium (0.5 ml) containing the appropriate amount of late factors was added to all wells. The culture medium was similarly supplemented with these late factors on days 13 and 16. One set of EBs did not receive any growth factors. Cultures were harvested every other day till day 20, unless otherwise stated, for expression analysis of PDXI and other assorted markers by Q-PCR.

A variation of the above protocol was used to investigate in detail the role of Activin A and Bmp4 in this system. hESCs were dissociated using Collagenase IV and clumps were seeded in RPMI+KOSR medium containing Matrigel as described. Early factors were used to create four different conditions for differentiation- (1) Activin A (50 ng/ml), (2) Bmp4 (50 ng/ml), (3) Activin A + Bmp4 (50 ng/ml each) and (4) No growth factors. The same scheme was followed for medium top-up on

days 3 and 6. The second phase of differentiation was identical for all 4 conditions with the addition of all three Late Factors. EBs were harvested every other day for expression analysis using undifferentiated hESCs as control. Selected samples from this differentiation were used for Microarray analysis described later.

To study the effect of Matrigel on the differentiation, free-floating EBs were generated exactly as above without the supporting Matrigel matrix. Growth factors were used at a concentration of 50 ng/ml. Differentiation of free-floating EBs was done only up to day 10, unless otherwise indicated.

2.3. CFU assay

CFU assay allows generation of clonal colonies from haematopoietic progenitors in a viscous methyl cellulose-based medium supplemented with stimulatory cytokines. Cells/EBs were dissociated using 0.25% Trypsin and seeded in Methocult (H+4435, Stem Cell Technologies) to allow formation of haematopoietic colonies. Briefly, between 1 x 10⁴ and 2 x 10⁵ cells in 300 µl KO-DMEM was added to 2.7 ml Methocult and vortexed. After allowing the cell suspension to settle for 5 minutes, 1 ml each was seeded into three 35 mm non-treated culture dishes (Stem Cell Technologies) specifically designed for CFU assays and incubated at 37°C. These plates were monitored over 4 weeks for the appearance of haematopoietic colonies. A cluster of at least 50 cells was counted as a colony, and identification was based on descriptions given in the Atlas of Human Haematopoietic Colonies (Stem Cell Technologies). Since CFU colony morphology was identical for hES2 and hES3, images of colonies shown are from either cell line.

2.4. Flow Cytometry

Cells from the differentiating adherent culture or colonies from the CFU assay were immunostained and subjected to Fluorescence Activated Cell Sorting (FACS) using a FACScalibur (BD Biosciences). Adherent cells were dissociated using 0.25% Trypsin and washed in PBS. Colonies from CFU assays were progressively diluted with PBS to allow easy aspiration of the colonies. Colonies were resuspended and washed in PBS. Cells in PBS were transferred to FACS tubes and fixed using Cytofix/ Cytoperm reagent (BD Biosciences) for 20 minutes on ice. Fixed cells were washed and stained with primary antibody for 40 minutes on ice. All washes post-fixation were done in 1 x washing solution (BD Biosciences) and cells were spun at 1220 rpm for 5 minutes at 4°C. One aliquot of cells was treated with the appropriate isotype control or used as control with no primary antibody addition. After 2 washes appropriate secondary antibodies were added and incubated for 30 minutes on ice. Cells were washed to remove excess secondary antibody and resuspended in PBS + 1% FBS. Samples were analysed on FACScalibur and quantitated using Cellquest Pro software. Normalisation was against the isotype or no primary antibody control. The following primary antibodies were used at 1:100 dilutions: CD83-FITC, CD45-PE, CD14-PerCP-Cy5.5, CD34- FITC and CD86-Biotin (all from BD Biosciences). Isotype controls IgG1k-FITC, IgG1k-PE, IgG2ak-PerCP-Cy5.5 and IgG1k-Biotin (BD Biosciences, USA) were used at 1:100 dilutions.

2.5. Immunocytochemistry

Plated cells/ EBs were washed 2x with PBS and fixed in 4% paraformaldehyde (PFA) for 30 minutes at room temperature. After 2 washes, cells/ EBs were blocked using blocking solution (10% FBS, 0.05% Triton X-100 in PBS) for 1 hour at room

temperature. Diluted primary antibody was added to the cells after removing the blocking solution and incubated overnight at 4°C. Cells were washed 3x with PBS. Diluted secondary antibody was then added and incubated for 1 hour at room temperature. Cells were washed 3x with PBS and incubated for 3 minutes at room temperature with 1:10,000 diluted Hoechst 33342 (Molecular Probes). Cells were washed 2x in PBS and either observed immediately or the next day using a Zeiss Axiovert microscope. All antibody dilutions were performed with blocking solution. For haematopoietic cells, fluorophore-conjugated primary antibodies CD34-FITC and CD45-PE were diluted 1:100 for use. For endodermal differentiation primary antibodies Sox-17, Foxa2 (R&D systems) and Oct4 (Santa Cruz Biotech) were diluted 1:100 for use. Alexa 488 was the secondary antibody used at a dilution of 1:200.

2.6. Differential staining

May-Grünwald and Giemsa staining is a differential staining procedure done to distinguish between various types of cells in blood. Methocult cultures were progressively diluted with PBS to allow easy removal of colonies for staining. Colonies collected were pooled and washed in PBS. Cells in 100 μl PBS was spun on to poly-lysine-coated slides at 500 rpm for 5 minutes with low acceleration. Slides were fixed in absolute Methanol for 20 minutes. Staining solutions were diluted using 0.2 M phosphate buffer or Sorenson's buffer (**Appendix I**). Without washing or drying, slides were stained with May-Grünwald stain (diluted 1:1 with Sorenson's buffer) for 10 minutes followed by Giemsa stain (1:10 using Sorenson's buffer) for 30 minutes. Slides were rinsed once with Sorenson's buffer (0.2 M phosphate buffer) and washed in running deionised water. Air-dried slides were examined using a Zeiss Axiovert Microscope. Blood cell types were identified using published images of

stained blood films (slides 1-6) from the following webpage as reference. http://www1.imperial.ac.uk/medicine/about/divisions/is/haemo/morphology/bain/images/default.html

2.7. RNA extraction

EBs or cells collected at different time points were washed in PBS to remove medium and lysed in Trizol (Invitrogen) or RLT buffer (RNeasy Kit, Qiagen) for RNA extraction. To ensure complete lysis, cells in RLT buffer were first spun through Qiashredder columns (Qiagen) at 13,000 rpm for 2 minutes. Lysates from either method were stored at -80°C till use. Trizol lysates (500 µl) were thawed on ice, mixed well with 150 µl Chloroform and incubated at room temperature for 3 minutes. Lysates were spun at 12,000 rpm for 15 minutes at 4°C and the aqueous phase was transferred to a fresh tube. RNA was precipitated by adding 375 µl of Isopropanol and incubating at room temperature for 10 minutes followed by centrifugation at 12,000 rpm for 10 minutes at 4°C. The supernatant was discarded and the pellet resuspended in 1 ml 70% Ethanol, vortexed and spun at 7,500 rpm for 5 minutes at 4°C. After removing the supernatant, the pellet was air-dried and re-suspended in 30 µl RNasefree water for quantification using Nanodrop. Ethanol, Chloroform and Isopropanol were from Sigma Aldrich. RLT buffer lysates were processed using the RNeasy kit (Qiagen) according to manufacturer's instructions. RNA was eluted in 30 µl RNasefree H₂O and quantitated using the Nanodrop.

2.8. Quantitative RT-PCR

5 μg RNA was reverse transcribed to generate cDNA for quantitative PCR. For cDNA preparation, 60 μg/ml Random Primers (Invitrogen), 1x MMLV RT Buffer (NEBL) and 0.5 mM dNTP mix (Invitrogen) was added to each sample and mixed well. An aliquot was removed as the RT negative control (-RT). 1 μl MMLV Reverse Transcriptase (NEBL) was added to each sample and incubated at 37°C for 1 hour after mixing well. RT was inactivated by heating samples at 95°C for 5 minutes. Each Q-PCR consisted of 50 ng cDNA, 2x Sybergreen master mix and 10 mM primer mix (forward and reverse). PCR was performed using the iCycler MyiQ (Biorad). Quantitation was performed either against a standard curve or according to ΔCt relative to β-actin amplification. Primer pairs are listed in **Appendix II.**

2.9. Western blotting

EBs were harvested and washed in PBS to remove all traces of media. Pellet was snap frozen in liquid nitrogen and stored at -80 °C till use. For protein extraction, the pellet was thawed and lysed in RIPA (Radio Immuno Precipitation Assay) buffer with freshly added 1 mM PMSF (phenylmethanesulphonylfluoride) (Sigma) and 1X protease inhibitor cocktail (Roche). Lysate was triturated to lyse the EBs efficiently and spun down at 13,000 rpm for 10 minutes to remove debris. Supernatant was collected and spun a second time at 13,000 rpm for 5 minutes. Total protein content of the supernatant was estimated using the BCA protein assay (Pierce) following manufacturer's recommendations. Colorimetric measurements were done using the Fluorostar Optima plate reader. For western blot, 20-30 μg total cellular protein was loaded in each well along with 1X Laemmli sample buffer.

Using the Biorad mini-Protean System, 1.5 mm thick gels (3% stacking and 8% running) were run at 100 V for 90 minutes in 1x Tris Glycine SDS (Sodium Dodecyl Sulphate) buffer (Biorad). Pre-stained molecular marker (Biorad) was used to identify and assign sizes to the protein bands on the gel. Gels were blotted onto Hybond-P PVDF or Hybond C-extra nitrocellulose membrane (Amersham Biosciences) under semi-dry conditions in Transfer buffer for 45 minutes at 10 V. Blots were stained with Ponceau S to check for transfer and before blocking in either 5% w/v non-fat dry milk or 5% Bovine Serum Albumin (BSA) (Sigma) in 1X Tris Buffered Saline (TBS) + 0.1% Tween-20 (Sigma) (TBST). After one hour of blocking, blots were incubated overnight at 4°C with the primary antibody diluted appropriately in blocking buffer. Blots were washed 5 times in TBST to remove excess and unbound primary antibody. Secondary antibody incubation was performed for one hour at room temperature and blots were washed 5 times to remove excess secondary antibody. Gel and buffer compositions are given in **Appendix I**.

Chemiluminescent detection of proteins was done using the ECL Plus system (Amersham Biosciences) according to manufacturer's recommendations. Protein signal was captured on Hyperfilm (Amersham Biosciences) and developed using a Kodak film processor. Rabbit polyclonal primary antibodies pSmad2/3 and pSmad1/5/8 were diluted 1:1000 before use (Cell Signaling). Monoclonal anti-human Actin antibody was diluted 1:4000 for use (Chemicon). Secondary antibodies, antirabbit IgG-HRP (Cell Signaling) was used for the Smad antibodies at 1:1000 dilution. Actin was detected using anti-mouse Ig-HRP (Dako) at 1:4000 dilution.

2.10. Microarray

hESCs were differentiated using a variation of the 3D Matrigel protocol in 4 different conditions- (1) Activin A (50 ng/ml), (2) Bmp4 (50 ng/ml), (3) Activin A + Bmp4 (50 ng/ml each) and (4) No growth factors. RNA from undifferentiated hESCs on day 0 and hESC-EBs harvested on days 4 and 6 was used for microarray using the Illumina Sentrix® BeadChip Human Reference 8 Version 2. Two biological replicates of each sample were performed. An aliquot of each RNA sample (500 ng) was converted to complementary RNA with the Illumina TotalPrep™ RNA Amplification Kit (Ambion) according to manufacturer's recommendations. Purified cRNA samples were added to the Illumina BeadChips and loaded into the Hybridization Chamber. After overnight incubation at 58°C on a rocker BeadChips were washed thoroughly, blocked and stained with Streptavidin-Cy3. Once the chips were thoroughly washed and dried, the staining was detected and measured using an Illumina Bead scanner. Data was generated using Illumina Bead Studio software and analysed using Genespring software. Statistically relevant data were generated using the paired T-Test (p≤0.17).

2.11. Whole Mount *In Situ* Hybridisation (WISH)

2.11.1. Cloning of genes

Total Mouse embryonic RNA from E7.5, E8.5 and E9.5 was used for cDNA preparation as described earlier. A partial cDNA fragment was amplified by PCR using primers spanning the 3' UTR (variable) region of each specific gene. The PCR product was resolved on a 1% agarose gel run at 100V for 40 minutes and visualized using 0.5ug/ml Ethidium Bromide added in the gel. Once product size was confirmed,

the DNA fragment was cloned into the TOPO PCR II vector according to manufacturer's recommendations (TOPO TA Cloning Kit, Invitrogen). The plasmid preparation was used to transform TOP10 (Invitrogen) or XL-Gold (Stratagene) cells according to manufacturer's recommendations. Clones, after selection for Ampicillin resistance and lack of X-gal staining were grown up and plasmid DNA was extracted subsequently using the Qiaprep Miniprep kit (Qiagen) according to manufacturer's recommendations. DNA was quantitated using Nanodrop and 1 µg of each sample was used for restriction enzyme (RE) digest analysis to confirm insertion of specific gene fragment.

RE digest was done using appropriate enzymes that would cut the plasmid at sites such that the DNA insert is released as a single fragment. Reactions were carried out in recommended buffers at 37°C for 90 minutes. Digested DNA was run on 1% agarose gels at 100V for 40 minutes to confirm proper digestion and fragment release. Clones containing the correct insert were subsequently sequenced and aligned against the expected PCR product gene sequence to confirm the 5' to 3' orientation of insert in the pCRII vector.

2.11.2. Riboprobe synthesis

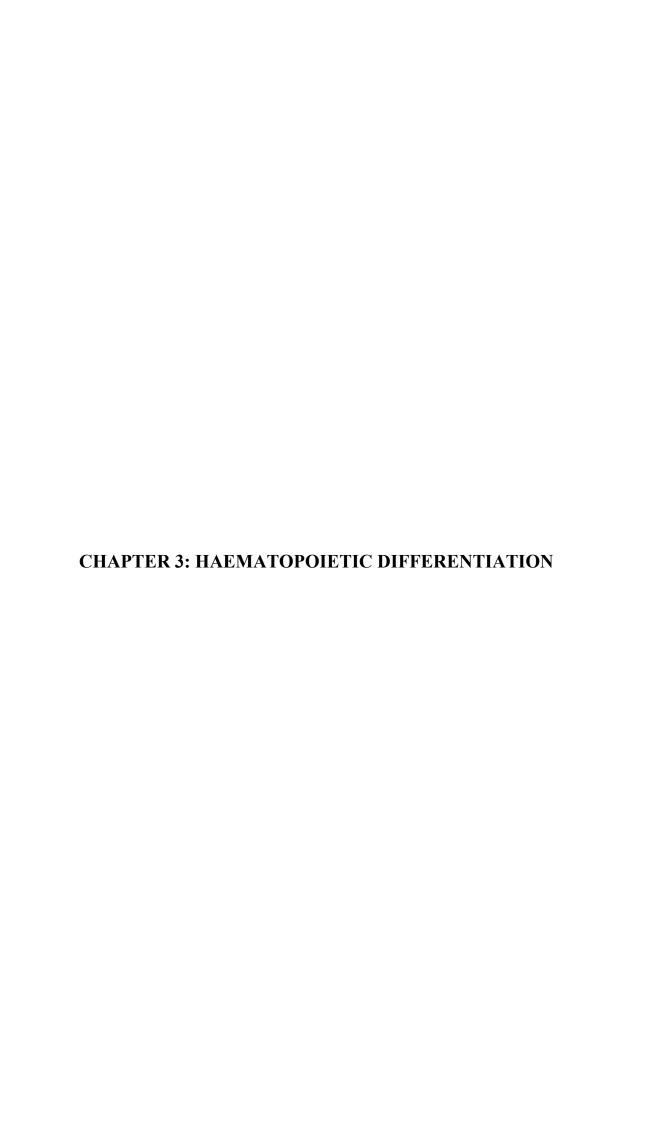
For riboprobe synthesis, 2 µg of the plasmid prep was linearised using an RE that cuts only once at the 5' end of the insert. RE digest was done as described earlier in a total volume of 40 µl at 37°C for 2 hours. 2ul of the RE reaction was run on a 1% agarose gel to confirm for complete linearization. The remainder was purified using the QIAquick PCR Purification kit according to manufacturer's recommendations (Qiagen) and eluted in 40 µl RNase-free H₂O. 500 ng of DNA was used for subsequent RNA synthesis using either the T7 or SP6 RNA polymerases (Stratagene).

RNA synthesis was done in 5X reaction buffer (Roche) + Digoxigenin-NTP (Dig-NTP) (Roche) + RNasin (Stratagene) + Dithiothreitol (DTT) (Promega) + DNA template + appropriate polymerase at 37°C. After 2 hours, 2 µl of the reaction was run on a 1.5% agarose gel (90V for 45 mins) to check for the RNA synthesis product. .Upon RNA product confirmation, RNA was treated with 2 µl DNase I (Qiagen) at 37°C for 15 minutes to remove residual DNA template. RNA was precipitated at -20°C for 30 minutes in 4 M Lithium Chloride (LiCl; 10 µl) and 100% Ethanol (300 µl). Precipitate was spun down at 16,000 g for 15 minutes at 4°C and washed once in 100% Ethanol (500 µl). RNA pellet, air-dried and thereafter resuspended in 30 µl H₂O, was stored at -80°C till use.

2.11.3 Whole-mount In Situ Hybridisation (WISH)

Mouse embryos previously harvested, fixed and stored in Methanol at E7, E7.5, E8.5 and E9.5 were used for WISH. Embryos were rehydrated using a Methanol + PBT (PBS + 1% Tween-20) series with decreasing concentration of Methanol. After 2 rinses in PBT, embryos were bleached in freshly prepared H₂O₂ in PBT for 1 hour. Embryos were washed 3x in PBT and treated with 10 μg/ml Proteinase K/ PBT: 3 minutes for E7 and E7.5, 4 minutes for E8.5 and 5 minutes for E9.5. Embryos were washed in 2 mg/ml Glycine/ PBT for 5 minutes followed by 2 washes in PBT. At this point embryos were sorted such that there were at least 2 embryos of each stage per in-situ probe. After proteinase K treatment, 4% PFA + 0.2% glutaraldehyde (Sigma) was used to re-fix the embryos for 20 minutes at room temperature. After 2 washes in PBT, the embryos were rinsed in pre-warmed Hybridisation solution (Hyb). Embryos were incubated in Hyb for 2 hours at 70°C. 50 - 100 ng of the earlier synthesized RNA in-situ probe was added to the embryos in fresh Hyb and incubated overnight at

70°C with gentle rotating. The next day, embryos were first washed in pre-warmed Hyb for 5 minutes at 70°C, followed by washes in Formamide wash buffers: Solutions I and II at 70°C and 65°C respectively. Embryos were washed 3x in MAB buffer + 1% Levamisole before blocking for 90 minutes at room temperature in embryo blocking solution. Embryo blocking solution was MAB + 2% Boehringer Mannheim Blocking Reagent (BBR) + 10% Heat Inactivated Sheep Serum (HIS) + 1% Levamisole. This was followed by treatment with the pre-absorbed anti-Dig antibody overnight at 4°C with gentle shaking. Pre-absorption was done in antibody block solution using acetone powder prepared from grounded E12.5 embryos to block nonspecific hybridisations. Briefly, MAB + 2% BBR + 1% Levamisole + 1 mg mouse embryo acetone powder (per probe) were mixed and heated at 70°C for 30 minutes. After cooling on ice and vortexing for 5 minutes, 10 µl HIS and 1 µl anti-Dig antibody (per probe) were added and samples kept at 4°C for 1 hour with gentle shaking. Acetone powder residue was spun down at 13,000 rpm for 10 minutes and the supernatant was diluted in embryo block for use. The next day, embryos were washed extensively in MAB + 1% Levamisole followed by 3 washes in Alkaline Phosphatase (NTMT) buffer. BM Purple staining solution (Roche) was added to the embryos and incubated in the dark at room temperature till colour develops. Colour reaction was stopped using 2 mM EDTA in PBT and stained embryos were stored at 4°C indefinitely. Images were obtained on the Olympus MVX10 inverted Microscope. Buffer compositions are given in **Appendix I**.



INTRODUCTION

As described in Chapter 1, the rejection of hESC-derived cell transplant material is a significant concern in regenerative medicine as their immunological profile will be recognized as foreign (Draper and Andrews 2002; Drukker et al. 2002). Suggested strategies to reduce the immunogenicity of such cells include (1) transplanting into immune-privileged sites in the body, (2) exploiting the immune-privileged status of hESCs imparted by the low expression of MHC class I molecules on their cell surface and (3) inducing transplantation tolerance using hESC-derived haematopoietic cells (Drukker et al. 2006; Drukker and Benvenisty 2004; Li et al. 2004). Theoretically, haematopoietic cells derived from the same exact source as the therapeutic graft, specifically a given hESC line, could tolerise the recipient towards the incoming transplant material irrespective of its cellular nature (Kaufman and Thomson 2002). Existing reports of haematopoietic differentiation from hESCs at the time I initiated my dissertation research used either stromal cell co-culture or cytokine treatment to induce formation of these mesodermal derivatives (Kaufman et al. 2001, Chadwick et al. 2003). Kaufman et al. co-cultured hESCs with a human stromal cell line S17 to generate CD34 expressing haematopoietic progenitors. These cells had the capacity to form more differentiated cell types like erythroid, myeloid and megakaryocytic lineages as evidenced by marker expression. In contrast, Chadwick et al. used a selection of cytokines and Bone Morphogenetic Protein 4 (Bmp4) to derive haematopoietic progenitors expressing the pan-haematopoietic marker CD45 from hESCs. These studies provided the experimental framework for my investigation in this chapter into the ability of hESC lines, hES2 and hES3, to undergo haematopoietic differentiation. The need for embarking on this series of experiments is further elaborated in Chapter 4, which chronicles my experimental contribution toward our laboratory's overarching goal of generating insulin-secreting beta cells from hESCs. This clinical goal prompted concurrent work on haematopoietic differentiation of hESCs which could provide a transplantation tool to allow successful engraftment of therapeutic grafts (**Figure 1.3**). In this chapter I will describe the preliminary results obtained for differentiation of hESC lines, hES2 and hES3, into cells of the haematopoietic lineage using the following two experimental strategies:

- Co-culture of hESCs with stromal cell lines OP9, HS-5 and HS-27A (Fig
 3.1B).
- Exposure of hESC-EBs to cytokines SCF, G-CSF, IL-3, IL-6 and Flt3L (Fig
 3.1C).

A

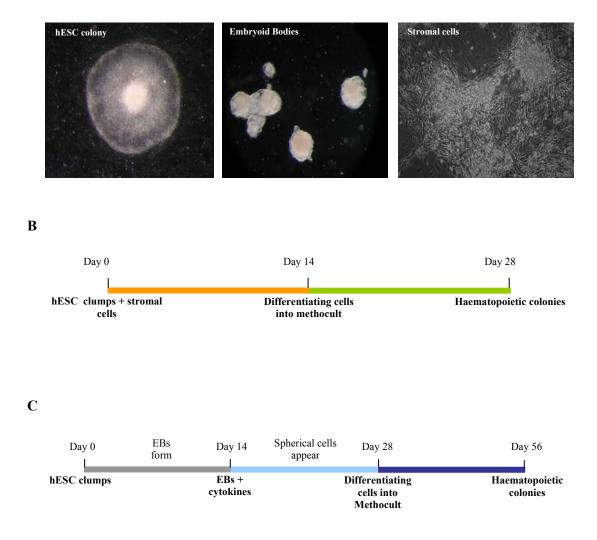


Figure 3.1. Summary of various protocols tested. (A) Representative images of a hESC colony (hES3), day 14 EBs and stromal cell lines (OP9). **(B)** Schematic of differentiation strategy using stromal cell lines OP9, HS-5 and HS-27A. hESC clumps seeded onto stromal monolayers were differentiated for 14 days and plated in Methocult for CFU assay (Nakano 1994, Kaufman 2001). **(C)** Schematic of haematopoietic differentiation in presence of cytokines. Day 14 hESC-EBs were seeded in tissue culture plates with SCF, GM-CSF, TPO, Flt3L, IL-3 and IL-4 and cultured for 2 weeks before plating into Methocult for CFU assay (Zhan *et al.* 2004).

RESULTS

3.1. hESC-derived embryoid bodies (EBs) give rise to haematopoietic-like cells when co-cultured with stromal cell lines

Stromal cells of bone marrow or yolk sac origin are known to support the growth and maintenance of haematopoietic progenitors in culture (Lu et al. 1996; Wineman et al. 1993). In a prior study, the mouse bone marrow-derived cell line S17 was used successfully to generate mixed populations of haematopoietic cells in vitro from hESCs (Kaufman et al. 2001). In contrast, I investigated the ability of OP9, a murine macrophage colony stimulating factor (M-CSF)-deficient cell line to promote haematopoietic differentiation from hESCs. OP9 has been shown extensively to support the maintenance of haematopoietic progenitors differentiated from mESCs in vitro (Nakano et al. 1994; Kyba et al. 2002; Kitajima et al. 2003). In addition, I cocultured hESCs with immortalised human bone marrow stromal cell lines HS-5 and HS-27A, which are known to maintain bone marrow-derived haematopoietic progenitors in culture (Roecklein and Torok-Storb 1995). HS-5 secretes large amounts of cytokines; conditioned medium from this line supports the ex vivo expansion of both immature and mature haematopoietic progenitors. HS-27A does not secrete cytokines but has been shown to support formation of typically haematopoietic "cobblestone areas" from progenitor cells of human bone marrow origin (Torok-Storb et al. 1999). hESC lines and stromal cell lines were maintained as described in Chapter 2.1. Briefly, hES2 and hES3 maintained on MEFs were dissociated and hESC clumps were seeded on stromal cells OP9, HS-5 and HS-27A (Chapter 2.2.1). Previous reports suggested that haematopoietic differentiation of mESCs and hESCs is initiated around day 5 and continues for more than 2 weeks

(Kaufman *et al.* 2001; Kitajima *et al.* 2003). Anticipating a similar timeframe, I monitored the morphological changes during differentiation over a period of 2 weeks. However, none of the typical colony or haematopoietic cell morphologies were detectable in culture over this period (Kitajima *et al.* 2003). Given the possibility that the cell lines used in this study might not yield identical results to those described in the prior reports, the differentiation was prolonged for another week. Though no haematopoietic-like morphological changes were obvious at the end of 3 weeks, the differentiation was continued and cells were seeded in Methocult for the CFU assay (Chapter 2.3). Plates were monitored for the appearance of colony forming units over the next 28 days. Disappointingly, no haematopoietic colonies were observed in this first of four independent experiments. Subsequent attempts at this protocol— hESC co-culture with stromal cells— did not yield any haematopoietic-like cells or colonies in Methocult (data not shown).

Therefore, I employed an alternative approach using the EB system which has been shown to generate progenitors of all three germ layers by spontaneous differentiation (Schuldiner *et al.* 2000; Keller 1995). Our lab previously reported that the architecture of a human EB bears some resemblance to the pre-gastrulation mammalian embryo; it forms an outer layer of visceral (extraembryonic) endoderm (VE) and expresses known markers of the VE (Rust *et al.* 2006). I hypothesized that the appropriate combinations of cell culture conditions and cytokines could act on spontaneously differentiating EBs and guide the differentiation to form predominantly mesoderm. hESC clumps in growth medium were seeded into Ultra low attachment plates for EB formation over the next 14 days. This particular time frame was chosen based on existing reports of haematopoietic differentiation. After 14 days of spontaneous differentiation, EBs were plated on stromal cell monolayers. Co-culture

was carried out over the next 14 days during which the EBs readily attached and grew out. Following co-culture, cells were seeded in Methocult for the CFU assay. Unlike what was seen during the co-culture of hESCs on stromal cells, haematopoietic-like colonies of the CFU-GM (colony forming unit-granulocyte macrophage) type were visible by day 14 in plates seeded with cells from hES3-EBs co-cultured on OP9 (Fig 3.2A). CFU-GM colonies were large and relatively homogenous, though some colonies had more cells concentrated in the centre. Pooled cells from these colonies were cytospun on to slides for Giemsa and May-Grünwald staining. Neutrophils were clearly distinguishable by their segmented nuclei (Fig 3.2B).

In addition, immunostaining of cells from the Methocult colonies was performed for CD45 (pan-haematopoietic), CD14 (monocytic), CD86 (antigen presenting cells) and CD83 (mature DCs) antigens. The DC-specific marker was chosen since many cells showed dendrite-like protrusions. Cells were stimulated with LPS and TNF-α prior to staining. Flow cytometry revealed significantly high numbers of haematopoietic cells (**Fig 3.2C**). Staining was detected in the gated population (excludes dead cells) of which 66% were CD45⁺ haematopoietic cells. CD14⁺ monocytes and CD86⁺ macrophages or antigen presenting cells were also abundant. CD83 expression was low indicating the absence of mature dendritic cells. The marker profile shows that stromal co-culture induced haematopoietic differentiation in cells derived from hESC-EBs but not in differentiating hESCs.

The presence of haematopoietic colonies in the CFU assay and the marker expression profile of these colonies indicate that haematopoietic differentiation has occurred from the hESC-EBs. These differentiated cells, which form colonies in semisolid media and express CD45, represent committed progenitors with limited development and differentiation potential.

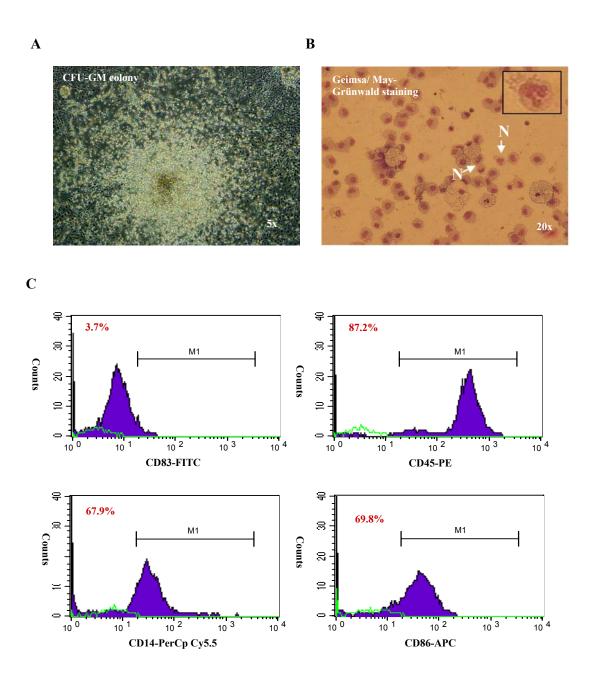


Figure 3.2. hESC-EBs co-cultured with OP9 stromal cells give rise to haematopoietic colony forming units. Day 14 hESC-EBs were co-cultured on OP9 stromal layers for 14 days. On day 14, EBs were plated in Methocult for CFU assay and incubated for 28 days. (A) Phase contrast image of a CFU-GM (Colony Forming Unit-Granulocyte Macrophage) formed in Methocult (5x magnification). These colonies were tightly packed. (B) Giemsa and May-Grünwald staining of cells pooled from various colonies formed in Methocult (20x magnification). Neutrophils were the most common cell type observed (white arrows labelled N). Inset shows magnified image of a neutrophil. (C) FACS analysis of pooled cells immunostained for CD45, CD14, CD83 and CD86. The green line represents isotype control while the purple filled area indicates stained cells. Expression of each marker within the marker region (M1) is indicated as percentage of the gated live population. Expression of the panleukocyte marker CD45 and the monocytic marker CD14 was high. This is not surprising since colonies in Methocult were mainly of granulocytic origin. CD86 (marker of antigen presenting cells) was extremely high suggesting that some of the cells were terminally differentiated and formed a macrophage or antigen presenting cell population.

Stromal Cell Line	Source	Salient Feature/s	Summary of Results
HS-5 (Roecklein 1995, Blood)	Human	•E6/E7 Papilloma Virustransformed cells •Secretes haematopoietic cytokines	NO haematopoietic differentiation using hESCs or hESC-EBs
HS-27A (Torok-Storb 1999, Ann N Y Acad Sci.)	Human	•E6/E7 Papilloma Virustransformed cells •Supports formation of haematopoietic "cobblestone areas"	NO haematopoietic differentiation using hESCs or hESC-EBs
OP9 (Nakano 1994, Science)	Mouse	•Macrophage Colony Stimulating Factor (M-CSF) deficient cell line •Known to support haematopoietic differentiation of mESCs	Spontaneous and sporadic myeloid differentiation from hESC-EBs only.

Table 3.1. Various stromal feeders used, their features and outcome of differentiation.

It is possible that this strategy does not support the formation of more versatile multipotent progenitors with a wider differentiation capability due to culture conditions including the choice of cytokines. Most of the differentiated haematopoietic cells were monocytic (CD14⁺) with a significant percentage becoming antigen presenting cells or macrophages (CD86⁺), though few were mature dendritic-like cells (CD83). Therefore the differentiation seems to be biased towards the formation of leukocytes (CD45⁺), most of which are monocytic and immature antigen-presenting cells. The human stromal cell lines HS-5 and HS-27A did not support haematopoietic differentiation of hES2 and hES3 in any of the conditions described above. The results are summarized in **Table 3.1**.

3.2. hESCs form haematopoietic-like cells when differentiated in presence of prohaematopoietic- cytokines

The use of haematopoietic cytokines to promote haematopoietic differentiation from hESCs has been clearly demonstrated in the literature. In one of the earliest successful studies, Chadwick *et al.* used cytokines SCF, G-CSF, Flt3L, IL-3, and IL-6 in the presence of Bmp4 to generate self-renewing CD45⁺ CD34⁺ haematopoietic progenitor cells *in vitro* (Chadwick *et al.* 2003). A slightly different combination of haematopoietic cytokines was used by Zhan *et al.* to produce functional antigen presenting cells and leucocytes from hESCs (Zhan *et al.* 2004). As mentioned earlier, antigen-presenting cells (APCs; DC-like cells) may be preferable over a mixed pool of haematopoietic cells for transplantation studies. This prompted me to adapt this strategy for the *in vitro* differentiation of hES2 and hES3 into cells of the haematopoietic lineage. The cytokines used in this study and their known functions are summarized in **Table 3.2**.

EBs were generated from hES2 and hES3 cells in Ultra low attachment plates as described in Chapter 2.2.2. After 14 days, EBs were plated onto tissue culture plates in Differentiation medium with the addition of SCF, Flt3L, TPO, IL-4, GM-CSF and IL-3. Most EBs attached in two days and generated cellular outgrowths (day 6) in culture. After two weeks of culture two wells of cells were used for CFU assay while the rest were left to differentiate further. Extended differentiation generated floating or loosely attached spherical cells (Fig 3.3A) and cells with dendrite-like protrusions (Fig 3.3B) on day 20 of culture. Interestingly, these cells were only observed in hES2 cultures, alluding to differences between hESC lines in their potential to differentiate into haematopoietic cells. The two cell types observed in culture increased in number over the next 4 days. To confirm their haematopoietic identity, cells were immunostained for haematopoietic, monocytic and dendritic markers after stimulation with TNF-α and LPS. Flow cytometric analysis of immunostaining showed 44% CD45⁺ cells in the gated live population (Fig 3.3C). CD14 expression was high indicating the presence of monocytes. Low CD83 staining shows that mature dendritic cells were not formed in culture. The marker expression profile suggests that haematopoietic differentiation in the presence of these particular cytokines generates cells which are very similar to those seen when OP9 was used as stromal support.

As described earlier, 2 wells of cells from the adherent culture (day 14) were seeded in Methocult for the CFU assay (~150,000 cells per plate). Colony forming units appeared in these plates by day 17– mainly CFU-GM (**Fig 3.4A**) and CFU-M (**Fig 3.4B**) types. While CFU-GM colonies were large and tightly packed with small sized cells, CFU-M colonies were smaller and consisted of sparsely arranged cells. Colonies pooled from the CFU assay plates were used for immunostaining and for Giemsa and May Grünwald staining.

Cytokines	Function(s)	
Stem Cell Factor (SCF) or c-kit ligand	Required for self-renewal, growth and differentiation of the more primitive haematopoietic progenitors and for some early lineage progenitors.	
Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)	Growth factor for several lineage progenitors and differentiation factor acting on granulocytes, macrophages and dendritic cells.	
Thrombopoietin (TPO)	Regulates the production of platelets by bone marrow by stimulating the production and differentiation of megakaryocytes.	
Flt3 Ligand (Flt3L)	Ligand for the FLT3 tyrosine kinase receptor. Belongs to a small group of growth factors that regulate proliferation of early haematopoietic cells.	
Interleukin- 3 (IL-3)	Multipotent haematopoietic growth factor; induces proliferation, maturation and probably self-renewal of pluripotent haematopoietic stem cells and cells of myeloid, erythroid and megakaryocytic lineages.	
Interleukin- 4 (IL-4)	Stimulates activated B-cell and T-cell proliferation. Induces the differentiation of naive helper T cells (Th0 cells) to Th2 cells.	

Table 3.2. Cytokines used in haematopoietic differentiation of hESC-derived EBs and their known functions.

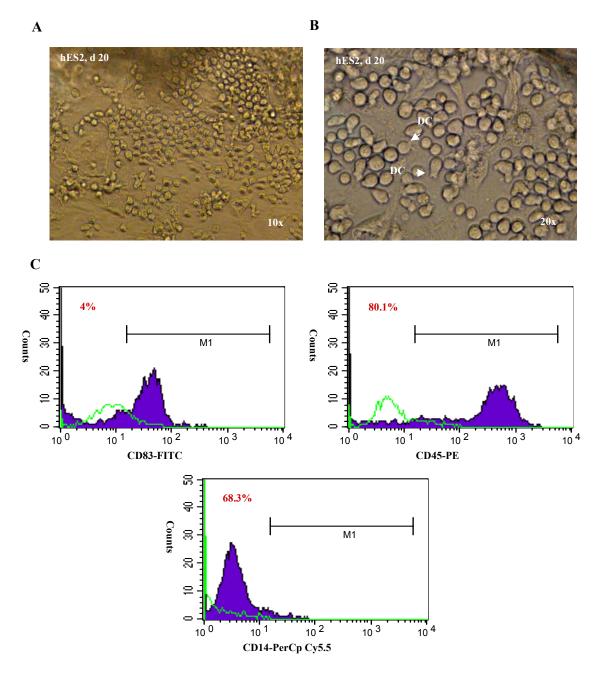


Figure 3.3. hESC-EBs treated with cytokines give rise to haematopoietic-like cells in culture. Day 14 hESC-EBs were differentiated for 14 days in presence of haematopoietic cytokines. (A, B) Distinct areas with spherical haematopoietic-like cells and cells with dendrite-like projections (white arrows labelled DC in B) were observed in culture (10x and 20x magnification respectively). (C) FACS analysis of these cells immunostained for CD45, CD14 and CD83. Cells were stimulated with LPS and TNF-α for 90 minutes prior to staining to induce maturation of DCs. The green line represents isotype control while the purple filled area indicates stained cells. Expression of each marker within the marker region (M1) is indicated as percentage of the gated live population. High expression of CD45 and CD14 shows that granulocytic differentiation has occurred in the cultures. CD83 staining was not significant enough to conclude the presence of mature DCs. CD86 was not used due to lack of cells.

Differential staining showed the presence of neutrophils, eosinophils, basophils and monocytes (**Fig 3.4C**). Flow cytometric analysis of immunostaining with antibodies to CD45, CD14, CD83 and CD86 revealed an expression profile similar to that of cells in adherent culture. Ninety-six percent of the gated live cell population was found to be CD45⁺. Presence of CD14^{high} cells indicates significant monocytic differentiation (**Fig 3.4D**).

Using cytokines to differentiate hESCs gave rise mainly to CD45⁺ leukocytes, which included a high number of CD14⁺ monocytic cells. Expression of costimulatory molecules CD86 and CD83 (specific to dendritic cells) was low indicating that differentiation did not progress beyond a certain progenitor stage. In contrast to the OP9-based differentiation, CD86 expression was very low indicating that antigen presenting cells or macrophages were more efficiently formed in the stromal coculture. Though Zhan *et al.* (2004) generated very high numbers of haematopoietic cells using the combination of EB formation and cytokines, hES2 produced relatively low numbers of these cells in a similar protocol. hES3 did not form CFUs or stain for haematopoietic markers. The reasons for this are unclear, but tailoring the protocol to the specific differentiation requirements of hES2 and hES3, for example, optimising the concentration of cytokines, would likely help to address this shortfall.

3.3. hESCs maintained on human feeder cells are amenable to haematopoietic differentiation

Historically hESCs have been grown on feeder cells of murine origin. This particular culture platform can have an impact on the differentiation potential of these hESCs.

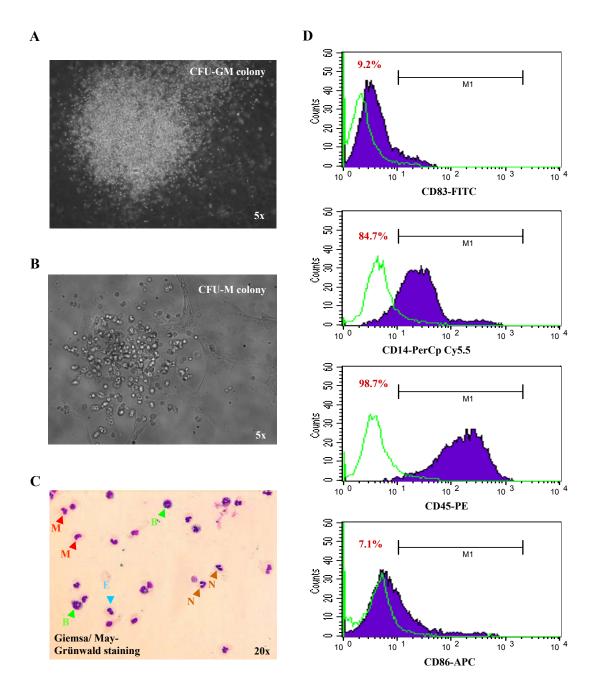


Figure 3.4. hESC-EBs differentiated in presence of cytokines generate haematopoietic colony forming units in Methocult. hESC-EBs differentiating in presence of cytokines (shown in Fig. 6) were plated in Methocult for CFU assay. (A, B) Representative images of CFU-GM (Granulocyte Macrophage) and CFU-M (Monocyte) colonies (5x magnification). (C) Giemsa and May-Grünwald staining of pooled cells from colonies (20x magnification). Neutrophils (brown arrow heads), eosinophils (blue arrowheads), basophils (green arrowheads) and monocytes (red arrowheads) are shown. (D) FACS analysis of pooled cells immunostained for CD45, CD14, CD86 and CD83. The green line represents the isotype control while the purple filled area indicates the stained cells. Expression within the marker region (M1) is indicated as percentage of the gated live population. As seen in the OP9 differentiation, CD45 and CD14 expression was high, though the CD86 expression was extremely low.

Studies in our lab have shown that hESCs tend to form largely stable cultures on human feeder cells (Crook *et al.* 2007) compared to mouse feeders. For example, the rate and frequency of spontaneous differentiation are comparatively lower when human feeders like CCD919 and Ortec143 are used. To analyse the impact of the human feeder culture platform on the haematopoietic potential of the hESCs, EBs derived from hES2 and hES3 cells grown on either CCD919 or Ortec143 were differentiated in presence of cytokines.

3.3.1. hESCs maintained on CCD919 cells

CCD919 is a fibroblast cell line derived from normal human adult mammary epithelial tissue and has been proven to support undifferentiated growth of hESCs (Crook *et al.* 2007). For differentiation, hESC-EBs were formed in ultra low attachment plates. At days 5, 11 and 15, EBs were plated onto tissue culture plates in Differentiation medium containing SCF, Flt3L, TPO, IL-4, GM-CSF and IL-3. Most EBs attached in 2 days and generated outgrowths (day 6) in culture. After 2 weeks of culture 2 wells of cells were seeded in Methocult for CFU assay (50,000 cells/ plate). Only cells from EBs treated with cytokines on days 5 and 11 of differentiation gave rise to haematopoietic colonies in Methocult. Colonies were CFU-GM (Fig 3.5A) and CFU-M (Fig 3.5B) types, similar to those obtained using MEF-based hESCs for differentiation. Giemsa and May Grünwald staining showed presence of neutrophils, eosinopihls and monocytes (Fig 3.5C). Unlike MEF-grown hESCs which gave rise to CFUs only from day 14 EBs, human feeder-grown hESCs generated CFUs even from 5-day old EBs. However, the frequency of colony formation— 0.008% for CFU-GM and 0.005% for CFU-M- was quite low.

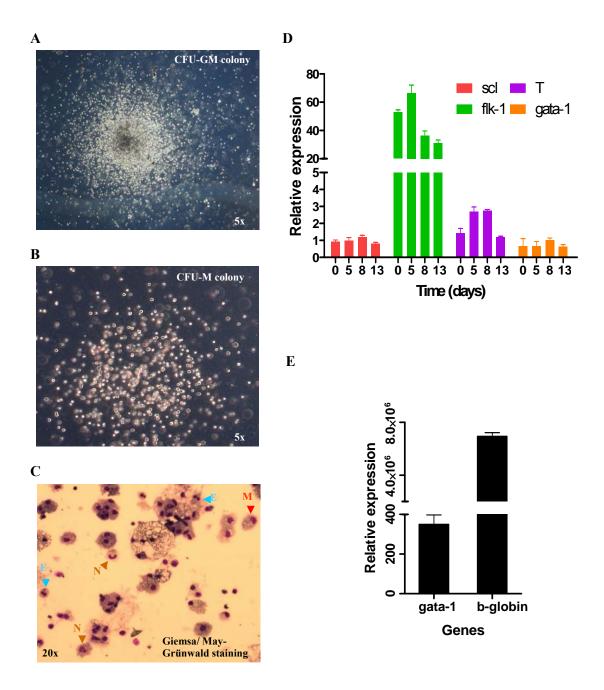


Figure 3.5. hESC grown on CCD919 human feeders differentiate in presence of cytokines to generate haematopoietic colonies. (A, B) Representative images of CFU-GM (Granulocyte Macrophage) and CFU-M (Monocyte) colonies (5x magnification). (C) Giemsa and May-Grünwald staining of pooled cells from colonies (20x magnification). Neutrophils (brown arrow heads), eosinophils (blue arrowheads) and monocytes (red arrowheads) are shown. (D) Gene expression during differentiation. Only *Brachyury* (T) showed an increase which could be due to spontaneous differentiation since its activation preceded addition of cytokines. *FLK-1*, was expressed in undifferentiated cells and persisted through out the differentiation. β-GLOBIN was not expressed. Exposure to cytokines does not seem to have a significant effect on expression of these genes. (E) Human adult bone marrow RNA was used as positive control for gene expression; only GATA-1 and β-GLOBIN were detected in the BM-RNA sample (high Y-axis values necessitated a separate graph).

Though inefficient, the data suggests that hESCs grown on CCD919 show slightly better haematopoietic differentiation than hESCs maintained on MEFs. This could be due to a variety of reasons including (1) a more homogeneous culture platform provided by the human feeders, which ensures that a higher percentage of cells are pluripotent at the onset and are poised to differentiate, (2) differences in medium formulation, (3) expression of cell surface receptors specific to the cytokines used and (4) expression of developmentally relevant genes in the differentiating cells.

A more thorough characterization of the differentiation especially with regards to gene expression will not only help to precisely establish the differentiation status but also to identify areas that could be targeted to improve efficiency. It is also of interest to study whether the in vitro differentiation regime, especially in the early commitment stages, follows patterns that are established in embryonic development. To this end expression of haematopoietic genes including SCL, FLK1 and GATA-1 was determined in the differentiating cells. hES3 which showed better CFU formation than hES2 was differentiated as described and hES3-EBs were treated with cytokines from day 5 of differentiation. Samples were collected at various time points during EB differentiation and adherent culture. Trizol was used to generate RNA from the samples and quantitative RT-PCR was performed as described. Expression of the haematopoietic transcription factors SCL (Elefanty et al. 1997, Robb et al. 1996) and GATA-1 (Suwabe et al. 1998; Fujiwara et al. 1996), mesodermal/ hemangioblast markers FLK1 and T/BRACHYURY (TBRA) (Kennedy et al. 2007; Huber et al. 2004), and β -GLOBIN (Lanyon et al. 1975) was compared to control commercially available bone marrow total RNA (Clontech). Curiously, FLK1 expression was high in undifferentiated hESCs and did not vary much over the entire duration of differentiation (Fig 3.5D). However, this is not surprising as there are studies which

have clearly demonstrated that FLK1 is expressed in undifferentiated hESCs (Zambidis et al. 2005; Wang et al. 2004). This is in contrast to undifferentiated mESCs that do not express FLK1 until the cells progressively differentiate into the mesodermal/ hemangioblast population (Chung et al. 2002; Choi et al. 1998). TBRA levels which increased by day 5, remained steady through day 8 and then dropped precipitously. SCL, GATA-1 and β -GLOBIN were not significantly upregulated at any point in the differentiation. Human adult bone marrow RNA used as control, showed the predicted expression of GATA-1 and β -GLOBIN but not of any of the other genes (Fig 3.5E). Since TBRA levels increased before the addition of cytokines, this can be attributed to gastrulation-like events triggered within the spontaneously differentiating EBs. However, the differentiation seems not to have progressed beyond this point as the addition of cytokines did not have any significant effect on expression of the other genes. Perhaps it is not surprising then that an aliquot of these differentiating cells seeded in Methocult did not generate any colonies. Therefore, if the relevant genes are not activated at the right stages, differentiation does not progress beyond a certain developmental point. The above data suggest that CFUs seen in earlier experiments might have been the result of a spontaneous differentiation event.

3.3.2. hESCs maintained on Ortec143 cells

Though CCD919 cells promote haematopoietic differentiation from hESCs, the low efficiency and poor reproducibility prompted further trials using alternative culture platforms. Ortec143 is a human feeder cell line derived under clinically compliant conditions from neo-natal foreskin tissue (Ortec International). These cells support undifferentiated culture of hESCs over numerous passages with an extremely low frequency of spontaneous differentiation (Crook *et al.* 2007). To assess the

haematopoietic potential hESCs grown on Ortec cells, hES2 and hES3 were differentiated in the presence of cytokines.

Briefly, hESC-EBs were formed in Ultra low attachment plates. On day 14, EBs were plated onto tissue culture plates in Differentiation medium containing SCF, Flt3L, TPO, IL-4, GM-CSF and IL-3. After 2 weeks of culture an aliquot of the differentiating population was seeded in Methocult for CFU assay while some were left to differentiate further. On day 29 of differentiation, both hES2 and hES3 showed presence of numerous spherical cells restricted to certain areas in the plates (Fig 3.6A). To confirm the haematopoietic nature of these cells, plate-based immunostaining was done for CD34 (haematopoietic progenitors) and CD45 (panhaematopoietic) markers. Almost all the spherical cells were positive for CD45 (Fig **3.6B**) and negative for CD34. This suggests that these cells are more mature progenitors expressing only CD45 and not early precursor cells which are CD34⁺ CD45⁻. A merged image of cells stained for CD45 (red) and DAPI (blue) to mark the nuclei is shown (Fig 3.6C). An aliquot of the differentiating culture was also immunostained for CD45, CD14, CD83 and CD86 and analysed by flow cytometry. Only CD45 was expressed at very low levels– 17% of the gated live population (Fig. **3.6D**). All other markers were negative. This suggests that differentiation was inefficient and did not progress beyond the CD45⁺ progenitor stage.

As mentioned earlier, two wells of differentiating cells were seeded in Methocult for the CFU assay. These cells generated haematopoietic colonies mainly of CFU-GM (**Fig 3.7A**) and CFU-M (**Fig 3.7B**) types. The frequency of colony formation was 0.02% for CFU-GM and 0.05% for CFU-M respectively. Giemsa and May Grünwald staining of cells from the colonies showed presence of neutrophils, eosinophils and monocytes (**Fig 3.7C**).

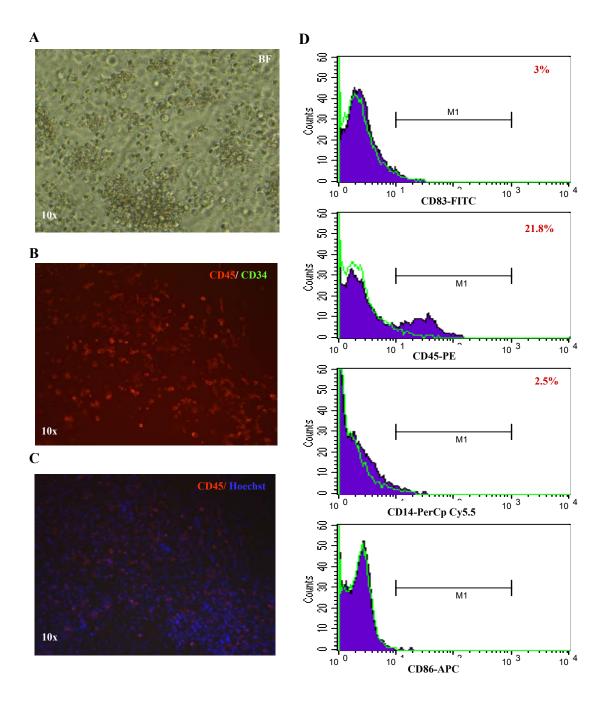
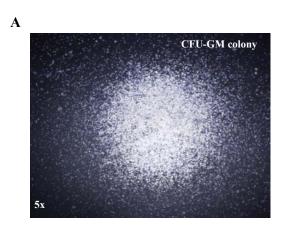


Figure 3.6. hESCs cells grown on Ortec143 differentiated in presence of cytokines to give rise to haematopoietic-like cells. (A) Distinct areas with spherical haematopoietic-like observed in culture (10x magnification). (B, C) Cells shown in (A) stained with CD45-PE, CD34-FITC and Hoechst (10x magnification). (B) Cells stained positive for CD45 while no CD34 was detected. (C) Hoechst was used to mark the nuclei of stained cells. (D) FACS analysis of pooled cells immunostained for CD45, CD14, CD86 and CD83. The green line represents isotype control while the purple filled area indicates stained cells. Expression within the marker region (M1) is indicated as percentage of the gated live population. Only CD45 was detected and at extremely low levels even though the culture had high numbers of spherical cells which were expected to be positive for CD45.

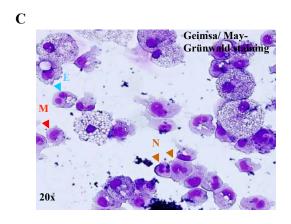
hES3-derived cells showed more efficient differentiation and formed 4 times more colonies than hES2 cells. hESCs grown on Ortec cells generated 40 times more CFU-GM and 10 times more CFU-M colonies than the CCD919-based cultures. These results suggest that Ortec cells provide a culture platform more supportive of efficient haematopoietic differentiation than even the CCD919 human feeders.

For a detailed characterisation of haematopoietic differentiation obtained using hESCs maintained on Ortec cells, gene expression analysis was performed. EBs/ cells harvested every 4 days during differentiation were processed using the RNAeasy kit according to the manufacturer's recommendations. Quantitative RT-PCR was performed to detect expression of assorted marker genes (Fig 3.7D). As seen in the case of hESCs maintained on CCD919 cells, FLK1 was expressed even in the undifferentiated cells and showed a very slight increase on exposure to cytokines (day 18). TBRA was low through out the EB differentiation phase and was upregulated transiently upon cytokine treatment. MIXL1, an early marker of the developing mesoderm (Willey et al. 2006; Hart et al. 2002) and PU.1 a haematopoietic transcription factor (Fisher and Scott 1998) did not show any variation in expression compared to undifferentiated control. GATA-2 is a mesodermal marker known to be expressed in haematopoietic progenitors (Tsai et al. 1994) and is expressed at high levels through out the differentiation. HOXB4, a critical haematopoiesis-specific transcription factor (Kyba et al. 2002; Antonchuk et al. 2001) responded specifically to the addition of cytokines and showed increased levels of expression. However, the expression of GATA-2 and HOXB4 in the untreated control (-GF) was also high suggesting that this might not be a specific response to the cytokines. GATA-1, SCL and LMO2 were not expressed at any stage tested.

Though *TBRA* was upregulated upon cytokine treatment, the very slight increase in *FLK1* expression might not be significant enough to infer the presence of a hemangioblast-like (common progenitor for haematopoietic and endothelial cells) population. The high levels of *GATA-2* and *HOXB4* in the untreated control indicates that expression of these genes is not triggered exclusively by the cytokines. Due to these reasons, the gene expression analysis was not conclusive enough to show if differentiation is a specific response to the addition of cytokines. As seen in the case of CCD919-based hESCs, differentiation does not seem to activate developmentally relevant genes. This roadblock in differentiation is also evident from the immunostaining seen in **Figure 3.6D** which shows extremely low levels of only CD45⁺ expression. It would seem that the CFUs generated in Methocult (**Fig 3.7A** and **3.7B**) were merely the result of spontaneous differentiation.







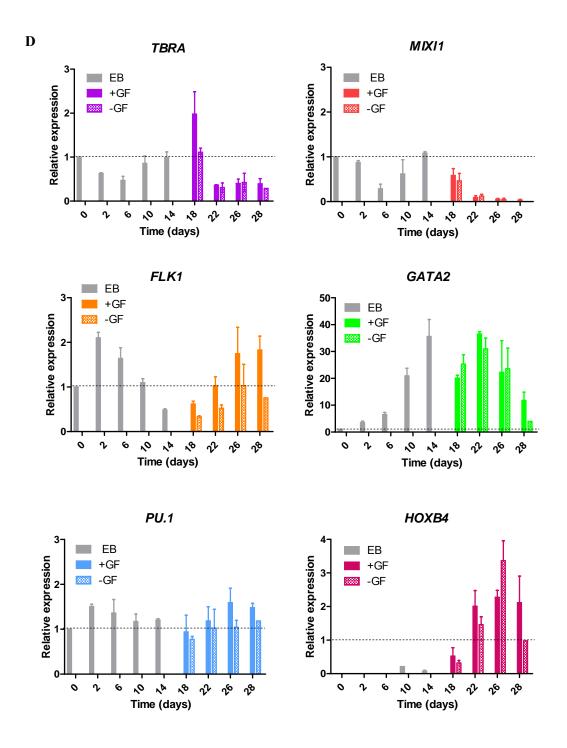


Figure 3.7. hESCs grown on Ortec feeders differentiate in presence of cytokines to generate haematopoietic colonies. (A, B) Representative images of CFU-GM (Granulocyte Macrophage) and CFU-M (Monocyte) colonies formed in Methocult. **(C)** Giemsa and May-Grünwald staining of pooled cells from colonies. Neutrophils (brown arrow heads), eosinophils (blue arrowheads) and monocytes (red arrowheads) are shown. **(D)** Increased expression of marker genes *TBRA*, *FLK1* and *HOXB4* in response to cytokine treatment (day 18 onwards) shows the induction of a low degree of mesodermal differentiation in this system. Surprisingly, *PU.1* is not significantly upregulated even though granulocytic differentiation is known to be characterised by the expression of this gene. Grey bars indicate differentiation during the EB formation phase in absence of cytokines. Dotted line represents day 0 normalisation.

CONCLUSION and DISCUSSION

Several factors including the derivation, feeders used, epigenetic status, etc., can influence the amenability of hESCs to differentiate (Pekkanen-Mattila *et al.* 2009; Aiba *et al.* 2008; Catalina *et al.* 2008; Chang *et al.* 2008; Adewumi *et al.* 2007). As part of my preliminary studies to test the multipotential differentiation capability of hESC lines, hES2 and hES3, I used strategies that were known to induce haematopoietic differentiation.

Using bone marrow-derived cell lines as supportive stroma, hESC-EBs could be differentiated to generate haematopoietic-like cells. However, hESCs did not show a similar capacity, suggesting that differentiation needed to be 'kick started' as a spontaneous event within EBs. The source and support capability of the stroma were also important factors as only OP9, a murine cell line, supported haematopoietic differentiation from hESCs while human stromal cell lines HS-5 and HS-27A did not. Reproducibility of differentiation using co-culture was quite low indicating that it may be a spontaneous event or that the outcome may be easily affected by slight changes in culture conditions. Efficient differentiation may also be hESC line dependent as hES2 subjected to identical conditions did not yield similar results as hES3. The use of OP9 for haematopoietic differentiation from hESC lines H1 and H9 was reported by Vodyanik et al. (2005) around the same time as my work was underway. In contrast to results obtained with hES3, these authors reported generation of haematopoietic cells from hESCs in a monolayer differentiation and not from hESC-EBs. They reported low CD45 (3.4%) and high CD34 (19.3%) expression and a wider range of colonies in the CFU assay. This suggests that the haematopoietic cells they obtained in culture are more naïve and have a wider developmental capacity in contrast to the more differentiated CD45⁺ population I obtained. These differences

could be attributed to several factors including hESC line variation, quality of OP9 monolayers and sampling points within experiments.

Differentiation in presence of human recombinant cytokines was another favoured strategy as this approach eliminates the foreign (murine) stromal cells in culture. A cocktail of haematopoiesis-promoting cytokines acted on hESC-derived EBs to give cells mainly of the granulocytic lineage. No erythroid differentiation was detected at any time. The bias towards granulocytes was expected since the cytokines used are known to promote differentiation of this particular lineage (Zhan *et al.* 2004). An interesting observation was that hES3 did not seem to differentiate as well as hES2 in the presence of cytokines. This is in contrast to the OP9-based differentiation where only hES3 gave rise to differentiated haematopoietic-like cells. Though these two cell lines were derived under identical conditions, inherent differences between the two are highlighted by such observations.

With the aim of adapting hESCs to clinically compliant culture regimes, our lab began using human feeder cells to maintain hESCs in the undifferentiated state. Since hESC culture platforms can significantly affect the differentiation capability of these cells, I decided to test if the new culture conditions alter this potential. EBs derived from hESCs grown on CCD919 or Ortec feeders were differentiated in presence of cytokines in a manner similar to hESCs grown on MEFs. In general, expression of haematopoietic cell surface markers was not as dramatic or high in the human feeder based differentiation as it was with the use of MEFs (FACS data). Another difference seems to be the efficiency of differentiation. Though Ortec-based hESCs formed a significantly higher number of colonies in the CFU assay than the CCD919 cultures, the frequency was much lesser than in the MEF-based cultures. Since the protocol used was optimized for hESCs grown on MEFs, slight modifications may be required

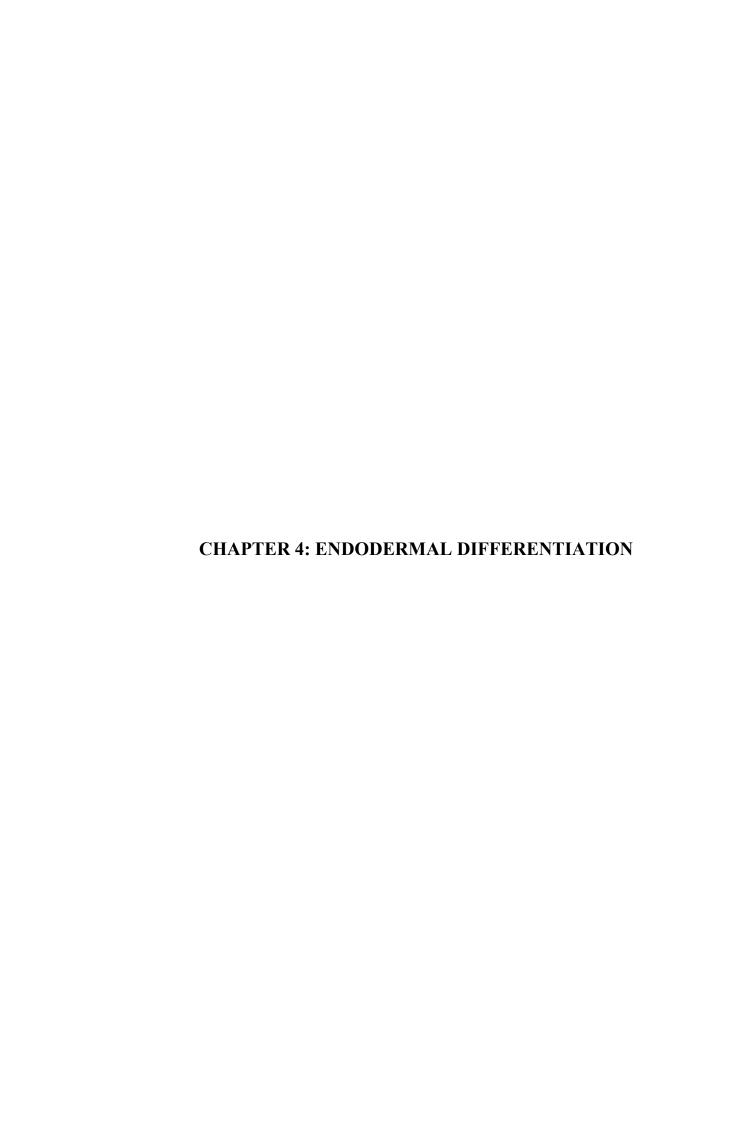
to adapt this protocol to hESCs grown on human feeders. Though the human feeder-based hESC system generated CFUs in Methocult, they did not seem to activate expression of genes known to be important in haematopoietic development. *TBRA* upregulation shows that a gastrulation-like event initiated but this did not advance to give rise to haematopoietic mesoderm in this system. The lack of *GATA-1* expression in the differentiating population supports the observation that no erythroid colonies were formed in the CFU assay, since *GATA-1* is critical for the formation of the erythroid lineage (Suwabe *et al.* 1998). The extremely low percentage of CFUs and lack of corroborative gene expression data suggests that the CFUs formed in Methocult were most likely the result of spontaneous differentiation events. It is also possible that the sampling points chosen for my gene expression analysis might have missed important events in the differentiation. This emphasizes the need for more thorough analysis of the differentiation process by increasing the frequency of sampling.

My experimental observations point towards a certain degree of haematopoietic differentiation albeit spontaneous, occurring in this system. Immunostaining revealed that cells formed were mainly haematopoietic progenitors which did not develop further into more terminally differentiated cell types. Differentiation was mainly towards cells of the myeloid lineage which is not surprising since the cytokines used were pro-granulocytic. Gene expression analysis proved inconclusive as either genes were not expressed or did not show specific response to cytokine treatment. This makes it almost impossible to conclude if *in vitro* differentiation using hES2 and hES3 with the strategies described, mirrors haematopoietic development in the embryo (Kennedy *et al.* 2007). However, these results constitute proof-of-principle that haematopoietic differentiation from hESCs can be obtained with the use of

cytokines on differentiating embryoid bodies. Better tailoring of this differentiation strategy might help resolve the current issues.

Since this work was done numerous innovations have been reported resulting in improved methods for generation of haematopoietic cells from ES cells. One particular gene of interest is HOXB4 which has been reported to be expressed in haematopoietic progenitors and has been shown to enhance the repopulating ability of haematopoietic stem cells (Sauvageau et al. 1995; Sauvageau et al. 1994). In addition, recombinant HOXB4 protein has been used to achieve expansion of human and murine haematopoietic stem cell populations (Amsellem et al. 2003; Krosl et al. 2003). Taking cues from these studies Bowles et al. reported that over-expression of HOXB4 in hESCs led to the expansion of haematopoietic progenitors and their derivative populations (Bowles et al. 2006). Clonogenic progenitors expressing markers like CD34, CD45 and Glycophorin A were generated in this differentiation. Another recent study demonstrated that HOXB4, and not Bmp4, confers self-renewal properties to haematopoietic progenitors derived from ES cells (Bonde et al. 2008). These authors found that the ES-derived haematopoiesis induced by Bmp4 leads only to transient mixed chimerism. However, HOXB4 transduced mESCs generated haematopoietic progenitors with enhanced self-renewal and long-term engraftment capability. This latest study is encouraging as it provides a strategy to generate a source of haematopoietic cells that could induce transplantation tolerance.

Concurrent investigations on endodermal differentiation from hESCs proved to be more successful than the mesodermal differentiation. These experiments yielded differentiated progeny with a much greater efficiency. Therefore, studies of endodermal differentiation constitute the bulk of my dissertation work and are presented in Chapter 4 of this thesis.



INTRODUCTION

In Chapter 3, I described my results on differentiation of hESCs into haematopoietic-like cells which could theoretically be used as a transplantation aid for hESC-derived cell therapy products. In this chapter, I focus on the efficient differentiation of hESCs into definitive endoderm as a first step towards the *in vitro* production of insulin-secreting β cells for the treatment of diabetes. As outlined in Chapter 1, our lab developed an EB-based differentiation strategy that begins with an initial endoderm induction phase and is followed by pancreatic and endocrine cell specification phases (Phillips *et al.* 2007). In this protocol, a known inducer of endoderm, Activin A was used to initiate differentiation towards a definitive endodermal fate. Genes characteristic of definitive endoderm (DE) formation are induced within the first 4 days of differentiation, with activation of the pancreatic homeobox gene *PDXI* about one week later.

During the course of developing our EB-based differentiation regime, we discovered that the combined use of Activin A and Bmp4 led to greater expression of genes characteristic of definitive endoderm. The extent of endoderm induction was found to be concentration-dependent as only a certain range of growth factor concentrations efficiently gave rise to the desired progeny from differentiating hESCs. The enhanced induction of endoderm in the presence of Bmp4 is surprising as this growth factor is known to be involved in a variety of developmental events including bone formation, mesoderm induction and primordial germ cell generation, but is not a well-established endoderm inducer.

Several models can be proposed and tested for the unexpected role of Bmp4 during DE formation *in vitro*. (1) Bmp4 might signal directly to cells that receive the

Activin A patterning signal and potentiate their endodermal differentiation. (2) Bmp4 may facilitate the transduction of locally produced Nodal signals emanating from the hESCs by directly impacting the signaling pathway. (3) Bmp4 may induce the formation of an unrelated cell type that indirectly, for example, influences DE formation and expansion. In this Chapter, I will describe my efforts to characterize DE differentiation in detail and to arrive at a possible mechanism for the collaborative effect of Activin A and Bmp4, using a variety of molecular methods. In depth analysis of the differentiation revealed that Activin A induces formation of DE in Matrigelembedded EBs and this induction is augmented with the addition of Bmp4 to the differentiation. Detailed investigation of the Activin A and Bmp4 signaling pathways and the pleiotropic roles of Bmp4 did not bring to light a clear mechanism for the combinatorial activity of these two growth factors. By studying changes in global gene expression during differentiation, I identified novel genes that were upregulated during the formation of DE. The expression domains of these genes during mouse embryonic development were investigated to establish their relevance to the generation of DE.

RESULTS

4.1. Formation of definitive endoderm within embryoid bodies derived from hESCs

Our lab previously developed an empirical protocol for the differentiation of hESCs into pancreatic progenitor cells. A summary of this Matrigel-based three-dimensional differentiation is given in **Figure 4.1**. Briefly, hESC clumps grown on mouse feeders (MEFs) were embedded in Matrigel-containing medium either with or without Activin A and Bmp4, as described in Chapter 2.2.3 (**Fig 4.1A**). Spherical EBs of various sizes were formed by day 2 of differentiation. As differentiation progressed some of the EBs developed cystic areas, while a few fused to form larger structures. On day 10, the early factors were replaced with the late factors Exendin-4, β-cellulin and HGF. Differentiation was discontinued on day 20, since from previous trials it was known that pancreatic progenitors are formed by this time. *PDX1*, the earliest marker of the pancreas, is detectable by day 12 (**Fig 4.1B**) and decreases thereafter with a simultaneous increase in markers of mature pancreatic progenitors like *INSULIN*, *NGN3* and *PTF1a* (**Fig 4.1B and C**). Therefore, in the presence of Matrigel, an initial stimulus of Activin A and Bmp4 seems to induce formation of a pancreatic progenitor population from hESCs.

As pancreatic tissue is known to arise from DE during development, I examined if markers of DE could be detected in the differentiation cultures by immunostaining. Briefly, EBs embedded in Matrigel with the early factors were plated on fibronectin-coated plates to enable staining against endodermal markers Sox17 and Foxa2 and the pluripotency marker Oct4. Addition of Activin A and Bmp4 triggered downregulation of the pluripotency marker Oct4, while simultaneously upregulating the expression of

endodermal markers Foxa2 and Sox17 (**Fig 4.2**). In the absence of growth factors, Oct4 expression remained high in all EBs. There were a few cells in some untreated EBs that stained for Foxa2 and Sox17, which suggests that a certain degree of spontaneous differentiation occurs in this differentiation system. These results suggest that DE cells form during hESC differentiation in response to growth factor treatment and most likely give rise to PDX1⁺ pancreatic progenitors.

4.1.1. Bmp4 enhances the endoderm-inducing potential of Activin A in Matrigel

Since they have distinct roles in development, Activin A and Bmp4 acting together to specify or enhance the formation of endoderm *in vitro* came as a surprise. In the 3D Matrigel differentiation, the combination of these growth factors reproducibly gives enhanced endoderm differentiation (N=7). This effect was irrespective of the hESC culture platform used, as hESCs grown on MEFs and HFs gave similar results. Since HFs and KOSR-based culture medium provide a stable culture platform for hESCs in our hands, I adopted this method for all experiments described henceforth (Crook *et al.* 2007). To investigate molecularly the Activin A and Bmp4 collaboration in detail, I used the following iterations of the 3D differentiation protocol. In the standard Matrigel embedding conditions, I added either Activin A alone (AA) or Bmp4 alone (Bmp4) or both (+GF) or neither (-GF) and allowed differentiation to proceed through the endoderm phase onto the pancreatic progenitor phase (d20).

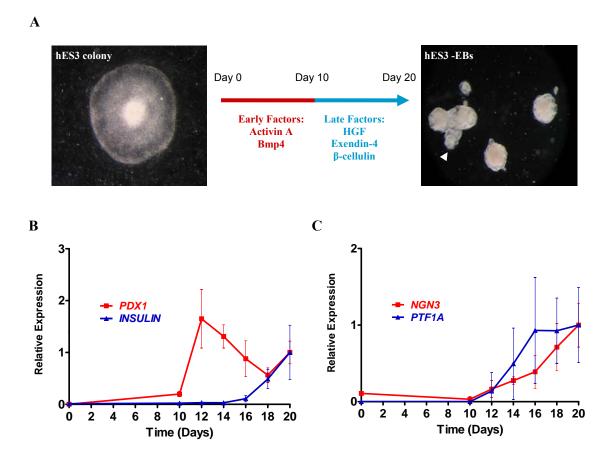


Figure 4.1. Three dimensional differentiation in the presence of Activin A and Bmp4. (A) Schematic representation of differentiation strategy. hESC colonies were enzymatically dissociated to create clumps that formed EBs of various sizes in Matrigel-containing medium. Differentiation was carried out in the presence of the indicated growth factors. As differentiation progressed many EBs formed cystic areas, giving them a bubble-like appearance (white arrowhead). (B) A critical marker of pancreatic differentiation, Pdx1 (red), is activated around day 10 of differentiation. *Insulin* expression (blue) is detected by day 16 and continues to rise with a simultaneous decrease in the levels of Pdx1, which is consistent with the known pattern of Pdx1 expression during pancreatic development (Jensen 2004). (C) Other pancreatic markers like Ngn3 (red) and Ptf1a (blue) are detected following Pdx1 expression. This work was published in Philips $et\ al.\ 2007$.

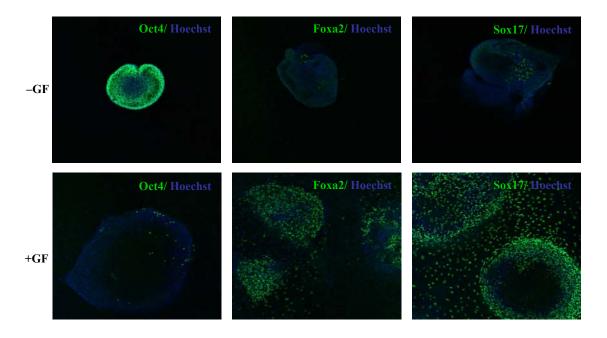


Figure 4.2. Activin A and Bmp4 induce upregulation of endodermal markers and simultaneous downregulation of pluripotency markers. hESCs were differentiated using the 3D Matrigel protocol either with (+GF) or without (-GF) both Activin A and Bmp4. On day 4 of differentiation, EBs were seeded on Fibronectin-coated plates and allowed to attach for 2 days before staining. Oct4, Foxa2 and Sox17 were detected using Alexa 488 conjugated secondary antibodies. The number of Oct4⁺ cells in the -GF condition were significantly greater than EBs exposed to growth factors. Few Foxa2⁺ and Sox17⁺ cells were observed in the -GF EBs but the population increased dramatically in EBs treated with Activin A and Bmp4. The low number of endodermal cells in the -GF condition can be attributed to spontaneous differentiation, which is consistent with the RT-PCR results shown in Figure 1.

Markers of pluripotency, *OCT4* and *NANOG*, were rapidly downregulated in +GF and Bmp4 (**Fig 4.3A and 4B**). However, Activin A when added alone sustained expression of *OCT4* and *NANOG* for a short time. This finding supports the reported role of Activin A in maintaining the pluripotency of hESCs and mEpiSCs (Tesar *et al.* 2007; Vallier *et al.* 2005). In the absence of growth factor stimulation (–GF), expression of these markers was maintained for a few days before being downregulated. This decrease in expression is expected as spontaneous differentiation occurs even when EBs are cultured in differentiation medium rich in KOSR (20%).

Directed differentiation was measured as changes in the expression of TBRA, FOXA2 and SOX17. In general, all three genes were upregulated in presence of Activin A + Bmp4 (+GF) and Activin A; the expression was always higher in the +GF condition (Fig 4.3C-E). The lack of expression of all three genes in -GF suggests that there was little spontaneous differentiation toward DE in this system. As expected from what is known from previous work, Bmp4 alone induced expression of TBRA (Johansson and Wiles 1995). No expression of FOXA2 and SOX17 was detected in the presence of Bmp4 alone. Taken together these observations imply that the growth factors used here specifically and rapidly downregulate pluripotency genes and set the stage for differentiation. The progress of differentiation was measured by PDX1 expression, which was detected by day 10 in the presence +GF and Activin A (Fig 4.3F). The significantly higher PDX1 expression in +GF suggests that the endoderm-inducing synergistic activity of Activin A and Bmp4 might significantly impact the pancreatic differentiation phase of the protocol, most likely by providing a greater initial pool of DE that can undergo pancreatic commitment.

Detailed analysis of the differentiation under the 4 different conditions stated above has revealed that both conditions, Activin A and Activin A + Bmp4 (+GF), specifically induce endoderm differentiation. However, the +GF condition always elicited a higher expression of the marker genes than Activin A alone. This confirms the earlier observation that the presence of Bmp4 enhances the ability of Activin A to promote endodermal differentiation.

4.1.2. Matrigel affects the extent, not the outcome of differentiation

The 3D differentiation protocol uses the growth factor-reduced formulation of Matrigel to induce endoderm differentiation from hESC-EBs. Since Matrigel contains biologically active components, including trace amounts of potent growth factors, it is important to examine the influence of this substrate on differentiation. hESCs were dissociated using collagenase as described and seeded in RPMI/KOSR medium without Matrigel. EBs formed by day 2 and were more varied in size than in Matrigelbased culture. Differentiation was initiated identically to the 3D protocol described earlier. Quantitative RT-PCR analysis was performed on free-floating EBs harvested every other day and compared against those embedded in Matrigel (adapted from Figure 4.3). In free-floating EBs, growth factor addition caused only a slight decrease in OCT4 expression, which was similar to the -GF condition (Fig 4.4A). This is in contrast to the Matrigel-based differentiation where addition of growth factors triggers a rapid drop in OCT4 levels, while expression is maintained in the -GF condition (Fig. **4.4E**). In the free-floating EBs, expression of TBRA, FOXA2 and SOX17 was induced in the +GF condition, though the levels of expression were roughly 10 times lower than in the Matrigel-based platform (Fig 4.4B-D and F-H). As expected, Bmp4 when used alone induced expression of TBRA but not FOXA2 and SOX17.

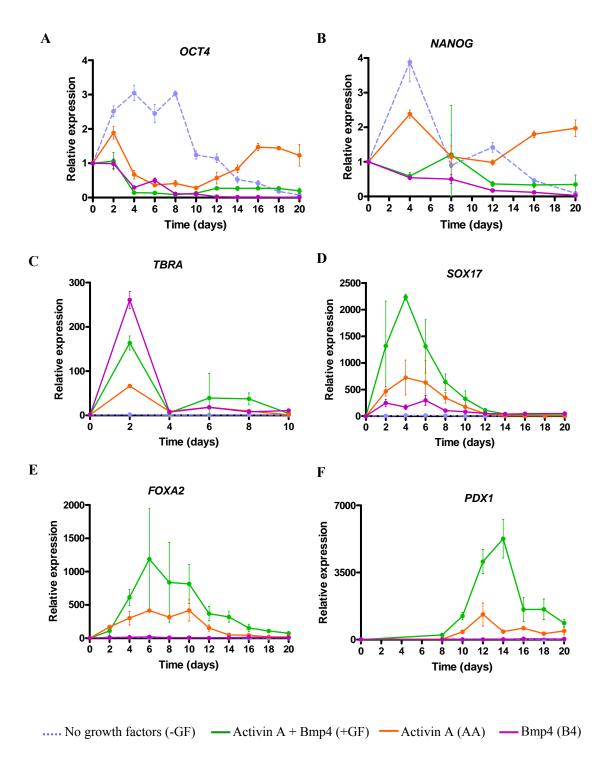


Figure 4.3. Activin A and Bmp4 together are more effective in inducing endodermal differentiation than either growth factor alone. hESCs were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data were generated by quantitative RT-PCR with samples collected every other day from day 0 to day 20. (A, B) Expression of pluripotency markers OCT4 (A) and NANOG (B) decreases during the course of differentiation as expected. The continued expression of these markers in the -GF condition shows that decreasing expression in all other conditions is a direct effect of growth factor addition. (C) The gastrulation marker BRACHYURY (TBRA) is expressed in response to all growth factor treatments. Bmp4, which is known to induce TBRA, stimulated the highest expression followed by +GF and Activin A. (D, E) Genes specific to the endodermal lineage, FOXA2 and SOX17, are expressed in response to the growth factors and seem to follow the known developmental sequence of gene expression. Activin A alone does expectedly induce some amount of endodermal differentiation but much lower than +GF (~3 fold). Bmp4 when used alone does not seem to efficiently differentiate hESCs into endoderm. (F) To confirm if the differentiation progressed as expected to generate pancreatic progenitors, PDX1 expression was determined. PDX1 is detectable by day 10 and shows higher expression in +GF than in Activin A alone. These expression data suggest that undifferentiated cells downregulate pluripotency markers, undergo a gastrulation-like event and form DE and pancreatic progenitors in culture.

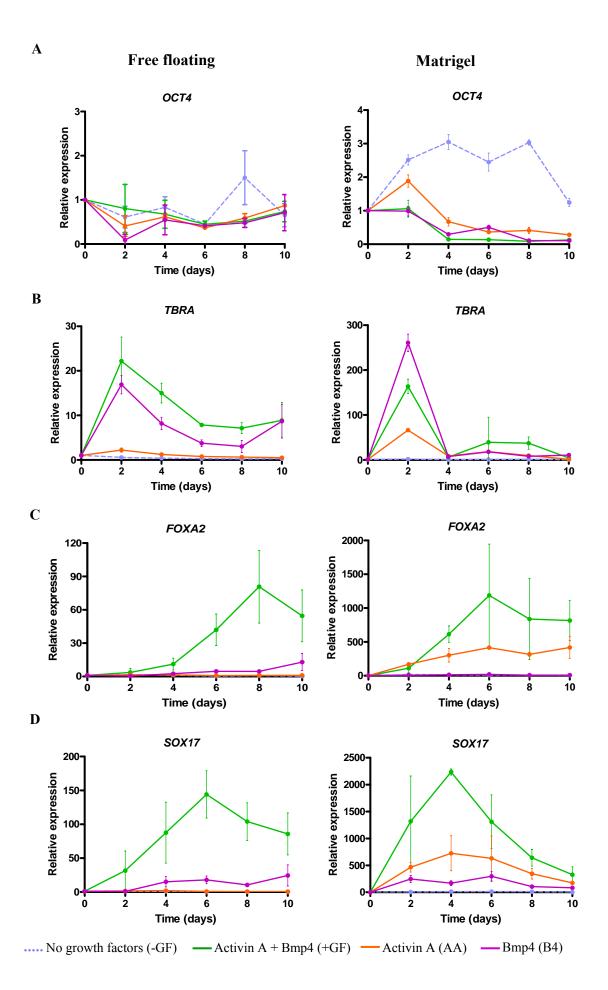


Figure 4.4. Absence of Matrigel adversely affects the extent of endodermal differentiation. hESCs were differentiated using the 3D protocol without Matrigel under the 4 conditions indicated. Gene expression data were generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10 and compared against the data from Matrigel-embedded EBs (adapted from Figure 4.3). **(A, E)** Expression of *OCT4* was low but persistent in the free-floating EBs. In presence of Matrigel, all conditions except –GF showed rapid downregulation of *OCT4*, while expression remained constant in –GF. **(B-D, F-H)** In the absence of Matrigel, Activin A alone does not seem to induce endodermal differentiation. When free-floating EBs are treated with both Activin A and Bmp4, there is expression of the gastrulation marker *TBRA*, followed by the endodermal genes *SOX17* and *FOXA2*, though 10 times lower than in the Matrigel-based differentiation. Induction of endoderm seems to be slower than in the Matrigel differentiation as expression of *SOX17* and *FOXA2* is delayed. Bmp4 alone has no effect on gene expression except in the case of *TBRA* as expected. EBs in –GF show no endodermal differentiation.

Strikingly, Activin A alone did not seem to induce endodermal differentiation in the absence of Matrigel (**Figure 4.4**). This suggests that Matrigel enhances the ability of Activin A to bring about differentiation. There could be a Bmp4-like activity in Matrigel, which causes an effect similar to the +GF condition. Eliminating Matrigel possibly abrogates this Bmp4-like activity thus rendering recombinant Activin A inefficient in inducing endodermal differentiation in this system. Alternatively, Activin A when used alone could be acting to maintain pluripotency or to resist differentiation and the addition of Matrigel possibly overcomes this block.

An alternative explanation for this observation is the potent anti-differentiation activity present in KOSR which can be attributed mainly to Insulin/ IGF-like activity (Bendall *et al.* 2007). Since Matrigel- and free-floating- EBs are differentiated in KOSR-containing medium, this IGF-like activity is present in all conditions. However, the presence of Matrigel seems to serve as a protective barrier to the anti-differentiation effect of KOSR. In the absence of this buffer, free-floating EBs are exposed to extremely high concentrations of IGF which hampers and delays the differentiation or even eliminates it when Activin A is used alone. Another interesting observation is that the absence of Matrigel seems to prolong the gastrulation-like phase (*TBRA* expression) and delay the expression of *FOXA2* and *SOX17*. This suggests that Matrigel renders the EB more amenable to differentiation. These data also reiterate the importance of Bmp4 in inducing endodermal differentiation.

4.1.3. Cells expressing FOXA2 and SOX17 are of definitive endodermal origin as visceral endoderm is suppressed during differentiation

Both *FOXA2* and *SOX17* are known to be expressed in the definitive and visceral endoderm (Dufort *et al.* 1998, Kanai-Azuma *et al.* 2002). Therefore, it is

important to verify that *FOXA2* and *SOX17* expression during *in vitro* differentiation specifically identifies DE-like cells. This is especially relevant in light of experimental evidence that hESC-EBs form a VE-like layer during *in vitro* differentiation (Conley *et al.* 2004).

Since the outer VE-like layer is expected to form quite rapidly during EB organization, the expression of VE genes is predicted during the earliest stages of in vitro differentiation. Molecular analysis of the differentiation shows that the expression of FOXA2 and SOX17 always follows TBRA expression (Fig 4.3). This indicates that the differentiation closely mimics development and gives rise to a TBRA⁺ primitive streak-like population from which the FOXA2⁺ SOX17⁺ DE cells emerge. In addition, RT-PCR analysis of samples from Matrigel-based and freefloating differentiations shows that gene expression of markers unique to the VE like Transthyretin (TTR), Alpha Feto Protein (AFP) and H19 expression is suppressed in the early part of differentiation (Fig 4.5A-D). The effect on gene expression seemed to be irrespective of Matrigel unlike what has been reported previously. H19 expression was insignificant in all conditions except in the presence of Bmp4 alone. TTR and AFP expression is detectable later in differentiation and is coincident with the expression of PDX1 (Fig 4.3). As TTR and AFP resolve to the liver later in development, the similar timeline of expression of these genes suggests that multiple derivatives of the DE are being generated during differentiation. Taken together, these data strongly suggest that FOXA2 and SOX17 expression marks cells of the DE that are derived from a primitive streak-like population and are therefore not indicative of substantial formation of VE.

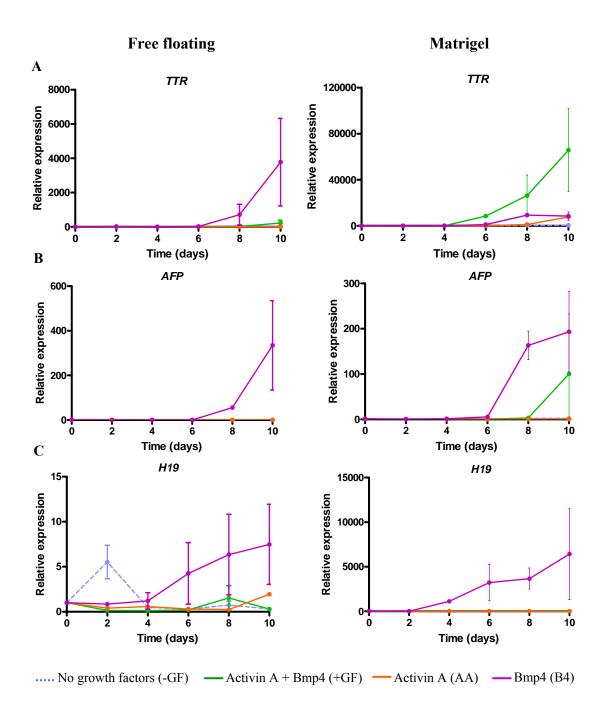


Figure 4.5. Markers of visceral endoderm are suppressed during the definitive endoderm formation phase of differentiation. Cells were differentiated using the 3D protocol with or without Matrigel under the 4 conditions indicated. Gene expression data were generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. In general, markers of visceral endoderm— *TTR*, *AFP* and *H19*— are suppressed in endoderm-forming conditions irrespective of the presence of Matrigel. (**A, B)** *TTR* and *AFP* are specifically suppressed during the initial endoderm-forming phase of differentiation in both free-floating and Matrigel-EBs. +GF and Bmp4 alone induce gene expression later in the differentiation following the activation of *TBRA*, *FOXA2* and *SOX17* (between days 2 and 6 in **Fig 3**). These data strongly argue that these markers have resolved to the definitive endoderm. (**C**) *H19* was expressed only when Bmp4 was used alone.

The above data (Section 4.1) show that reproducible, directed differentiation of hESCs to DE can be achieved by exposing EBs embedded in Matrigel to Activin A and that this induction can be enhanced with the addition of Bmp4. Analysis of gene expression suggests that the growth factors generate specifically DE and suppress the formation of VE *in vitro*. However, it is entirely possible that certain VE-like cells exist in these cultures and this has been shown later in this chapter. It is important to note that by day 20 of differentiation a variety of cell types reside within the EBs— not every cell is Pdx1⁺. This observation is consistent with QPCR analysis of the differentiation which is given in the various sections of this chapter.

4.2. Detailed analysis of the role played by Bmp4 in the formation of definitive endoderm *in vitro*

The initial investigations outlined in Section 4.1 show that in our differentiation strategy, Activin A expectedly induces the formation of DE in Matrigel-embedded EBs. Strikingly, the addition of Bmp4 to this differentiation significantly increases the expression of DE-specific genes. This unexpected synergy is consistent between various hESC culture platforms and is highly reproducible. To address the role of Bmp4 in the formation of DE *in vitro*, it is important to draw lessons from Bmp4's role during vertebrate development.

As alluded to in the general introduction and earlier in this chapter, Bmp4 is known to play pleiotropic roles in development but is not known to be an inducer of endoderm. However, there are a few possible mechanisms by which Bmp4 could enhance endodermal differentiation *in vitro*. (1) Activin A utilizes the Nodal signaling machinery and potentially induces transcription of *Nodal* and other genes that locally influence the formation of DE. Binding of Activin A to its receptor initiates

phosphorylation of Smad2, which in a complex with Smad4 induces transcription. Phosphorylated Smad2 (p-Smad2) is known to activate transcription of *Nodal* by binding to the Asymmetric Enhancer (ASE) element within the Nodal gene (Saijoh et al. 2005; Adachi et al. 1999). It is therefore conceivable that endogenous Nodal production also leads to transcription of genes essential for generation of DE. Both signaling events could result in increased Nodal activity as the Nodal gene is known to establish a positive feedback loop for its own induction. Consequently there might be greater levels of DE formation in the differentiation. Bmp4 might be enhancing this differentiation (Activin A-induced + Nodal-induced endoderm formation) by activating expression of *Cripto*, the co-receptor required for Nodal function. Bmp4 is known to induce Cripto in embryonic explants (Beck et al. 2002) which mirrors hESC differentiation in vitro. The above hypothesis is represented in Figure 4.6. (2) Bmp4 induces expression of brachyury (Tbra) during endodermal differentiation from mESCs and could be acting similarly in hESCs to exert a direct effect on differentiation (Johansson and Wiles 1995). The expression of TBRA indicates the presence of a primitive streak-like population which forms DE. This is supported by gene expression data that shows the expression of TBRA followed by FOXA2 and SOX17 (Fig 4.3). As is evident from the data, Bmp4 induces expression of TBRA which could increase the pool of primitive streak-like cells primed for allocation to the DE lineage. (3) Our lab has previously demonstrated that Matrigel inhibits VE formation associated with in vitro differentiation of hESCs. Since the VE is known to secrete Bmp antagonists like Noggin and Chordin, the use of Matrigel might create an environment that reveals a previously masked function of Bmp4 in endoderm specification in vitro (Song et al. 2007; Rust et al. 2006; Tiso et al. 2002). It is also

important to note that the formation of anterior primitive streak derivatives such as the node is impaired in *Bmp4* mutant mouse embryos (Fujiwara *et al.* 2002).

In order to address these possibilities and interrogate the collaborative activity of Activin A and Bmp4 during DE formation from hESC, I undertook the studies outlined below.

4.2.1. Activin A signaling leads to the expression of known target genes during differentiation

Activin A binding to its receptor initiates phosphorylation of Smad2/3, which ultimately leads to transcriptional activation of target genes. Gene expression analysis showed that NODAL was upregulated specifically in response to Activin A treatment as the –GF and Bmp4 alone conditions did not show any change in expression levels (Fig 4.7). This shows that Activin A is able to induce *NODAL* transcription over and above the endogenous levels seen at day 0 and in the -GF condition. When Activin A and Bmp4 were added together, there was only a slight upregulation of NODAL expression which disappeared by day 6 of differentiation, indicating a rapid signaling event in the presence of these two growth factors. This is in contrast to the sustained expression of NODAL in the presence of Activin A alone. The effector Smad molecules phosphorylated by Activin A and Bmp4 compete for the same co-Smad (Smad4) which might affect gene expression. This could be an alternative explanation for the lower expression of NODAL in the presence of both growth factors. If this were true, it would suggest that both signaling pathways are active in the same cell and that Bmp4 has a direct effect on DE formation. Along with several other targets, NODAL is known to induce transcription of its own inhibitor LEFTYA (LEFTY2) in a regulatory negative feedback loop (Meno et al. 1999).

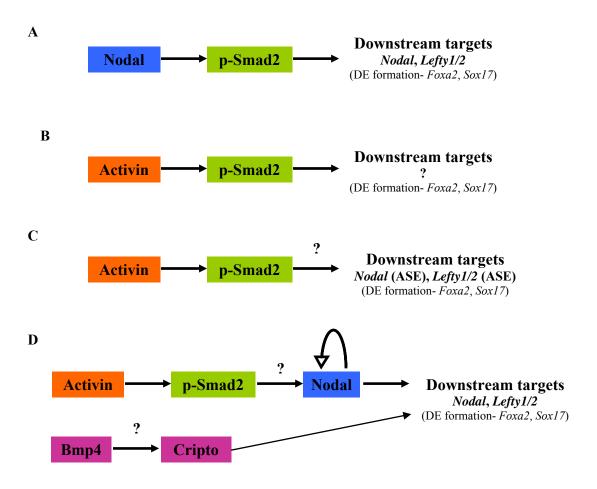


Figure 4.6. Proposed model for synergistic activity of Activin A and Bmp4.

(A) Nodal binding to its receptor causes phosphorylation of Smad2, which complexes with Smad4 and translocates to the nucleus to initiate transcription of downstream target genes including *Nodal* itself and *Lefty1/2*. (B) Activin mimics Nodal signaling in vitro and results in the expression of genes like Foxa2 and Sox17 which are required for DE formation. (C) Activin A signaling potentially leads to the expression of genes like *Nodal* as p-Smad2 is known to activate *Nodal* expression through the Asymmetric Enhancer (ASE) element within the *Nodal* gene. This addition activation of Nodal transcription could lead to increased expression of genes essential for DE formation. (D) A combinatorial effect of these various events is highly likely in the Matrigel-based differentiation in which Activin and p-Smad2 separately induce expression of genes including Nodal. This along with the positive feedback loop induced by Nodal increases the endogenous pool of Nodal that leads to activation of genes that influence DE formation in vitro. Bmp4 might be enhancing Nodal signaling locally by inducing Cripto, a co-receptor essential for Nodal function. The net result of these various processes would be robust generation of DE in the in vitro system.

In the differentiation, expression of *LEFTYA* followed the peak expression of *NODAL* in the presence of Activin A alone and in the +GF condition (Fig 4.7B). This pattern suggests that NODAL could be inducing LEFTYA at levels relative to its own expression. In addition to this, Smad2 could be directly activating LEFTY as there is a Smad-responsive ASE element within the *LEFTY* gene (Saijoh et al. 2000; Adachi et al. 1999). The Nodal co-receptor CRIPTO was expressed at low levels in -GF and in both conditions where Activin A was present (Fig 4.7C). Since -GF represents the expression, if any, in the spontaneously differentiating population any equivalent expression cannot be considered significant. Interestingly, Bmp4, which is known to induce CRIPTO in explant cultures did not exhibit the same effect in this Matrigelbased differentiation when Bmp4 was used alone. The homeobox transcription factor Goosecoid (GSC) is expressed in the epiblast region that later forms DE and is a known target of Nodal/ Activin signaling (Schier 2003). As expected, GSC is activated specifically in response to the addition of Activin A alone or Activin A + Bmp4, and not Bmp4 alone (Fig 4.7D). These data indicate that Activin A might be inducing transcription of Nodal through p-Smad2, resulting in endoderm formation as proposed in Figure 4.5D. It is important to note that though Activin A was supplemented during the course of differentiation this did not seem to have any specific effect on gene expression. The above data indicate that induction of CRIPTO might not be the mechanism by which Bmp4 enhances endodermal differentiation.

Activin A transduces its signal by phosphorylating Smad2 to mediate the downstream effects. Therefore, I monitored phosphorylation of Smad proteins by SDS PAGE and western blotting as detailed in Chapter 2.9. Phosphorylated Smad2 (pSmad2) was detected in all conditions though sustained expression was seen only in presence of Activin A alone (**Fig 4.8A**). The sustained pSmad2 expression in the

presence of Activin A alone could be attributed to the robust endogenous *NODAL* expression seen in the QPCR analysis. Supplementing Activin A at various time points during the differentiation did not seem to increase or sustain the p-Smad2 expression in any other condition including Activin A + Bmp4. This was inconsistent with the QPCR data which shows induction of *Nodal* at those time points. High p-Smad2 expression on day 2 and a sharp drop in expression by day 4 is consistent with the idea of a short but rapid signaling in the presence of both growth factors.

As phosphorylation of Smad2 is a relatively quick response to ligand binding, I tested early time points during growth factor treatment. Samples were collected as indicated and phosphorylation status analysed (Fig 4.8B). Smad2 phosphorylation levels were almost identical for all conditions tested; starting at 15 minutes there was a clear increase which continued up to 3 hours after which it decreased. This suggests that Activin A is depleted by this time in the differentiation resulting in lower levels of pSmad2. This aligns with the reported kinetics of Smad2 phosphorylation in response to Activin A treatment (Mavrakis et al. 2007). However, identical pSmad2 levels in all conditions indicate that any specific response to growth factor addition does not occur this early in the differentiation. Taken together these data strongly argue that Activin A triggers a signaling cascade that involves phosphorylated Smads and NODAL gene expression to induce endoderm formation. phosphorylation of Smad2 in the presence of Activin A alone might be a consequence of NODAL expression, which possibly increases the pool of p-Smad2 protein. The increased expression of endodermal genes in the presence of Activin A and Bmp4 is most likely the consequence of a rapid and short signaling event induced by these factors as there is no sustained expression of NODAL or p-Smad2 in this condition.

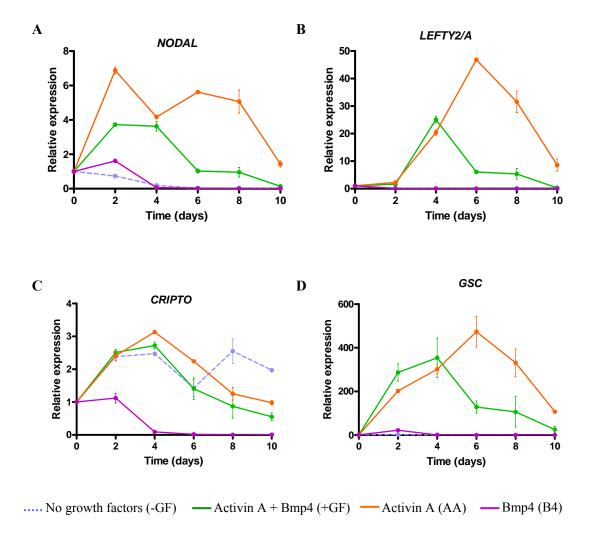


Figure 4.7. Genes characteristic of Nodal/ Activin A signaling.

Cells were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data was generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. (A) NODAL is expressed during differentiation and is upregulated as a specific response to Activin A. The presence of Bmp4 seems to be dampening Nodal expression in the +GF condition. (B) A potent inhibitor of NODAL, LEFTY A is highly expressed in presence of Activin A and both growth factors. The more NODAL in the system, the more LEFTY A is generated, indicating a self-regulatory negative feedback loop that is induced by NODAL. (C) The Nodal co-receptor, Cripto, shows a modest upregulation in all conditions except in presence of Bmp4 alone. The expression is possibly insignificant since -GF represents the background levels of differentiation. Though Bmp4 is a known inducer of Cripto, there does not seem to be a specific effect of Bmp4 on the same in this instance. (D) Goosecoid (GSC) is a direct target of Activin signaling and is robustly expressed in both conditions where Activin A is added.

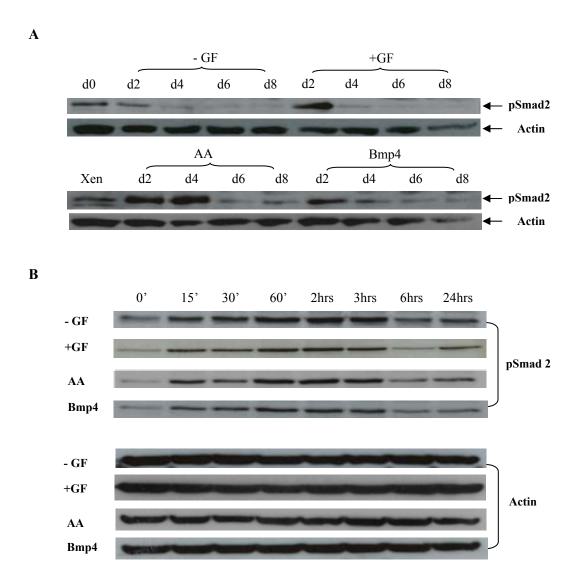


Figure 4.8. Phosphorylation of Smad2/3 in response to the Activin A signal.

Cells were differentiated using the 3D Matrigel protocol under the 4 conditions indicated and SDS-PAGE performed as described. (A) Western blot for pSmad2 which is phosphorylated specifically in response to Activin A/ Nodal. In Activin A alone, there is sustained phosphorylation of the Smad2. In all the other conditions, the expression is significantly high only till day 2 and seems to decrease/ disappear thereafter. Bmp4 seems to be squelching the phosphorylation of Smad2 which could result in lower Nodal levels. Xen denotes stage 10 *Xenopus* embryos lysed and run as control. Blots were stained for Actin as the loading control. (B) Western blot to assess the timing of Smad phosphorylation upon exposure to differentiating conditions. Samples were collected at the times indicated ('– minutes, hrs – hours). Smad2 showed almost identical pattern of phosphorylation in all conditions indicating that any specific response to growth factor addition was not occurring this early in the differentiation. Since the same activity is seen even in absence of all growth factor treatment, this could be considered background levels of phosphorylation.

4.2.3. Bmp4 signaling and its downstream effects

Bmp4 phosphorylates Smad1/5/8 to initiate a signaling cascade which results in transcription of relevant genes like the inhibitor of differentiation (Id) genes in ES cells (Ying et al. 2003; Hollnagel et al. 1999). To check whether components of this pathway were induced during differentiation, I employed RT-PCR analysis and western blotting. All three ID genes ID1, ID2 and ID3 were expressed in the presence of Activin A + Bmp4 and Bmp4 alone. *ID2* expression was significantly higher than the other two genes and seems to be a specific response to growth factor treatment (**Fig 4.9B**). However, *ID1* and *ID3* were also expressed in the –GF condition which indicates that these genes were induced irrespective of growth factor addition thus rendering the data inconclusive (Fig 4.9A, C). The homeobox genes MSX1 and MSX2 are functional in multiple tissues during embryogenesis and are important in craniofacial development and limb patterning (Chen et al. 2008; Han et al. 2007; Ishii et al. 2005; Brugger et al. 2004; van den Boogaard et al. 2000; Bei and Mas 1998). Since these genes are known downstream targets of Bmp4 signaling, I monitored their expression during differentiation. In the presence of Activin A + Bmp4 only MSX2 was expressed, at very low levels (Fig 4.9D, E). As the MSX genes are expressed in the primitive streak, this data supports the presence of a primitive streak-like population as identified by TBRA expression earlier. When cells were exposed to Bmp4 alone, both MSX1 and MSX2 were significantly upregulated as expected. The inhibitory Smads (I-Smads) SMAD6 and SMAD7 are induced by TGF-β signaling and regulate both Activin and Bmp4 signals differently (Imamura et al. 1997; Nakao et al. 1997). While Smad7 regulates both Activin and Bmp4 signaling, Smad6 is more effective in inhibiting the Bmp4 pathway (Hanyu et al. 2001; Hata et al. 1998; Itoh et al. 1998). Analysis of gene expression during in vitro differentiation shows that SMAD7 is not significantly upregulated (**Fig 4.9G**). Curiously, SMAD6 is significantly high in the +GF condition while low level expression is detected in the presence of either growth factor (**Fig 4.9F**). This is an unexpected observation as only p-Smad1/5 is known to induce SMAD6 and expression was anticipated to be high in the presence of Bmp4 alone with low level expression in the +GF condition (Ishida *et al.* 2000).

Phosphorylation of Smad1/5/8 molecules as a consequence of Bmp4 signaling was detected employing western blotting. Phosphorylated Smad1/5/8 (p-Smad1/5/8) expression was high in all conditions throughout the differentiation and even in undifferentiated hESCs (**Fig 4.10A**). Expression of p-Smad1/5/8 was high even at very early time points and identical between the 4 differentiation conditions (**Fig 4.10B**). These data suggest that Smad1/5/8 phosphorylation occurs in undifferentiated cells and is not a direct and exclusive response to growth factor addition in this differentiation. This supports the speculation that a Bmp4-like activity exists in Matrigel which is responsible for the p-Smad1/5/8 expression.

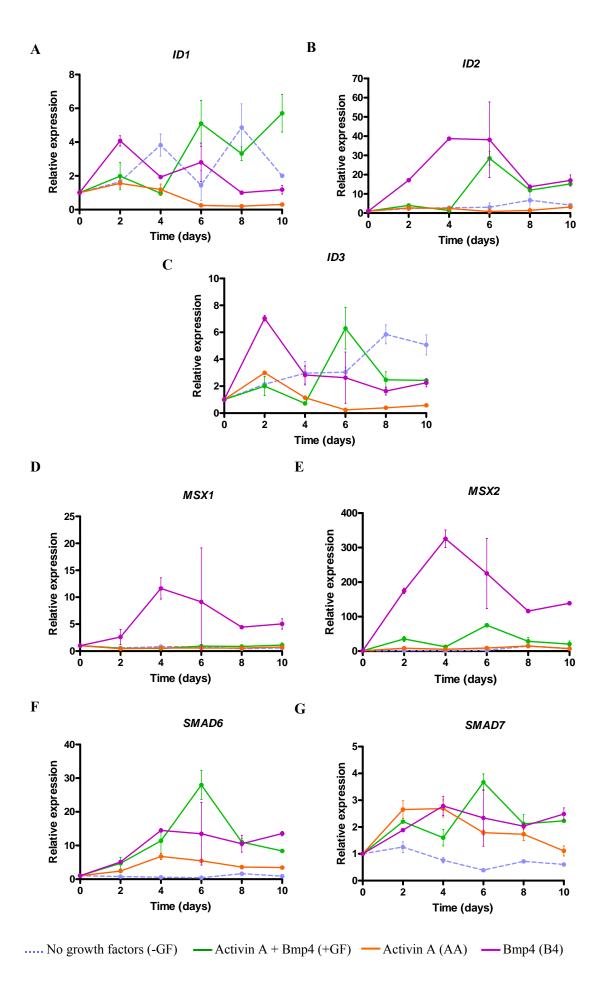
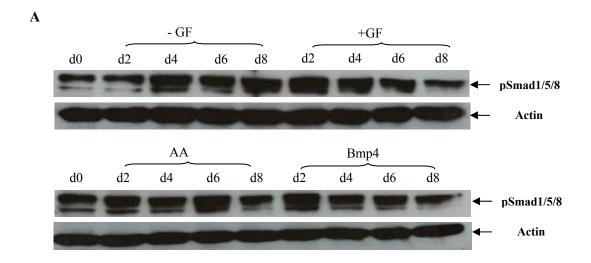


Figure 4.9. Genes expressed in response to Bmp4 signaling. Cells were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data were generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. (A-C) A direct consequence of Bmp4 binding its receptor is the induction of *Id* genes. *ID2* is expressed robustly when Bmp4 alone is added to the culture system. In presence of Activin A and Bmp4, the *ID2* expression is delayed and short-lived. Expression patterns of *ID1* and *ID3* were inconclusive. (**D, E)** *MSX* genes, which are induced by Bmp4, are not expressed at significantly high levels during endoderm differentiation (+GF). However these genes are induced specifically in response to Bmp4 addition. (**F, G)** *SMAD6* and *SMAD7* are inhibitory Smads induced by TGF-β signaling. *SMAD6* is expressed in presence of Activin A and Bmp4 individually but highest levels are seen in presence of both growth factors showing a combinatorial effect on gene expression. Higher SMAD6 expression could be the result of induction by p-Smad1/5.



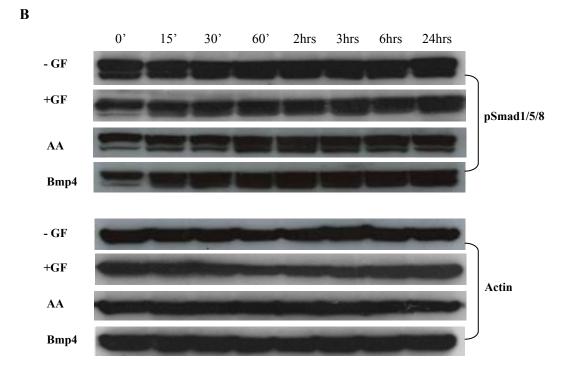


Figure 4.10. Phosphorylation status of Smad1/5/8 in response to the Bmp4 signal.

(A) Western blot for p-Smad1/5/8. Phosphorylation of the Smad protein is high in all conditions, irrespective of growth factor addition. (B) Western blot to estimate the timeline of Smad phosphorylation upon exposure to differentiating conditions. Samples were collected at the times indicated (' – minutes, hrs – hours). P-Smad1/5/8 showed almost identical pattern of phosphorylation in all conditions with no specific response to growth factor treatment. Since the same activity is seen even in absence of all growth factor treatment, this could be considered background levels of phosphorylation.

4.2.4. Bmp4 shows inefficient formation of cell types associated with its pleiotropic activities

Bmp4 is known for its pleiotropic activities during development including its roles in the formation of primordial germ cells and mesoderm. In addition, Bmp4 is known to induce trophoblast differentiation from ES cells *in vitro*. I used a candidate gene approach to evaluate the expression of these lineage markers in order to assess if Bmp4 functions along known pathways and induces expression of known target genes.

Primordial Germ Cells (PGCs)

It has been shown that Bmp4 is an absolute requirement for the formation of PGCs in the mouse embryo (Lawson *et al.* 1999). Bmp4 and other related proteins have also been implicated in germ cell differentiation from hESCs *in vitro* (Kee *et al.* 2006). *BLIMP1*, *STELLA*, *FRAGILIS* and *VASA* were chosen as the markers to test for the presence of the germ cell lineage during differentiation. In conditions favouring endodermal differentiation (Activin A + Bmp4 and Activin A) only *STELLA* and *BLIMP1* were upregulated slightly (**Fig 4.11A and C**). *VASA* and *FRAGILIS* did not show any significant expression (**Fig 4.11B and D**). Interestingly, Bmp4 alone did not induce expression of any of these genes. Therefore, a germ cell-like population is not a significant part of the differentiating milieu in Matrigel. Moreover, no cells were found that show the characteristics of PGCs after staining for endogenous alkaline phosphatase activity (N. R. Dunn, unpublished observations).

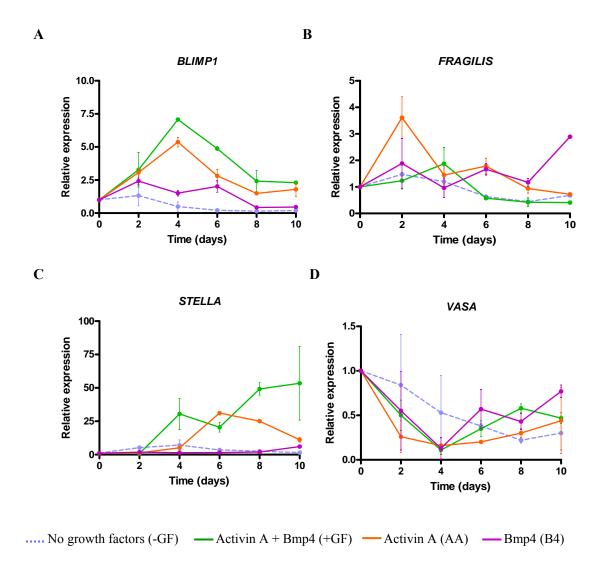


Figure 4.11. Primordial Germ Cell markers are expressed transiently at extremely low levels. Cells were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data was generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. **(A-D)** *Blimp1* and *Stella* are expressed in presence of Activin A and when the growth factor combination is used. *Fragilis* is induced slightly in presence of Activin A alone. *VASA* does not show any induction. Therefore, the germ cell lineage does not seem to be induced as the overall expression of germ cell markers is very low.

Trophoblast

Bmp4 has also been successfully used to generate trophoblast cells *in vitro* from hESCs (Xu *et al.* 2002). Quantitative RT-PCR for marker genes *BMP4*, *ELF5*, *CDX2*, *SPC4*, *FGFR2* and *ESRRB* was used to investigate for signs of trophoblast differentiation. These markers are all detected in the extraembryonic ectoderm (ExE) of the developing mouse embryo between E6.5 and E7.5 (Donnison *et al.* 2005; Pettersson *et al.* 1996). All genes showed significant upregulation when Bmp4 was the only growth factor (**Fig 4.12A-F**). No gene expression was detected when Activin A and Bmp4 were added together. From this data it would seem that conditions that give rise to endoderm do not encourage trophoblast differentiation.

Haematopoietic Cells

Bmp4 is known to induce formation of self-renewing haematopoietic cells from hESCs (Chadwick *et al.* 2003). Haematopoietic markers *SCL* (stem cell leukemia gene) and *PU.1* (purine-rich box.1) were significantly upregulated during differentiation in presence of Bmp4 alone (**Fig 4.12C and D**). *SCL* was also induced in the +GF condition which shows that whenever Bmp4 was added, it led to low level haematopoietic differentiation in this system. In presence of Activin A alone there was only a modest increase in *SCL*. The coincident expression of *SCL* and *TBRA* in Activin A + Bmp4 and Activin A suggests that there might be a hemangioblast-like population forming in the differentiating culture (Chung *et al.* 2002). Hemangioblasts cells are multipotent precursors that can give rise to haematopoietic and endothelial cells. The presence of this bi-potent population might explain the expression of the endothelial cell marker, *VWF* (Von Willebrand Factor) in cells differentiating in the +GF condition and in the presence of Activin A alone (**Fig 4.12E**).

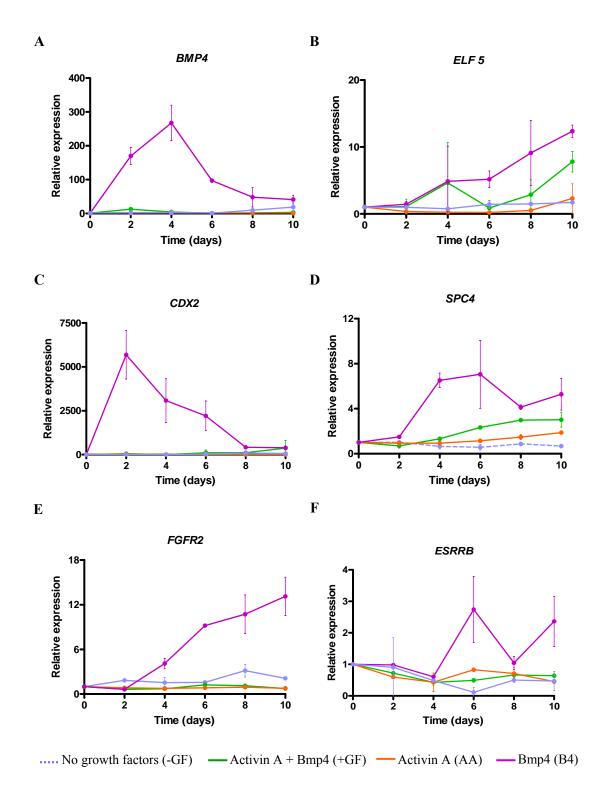


Figure 4.12. Trophoblast markers are expressed at extremely low levels, mainly in response to Bmp4. Cells were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data was generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. (A-F) All six markers, including Bmp4 itself, were expressed specifically in response to Bmp4 treatment only. None of the other conditions induced significant expression of the markers.

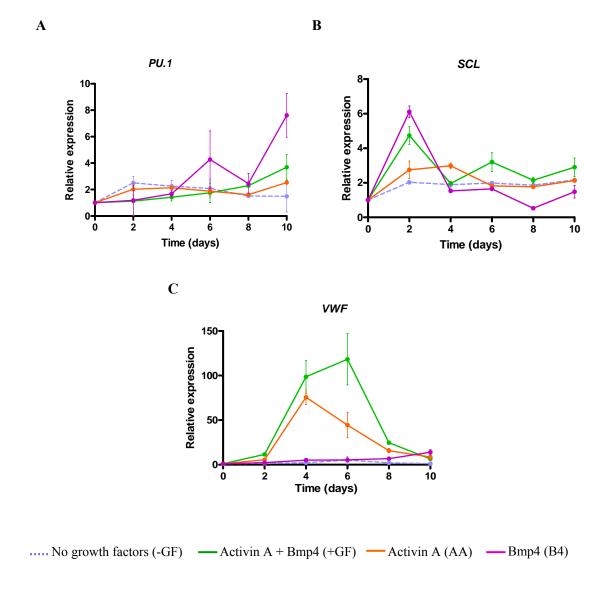


Figure 4.13. Differentiation does not induce significant mesodermal gene expression. hESCs were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data was generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. **(A, B)** Haematopoietic markers *PU.1* and *Scl* were induced in presence of Bmp4 alone as expected. Scl was upregulated transiently in presence of both growth factors but in general haematopoietic differentiation was negligible. **(C)** Endothelial cell marker *VWF* was significantly upregulated in presence of Activin A and when both Activin A and Bmp4 were added. This is not entirely unexpected as endothelial cells are known to be closely associated with the developing endoderm. These cells may be differentiating from the *Scl*- expressing hemangioblast-like population in this system.

4.2.5. Negligible formation of alternate lineages during DE differentiation

Given the sub-optimal efficiency of pancreatic differentiation it must be assumed that other lineages are also being formed in the differentiating cultures. These cell types could arise as a result of spontaneous differentiation or as a direct response to growth factor treatment.

hESCs are known to readily form cells with a neuronal phenotype either through directed or spontaneous differentiation *in vitro* (Itskovitz-Eldor *et al.* 2000). However, in this system, little neuronal differentiation was observed, as evidenced by negligible levels of *NESTIN*, *TUBB4*, *OTX2*, *SOX1* and *SOX2* (**Fig 4.14A-D**). High *SOX2* expression in the –GF condition is similar to the expression of OCT4 and NANOG shown earlier (**Fig. 4.3**). This is not entirely unexpected as these genes are expressed in the epiblast and might be maintained in hESCs that are not exposed to differentiation signals (Wood and Episkopou 1999). *OTX2* was specifically upregulated to significant levels in presence of Activin A alone and Activin A + Bmp4 as early as day 2 and expression was maintained till day 10 (**Fig 4.14E**). This expression might indicate the persistence of epiblast-like cells in the differentiation as *OTX2* is known to be expressed in the epiblast (Ang *et al.* 1994). Another alternative is that Activin signaling triggers a synthetic induction of *OTX2* as Smad2 is known to regulate the expression of *OTX2* (supported by microarray data shown later in the chapter).

The mesenchyme is known to be important for pancreatic development and has recently been shown to regulate beta cell differentiation in rat embryonic explants (Attali *et al.* 2007; Gittes *et al.* 1996). I tested the differentiation for expression of *VIMENTIN* a marker of mesenchyme but found that there is a meagre response only to Bmp4 addition (**Fig 4.14F**).

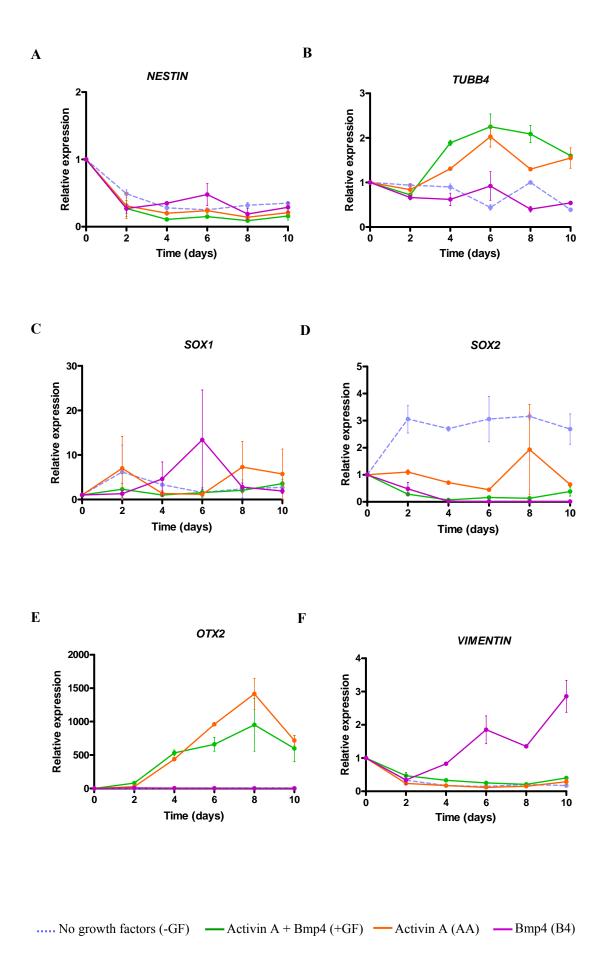


Figure 4.14. No significant expression of neuronal markers during differentiation. hESCs were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data was generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. (A-D) Markers of the neurectodermal lineage NESTIN, TUBB4, SOX1 and SOX2 were not significantly upregulated in conditions that gave rise to endoderm during the differentiation. High SOX2 expression in the -GF is consistent with expression of this marker in the epiblast. As cells in the -GF condition do not encounter massive differentiation signals there might be persistence of epiblast-like characteristics. (E) OTX2 was specifically upregulated to high levels in presence of Activin A alone and Activin A + Bmp4. As OTX2 is known to be expressed in epiblast tissue this expression might indicate persistence of epiblast-like cells in the differentiation. Another explanation is that Activin A-induced p-Smad2 causes synthetic regulation of gene expression as Smad2 is known to regulate OTX2. (F) Vimentin which marks mesenchymal cells or intermediate filaments is not expressed significantly though there is some response to Bmp4 addition.

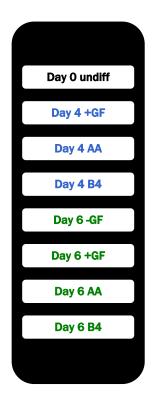
In an effort to understand the differentiation process and to define a mechanism for the combinatorial activity of Activin A and Bmp4 that leads to reproducible formation of DE from hESCs, I undertook the investigations detailed in sections 4.2.1 to 4.2.5. These studies showed that the endoderm induction by Activin A was enhanced significantly by Bmp4. However, monitoring gene expression and Smad phosphorylation status of members of Activin and Bmp4 signaling pathways did not reveal a direct impact of Bmp4 on the Activin pathway to potentiate DE formation. Supplementing Activin A in the differentiation did not seem to have a pronounced effect on the expression of target genes and p-Smad2. This suggests that Activin A might not be inducing significantly higher levels of NODAL as suggested, that results in increased formation of DE. Gene expression analysis of markers indicative of Bmp4's known pleiotropic activities showed that there was little formation of those specific lineages known to be induced by Bmp4. Taken together these data suggest that Bmp4 impacts DE formation in a novel manner which is not captured in any of the above experimental strategies. In light of these observations, I chose to adopt a global view of the differentiation which is outlined below.

4.2.6. Gene Expression Analysis of Differentiation Using Microarray Technology

My quest to deduce a potential mechanism for the synergistic activity of Activin A and Bmp4 led me to undertake the studies described in Sections 4.2.1 to 4.2.5. Since these strategies did not yield any significant clues about the role of Bmp4, I analysed global gene expression patterns during differentiation using microarray technology. Briefly, hES3 cells were differentiated as Matrigel-embedded EBs in presence of Activin A and Bmp4 either individually or in combination. RNA samples were generated at various time points as described earlier and found to express genes

RNA (cRNA) was synthesized from these samples as detailed in Chapter 2.10. cRNA from selected time points were hybridized to Illumina BeadChips as shown in **Figure 4.15**. Days 4 and 6 were chosen as the preferred sampling points as the expression of key endodermal genes like *SOX17* and *FOXA2* was high on these particular days of the differentiation (**Fig 4.3**). After normalizations and statistical analysis, genes whose expression was altered in comparison to day 0 undifferentiated cells on day 4 were chosen for further investigation. Heat map shows changing expression of genes when treated with the relevant growth factor (s) (**Fig 4.16**). Genes upregulated in undifferentiated hESCs are significantly downregulated in cells treated with Activin A alone (AA) or with Activin A + Bmp4 (+GF). Alterations in gene expression are similar between the treated samples though the +GF condition shows robust expression as seen by the colour intensity (*). Gene list is given in **Appendix III**.

To assess if the microarray is a true representation of the *in vitro* differentiation I analysed the expression of genes known to be upregulated during endoderm formation and previously characterized by QPCR analysis in the day 4 samples. Key indicators of endodermal development in the vertebrate embryo including *FOXA2*, *SOX17*, *EOMES* and *CXCR4* were detected in the presence of Activin A alone and in the presence of Activin A + Bmp4 thus validating the endoderm induction mediated by these two conditions in the differentiation (**Table 4.1**). As was seen in the QPCR analysis, expression of key genes was significantly higher in Activin A + Bmp4 than when Activin A was used alone as evident from the fold change data (**Appendix III**). There was evidence of some mesendodermal and ectodermal differentiation as genes representing these two germ layers including *MIXL1*, *VWF*, *GSC* and *FGF17* were also detected.



Day 0 undiff: Undifferentiated cells

-GF: No growth factors

+GF: Activin A + Bmp4

AA: Activin A

B4: Bmp4

Figure 4.15. Samples loaded on Illumina BeadChip for microarray analysis. hESCs were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. RNA samples from days 0, 4 and 6 of differentiation were converted to cRNA and subjected to microarray analysis using the Illumina Human genome array (N=2).

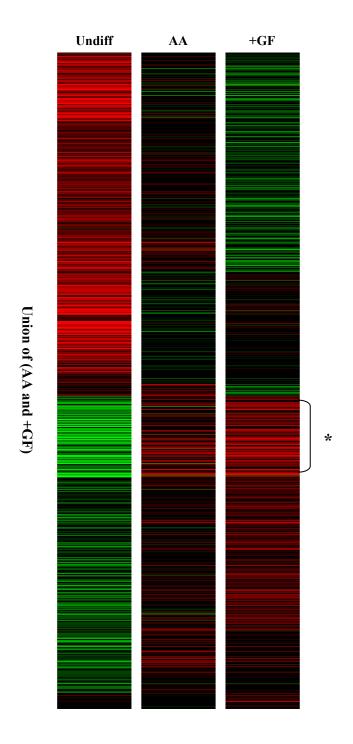


Figure 4.16. Heat map shows global changes in gene expression corresponding to growth factor treatment. Heat map shows clustering of genes expressed differentially between undifferentiated hESCs (Undiff), Activin A treated cells (AA) and Activin A + Bmp4 treated cells (+GF). Genes upregulated in undifferentiated cells (red) are significantly downregulated upon growth factor treatment (green) and vice versa. Gene expression changes are similar between AA and +GF as expected since these two conditions give rise to endoderm during differentiation. However, there is a more robust induction of gene expression in the +GF condition as seen by the difference in colour intensity (representative area indicated by *).

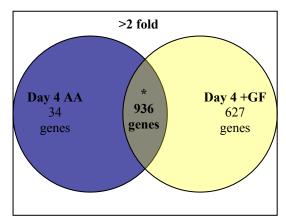
Gene Name	Fold Change (+GF)	Fold Change (AA)
CYP26A1	90.12	60.53
EOMES	81.1	70.9
CXCR4	79.35	65.16
CER1	71.97	56.35
FOXA2	71.79	56.62
FGF17	61.28	40.56
SOX17	54.05	38.06
FOXQ1	31.93	21.35
FRZB	30.38	21.99
GSC	26.62	20.9
FLRT3	22.63	19.93
LHX1	16.62	14.69
BMP2	13.1	8.584
LEFTY2	9.403	8.651
PITX2	4.762	3.969
LEFTY1	4.607	4.332
PRDM1	3.677	3.739
FGF8	3.068	3.516

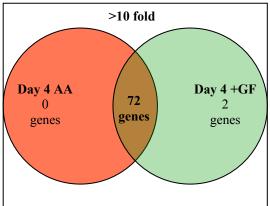
Table 4.1. Genes expressed during gastrulation in the mouse and/ or associated with the formation of DE. Genes known to be expressed during gastrulation and others known to be critical for endoderm formation are upregulated as expected in day 4 Activin A alone and day 4 Activin + Bmp4. Most genes showed higher expression in presence of both factors than in presence of Activin A alone. The induction of relevant genes validates the sensitivity of the microarray technique for this particular study.

The presence of other germ layers was not clearly captured in the QPCR analysis described earlier as only a small subset of genes was chosen for analysis. Among the various data sets, I chose to look more closely at conditions that promote endoderm formation, i.e. Activin A alone and Activin A + Bmp4 on day 4 of differentiation as that is my primary area of interest (**Fig 4.17 A, B**). Genes altered by 2-fold or above and 10-fold or above were compared between the treated conditions in Venn diagrams. Gene lists are given in **Appendix III**. Gene Ontology analysis was performed to distinguish these gene lists on the basis of molecular function. The pie charts show that in general, genes altered during differentiation fall into the following main categories— binding, catalytic activity, signal transducer activity, transcription regulator activity and transporter activity (**Fig 4.17C**).

Genes in the data set d4 [AA] + [+GF] that showed a difference in expression of 2-fold or more compared to undifferentiated cells were chosen for further analysis (Fig 4.17 A*). In these conditions, several genes not previously associated with or characterized in the context of the endoderm and its formation were highly upregulated. These genes were interrogated in two ways (1) expression analysis of the murine homologues in the developing embryo and (2) QPCR corroboration of candidate gene expression in an independent hESC differentiation experiment. Though these genes were upregulated under conditions that specify endoderm it is important to establish their expression domain (s) in the developing embryo and to analyse if it is relevant to the formation of endoderm. I chose to use the mouse as a model system to study gene expression during development. After eliminating those genes known to be related to endoderm formation and those that are well characterized in other contexts, I chose a total of 26 genes to test in the mouse system (Table 4.2).







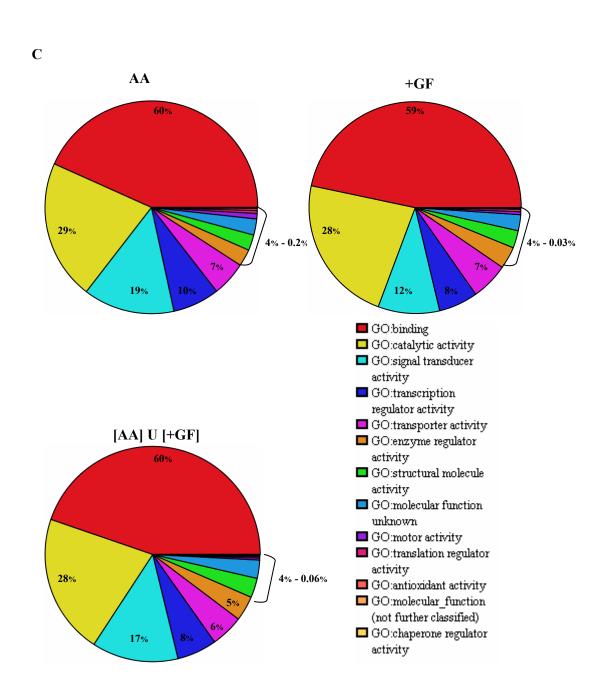


Figure 4.17. Genes expressed in conditions that form DE were chosen for further analysis. (A, B) The conditions that gave rise to endoderm— Activin A alone (AA) and Activin A + Bmp4 (+GF) — were compared in a Venn diagram. (A) The number of genes altered by 2 fold or more in these conditions is shown. (B) The number of genes altered by 10 fold or more is shown. As the subset of genes available for analysis was not significant in the +GF list, genes common to both conditions which were altered by 2 fold or more (936 in the intersect marked by *) were studied in detail. This represents the subset of genes that induce formation of DE. (C) Gene Ontology analysis was performed for the indicated conditions taken from (A) and results are represented as pie charts. Distribution of genes was similar between the conditions with significant changes in +GF in signal transducer activity.

APOC1	KCNF1
APOA1	LRRC3
BHLHB5	MANEA
CALCR	MGST2
CMKOR1	MYCT1
COL9A2	NPPB
DDIT4L	NR0B1
EDG3	NUAK1
FLJ23514	PCDH7
GATM	RCOR3
HAS2	RHOBTB3
HOMER2	SLC5A9
IRX3	SLCO2A1

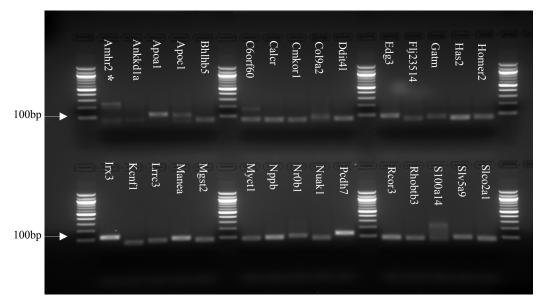
Table 4.2. Preliminary list of genes for detailed analysis. After eliminating genes that are known to be associated with gastrulation, endoderm formation and those novel genes that are common between two very distinct differentiation strategies— 3D and monolayer differentiation (mentioned later in this chapter), a selection of genes hitherto uncharacterised in the context of definitive endoderm formation was chosen for further analysis.

As mentioned in Chapter 1 endoderm development in the mouse commences around E6.5. Therefore, I chose embryos at early stages of development for the studies outlined below. Since these genes were shortlisted on the basis of expression in differentiating hESCs, it was important to establish that genes are indeed expressed in the mouse system. This was by performing Q-PCR analysis on mouse embryo samples at embryonic days E7.5, E8.5 and E9.5. cDNA preparation and PCR conditions are described in Chapter 2.7 and 2.8 respectively. Expression values were normalized to Actin using the $\Delta\Delta$ Ct method and PCR product size was confirmed by agarose gel electrophoresis (Fig 4.18A). Results show that some of the genes are either not expressed at all or are expressed in a pattern that does not seem relevant to my investigation (Fig 4.18B). After careful analysis of these results, 15 genes were chosen for Whole mount In Situ Hybridisation (WISH) (Table 4.3). WISH was performed to obtain knowledge about the expression of these genes in the developing mouse embryo. Cloning of these genes, riboprobe synthesis and the WISH protocol are described in Chapter 2.11. Of the 15 genes only one, *Rcor3*, did not yield a PCR product for cloning and is therefore not included in the WISH analysis.

Among the 14 genes tested, 8 showed tissue-specific staining and are described below (**Table 4.4**). (1) As the major component of high density lipoprotein (HDL), apolipoprotein 1 (*Apoa1*) promotes cholesterol efflux from tissues to the liver for excretion. A recent study showed the expression of *Apoa1* in the extraembryonic hypoblast and endoblast and restricted expression in the endoderm of the developing chick embryo (Bertocchini and Stern 2008). A similar expression pattern was seen in the mouse embryo as hybridisation with *in situ* probes shows that *Apoa1* strongly marks the extraembryonic visceral endoderm between E7.0 and E9.5 (**Fig 4.19A**). However, *Apoa1* is restricted entirely to the extraembryonic tissue in the mouse

unlike in the chick embryo. (2) Edg3 (sphingolipid G-protein coupled receptor 3/ S1P3) is known to mediate the effects of its ligand, sphingosine-1-phosphate (S1P), during embryonic angiogenesis and bone homeostasis (Ishii et al. 2009; Kono et al. 2004). A recent report shows that S1P activity indirectly promotes budding of the pancreatic endoderm by stimulating pancreatic mesenchymal cell proliferation by (Edsbagge et al. 2005). This ligand is also known to induce proliferation and morphological changes in neural progenitor cells (Harada et al. 2004). Expression in the mouse embryo was mainly in the somites, neural tissue and the allantois (Fig **4.19B**). (3) Gatm (glycine amidinotranferase) is a creatine synthesis enzyme which is known to be imprinted in the mouse placenta and the yolk sac but not in embryonic tissues (Sandell et al. 2003). However, here I show expression in the somites, the brachial arch and possibly in neural tissue (Fig 4.19C). (4) Previously known to be expressed in neural tissue, *Homer2*, was strongly expressed in the developing heart and in the 1st brachial arch (Fig 4.19D). Homer2 expression in cardiac tissue was previously reported in adult rats but not in embryonic tissue (Schweitzer et al. 2006). This is the first report of *Homer2* expression in the developing vertebrate heart. (5) Another gene that was expressed in the extraembryonic/ chorionic ectoderm is Irx3 (Iroquois related homeobox 3) which progressively resolved to the anterior region of the embryo (Fig 4.19E). Irx3 belongs to a family of genes involved in patterning and regionalization of differentiation within the embryo. It has been implicated in neural development and is known to be expressed in the foregut at E10.5 in the epithelial layer of lung buds and bronchia (Houweling et al. 2001). In the stained embryos, Irx3 was also seen in the anterior neuroectoderm and the neural tube from E7.0 to E9.5. In addition, this gene seems to be expressed in the early DE which resolves to the foregut pocket in the later stage embryos.





В

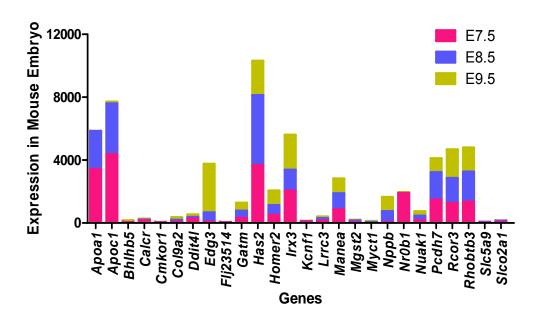


Figure 4.18. Quantitative PCR in mouse embryo samples for genes shortlisted from microarray. (A) PCR product sizes of the genes were confirmed by agarose gel electrophoresis. Some genes like *Amhr2* in lane 1 (*) were eliminated from further analysis as their expression patterns are known and might not be relevant to my investigation. **(B)** Q-PCR revealed varied expression patterns of the selected genes in mouse embryo samples at embryonic days E7.5, E8.5 and E9.5. Some genes like *Has2* showed high but sustained expression while others like *Apoa1* showed differential expression between the samples tested.

APOA1	IRX3
APOC1	LRRC3
CALCR	MANEA
DDIT4L	NR0B1
EDG3	NUAK1
GATM	PCDH7
HOMER2	RHOBTB3

Table 4.3. Genes chosen for riboprobe synthesis and whole mount in situ hybridisation. Based on expression in the mouse embryo 14 genes were selected for detailed characterisation. These were cloned into bacterial vector to generate DNA template for riboprobe synthesis. Probes were used for whole mount in situ hybridisation (WISH).

Extraembryonic	Neural tissue	Endoderm	Mesoderm
APOA1	EDG3	IRX3	HOMER2
IRX3	GATM	NUAK1	RHOBTB3
NR0B1	IRX3	GATM	
EDG3	RHOBTB3	HOMER2	

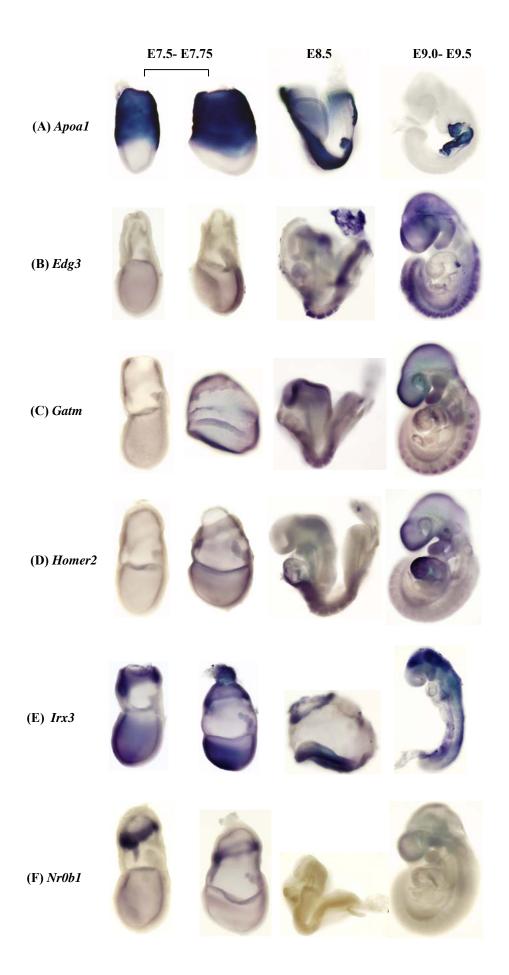
Table 4.4. Expression domains of key genes identified by WISH in the mouse embryo. While some genes like *Apoa1* showed restricted areas of expression, others like *Irx3* showed widespread tissue distribution in their staining.

(6) Nr0b1 (Nuclear receptor subfamily 0, group B, member 1) is the gene that encodes DAXI (dosage sensitive sex-reversal (DSS), adrenal hypoplasia congenita (AHC)), a nuclear receptor protein which is essential for vertebrate development. DAX1 is expressed on preimplantation mouse blastocysts and mouse ES cells and is known to be regulated by Oct3/4 and Stat3 to promote maintenance of the undifferentiated state of ES cells (Sun et al. 2008; Niakan et al. 2006; Clipsham and McCabe 2003). Nr0b1 has recently been identified as one of the possible target genes of the homeodomain protein Hex, which marks the anterior DE and anterior VE (Zamparini et al. 2006; Thomas et al. 1998). In support of this observation, Nr0b1 was strongly expressed in the chorionic/ extraembryonic ectoderm only in early embryos at E7.0 and E7.5 in a pattern reminiscent of *Hex* expression (Fig 4.19F). (7) *Nuak1* is an SNF1-like kinase known to be suppressor of apoptosis induced by nutrient starvation (Suzuki et al. 2005; Suzuki et al. 2003). This kinase promotes survival by triggering the Akt/ PKB (protein kinase B) pathway upon encountering metabolic stress. In early mouse embryos there seems to be weak primitive streak expression that becomes progressively restricted to the foregut and then to the pharyngeal endoderm (Fig 4.19). Nuakl was also detected in the brachial arches and brain. (8) Rhobtb3 (Rho related BTB domain containing 3) is a member of the Rho GTPase family known to be expressed strongly in adult mouse neural and cardiac tissues by Northern blot analysis (Ramos et al. 2002). The in situ data shows for the first time expression of this gene in the embryonic component of the early embryo and in the neural tissue of the later stage embryo (Fig 4.19H). Five genes– Edg3, Gatm, Homer2, Nuak1 and Rhobtb3- were also expressed in the primitive streak (PS) and may impact DE formation as this germ layer arises from the PS. These will be studied in detail in further experiments outlined in Chapter 5. Three genes– Apoal, Irx3 and

Nr0b1– showed specific expression in the extraembryonic ectoderm. Of these, *Apoa1* was robustly expressed in the extraembryonic VE indicating the formation of low levels of VE for which Bmp4 could be solely responsible. Six other probes that were used for WISH either showed no tissue-specific expression or were not expressed at all. These need to be re-visited to resolve the discrepancy between QPCR data and WISH observations.

The second approach to validate the microarray results was QPCR analysis of gene expression during in vitro differentiation (Fig 4.20). Samples from an independent Matrigel-based differentiation were used to assess gene expression. In general, all genes tested showed increased expression in conditions favouring endodermal differentiation (AA and +GF) compared to untreated control (-GF). APOA1, GATM, IRX3, NR0B1 and RHOBTB3 showed significant upregulation in the +GF condition compared to the other conditions while EDG3, HOMER2 and NUAK1 showed higher expression when Activin A was used alone (Fig 4.20 A-H). In addition, some genes like EDG3, RHOBTB3 and NR0B1 were also upregulated in the presence of Bmp4 alone. APOA1 in particular was significantly upregulated only when both Activin A and Bmp4 were used (Fig 4.20A). The late expression (post day 4) of APOA1 was similar to that of AFP and TTR (Fig 4.4). As these markers resolve to the liver, it is possible that the APOA1 expression detected here marks the precocious formation of hepatic cell types during differentiation. IRX3 expression in the +GF condition shows that it is involved in endodermal development (Fig 4.20E). This is consistent with the staining seen in the early DE and the foregut of the mouse embryo. Upregulation of NUAK1 in the +GF and AA conditions, validates the staining observed in the foregut and pharyngeal endoderm (Fig 4.20G). Significant levels of IRX3, NR0B1 and RHOBTB3 on day 2 of differentiation aligns with the

expression seen in the early embryo (**Fig 4.20E, F, H**). However, *APOA1* is an exception as it is detected in the early embryo but not in initial part of differentiation. It is possible that *APOA1* specifically marks the VE unlike the other early markers and is inhibited along with the other VE markers like *H19* during the differentiation. As the QPCR analysis was done on an independent hESC differentiation, these data serve to validate the microarray results. Concurrent to this work our lab developed a differentiation strategy in monolayer culture using the combination of Activin A and Bmp4 to generate in phases, definitive endoderm and pancreatic progenitors. Microarray analysis of this two-dimensional differentiation revealed genes that were common between the two experimental regimes (**Table 4.5**). These genes are currently being investigated in detail and are not included in this thesis.



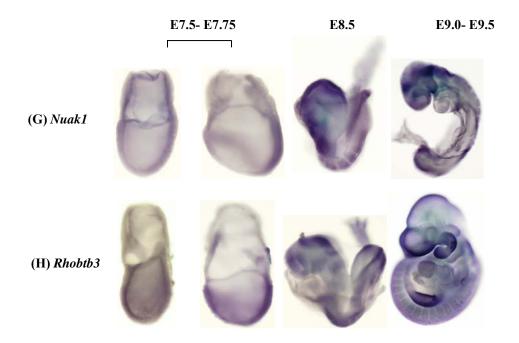


Figure 4.19. Whole mount in-situ hybridisation in mouse embryos. Mouse embryos at E7.0-E7.5, E8.5 and E9.5-10.5 were used for WISH using specific RNA probes created against genes of interest. (A) Apoal exclusively marks the extraembryonic visceral endoderm. In the E9.5 embryo staining is clearly visible only in the remnants of the allantois (black arrowhead). (B) Edg3 is not detected in the early stage embryos which is consistent with the PCR data. Expression in the later stage embryos seems restricted to the somites, anterior and posterior neural tissues. In E8.5 the allantois retains some staining. (C) Gatm was expressed in the somites and neural tissue in the E8.5 and in the somites, first brachial arch and possibly heart traberculae in E9.5. (D) *Homer2* is first detected in E8.5 embryos where it stains the somites and the forming heart. By E9.5 staining is clearly visible in the heart and in the first brachial arch. (E) Irx3 is expressed in the hat/bonnet of the extraembryonic (chorionic) ectoderm in early allantoic bud (EB+), late allantoic bud (LB) and late head fold stage embryos. Between E7.5 to E8.0 the expression resolves to the anterior region and is excluded from the node and the posterior primitive streak. In the late head fold embryo (E8.0), Irx3 was also detected in the neural folds, midline (notochordal plate) and possibly in the definitive endoderm. At the 1-2 somite stage, Irx3 resolves to the anterior neuroectoderm (hindbrain, midbrain and forebrain) and the anterior endoderm represented by the foregut pocket. In E10.5 embryos staining is detectable in the midbrain, hindbrain, midline neural tissue and lateral plate mesoderm. (F) Nr0b1 is expressed in a ring-like form at the junction where the visceral endoderm meets the chorionic ectoderm. Expression is highest in the early embryos, decreases by E7.5 and is not present in E8.5 and E9.5 embryos. (G) Nuak1 weakly stains the posterior primitive streak in E7.5 embryos and shows specific staining at the foregut entrance in E8.5 embryos. By E10.5 this gene is expressed in the brachial arches and the limb bud. (H) Rhobtb3 is weakly expressed through out the embryonic component of the early stage embryos (E7.5 to E8.5). In E8.5 expression is also detectable in the anterior and posterior neural tissue.

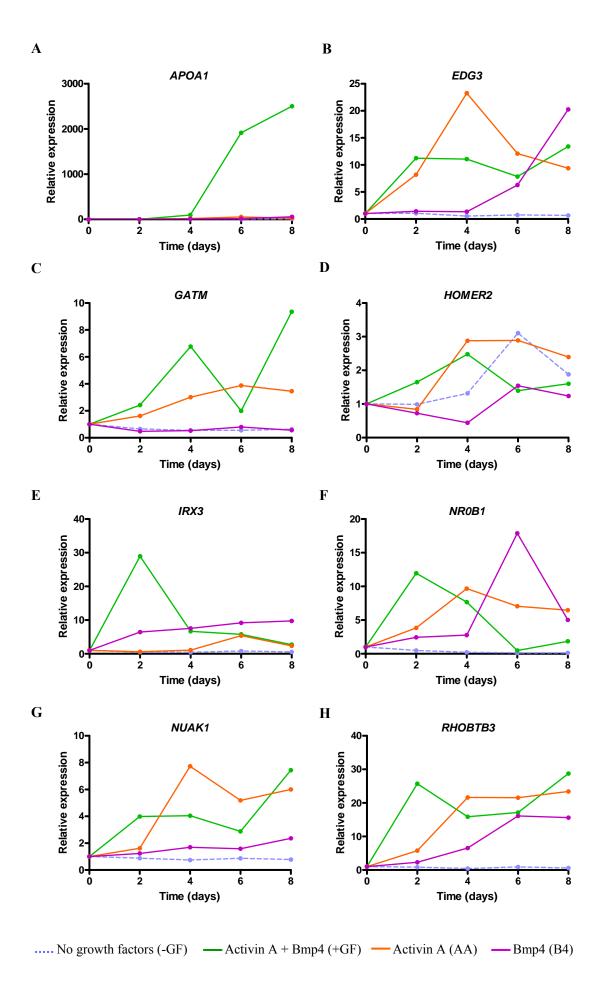


Figure 4.20. Expression of genes characterised by WISH during in vitro differentiation of hESCs. Cells were differentiated using the 3D Matrigel protocol under the 4 conditions indicated. Gene expression data was generated by quantitative RT-PCR with samples collected every other day from day 0 to day 10. All genes analysed here show increased expression in conditions favouring endoderm formation when compared to untreated control (–GF). A subset of the genes showed higher expression in response to Activin A alone and some to Bmp4 alone. (**E, F, H)** IRX3, NR0B1 and RHOBTB3 gene expression was detected in the first few days of differentiation mirroring the staining in very early stage embryos. (**A)** APOA1 was the exception as gene expression was absent early in the differentiation while strong staining was seen in the early stage embryos. The specific response to +GF condition and the late expression suggests that APOA1 might be an endodermal marker which resolves to the liver similar to TTR and AFP.

GRP	SERHL2
FREM1	HAK
SEMA3E	AGTRL1
COLEC12	ANKS1B
PDZK1	DKK4
UPK1B	LRIG3
DIO3	LEPREL1
IL18R1	APOA2
EPSTI1	ЕРНА4
SAMD3	CUGBP2
SMARCD3	CRIP1
СРЕ	RTDRD7
CCKBR	MCC
PCDH10	DACT2
ROR2	SAMD11
IGFBP5	KCNK12
ЕРНВ3	KCNG1
PPAPDC1	ADAM19
PCDH20	MX1
DEPDC6	TXNIP

Table 4.5. Novel genes potentially involved in endoderm differentiation of hESCs. Several novel genes that showed altered expression were common between the 3D approach and a parallel monolayer differentiation strategy developed in our lab for the generation of pancreatic progenitors from hESCs. These are currently being investigated in detail.

CONCLUSION and DISCUSSION

In an effort to develop effective cell therapy for diabetes our lab devised an in vitro differentiation strategy that allows the sequential formation of DE and pancreatic progenitor cells from hESCs. This differentiation employed the combination of a known endoderm inducer Activin A and the pleiotropic factor, Bmp4 to generate DElike cells marked by FOXA2 and SOX17. These cells further developed into PDX1⁺ pancreatic progenitors which gave rise to more mature cell types that expressed INSULIN, NGN3 and PTF1A in the presence of appropriate growth and maturation factors. Though inefficient with regard to β cell output, this three-dimensional protocol reproducibly led to the production of definitive endoderm and pancreatic progenitors (Phillips et al. 2007). Detailed investigation of the differentiation revealed that the gene activation pattern closely mimics what is known in the vertebrate embryo. The onset of differentiation led to an increase in expression of the gastrulation marker TBRA. This was followed by sequential expression of FOXA2 and SOX17 (DE) and PDX1 and other endocrine markers. Immunocytochemistry showed that as differentiation progresses, there are reciprocal changes in the expression of pluripotency and differentiation markers.

Though Activin A is a known endoderm inducer, Bmp4 is better known for its pleiotropic activities like mesoderm induction and PGC formation. The unexpected synergy between Activin A and Bmp4 that induces endoderm prompted detailed characterization of the differentiation in the presence of either factor singly or together. Gene expression profiles of *TBRA*, *FOXA2*, *SOX17* and *PDX1* suggested that Activin A either used alone or with Bmp4 gave rise to endodermal derivatives though the combination of the two factors always induced higher levels of

differentiation. However, removal of Matrigel from the system abrogated this ability of Activin A to induce endoderm formation. This suggests that a Bmp4-like activity exists in Matrigel that might be mimicking the environment created by the combination of Activin A and Bmp4. An alternative explanation is that Activin A used in the differentiation maintains the pluripotency of the hESCs and only the differentiation signals from Matrigel/ Bmp4 allow it to overcome that block. Another possibility is that Matrigel buffers the EBs against the anti-differentiation activity of IGF in the medium formulation, thereby allowing differentiation to proceed. Delayed and lower level gene expression in free-floating EBs even in the presence of both growth factors also support the observation that removal of Matrigel creates suboptimal conditions for differentiation.

In order to elucidate the mechanism of Activin A + Bmp4 synergy, I investigated the expression of components of the individual signaling pathways. Since Activin is an able mimic of Nodal signaling, it is possible that recombinant Activin activates transcription of genes relevant to DE formation through the phosphorylation of Smad2. Since Smad2 is known to activate *Nodal* directly through the ASE element in the *Nodal* gene, p-Smad2 could increase the endogenous levels of *Nodal* leading to enhanced DE formation. To test this hypothesis, I monitored p-Smad2 levels and expression of target genes. Disappointingly, there seemed to be no specific upregulation of pSmad2 levels as a direct response to Activin addition. Expression analysis of target genes also did not yield any clues to deciphering the mechanism of the Activin A + Bmp4 synergy. Similar analysis of the Bmp4 pathway did not generate significant findings. These results strongly argue that there is no direct impact of Bmp4 on the Activin signaling machinery to influence DE formation. Bmp4 does not seem to facilitate the transduction of the Activin patterning signal either

directly or by enhancing local Nodal signaling. Since Bmp4 is known to have pleiotropic effects in the developing embryo and in ES cells I tested the ability of this growth factor to execute these functions during the differentiation. Using a candidate gene approach, I found that though there was low level expression of some markers, none were significantly high to conclude the presence of any other major cell lineage including trophoblast, mesodermal or primordial germ cell lineages. Since the differentiation only generates between 5-20% PDXI⁺ cells, it is possible that there are other lineages being formed in the differentiating population. Using a candidate gene approach, I determined that neural or mesenchymal cells were also not generated robustly. Curiously, the expression of OTX2 was high in conditions where Activin A was present, suggesting that there is persistence of some epiblast-like cells in the differentiating culture. The studies outlined above suggest that Bmp4 enhances DE formation by Activin A through a novel mechanism. None of my investigations have shed light on a possible mode of action. It is important to note that gene expression analysis was the preferred method of investigation in the studies summarized above, as immunostaining and flow cytometry were extremely difficult to perform on the extracellular matrix-rich EBs.

An entirely different role for Bmp4 was suggested by a recent study using mESCs showed that Activin A and Bmp4 (and bFGF) promoted both hepatocyte differentiation and activation of *Pdx1* from endoderm progenitors (Gouon-Evans *et al.* 2006). Though this indicates a possible role for Bmp4 later in pancreatic development, my focus was on the impact of Bmp4 in the early developmental stages as seen using the three-dimensional Matrigel-based differentiation.

Since none of the above experimental approaches yielded significant clues about the mechanism of the synergy between these growth factors, I chose to obtain a more global view of the differentiation using genetic tools like Microarray technology to analyse gene expression. Expression of genes known to be important for endodermal development established the validity of this technique. Among the various data sets, I chose to look closely at a subset of these genes upregulated on day 4 of differentiation in presence of Activin A alone and Activin A + Bmp4 i.e. conditions that favour endoderm differentiation. In this data set there were numerous genes strongly upregulated which have not been characterized in the context of endoderm formation; some relatively unknown. A few of these genes were chosen for further analysis. Validation of results from the microarray screen was done by (1) in vivo analysis in the mouse embryo using whole mount in situ hybridization after establishing expression in the early mouse embryo by QPCR and (2) in vitro endoderm differentiation of hESCs. Analysis of embryos subjected to WISH revealed tissuerestricted and stage-specific expression of several genes. Irx3 and Nuak1 were expressed in the foregut region which suggests that these might be markers of the definitive endoderm. Though some reports exist that associate these markers with the endoderm, detailed studies are required to characterize these further. Five of the genes- Edg3, Gatm, Homer2, Nuak1 and Rhobtb3 were expressed in the primitive streak, and although not exclusive to DE, may impact the formation of this lineage. Various genetic strategies that will be used to define the role of these genes in the development of DE are outlined in Chapter 5. Several genes like Gatm, Edg3, Irx3 and Rhobtb3 were expressed in neural tissue which indicates that some neural differentiation occurs in the three-dimensional strategy. This is not entirely unexpected as the low efficiency of pancreatic differentiation suggests that other lineages are being formed from the differentiating hESCs. Nr0b1, Apoa1 and Irx3 were expressed in the extraembryonic component of the embryo while *Homer2*

specifically marked the heart. These genes have not been previously associated with the mentioned embryonic regions and might serve as novel markers of the same. *Apoa1* specifically marked the VE and indicates that there is a low percentage of VE formed during differentiation which might be due to Bmp4 signaling. In addition to these genes that showed specific domains of expression, there were others that showed non-specific or no expression. This discrepancy between the expression detected in Q-PCR and in WISH could be due to sub-optimal PCR primers or riboprobes and will be addressed in future experiments.

Genes that showed specific patterns of expression were validated in the hESC differentiation system that confirmed significant induction of most of these genes in presence of both Activin A and Bmp4 compared to the other conditions on day 4. While some were significantly upregulated in the presence of Activin A alone, other showed a similar response to the presence of Bmp4 alone. Interestingly all the genes that showed expression in the early embryo were upregulated during the first 2 days of differentiation with the exception of APOA1 which was only detected later. The gene expression pattern of APOA1 was similar to that of VE-specific markers like AFP, TTR and H19 which are suppressed during the early stages of in vitro differentiation. Though QPCR analysis showed that formation of VE was suppressed during differentiation, it is not entirely eliminated. This is evident from the microarray data as genes like Apoal were upregulated in differentiation conditions that formed endoderm but marked the extraembryonic VE in the mouse embryo. The differentiation creates a synthetic environment by suppressing VE formation. This possibly allows Bmp4, which is restricted to the node, to impact the formation and specification of another lineage like the DE.

Though significant progress has been made in understanding the *in vitro* differentiation programme that generates definitive endoderm from hESCs, an actual mechanism of action for Activin A and Bmp4 is still not obvious. In depth analysis of the microarray data might help to resolve this quest.



INTRODUCTION

The inner cell mass of a developing embryo gives rise to all organs and tissues in the adult vertebrate. Embryonic stem cells are derivatives of the ICM which recapitulate this pluripotent ability in vitro. The isolation of these cells from the developing blastocyst has added a new dimension to the field of regenerative medicine. Various strategies have been proposed and used successfully to differentiate ES cells into derivatives of the three germ layers as part of efforts to develop cell replacement therapy for various diseases or conditions like diabetes, heart disease, Parkinson's disease etc. Our lab aims to derive effective cell therapy reagents by differentiating human embryonic stem cells (hESCs) into mesodermderived cardiomyocytes and definitive endoderm-derived β-like cells. Increasing concerns about the immunogenicity of such therapeutic grafts has focused attention on the development of immunotolerance mechanisms which could prevent outright rejection of the transplant. Immunotolerance can be induced either using a pool of haematopoietic cells to create a state of mixed haematopoietic chimerism in the host or using terminally differentiated dendritic cells (DCs) to induce a state of tolerance towards the donor antigens. Deriving such tolerance-inducing cells from the exact same source (hESCs) as the cardiomyocyte or β -cell graft would help to minimize the immune reaction. Therefore I focused my research efforts on the directed differentiation of hESCs into cells of the haematopoietic and definitive endodermal lineages employing adaptations of various published strategies used to differentiate either mouse or human ES cells.

5.1. Haematopoietic Differentiation

At the time I initiated work on this dissertation, there were few reports of haematopoietic differentiation from hESCs. I sought to obtain the cell types of my interest by a step-wise differentiation of hESCs first into haematopoietic progenitor cells and then into terminally differentiated dendritic-like cells. As described in Chapter 3 of this thesis, I chose to use either stromal feeder cells or prohaematopoietic cytokines which have been shown to support the differentiation and maintenance of haematopoietic cells derived from peripheral blood and/or bone marrow to induce differentiation. Both approaches gave rise to cells of the granulocytic and monocytic lineages marked by the pan leukocyte marker CD45 and the monocyte marker CD14. No erythroid differentiation was detected in any of the conditions. This was not surprising as the successful differentiation strategies were originally reported to promote formation of granulocytic cells. Employing various markers to characterize the cells further I observed that differentiation did not progress much beyond this stage of progenitor cells. Sporadically immature dendriticlike cells expressing CD86 were detected when stromal feeder cells were used for differentiation. However, these did not seem to mature into functional DCs as their marker profile remained unchanged upon stimulation with maturation factors. Though several alternate and additional approaches could be used to refine these differentiations, I limited my investigations to the generation of progenitor cells. These serve as proof-of-principle experiments which show that hESCs could be differentiated into haematopoietic progenitor cells in presence of stromal feeder cells or appropriate cytokines. Recent work in this field, e.g., overexpression of developmentally relevant genes like HOXB4, has led to vast improvements in the generation of functional haematopoietic cells from hESCs.

5.2. Endoderm Differentiation

The major focus of my dissertation work was on the differentiation of hESCs into definitive endodermal cells and further into pancreatic β-like cells. At the time our lab had developed a strategy to differentiate hESCs into PDXI⁺ pancreatic progenitor cells with the sequential use of factors known to 1) promote formation of definitive endoderm and 2) promote differentiation and maturation of these cells into an endocrine fate. In order to characterize the differentiation in detail and to obtain a better understanding of the developmentally relevant events, if any, that occur during the process, I used a candidate gene approach. As detailed in Chapter 4, gene expression studies showed that hESCs rapidly downregulated pluripotency markers and upregulated markers of differentiation when treated with factors like Activin A and Bmp4. Expression of gastrulation and definitive endodermal markers in a sequential manner showed that hESCs were closely mimicking a developmentally relevant pattern during the differentiation. These cells further developed into pancreatic progenitor cells which matured into the endocrine lineage as seen by marker analysis. Differentiation was most efficient in presence of both Activin A and Bmp4 though Activin A alone also seemed to induce endoderm formation. Since a candidate gene approach to define active members of the Activin and Bmp4 signaling pathways did not yield any clues, an overview of gene expression was obtained using microarray technology.

Along with the known and expected genes that showed altered expression, there were numerous genes that were previously not known to be associated with endoderm formation. I investigated the expression of these in the vertebrate embryo using mouse as the model system. Whole mount in situ hybridization studies revealed the varied expression domains of these genes including extraembryonic ectoderm, mesoderm,

endoderm, primitive streak, etc. Expression of these genes was analysed in differentiation samples which validated the microarray data. Five genes– *Edg3*, *Gatm*, *Homer2*, *Nuak1* and *Rhobtb3*— that were expressed in the primitive streak are of interest to our lab as these could impact DE formation. Available data on the mouse knock-out (KO) phenotypes for these genes are given in **Table 5.1**. Future studies involving these four genes will include the following approaches. (1) Analysis of expression in early embryos (E6.5) employing whole mount in-situ hybridisation (2) gain of function studies in independent model systems like *Xenopus* and Zebrafish and (3) loss of function studies in *Xenopus* and Zebrafish.

Though my primary aim was to elucidate a role for Bmp4 in promoting endoderm formation, the gene list (+GF) – (AA), which should have been the most informative, did not highlight many genes of interest (based on the available data from various databases). Hence, I chose to conduct detailed studies on genes upregulated only in conditions favouring endoderm formation which are outlined in this dissertation. There are several clusters of genes that could be investigated further including 1) genes downregulated during endoderm formation, 2) genes differentially expressed between Activin A alone and Activin A + Bmp4 and 3) genes expressed differentially as differentiation progresses. Detailed study of these data could reveal novel genes involved in the negative regulation of endoderm formation. In addition, charaterisation of genes expressed during various stages of differentiation could enhance the study of endoderm development in the embryo.

Ultimately, extensive analysis of the microarray data may provide clues to investigate and reveal a mechanism for the synergy between Activin A and Bmp4 that induces endoderm formation.

Gene Name	Knock-Out Phenotype	Reference
Edg3	lethality/prenatal-perinatal,	Ishii et al. 2001 J Biol Chem
	cardiovascular, reproductive,	Ishii et al. 2002 J Biol Chem
	nervous system, behaviour,	Kono et al. 2004 J Biol Chem
	hearing/vestibular/ear,	
	homeostasis, skin/coat/nails	
Gatm	None	None
Homer2	None	None
Nuak1	None	None
Rhobtb3	None	None

Table 5.1. Available information on knock-out phenotypes in the mouse. Whole mount in-situ hybridization (WISH) of mouse embryos showed the expression of *Edg3*, *Gatm*, *Homer2*, *Nuak1* and *Rhobtb3* in the primitive streak. Since the expression pattern suggests that these might impact DE formation, detailed studies will be performed on the five genes. Currently knock-out (KO) phenotype information is available only for *Edg3* which does not seem to correlate with the primitive streak expression seen in mouse embryos.



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I. Buffers and Gels

Sorenson's Buffer pH 6.8

24.5 ml 0.2M dibasic sodium phosphate 25.5 ml 0.2M monobasic sodium phosphate

Make volume up to 100 ml with distilled water.

Radio Immuno Precipitation Assay (RIPA) Buffer

20 mM Tris, pH 8.0 1 mM EDTA 0.1% NP-40 10% Glycerol 1 mM Sodium orthovanadate (Na₃VO₄₎ 1 mM PMSF 1X Protease Inhibitor (Roche)

Polyacrylamide gels

8% resolving gel (10 ml)

Distilled H ₂ O	4.6 ml
30% Acrylamide	2.7 ml
1.5 M Tris pH 8.8	2.5 ml
10% Sodium Dodecyl Sulphate (SDS)	100 µl
10% Ammonium per Sulphate (APS)	100 µl
Tetramethylethylenediamine (TEMED)	6 µl

Stacking gel (3 ml)

Distilled H ₂ O	2.1 ml
30% Acrylamide	500 μ1
1 M Tris pH 6.8	380 µl
10% SDS	30 μ1
10% APS	30 µl
TEMED	3 ul

Sample buffer- 5X Laemmli Buffer

1 M Tris, pH 6.8	15.6 ml
Glycerol	25 ml
β-mercaptoethanol	12.5 ml

SDS	5 g
Bromophenol Blue	0.05%

Protein Transfer Buffer

For nitrocellulose membranes

Trizma Base	6 g
Glycine	3 g
Methanol	100 ml
10% Triton X	2 ml
10% SDS	2 ml

Make volume up to 1 Litre with distilled water.

For PVDF membranes

Trizma base	6 g
Glycine	3 g
Methanol	100 ml

Make volume up to 1 Litre with distilled water.

Tris Buffered Saline with Tween-20 (TBST)

Tris base	12.1 g
Sodium Chloride (NaCl)	8.76 g
Tween-20	1 ml

Make volume up to 1 Litre with distilled water and adjust pH to 7.4.

Buffers for Whole-mount In Situ Hybridisation

Paraformaldehyde (4%)

Paraformaldehyde	4 g
Phosphate Buffered Saline (P.	BS) 100 ml

In a water bath, warm solution to 65°C to dissolve the powder.

Phosphate Buffered Saline with Tween-20 (PBT)

10x PBS	100 ml
Tween-20	1 ml
H_2O	898 ml
DEPC	1 ml

Stir for 12 hours and autoclave.

Hybridisation solution

Deionised Formamide	250 ml
20x SSC (DEPC)	125 ml
Tween-20	500 μl
20% SDS	2.5 ml
50 mg/ml Heparin (in 4x SSC)	0.5 ml
10 mg/ml Yeast tRNA	2.5 ml
1 M Citric acid	30 ml

Make volume up to 500 ml with DEPC-treated distilled water.

Solution I

Formamide	75 ml
20x SSC	37.5 ml
1 M Citric acid	9 ml
20% SDS	7.5 ml
DEPC- H ₂ O	21 ml

Solution II

Formamide	75 ml
20x SSC	15 ml
1 M Citric acid	3.6 ml
20% SDS	1.5 ml
Tween-20	150 μl
DEPC- H ₂ O	55 ml

200 mM Levamisole (100x)

Dissolve 0.5 g Levamisole in 10 ml H₂O.

MAB buffer

Maleic Acid	11.61 g
NaCl	17.4 g
Sodium Hydroxide (NaOH) pellets	7 g
Tween-20	1 ml

Adjust pH to 7.5 using NaOH pellets and 5M NaOH. Add $1\%\ v/v\ 100x$ Levamisole prior to use.

Boehringer Mannheim Blocking Reagent (BBR) (2%)

Boehringer blocking reagent (DIG detection kit) 1 g MAB 50 ml

Heat solution to 70°C to dissolve powder. Add 1% v/v Levamisole prior to use.

Alkaline Phosphatase (NTMT) Buffer

 1 M Tris-HCl pH 9.5
 10 ml

 5 M NaCl
 2 ml

 1 M MgCl2
 5 ml

 Tween-20
 0.1 ml

 H2O
 82.9 ml

Add 1% v/v 100x Levamisole prior to use.

II. PCR Primer Sequences

HUMAN Q-PCR		
PRIMERS	FORWARD	REVERSE
ACTIN	caatgtggccgaggactttg	cattctccttagagagaagtgg
PDX1	cctttcccatggatgaagtc	ggaacteetteteeageteta
NGN3	ctattcttttgcgccggtag	ctccctcttccgcctctg
INSULIN	ggggaacgaggcttcttcta	cacaatgccacgcttctg
PTF1A	tgagtttgtgtcctgagaagtcc	acatgtacaatatgcacagagacataa
BRACHYURY	aattggtccagccttggaat	cgttgctcacagaccacag
FOXA2	ggagcggtgaagatggaa	tacgtgttcatgccgttcat
SOX17	cagaatccagacctgcacaa	ctctgcctcctccacgaa
OCT4	ggcaacctggagaatttgtt	gccggttacagaaccacact
NANOG	tacctcagcctccagcagat	tgcgtcacaccattgctatt
TTR	tagatgctgtccgaggcagt	ccatgcagctctccagactc
AFP	gtagcgctgcaaacaatgaa	tccaacaggcctgagaaatc
ALBUMIN	tcagctctggaagtcgatga	ttcacgagetcaacaagtge
H19	ttacttcctccacggagtcg	gctgggtagcaccatttctt
NODAL	agggcgagtgtcctaatcct	caacaagtggaagggactcg
CRIPTO	agatggcccgcttctctta	gagatggacgagcaaattcc
LEFTY2	aggttcagccagagcttcc	caccagcaggtgtgtgct
ID2	atatcagcatcctgtccttgc	aaagaaatcatgaacaccgctta
FRAGILIS	ccctgttcaacaccctcttc	gccaaccatcttcctgtcc
BLIMP1	acgtgtgggtacgaccttg	ctgccaatccctgaaacct
STELLA	gttactgggcggagttcgta	tgaagtggcttggtgtcttg
SPC4	ggtggtacagacctcgaagc	gccatatgagtggctcacttt
FGFR2	cctgcggagacaggtaacag	cggggtgttggagttcat
BMP4	ctgcaaccgttcagaggtc	tgctcgggatggcactac
CDX2	atcaccatccggaggaaag	tgcggttctgaaaccagatt
ELF5	cctcctctttggacctagcc	acatcaggggatcgcaga
<i>ESRRB</i>	agagaggcaggcagatctca	gtgagccagagatgctttcc
CSH2	tagaggaaggcatccaaacg	tcagcgccttactgctaaaa
SCL (TAL-1)	cctatgagatggagattactgatgg	gtgtggggatcagcttgc
PU.1	caggggatctgaccgactc	aggtcttctgatggctgagg
VWF	agtgcagacccaacttcacc	gtggggacactcttttgcac
VIMENTIN	aaagtgtggctgccaagaac	agcctcagagaggtcagcaa
NESTIN	gccctgaccactccagttta	ggagtcctggatttccttcc
TUBB4	gcggatcagcgtctactaca	atgtccaaaggcccctgag
APOA1	ccttgggaaaacagctaaacc	ccagaactcctgggtcaca
EDG3	tgatgagatgaaacctatttgtaagg	caagaaggcaacagaaatgct
GATM	tgaccgaccatgtcacca	ggatgatcgtctgggatga
HOMER2	gacctcaagtaatcattcccaag	tgagaggccttttcatcgtc
IRX3	aaaagttactcaagacagctttcca	ggatgaggagagccgata
NR0B1	aagccatcaagtgctttctttc	cctgaatgtacttcacgcactg
NUAK1	gtcaatgggagaccttaccg	ccataaacaagagtgtaaagcaaca
RHOBTB3	gccgatgttgtcttcgaaat	ggctgccatcacttcacaa
GSC	gcgaggagaaagtggaggt	egtteteegacteetetgat
ID3	catctccaacgacaaaaggag	cttccggcaggagaggtt
ID1	ccagaaccgcaaggtgag	ggtcctgatgtagtcgatga
OTX2	ctggctatttggaatttaaaggat	ggtttggagcagtggaactt

SOX1 gagattcatctcaggattgagattcta ggcctactgtaatcttttctccact SOX2 ttgctgcctctttaagactagga ctggggctcaaacttctctc MSX1 ctcgtcaaagccgagagc cggttcgtcttgtgtttgc MSX2 caggtggtagggctcatatgtc tcggaaaattcagaagatgga SMAD6 tgcaacccctaccacttca cgaggagacagccgagagt SMAD7 cgatggattttctcaaaccaa attcgttcccctgtttca FLK1 gaacatttgggaaatctcttgc cggaagaacaatgtagtctttgc GATA-1 cactgagettgecacatee atggagcctctggggatta GATA-2 aaggctcgttcctgttcaga ggcattgcacaggtagtgg **B-GLOBIN** acacaactgtgttcactagc agtgatgggccagcacacag HOXB4 tggatgcgcaaagttcac gaaatteetteteeageteea MIXL1 ggtaccccgacatccactt gcctgttctggaaccatacct

MOUSE Q-PCR PRIMERS

Amhr2 cccaacatcccatccact cttccaggagctccctcag tctgcaagtggccaaacc Ankkd1a tgtggacgacgtggactc tgaacccagagtgtcccagt Apoaltatgtggatgcggtcaaaga Apoc1tgggaacactttggaagaca actttgccaaatgcctctga Bhlhb5 acacttgcagggcaaacaa gaatgtccggtttgtctctga *C6orf60* ccaaagagcccaagacattt gggtctggagaagccactg Calcr agaactggagttgggctcac ggttccttctcgtgaacaggt cacagetegetgacacetaa Cmkor1 cagccacatgtccatcagac Col9a2 agggcagtgcaggacaagt teettttgtteeaggetgae Ddit4l gagcaagatccactttgccta aggcgggtacaataacagca Edg3agatgcgccttgcagaac agagtggtggttcct Flj23514 gagctctttgtgcagcaagtt agttgatggaccgcttgg Gatm ttttcaagaaagcaggatgga tgacatccagaggggatgat Has2 ggcggaggacgagtctatg acacatagaaacctctcacaatgc Homer2 ggaacagctatcggatcatca tcggggtgatagtgctgttt *Irx3* aaaagttactcaagacagctttcca cgatttaaaaatggttgaaaagttaag Kcnf1 caacaagettecaggtacage gttcaaagccattttgtggatt Lrrc3 accccgacttgagtgttcc gagccatgtggcaaaaataaa Manea agatgatcaaaacatgcatcaaa gcccagtcctggtcttgtat Mgst2 acatatacgcccgtcacaagta cagtcggaaaccggtgat Myct1 tgggaatgaaaaccgttcc gccaaacagctaaatgaacca Nppb gtcagtcgtttgggctgtaac agacccaggcagagtcagaa Nr0b1accgtgctctttaacccaga ccggatgtgctcagtaagg Nuak1 ccttaccgagggccagag gaagggcatcgttccataaa Pcdh7 tgtatggatgtacacgcatctg ctaccaccagccaacacattt Rcor3 agtcctgtttgaacaagccttt tgcaattgtcttatctggaagc Rhobtb3 cagctccttccatgggatt tgatgcctcagctttcaaga S100a14 atgggacagtgtcggtcag gtgtctcaatggccctctct Slc5a9 ccacattgctggacattagaga agtcgagggaccgttggt Slco2a1 ctttatgggatgttccacacc ggctgcggatgtatagaacttg

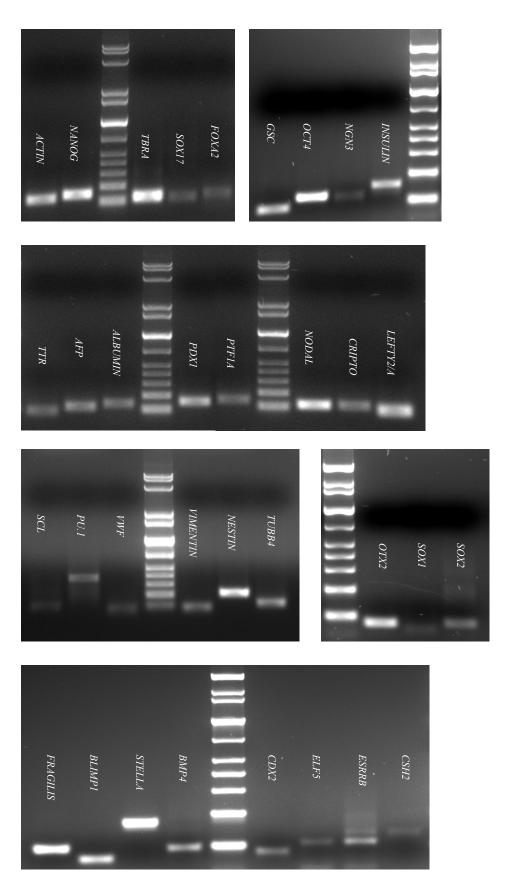
MOUSE 3' UTR PRIMERS

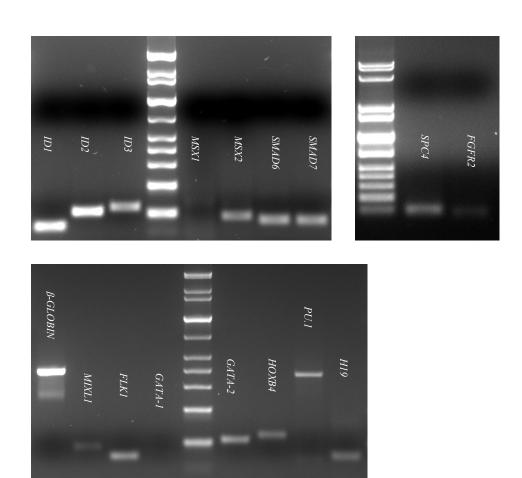
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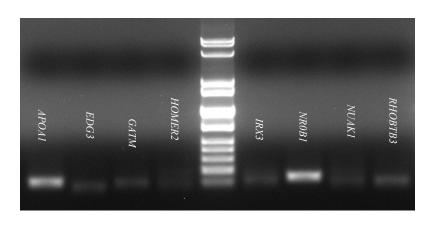
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Gel Images

Q-PCR products resolved on 2% Agarose gels to confirm product sizes. The lowest band on the 1kb plus DNA Ladder used is 100bp.







III. Microarray Gene Lists

Intersect of (d4AA and d4+GF)

	Fold		<u> </u>	T
Gene Name	Change	Common	Genbank	Description cytochrome P450, family 26, subfamily A,
CYP26A1	90.12	CP26; CYP26; P450RAI; P450RAI1	NM_000783	polypeptide 1
EOMES	81.1	TBR2	NM_005442	eomesodermin homolog (Xenopus laevis)
		FB22; HM89; LAP3; LCR1; NPYR; WHIM; CD184; LESTR; NPY3R; NPYRL; HSY3RR; NPYY3R;		
CXCR4	79.35	D2S201E	NM 003467	chemokine (C-X-C motif) receptor 4
		FB22; HM89; LAP3; LCR1; NPYR; WHIM; CD184;	_	
CXCR4	74.17	LESTR; NPY3R; NPYRL; HSY3RR; NPYY3R; D2S201E	NIM 001009540	shomelying (C. V. C. motif) recentor 4
CACK4	/4.1/	D2S201E	NM_001008540	chemokine (C-X-C motif) receptor 4 cerberus 1, cysteine knot superfamily,
CER1	71.97	DAND4; MGC96951; MGC119894; MGC119895	NM_005454	homolog (Xenopus laevis)
FOXA2	71.79	HNF3B; TCF3B; MGC19807	NM_021784	forkhead box A2
APOA2 FGF17	65.95 61.28	APOA2 FGF-13	NM_001643 NM_003867	apolipoprotein A-II fibroblast growth factor 17
SOX17	54.05	FLJ22252	NM 022454	SRY (sex determining region Y)-box 17
				cytochrome P450, family 26, subfamily A,
CYP26A1	52.32	CP26; CYP26; P450RAI; P450RAI1	NM_057157	polypeptide 1
GYPE CCKBR	52.25 43.4	GPE; MNS; MiIX GASR; CCK-B	NM_002102 NM_176875	glycophorin E cholecystokinin B receptor
FLJ23514	43.05	FLJ16339; FLJ23514	NM 021827	coiled-coil domain containing 81
FREM1	41.77	QBRICK; C9orf154; FLJ25461; RP11-439N12.3	NM_144966	FRAS1 related extracellular matrix 1
		SS; GPB; MNS; GYPA; CD235b; GPB.NY;		
GYPB APOA1	39.64 33.79	GYPHe.NY MGC117399	NM_002100 NM_000039	glycophorin B (MNS blood group) apolipoprotein A-I
FOXQ1	31.93	HFH1	NM 033260	forkhead box Q1
10.101	31.75		1111_033200	leucine-rich repeats and immunoglobulin-like
LRIG3	31.01	FLJ26573; FLJ90440; KIAA3016	NM_153377	domains 3
FRZB	30.38	FRE; FZRB; hFIZ; FRITZ; FRP-3; FRZB1; SFRP3; SRFP3; FRZB-1; FRZB-PEN	NM 001463	frizzled-related protein
MIXL1	27.57	MIX; MIXL; MILD1; MGC138179	NM 031944	Mix1 homeobox-like 1 (Xenopus laevis)
		,,		solute carrier organic anion transporter family,
SLCO2A1	27.55	PGT; OATP2A1; SLC21A2	NM_005630	member 2A1
GSC EPSTI1	26.62 26.6	GSC BRESI1; MGC29634	NM_173849 NM_033255	goosecoid epithelial stromal interaction 1 (breast)
TMOD1	25.98	TMOD; ETMOD; D9S57E	NM 003275	tropomodulin 1
				fibronectin leucine rich transmembrane
FLRT3	22.63	FLRT3	NM_013281	protein 3
NPPB VWF	22.17 20.32	BNP VWD; F8VWF	NM_002521 NM_000552	natriuretic peptide precursor B von Willebrand factor
CALCR	19.91	CRT; CTR; CTR1	NM 001742	calcitonin receptor
GRP	19.53	BN; GRP-10; proGRP; preproGRP	NM_002091	gastrin-releasing peptide
OTX2	18.26	MCOPS5; MGC45000	NM_172337	orthodenticle homolog 2 (Drosophila)
DACT2	18.04	DAPPER2; C6orf116; FLJ31232; MGC133141; MGC133142; bA503C24.7; RP11-503C24.7	NM 214462	dapper, antagonist of beta-catenin, homolog 2 (Xenopus laevis)
LHX1	16.62	LIM1; LIM-1; MGC126723; MGC138141	NM 005568	LIM homeobox 1
CRIP1	16.6	CRHP; CRIP; CRP1	NM_001311	cysteine-rich protein 1 (intestinal)
		AIDA; EB-1; ANKS2; AIDA-1; MGC26087; cajalin-		ankyrin repeat and sterile alpha motif domain
ANKS1B PDZK1	14.81 14.4	2 CAP70; CLAMP; PDZD1	NM_181670 NM_002614	containing 1B PDZ domain containing 1
CPE	13.44	CPE	NM 001873	carboxypeptidase E
COL9A2	13.26	MED; EDM2; DJ39G22.4	NM_001852	collagen, type IX, alpha 2
BMP2	13.1	BMP2A	NM_001200	bone morphogenetic protein 2
RHOBTB3	12.5	KIAA0878	NM_014899	Rho-related BTB domain containing 3 v-erb-a erythroblastic leukemia viral oncogene
ERBB4	12.35	HER4; MGC138404; p180erbB4	NM 005235	homolog 4 (avian)
MGST2	12.28	GST2; MGST-II; FLJ27438; MGC14097	NM_002413	microsomal glutathione S-transferase 2
HHEX	12.07	HEX; PRH; HMPH; PRHX; HOX11L-PEN	NM_002729	homeobox, hematopoietically expressed
ST8SIA4	12.03	PST; PST1; SIAT8D; MGC34450; MGC61459; ST8SIA-IV	NM 175052	ST8 alpha-N-acetyl-neuraminide alpha-2,8- sialyltransferase 4
C6ORF60	12.03	FLJ13942	NM_024581	chromosome 6 open reading frame 60
C1ORF61	11.95	CROC4; FLJ38303; RP11-139I14.3	NM_006365	chromosome 1 open reading frame 61
ROR2	11.53	BDB; BDB1; NTRKR2	NM_004560	receptor tyrosine kinase-like orphan receptor 2
HP	11.44	MGC111141; hp2-alpha	NM_005143	haptoglobin endothelial differentiation, sphingolipid G-
EDG3	11.39	LPB3; S1P3; EDG-3; S1PR3; FLJ37523; MGC71696	NM_005226	protein-coupled receptor, 3
KCNK12	11.39	THIK2; THIK-2	NM_022055	potassium channel, subfamily K, member 12
CMKOR1	11.11	RDC1; GPR159	NM_020311	chemokine orphan receptor 1 potassium voltage-gated channel, subfamily
KCNG1	10.63	K13; kH2; KCNG; KV6.1; MGC12878	NM 002237	G, member 1
OXTR	10.54	OT-R	NM_000916	oxytocin receptor
COLEC12	10.43	CLP1; NSR2; SRCL; SCARA4	NM_130386	collectin sub-family member 12
GATA4 ACOX3	10.41 10.39	MGC126629 HBA2	NM_002052 NM_003501	GATA binding protein 4 acyl-Coenzyme A oxidase 3, pristanoyl
HAS2	10.39	MGC126241; MGC126242	NM_005328	hyaluronan synthase 2
LEPREL1	10.25	P3H2; MLAT4; FLJ10718	NM_018192	leprecan-like 1
OTX2	10.12	MCOPS5; MGC45000	NM_021728	orthodenticle homolog 2 (Drosophila)
MYL7	10.05	MYL2A; MYLC2A	NM_021223	myosin, light polypeptide 7, regulatory

	1	1	ī	L. Barris Ballin Laura Ballin dannatin acceptation
BHLHB5	9.742	Beta3; CAGL85; TNRC20	NM 152414	basic helix-loop-helix domain containing, class B, 5
17.110	0.66	ACTION TO THE COLUMN TO THE CO		ADAM metallopeptidase domain 19 (meltrin
ADAM19 MFAP4	9.66 9.529	MLTNB; FKSG34; MADDAM MFAP4	NM_033274 NM_002404	beta) microfibrillar-associated protein 4
WII AI 4	7.527	WILALT	1111_002404	glycine amidinotransferase (L-
GATM	9.516	AGAT	NM_001482	arginine:glycine amidinotransferase)
LEFTY2 MXRA5	9.403 9.365	EBAF; LEFTA; TGFB4; LEFTYA; MGC46222 DKFZp564I1922	NM_003240 NM_015419	left-right determination factor 2 matrix-remodelling associated 5
WIAKAS	9.303	DKFZp30411922	NWI_013419	ankyrin repeat and death domain containing
ANKDD1A	9.185	FLJ25870; MGC120305; MGC120306; MGC120307	NM_182703	1A
FZD8	9.061	FZ-8; hFZ8	NM_031866	frizzled homolog 8 (Drosophila)
ST8SIA4	9.055	PST; PST1; SIAT8D; MGC34450; MGC61459; ST8SIA-IV	NM 005668	ST8 alpha-N-acetyl-neuraminide alpha-2,8- sialyltransferase 4
AMHR2	8.828	AMHR; MISRII	NM_020547	anti-Mullerian hormone receptor, type II
AGTRL1	8.811	APJ; FLJ90771; MGC45246	NM_005161	angiotensin II receptor-like 1
KRT19 C1ORF97	8.679	K19; CK19; K1CS; MGC15366	NM_002276	keratin 19
HLXB9	8.674 8.43	FLJ27347; FLJ27348; MGC14801; RP11-318L16.3 HB9; SCRA1; HOXHB9	NM_032705 NM_005515	chromosome 1 open reading frame 97
SFRP1	8.336	FRP; FRP1; FrzA; FRP-1; SARP2	NM 003012	secreted frizzled-related protein 1
S100A14	8.249	BCMP84; S100A15	NM_020672	S100 calcium binding protein A14
TMEM46	8.239	C13orf13; PRO28631; WGAR9166; bA398O19.2 CXorf2; SLITL1; KIAA1854; MGC129912;	NM_001007538	transmembrane protein 46
SLITRK2	8.22	MGC129913; DKFZp451E1911	NM 032539	SLIT and NTRK-like family, member 2
DIO3	8.202	D3; 5DIII; TXDI3; DIOIII	NM_001362	deiodinase, iodothyronine, type III
RNASE1	8.176	RIB1; RNS1; MGC12408	NM_198232	ribonuclease, RNase A family, 1 (pancreatic)
FOXA1	8.161 8.042	HNF3A; TCF3A; MGC33105	NM_004496	forkhead box A1
GATA6 STMN2	7.99	GATA6 SCG10; SGC10; SCGN10	NM_005257 NM_007029	GATA binding protein 6 stathmin-like 2
DDIT4L	7.93	REDD2; Rtp801L	NM_145244	DNA-damage-inducible transcript 4-like
LRRC3	7.757	C21orf102	NM_030891	leucine rich repeat containing 3
SERHL2	7.715	MGC149508; dJ222E13.1	NM_014509	serine hydrolase-like 2
MYCT1	7.469	MTLC; FLJ21269	NM_025107	myc target 1 potassium voltage-gated channel, subfamily F,
KCNF1	7.426	IK8; kH1; KCNF; KV5.1; MGC33316	NM_002236	member 1
APOC1	7.089	TOMM40	NM_001645	apolipoprotein C-I
S100Z	7.039	Gm625; S100-zeta	NM_130772	S100 calcium binding protein Z
TDRD7	7.003	TRAP; KIAA1529; PCTAIRE2BP; RP11-508D10.1	NM_014290	tudor domain containing 7 solute carrier family 5 (sodium/glucose
SLC5A9	6.982	SGLT4; MGC132517; MGC132523	NM 001011547	cotransporter), member 9
				G protein-coupled receptor 37 (endothelin
GPR37	6.865	PAELR; EDNRBL; hET(B)R-LP	NM_005302	receptor type B-like)
SEMA3E	6.862	SEMAH; coll-5; M-SEMAH; M-SemaK; KIAA0331; M-sema H	NM 012431	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3E
DENII DE	0.002	AHC; AHX; DSS; GTD; HHG; AHCH; DAX1;	1111_012131	nuclear receptor subfamily 0, group B,
NR0B1	6.818	DAX-1; NROB1	NM_000475	member 1
H2AFY2	6.816	macroH2A2 G6NT; C2GNT; C2GNT1; NACGT2; NAGCT2;	NM_018649	H2A histone family, member Y2 glucosaminyl (N-acetyl) transferase 1, core 2
GCNT1	6.778	C2GNT-L; MGC126335; MGC126336	NM 001490	(beta-1,6-N-acetylglucosaminyltransferase)
MANEA	6.673	hEndo; FLJ12838; DKFZp686D20120	NM_024641	mannosidase, endo-alpha
MATN3	6.615	HOA; EDM5	NM_002381	matrilin 3
MAPK10	6.484	JNK3; JNK3A; PRKM10; p493F12; FLJ12099; FLJ33785; MGC50974; p54bSAPK	NM 138980	mitogen-activated protein kinase 10
FZD5	6.444	HFZ5; C2orf31; MGC129692; DKFZP434E2135	NM 003468	frizzled homolog 5 (Drosophila)
			_	SMAD, mothers against DPP homolog 6
SMAD6 DNMT3L	6.434	MADH6; MADH7; HsT17432	NM_005585	(Drosophila)
DNM13L	6.399	MGC1090	NM_175867	DNA (cytosine-5-)-methyltransferase 3-like elongation of very long chain fatty acids
ELOVL2	6.307	Ssc2; FLJ20334	NM_017770	(FEN1/Elo2, SUR4/Elo3, yeast)-like 2
ITGA9	6.086	RLC; ITGA4L; ALPHA-RLC	NM_002207	integrin, alpha 9
IRX3	6.079	IRX-1	NM_024336 NM_002589	iroquois homeobox protein 3
PCDH7	0.00	BHPCDH; BH-Pcdh EVR1; FEVR; Fz-4; FzE4; GPCR; FZD4S;	NM_002589	BH-protocadherin (brain-heart)
FZD4	5.91	MGC34390	NM_012193	frizzled homolog 4 (Drosophila)
FNIGA		Name agree as a second		ectodermal-neural cortex (with BTB-like
ENC1 IL18R1	5.788 5.695	NRPB; CCL28; ENC-1; PIG10; TP53I10; FLJ39259 IL1RRP; CDw218a; IL-1Rrp	NM_003633 NM_003855	domain) interleukin 18 receptor 1
VIPR2	5.695	VPAC2; FLJ16511	NM_003855 NM_003382	vasoactive intestinal peptide receptor 2
CLDN1	5.652	CLD1; SEMP1; ILVASC	NM_021101	claudin 1
RCOR3	5.644	FLJ10876; RP11-318L16.1	NM_018254	REST corepressor 3
EPHA4	5.634	SEK; HEK8; TYRO1	NM_004438	EPH receptor A4
ANKRD1	5.631	ALRP; CARP; C-193; CVARP; MCARP; bA320F15.2	NM 014391	ankyrin repeat domain 1 (cardiac muscle)
HAS2	5.625	MGC126241; MGC126242	NM_005328	hyaluronan synthase 2
NUAK1	5.586	ARK5; KIAA0537	NM_014840	NUAK family, SNF1-like kinase, 1
C9ORF66	5.479	FLJ31158; RP11-5906.1	NM_152569 NM_108552	chromosome 9 open reading frame 66
FAM89A	5.416	C1orf153; MGC15887; RP11-423F24.2 CPD; ACPD; Vesl-2; HOMER-2; HOMER2A;	NM_198552	family with sequence similarity 89, member A
HOMER2	5.415	HOMER2B	NM_004839	homer homolog 2 (Drosophila)
SP8	5.384	BTD	NM_182700	Sp8 transcription factor
CDH2	5.362	CDBY: CDBY: CDBYP	NM_001792	cadherin 2, type 1, N-cadherin (neuronal)
ARSE COL4A6	5.355 5.35	CDPX; CDPX1; CDPXR MGC88184	NM_000047 NM_001847	arylsulfatase E (chondrodysplasia punctata 1) collagen, type IV, alpha 6
PRSS2	5.328	TRY2; TRY8; TRYP2; MGC111183; MGC120174	NM_002770	protease, serine, 2 (trypsin 2)
				ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-
STACALNIA CO	5 200	CTIIM, CIATT, CIATTD, CIATI 1 CTCC BIAT	NIM 000450	galactosyl-1,3)-N-acetylgalactosaminide
ST6GALNAC2 TNNC1	5.298 5.287	STHM; SIAT7; SIAT7B; SIATL1; ST6GalNAII TNC; TNNC	NM_006456 NM_003280	alpha-2,6-sialyltransferase 2 troponin C type 1 (slow)
VIL1	5.262	VIL; D2S1471	NM_007127	villin 1
CST1	5.257	CST4	NM_001898	cystatin SN
SP5	5.212	FAM5B	NM_001003845	Sp5 transcription factor
MGC39900	5.183	MGC39900	NM_194324	hypothetical protein MGC39900 amylo-1, 6-glucosidase, 4-alpha-
	•		1	
				glucanotransferase (glycogen debranching

ARHGAP28	5.147	FLJ10312; DKFZp686A2038	NM_001010000	Rho GTPase activating protein 28
				solute carrier family 2 (facilitated glucose
SLC2A14	5.12	GLUT14	NM_153449	transporter), member 14
BHLHB2	5.119	DEC1; STRA13; Stra14; SHARP-2	NM 003670	basic helix-loop-helix domain containing, class B, 2
CA2	5.084	CAII; Car2; CA II; CA-II	NM 000067	carbonic anhydrase II
CAL	3.004	CAII, Cai2, CA II, CA-II	NW_000007	SWI/SNF related, matrix associated, actin
				dependent regulator of chromatin, subfamily
SMARCD3	5.036	Rsc6p; BAF60C; CRACD3; MGC111010	NM 003078	d, member 3
IGFBP5	5.006	IBP5	NM_000599	insulin-like growth factor binding protein 5
BCAR3	4.949	NSP2; SH2D3B; KIAA0554	NM_003567	breast cancer anti-estrogen resistance 3
COL4A5	4.922	ATS; ASLN; CA54; MGC42377	NM_033381	collagen, type IV, alpha 5 (Alport syndrome)
ARL4D	4.909	ARL6; ARF4L	NM_001661	ADP-ribosylation factor-like 4D
				olfactory receptor, family 52, subfamily A,
OR52A1	4.869	HPFH1OR	NM_012375	member 1
CNTNAP2	4.851	CDFE; NRXN4; CASPR2; DKFZp781D1846	NM_014141	contactin associated protein-like 2
LZTS1	4.844	F37; FEZ1	NM_021020	leucine zipper, putative tumor suppressor 1
FLJ38451	4.844	FLJ38451; MGC117233; MGC119731	NM_175872	zinc finger protein 792
SAMD11 EYA2	4.838 4.837	MGC45873 EAB1; MGC10614	NM_152486 NM 172112	sterile alpha motif domain containing 11 eyes absent homolog 2 (Drosophila)
MOBP	4.837	EAB1; MGC10614	NM 1/2112 NM 006501	eyes absent nomolog 2 (Drosophila)
WODI	4.754		INIVI_000301	NADH dehydrogenase (ubiquinone) 1 alpha
LOC56901	4.764	NUOMS; FLJ26118	NM 020142	subcomplex, 4-like 2
LOCSOSOI	4.704	RS; RGS; ARP1; Brx1; IDG2; IGDS; IHG2; PTX2;	14141_020142	Subcomplex, 4-like 2
		RIEG; IGDS2; IRID2; Otlx2; RIEG1; MGC20144;		paired-like homeodomain transcription factor
PITX2	4.762	MGC111022	NM 153426	2
ARMC7	4.76	FLJ22160	NM 024585	armadillo repeat containing 7
		FJHN; HNF2; LFB3; HNF1B; MODY5; VHNF1;	_	transcription factor 2, hepatic; LF-B3; variant
TCF2	4.734	HNF1beta	NM_000458	hepatic nuclear factor
CAPN12	4.734	MGC20576	NM_144691	calpain 12
KEL	4.705	ECE3; CD238	NM_000420	Kell blood group, metalloendopeptidase
		SMAP-8; FLJ30586; FLJ42011; KIAA1180;		
NDRG4	4.678	MGC19632; DKFZp686I1615	NM_022910	NDRG family member 4
EDW024		Fbx34; CGI-301; FLJ20725; MGC126434;	ND 6 0150 12	F1
FBXO34	4.653	MGC126435; DKFZp547C162	NM_017943	F-box protein 34
LAMA1	4.644	LAMA	NM_005559	laminin, alpha 1 opposite strand transcription unit to STAG3
GATS	4.617	GATS; DKFZp686B07267	NM_178831	
JUP	4.608	DP3; PDGB; PKGB; CTNNG; DPIII	NM_021991	junction plakoglobin
GPX2	4.607 4.592	LEFTB; LEFTYB	NM_020997 NM_002083	left-right determination factor 1 glutathione peroxidase 2 (gastrointestinal)
AJAP1	4.592	GPRP; GI-GPx; GSHPx-2; GSHPX-GI MOT8; SHREW1; SHREW-1; RP3-426F10.1	NM 018836	adherens junction associated protein 1
SPHK2	4.531	DBP	NM 020126	sphingosine kinase 2
RARB	4.499	HAP; RRB2; NR1B2	NM 000965	retinoic acid receptor, beta
LIFR	4.494	SWS; SJS2; STWS; CD118	NM 002310	leukemia inhibitory factor receptor alpha
Lii ii		5 11 5, 50 52, 51 11 5, 65 110	1111_002310	v-kit Hardy-Zuckerman 4 feline sarcoma viral
KIT	4.457	SCFR; C-Kit; CD117	NM 000222	oncogene homolog
C5	4.457	CPAMD4; MGC142298	NM 001735	complement component 5
		CED12; CED-12; ELMO-1; KIAA0281;		· ·
ELMO1	4.435	MGC126406	NM_014800	engulfment and cell motility 1
TSPAN12	4.397	NET-2; TM4SF12	NM_012338	tetraspanin 12
DSCR6	4.357	RIPPLY3	NM_018962	Down syndrome critical region gene 6
				ATP-binding cassette, sub-family C
ABCC4	4.348	MRP4; MOATB; MOAT-B; EST170205	NM_005845	(CFTR/MRP), member 4
1.0.1.012	4.220	CDID1 CALECTRI 12	ND 6 022101	lectin, galactoside-binding, soluble, 12
LGALS12 PDZK1	4.328 4.323	GRIP1; GALECTIN-12 CAP70; CLAMP; PDZD1	NM_033101 NM_002614	(galectin 12) PDZ domain containing 1
DUSP4	4.323	TYP; HVH2; MKP2; MKP-2	NM 001394	dual specificity phosphatase 4
PRSS1	4.311	TRP1; TRY1; TRY4; TRYP1; MGC120175	NM 002769	protease, serine, 1 (trypsin 1)
TROOT	7.51	1Ki i, 1Ki i, 1Ki i, 1Ki i i, MGC1201/3	TVIVI_002707	ST8 alpha-N-acetyl-neuraminide alpha-2,8-
ST8SIA1	4.275	GD3S; SIAT8; SIAT8A; ST8SiaI; ST8Sia I	NM 003034	sialyltransferase 1
STOSHII	4.275	GD55, SETTO, SETTOTI, STOSIAI, STOSIAI	1111_003034	phospholipase C, gamma 2
PLCG2	4.209	PLCG2	NM 002661	(phosphatidylinositol-specific)
NBLA10383	4.199	FLJ36674; MGC33988; NBLA10383	NM 173622	CMT1A duplicated region transcript 4
			_	sortilin-related VPS10 domain containing
SORCS1	4.189	FLJ41758; FLJ43475; FLJ44957	NM_001013031	receptor 1
		4F2; CD98; MDU1; 4F2HC; 4T2HC; NACAE;		solute carrier family 3 (activators of dibasic
SLC3A2	4.148	CD98HC	NM_001013251	and neutral amino acid transport), member 2
NOG	4.144	SYM1; SYNS1	NM_005450	noggin
MGC13057	4.118	MGC13057	NM_032321	hypothetical protein MGC13057
MCC	4.106	MCC1; FLJ46755	NM_002387	mutated in colorectal cancers
SAMD3	4.105	FLJ34563; MGC35163	NM_001017373	sterile alpha motif domain containing 3
EPHB3	4.076	ETK2; HEK2; TYRO6	NM_004443	EPH receptor B3
CUGBP2	4.03	ETR-3; NAPOR; BRUNOL3	NM_006561	CUG triplet repeat, RNA binding protein 2
WDD22	4.029	BCRG2; BCRP2; KIAA1824; D14S1461E;	NIM 002071	WD report domain 22
WDR22		DKFZp434A035 MGC129839	NM_003861	WD repeat domain 22 WD repeat domain 86
LOC349136 RNASE4	3.988 3.976	MGC129839 RNS4; MGC9306	NM_198285 NM_194430	ribonuclease, RNase A family, 4
KNA5E4	3.976	KIN54, IVIOC9500	INIVI_19443U	family with sequence similarity 18, member
FAM18B2	3.966	MGC8763	NM 145301	B2
. / 11/11/01/2	3.700	RNPC6; FLJ26355; FLJ30829; FLJ37697;	1111_173301	22
RBM24	3.959	dJ259A10.1	NM 153020	RNA binding motif protein 24
	3.,2,			hypothetical gene supported by AK075564;
LOC400451	3.943	LOC400451; MGC102891	NM_207446	BC060873
		AIDA; EB-1; ANKS2; AIDA-1; MGC26087; cajalin-		ankyrin repeat and sterile alpha motif domain
ANKS1B	3.939	2	NM_020140	containing 1B
-				solute carrier family 35 (UDP-N-
				acetylglucosamine (UDP-GlcNAc)
		DKFZp781P1297	NM_012243	transporter), member A3
SLC35A3	3.938			
SLC35A3 PLCE1	3.938 3.938	PLCE; FLJ23659; KIAA1516	NM_016341	phospholipase C, epsilon 1
PLCE1	3.938	FLJ14927; FLJ22031; KIAA1500;		
PLCE1 FRAS1	3.938 3.922	FLJ14927; FLJ22031; KIAA1500; DKFZp686I05113; DKFZp686P08111	NM_025074	Fraser syndrome 1
PLCE1 FRAS1 RGS11	3.938 3.922 3.886	FLJ14927; FLJ22031; KIAA1500; DKFZp686I05113; DKFZp686P08111 RS11	NM 025074 NM 183337	Fraser syndrome 1 regulator of G-protein signalling 11
PLCE1 FRAS1	3.938 3.922	FLJ14927; FLJ22031; KIAA1500; DKFZp686105113; DKFZp686P08111 RS11 KREV; RAP2; K-REV; RbBP-30	NM_025074	Fraser syndrome 1
PLCE1 FRAS1 RGS11 RAP2A	3.938 3.922 3.886 3.881	FLJ14927; FLJ22031; KIAA1500; DKFZp686105113; DKFZp686P08111 RS11 KREV; RAP2; K-REV; RbBP-30 ED1; HED; EDA1; EDA2; XHED, XLHED; ED1-	NM 025074 NM 183337 NM_021033	Fraser syndrome 1 regulator of G-protein signalling 11 RAP2A, member of RAS oncogene family
PLCE1 FRAS1 RGS11	3.938 3.922 3.886	FLJ14927; FLJ22031; KIAA1500; DKFZp686105113; DKFZp686P08111 RS11 KREV; RAP2; K-REV; RbBP-30	NM 025074 NM 183337	Fraser syndrome 1 regulator of G-protein signalling 11

	i	1	1	(connexin 37)
	+	ARP9; CEM15; MDS019; FLJ12740; bK150C2.7;		apolipoprotein B mRNA editing enzyme,
APOBEC3G	3.826	dJ494G10.1	NM_021822	catalytic polypeptide-like 3G
IGFBP3	3.823	IBP3; BP-53	NM_001013398	insulin-like growth factor binding protein 3
EPHA2	3.82	ECK	NM_004431	EPH receptor A2
ECED2	2.705	A CIL. CEVA. IEVA. CD222, HEECED2EV	NIM 000142	fibroblast growth factor receptor 3 (achondroplasia, thanatophoric dwarfism)
FGFR3 UPK1B	3.795 3.792	ACH; CEK2; JTK4; CD333; HSFGFR3EX UPIB; UPK1; TSPAN20	NM_000142 NM_006952	uroplakin 1B
UFKIB	3.192	OFIB, OFKI, ISFAN20	NWI_000932	potassium voltage-gated channel, subfamily
KCNG1	3.779	K13; kH2; KCNG; KV6.1; MGC12878	NM 172318	G, member 1
C12ORF34	3.776	FLJ14721	NM_032829	chromosome 12 open reading frame 34
				6-phosphofructo-2-kinase/fructose-2,6-
PFKFB4	3.748	PFKFB4	NM_004567	biphosphatase 4
KIAA1409	3.72	FLJ43337	NM_020818	KIAA1409
NT5DC3	3.72	FLJ11266; TU12B1-TY FLJ37099; dJ1156J9.1; RP5-1156J9.1;	NM_016575	5'-nucleotidase domain containing 3
		DKFZp686G0351; DKFZp686N1631;		
DENND2C	3.696	DKFZp779P1149	NM 198459	DENN/MADD domain containing 2C
PCDH20	3.691	PCDH13; FLJ22218	NM_022843	protocadherin 20
		BLIMP1; PRDI-BF1; MGC118922; MGC118923;		
PRDM1	3.677	MGC118924; MGC118925	NM_001198	PR domain containing 1, with ZNF domain
FAM89A	3.664	C1orf153; MGC15887; RP11-423F24.2	NM_198552	family with sequence similarity 89, member A
SULF2	3.612	HSULF-2; FLJ90554; KIAA1247; MGC126411; DKFZp313E091	NM 018837	sulfatase 2
CTXN1	3.605	CTXN; FLJ25968	NM 206833	cortexin 1
LRRN1	3.587	NLRR-1; KIAA1497	NM 020873	leucine rich repeat neuronal 1
		,		ATP synthase mitochondrial F1 complex
ATPAF2	3.56	ATP12; ATP12p; LP3663; MGC29736	NM_145691	assembly factor 2
DACH1	3.553	DACH; FLJ10138	NM_080759	dachshund homolog 1 (Drosophila)
				solute carrier family 1 (neuronal/epithelial
SLC1A1	3.54	EAAC1; EAAT3	NM 004170	high affinity glutamate transporter, system Xag), member 1
LOC441268	3.528	LOC441268	NM 004170 NM 001013725	hypothetical gene supported by BC044942
_55200	3.520	CASH; FLIP; MRIT; CLARP; FLAME; Casper; c-	11_001015725	
		FLIP; FLAME-1; I-FLICE; USURPIN; c-FLIPL; c-		
CFLAR	3.503	FLIPR; c-FLIPS; CASP8AP1	NM_003879	CASP8 and FADD-like apoptosis regulator
VASH1	3.502	KIAA1036	NM_014909	vasohibin 1
EVVD(2.5	EVVDC	NIM 022002	FXYD domain containing ion transport regulator 6
FXYD6	3.5	FXYD6	NM_022003	amyloid beta (A4) precursor protein-binding,
APBB3	3.488	SRA; FE65L2; MGC87674	NM 006051	family B, member 3
C10ORF114	3.475	bA418C1.3	NM 001010911	chromosome 10 open reading frame 114
ANKRD6	3.474	VAPA	NM_014942	ankyrin repeat domain 6
BTG2	3.46	PC3; TIS21; MGC126063; MGC126064	NM_006763	BTG family, member 2
ANKRD37	3.44	Lrp2bp; MGC111507	NM_181726	ankyrin repeat domain 37
RAB20 MERTK	3.422	FLJ20429 MER; c-mer; MGC133349	NM_017817 NM_006343	RAB20, member RAS oncogene family
MEKIK	3.394	MER; c-mer; MGC133349	NM_000343	c-mer proto-oncogene tyrosine kinase phosphatidic acid phosphatase type 2 domain
PPAPDC1A	3.374	PPAPDC1; MGC120300	NM 001030059	containing 1A
		,	_	gremlin 2, cysteine knot superfamily, homolog
GREM2	3.373	PRDC; DAND3; CKTSF1B2	NM_022469	(Xenopus laevis)
KIAA1688	3.336	KIAA1688	NM_025251	KIAA1688 protein
ZNF664	3.291	ZFOC1; MGC126579; DKFZp761B128	NM_152437	zinc finger protein 664 ATP-binding cassette, sub-family A (ABC1),
ABCA1	3.288	TGD; ABC1; CERP; ABC-1; HDLDT1; FLJ14958	NM 005502	member 1
KIAA1161	3.284	BCORL2	NM 020702	KIAA1161
			_	potassium voltage-gated channel, subfamily H
KCNH8	3.266	ELK; ELK1; Kv12.1	NM_144633	(eag-related), member 8
TMEM100	3.233	FLJ10970; FLJ37856	NM_018286	transmembrane protein 100
KIAA1729 EFS	3.226 3.226	KIAA1729 SIN; EFS1; EFS2; HEFS	NM_053042 NM_005864	KIAA1729 protein embryonal Fyn-associated substrate
RTN4RL1	3.212	NgR3; NGRH2; DKFZp547J144	NM 178568	reticulon 4 receptor-like 1
				CAP, adenylate cyclase-associated protein, 2
CAP2	3.203	RAB11FIP1	NM_006366	(yeast)
		B3GNT; B3GNT1; B3GN-T1; B3GN-T2; B3GNT-2;		UDP-GlcNAc:betaGal beta-1,3-N-
B3GNT1	3.202	BETA3GNT	NM_006577	acetylglucosaminyltransferase 2
SAMD3 AIRE	3.19 3.186	FLJ34563; MGC35163	NM_152552 NM_000659	sterile alpha motif domain containing 3
AINE	3.180	PCDH19; OL-PCDH; KIAA1400; MGC133344;	14141_000039	1
PCDH10	3.178	DKFZP761O2023	NM 032961	protocadherin 10
HSPB8	3.174	H11; HMN2; CMT2L; DHMN2; E2IG1; HSP22	NM_014365	heat shock 22kDa protein 8
				serpin peptidase inhibitor, clade B
SERPINB9	3.143	PI9; CAP3; CAP-3	NM_004155	(ovalbumin), member 9
WWOX	3.136		NM_018560	mysoloid/lymanhoid on grin-d lines-s lee!
				myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated
MLLT6	3.134	AF17; FLJ23480	NM 005937	to, 6
PPT2	3.13	G14; NG3; C6orf8; DKFZp564P1516	NM_138717	palmitoyl-protein thioesterase 2
CEP70	3.107	BITE; FLJ13036	NM_024491	centrosomal protein 70kDa
ZNF702	3.106	FLJ12985	NM_024924	zinc finger protein 702
FAM84B	3.101	NSE2; BCMP101	NM_174911	family with sequence similarity 84, member B
PARP6	3.099	VATA VATH	NM_020213	
AADAT RNF125	3.093 3.074	KAT2; KATII FLJ20456; MGC21737	NM_182662 NM_017831	aminoadipate aminotransferase ring finger protein 125
FGF8	3.068	AIGF; HBGF-8	NM_033164	fibroblast growth factor 8 (androgen-induced)
.010	3.000	PTMP; UG0882E07; DKFZp667B084;	11171_033104	protein phosphatase 1K (PP2C domain
PPM1K	3.004	DKFZp761G058	NM_152542	containing)
GMPR	2.988	GMPR	NM_006877	guanosine monophosphate reductase
		pana pana pa		phosphatidylinositol glycan anchor
DSCR5	2.988	DCRC; DSRC; DSCR5; DCRC-S	NM_153682	biosynthesis, class P
WSB1	2.986		NM_134264	and a hydrote (about the idea (C) 10 c C
CHST3	2.985	C6ST; C6ST1	NM 004273	carbohydrate (chondroitin 6) sulfotransferase
C11015	2.703	5551, 65511	1111_0042/3	pleckstrin homology domain containing,
PLEKHB1	2.984	KPL1; PHR1; PHRET1	NM_021200	family B (evectins) member 1
KIAA1443	2.983	HOMEZ	NM_020834	KIAA1443

ZNF614 AD031	2.982 2.971	FLJ21941; MGC120638 AD031: MGC138255	NM_025040 NM_032021	zinc finger protein 614 transmembrane protein 133
AD031	2.9/1	AD031; MGC138255	NM_032021	calcium/calmodulin-dependent protein kinase
CAMK2D	2.97	CAMKD; MGC44911	NM 172115	(CaM kinase) II delta
LYPD2	2.968	LYPDC2; UNQ430; MGC148106	NM 205545	LY6/PLAUR domain containing 2
		PI3K; PIK3C1; PI3Kbeta; MGC133043; p110-	_	phosphoinositide-3-kinase, catalytic, beta
PIK3CB	2.968	BETA; DKFZp779K1237	NM_006219	polypeptide
BTK	2.958	AT; ATK; BPK; XLA; IMD1; AGMX1; PSCTK1;	NM 000061	Deuton occumentalskylinomia tymosina kinasa
PKP2	2.938	MGC126261; MGC126262 ARVD9	NM 004572	Bruton agammaglobulinemia tyrosine kinase plakophilin 2
PCTP	2.945	STARD2	NM 021213	phosphatidylcholine transfer protein
TLN2	2.93	ILWEQ; KIAA0320; DKFZp451B1011	NM 015059	talin 2
GPC4	2.91	K-glypican	NM_001448	glypican 4
GRM2	2.897	GLUR2; mGlu2; GPRC1B; MGLUR2	NM_000839	glutamate receptor, metabotropic 2
ITLN2	2.888	HL2; HL-2	NM_080878	intelectin 2
PAX6	2.885	AN; AN2; MGDA; WAGR; D11S812E; MGC17209	NM_000280	paired box gene 6 (aniridia, keratitis)
TMEM27	2.881	NX17; NX-17	NM_020665	transmembrane protein 27
DOCK8 FAM11A	2.864 2.856	ZIR8; FLJ00026; FLJ00152; FLJ00346 CXorf13; MGC118844; MGC118845	NM_203447 NM_032508	dedicator of cytokinesis 8 family with sequence similarity 11, member A
TYRO3	2.85	BYK; Brt; Dtk; RSE; Sky; Tif	NM 006293	TYRO3 protein tyrosine kinase
AMOT	2.842	KIAA1071	NM 133265	angiomotin
TPK1	2.84	PP20; HTPK1	NM_022445	thiamin pyrophosphokinase 1
				leucine-rich repeat-containing G protein-
LGR5	2.837	FEX; HG38; GPR49; GPR67; GRP49; MGC117008	NM_003667	coupled receptor 5
BTBD3	2.829	KIAA0952; MGC130038; MGC130039; dJ742J24.1	NM_014962	BTB (POZ) domain containing 3
C3ORF32	2.823	C3orf32	NM_015931	chromosome 3 open reading frame 32
				guanine nucleotide binding protein (G protein), alpha activating activity polypeptide,
GNAL	2.817	GNAL	NM 182978	olfactory type
GATA3	2.814	HDR; MGC2346; MGC5199; MGC5445	NM_002051	GATA binding protein 3
DPPA3	2.811	STELLA	NM_199286	developmental pluripotency associated 3
CTSH	2.804	CPSB; MGC1519; minichain; DKFZp686B24257	NM_004390	cathepsin H
CDENTD	2.002	VID1, CDVNA, D27VID1	NIM 004064	cyclin-dependent kinase inhibitor 1B (p27,
CDKN1B TMEM88	2.802	KIP1; CDKN4; P27KIP1 FLJ20025: MGC71744	NM_004064 NM_203411	Kip1) transmembrane protein 88
MDK	2.77	MK; NEGF2; FLJ27379	NM_203411 NM_002391	midkine (neurite growth-promoting factor 2)
	4.700	, NEGLE, LEWELTL	11171_002371	transducin-like enhancer of split 2 (E(sp1)
TLE2	2.763	ESG; ESG2; GRG2; FLJ41188	NM_003260	homolog, Drosophila)
			_	progestin and adipoQ receptor family member
PAQR5	2.744	MPRG; FLJ20190	NM_017705	V
CNICO	2.742		ND 6 052064	guanine nucleotide binding protein (G
GNG2 YPEL2	2.742 2.742	G protein FKSG4; DKFZp761C2021	NM_053064 NM_001005404	protein), gamma 2 yippee-like 2 (Drosophila)
CUGBP2	2.742	ETR-3; NAPOR; BRUNOL3	NM 001003404 NM 001025077	CUG triplet repeat, RNA binding protein 2
ZNF124	2.728	HZF16; HZF-16; MGC117046	NM 003431	zinc finger protein 124
ARHGAP28	2.726		NM 030672	Rho GTPase activating protein 28
		FLJ10312; DKFZp080A2038		
FST	2.723	FLJ10312; DKFZp686A2038 FS	NM_006350	follistatin
FST KIFC2				follistatin kinesin family member C2
KIFC2	2.723 2.716	FS C19orf25	NM_006350 NM_145754	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme,
KIFC2 APOBEC3F	2.723 2.716 2.707	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA	NM_006350 NM_145754 NM_145298	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F
KIFC2	2.723 2.716	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038	NM_006350 NM_145754	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28
APOBEC3F ARHGAP28	2.723 2.716 2.707 2.706	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111;	NM 006350 NM 145754 NM 145298 NM 030672	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide
KIFC2 APOBEC3F	2.723 2.716 2.707	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038	NM_006350 NM_145754 NM_145298	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA
KIFC2 APOBEC3F ARHGAP28 DDX58	2.723 2.716 2.707 2.706 2.702	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181	NM_006350 NM_145754 NM_145298 NM_030672 NM_014314	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catallytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small
APOBEC3F ARHGAP28	2.723 2.716 2.707 2.706	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111;	NM 006350 NM 145754 NM 145298 NM 030672	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1
APOBEC3F ARHGAP28 DDX58	2.723 2.716 2.707 2.706 2.702	FS C190rf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase
APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL	2.723 2.716 2.707 2.706 2.702 2.702	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13	NM_006350 NM_145754 NM_145298 NM_030672 NM_014314 NM_021198 NM_030769	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)
APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C9ORF52	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868	NM_006350 NM_145754 NM_145298 NM_030672 NM_014314 NM_021198 NM_030769 NM_152574	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52
APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL	2.723 2.716 2.707 2.706 2.702 2.702	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13	NM_006350 NM_145754 NM_145298 NM_030672 NM_014314 NM_021198 NM_030769	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)
APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C9ORF52	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868	NM_006350 NM_145754 NM_145298 NM_030672 NM_014314 NM_021198 NM_030769 NM_152574	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase I N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa
APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19
APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.644 2.635	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase I N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site
APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2	2.723 2.716 2.707 2.706 2.702 2.702 2.7 2.699 2.687 2.646 2.644	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase I N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site I homolog 3 (mouse)
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3	2.723 2.716 2.707 2.706 2.702 2.702 2.7 2.699 2.687 2.646 2.644 2.635	FS C190rf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C10rf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog,
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila)
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3	2.723 2.716 2.707 2.706 2.702 2.702 2.7 2.699 2.687 2.646 2.644 2.635	FS C190rf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C10rf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog,
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.644 2.635 2.63	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP, DOPPEL; MGC41841; dJ1068H6.4	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet)
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.622 2.62 2.62 2.619 2.611	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 024598 NM 01342 NM 173465	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.644 2.635 2.63 2.622 2.62 2.62 2.611 2.611	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 012499 NM 012499 NM 012499 NM 013342 NM 018342 NM 018342 NM 004619	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis I, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.635 2.622 2.62 2.62 2.619 2.611 2.609	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; e112; C1orf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HST2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FJJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012499 NM 024598 NM 018342 NM 173465 NM 004619 NM 002771	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin)
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.644 2.635 2.63 2.628 2.622 2.62 2.619 2.611 2.609 2.605	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 024598 NM 024598 NM 013442 NM 173465 NM 004619 NM 002771 NM 173666	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.62 2.62 2.62 2.619 2.611 2.601 2.609 2.695	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 012409 NM 012409 NM 018342 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.644 2.635 2.63 2.628 2.622 2.62 2.619 2.611 2.609 2.605	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FJJ13154 FJJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FJJ33977; MGC138579; MGC138580 RABR K1AA1776	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 024598 NM 024598 NM 013442 NM 173465 NM 004619 NM 002771 NM 173666	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.644 2.635 2.63 2.622 2.62 2.619 2.611 2.611 2.609 2.605 2.578	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344;	NM 006350 NM 145754 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 012409 NM 01342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 032447	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.62 2.62 2.62 2.619 2.611 2.601 2.609 2.695	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FJJ13154 FJJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FJJ33977; MGC138579; MGC138580 RABR K1AA1776	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 012409 NM 012409 NM 018342 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.62 2.62 2.619 2.611 2.610 2.609 2.605 2.589 2.578	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344;	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 024598 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 032447 NM 020815 NM 003605 NM 145716	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.628 2.622 2.619 2.611 2.61 2.699 2.578 2.578	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ313154 FLJ3154 FLJ3154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP; SSDP1; FLJ10355 LAMA	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 012409 NM 024598 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 032447 NM 020815 NM 003605 NM 165716 NM 003559	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1 C150RF17	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.644 2.635 2.63 2.628 2.622 2.619 2.611 2.610 2.609 2.589 2.578 2.566 2.566 2.565 2.557 2.555	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP; SSDP1; FLJ10355 LAMA FLJ00005	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 024598 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 032447 NM 020815 NM 003605 NM 145716 NM 0035559 NM 020447	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10 single stranded DNA binding protein 3 laminin, alpha 1 chromosome 15 open reading frame 17
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.628 2.622 2.619 2.611 2.61 2.699 2.578 2.578	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FJJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FJJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP; SSDP1; FLJ10355 LAMA FLJ00005 CHCR; MBLX; MBXL; MBLX39; FLJ11316	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 012409 NM 024598 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 032447 NM 020815 NM 003605 NM 165716 NM 003559	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1 C150RF17 MBNL3	2.723 2.716 2.707 2.706 2.702 2.702 2.702 2.699 2.687 2.644 2.635 2.63 2.628 2.622 2.619 2.611 2.61 2.619 2.699 2.578 2.566 2.562 2.557 2.555 2.555	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP; SSDP1; FLJ10355 LAMA FLJ000005 CHCR; MBLX; MBXL; MBLX39; FLJ11316 DIK; PKK; RIP4; ANKK2; ANKRD3; MGC129992;	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 0012409 NM 012409 NM 012409 NM 01342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 032447 NM 020815 NM 003559 NM 145716 NM 005559 NM 020447 NM 133486	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10 single stranded DNA binding protein 3 laminin, alpha 1 chromosome 15 open reading frame 17 muscleblind-like 3 (Drosophila)
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 C0L23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1 C150RF17 MBNL3 RIPK4	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.628 2.622 2.619 2.611 2.610 2.609 2.589 2.578 2.556 2.556 2.555 2.553 2.549	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ31155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP, SSDP1; FLJ10355 LAMA FLJ00005 CHCR; MBLX; MBXL; MBLX39; FLJ11316 DIK; PKK; RIP4; ANKK2; ANKRD3; MGC129992; MGC129993	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 0018131 NM 001999 NM 152352 NM 001009813 NM 024598 NM 012409 NM 024598 NM 01342 NM 173465 NM 004619 NM 02559 NM 006076 NM 032447 NM 03605 NM 003605 NM 003605 NM 005559 NM 005559 NM 020447 NM 133486 NM 02639	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10 single stranded DNA binding protein 3 laminin, alpha 1 chromosome 15 open reading frame 17 muscleblind-like 3 (Drosophila)
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1 C150RF17 MBNL3 RIPK4 FMO5	2.723 2.716 2.707 2.706 2.702 2.702 2.702 2.699 2.687 2.646 2.644 2.635 2.63 2.628 2.622 2.62 2.619 2.611 2.611 2.609 2.005 2.589 2.578 2.566 2.562 2.555 2.555 2.555 2.555	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPES DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FJJ13154 FJJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FJJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP; SSDP1; FLJ10355 LAMA FLJ00005 CHCR; MBLX; MBXL; MBLX39; FLJ11316 DIK; PKK; RIP4; ANKK2; ANKRD3; MGC129992; MGC129993 FMO5	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 0012499 NM 012409 NM 024598 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 032447 NM 032447 NM 020815 NM 003605 NM 145716 NM 003605 NM 145716 NM 002047 NM 133486 NM 020639 NM 020639 NM 020639 NM 01461	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase I N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10 single stranded DNA binding protein 3 laminin, alpha 1 chromosome 15 open reading frame 17 muscleblind-like 3 (Drosophila) receptor-interacting serine-threonine kinase 4 flavin containing monooxygenase 5
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KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1 C150RF17 MBNL3 RIPK4 FMO5 RNF19 TANC1 ZNF342 NGFRAP1	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.628 2.622 2.619 2.611 2.610 2.609 2.589 2.578 2.556 2.555 2.553 2.549 2.546 2.533 2.523 2.527	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ31155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP, SSDP1; FLJ10355 LAMA FLJ00005 CHCR; MBLX; MBXL; MBLX39; FLJ11316 DIK; PKK; RIP4; ANKK2; ANKRD3; MGC129992; MGC129993 FMO5 DORFIN; DKFZp566B1346 TANC; ROLSB; KIAA1728 MAF Bex; BEX3; NADE; HGR74; DXS6984E	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 024598 NM 01342 NM 013445 NM 007129 NM 024598 NM 01342 NM 173465 NM 006076 NM 00271 NM 173666 NM 006076 NM 032447 NM 032447 NM 032447 NM 035559 NM 020447 NM 035559 NM 020447 NM 133486 NM 005559 NM 020447 NM 133486 NM 00161 NM 015435 NM 033394 NM 013438	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10 single stranded DNA binding protein 3 laminin, alpha 1 chromosome 15 open reading frame 17 muscleblind-like 3 (Drosophila) receptor-interacting serine-threonine kinase 4 flavin containing monooxygenase 5 ring finger protein 19 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 zine finger protein 342 neve growth factor receptor (TNFRSF16) associated protein 1
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1 C150RF17 MBNL3 RIPK4 FMO5 RNF19 TANC1 ZNF342 NGFRAP1 TMEM74	2.723 2.716 2.707 2.706 2.702 2.702 2.702 2.702 2.699 2.687 2.646 2.644 2.635 2.63 2.628 2.622 2.62 2.619 2.611 2.601 2.589 2.598 2.578 2.566 2.562 2.553 2.553 2.549 2.540 2.533 2.523 2.507	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FJJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FJJ13154 FLJ11155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FJJ33977; MGC138579; MGC138580 RABR K1AA1776 PCDH19; OL-PCDH; K1AA1400; MGC133344; DKFZP76102023 CSDP; SSDP; SSDP1; FLJ10355 LAMA FLJ00005 CHCR; MBLX; MBXL; MBLX39; FLJ11316 DIK; PKK; RIP4; ANKR2; ANKRD3; MGC129992; MGC129993 FMO5 DORFIN; DKFZp566B1346 TANC; ROLSB; K1AA1728 MAF Bex; BEX3; NADE; HGR74; DXS6984E FLJ30668	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012499 NM 024598 NM 018342 NM 173465 NM 004619 NM 002771 NM 173666 NM 006076 NM 003055 NM 145716 NM 003605 NM 145716 NM 033447 NM 033447 NM 03447 NM 03447 NM 133486 NM 03493 NM 01461 NM 015435 NM 033394 NM 014380 NM 014380 NM 014380	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase I N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10 single stranded DNA binding protein 3 laminin, alpha 1 chromosome 15 open reading frame 17 muscleblind-like 3 (Drosophila) receptor-interacting serine-threonine kinase 4 flavin containing monooxygenase 5 ring finger protein 19 tetratricopeptide repeat, ankyrin repeat and coiled-coll containing 1 zinc finger protein 342 nerve growth factor receptor (TNFRSF16) associated protein 1 transmembrane protein 74
KIFC2 APOBEC3F ARHGAP28 DDX58 CTDSP1 NPL C90RF52 CEP55 FBN2 C180RF19 MEIS3 ZIC2 PRND C160RF57 FLJ11155 COL23A1 TRAF5 PRSS3 DTWD2 HRBL FBN3 PCDH10 OGT SSBP3 LAMA1 C150RF17 MBNL3 RIPK4 FMO5 RNF19 TANC1 ZNF342 NGFRAP1	2.723 2.716 2.707 2.706 2.702 2.702 2.699 2.687 2.646 2.635 2.63 2.628 2.622 2.619 2.611 2.610 2.609 2.589 2.578 2.556 2.555 2.553 2.549 2.546 2.533 2.523 2.527	FS C19orf25 KA6; ARP8; MGC74891; BK150C2.4.MRNA FLJ10312; DKFZp686A2038 RIG-1; FLJ13599; DKFZp434J1111; DKFZp686N19181 SCP1; NLIIF NPL1; c112; C1orf13 FLJ33868 URCC6; C10orf3; FLJ10540 CCA HsT2329; MGC24180 MRG2; DKFZp547H236 HPE5 DPL; PrPLP; DOPPEL; MGC41841; dJ1068H6.4 FLJ13154 FLJ31155 DKFZp434K0621 RNF84; MGC:39780 MTG; TRY3; TRY4; PRSS4 FLJ33977; MGC138579; MGC138580 RABR KIAA1776 PCDH19; OL-PCDH; KIAA1400; MGC133344; DKFZP76102023 CSDP; SSDP, SSDP1; FLJ10355 LAMA FLJ00005 CHCR; MBLX; MBXL; MBLX39; FLJ11316 DIK; PKK; RIP4; ANKK2; ANKRD3; MGC129992; MGC129993 FMO5 DORFIN; DKFZp566B1346 TANC; ROLSB; KIAA1728 MAF Bex; BEX3; NADE; HGR74; DXS6984E	NM 006350 NM 145754 NM 145298 NM 030672 NM 014314 NM 021198 NM 030769 NM 152574 NM 018131 NM 001999 NM 152352 NM 001009813 NM 007129 NM 012409 NM 024598 NM 01342 NM 013445 NM 007129 NM 024598 NM 01342 NM 173465 NM 006076 NM 00271 NM 173666 NM 006076 NM 032447 NM 032447 NM 032447 NM 035559 NM 020447 NM 035559 NM 020447 NM 133486 NM 005559 NM 020447 NM 133486 NM 00161 NM 015435 NM 033394 NM 013438	follistatin kinesin family member C2 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Rho GTPase activating protein 28 DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase I N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase) chromosome 9 open reading frame 52 centrosomal protein 55kDa fibrillin 2 (congenital contractural arachnodactyly) chromosome 18 open reading frame 19 Meis1, myeloid ecotropic viral integration site 1 homolog 3 (mouse) Zic family member 2 (odd-paired homolog, Drosophila) prion protein 2 (dublet) chromosome 16 open reading frame 57 transmembrane protein 144 collagen, type XXIII, alpha 1 TNF receptor-associated factor 5 protease, serine, 3 (mesotrypsin) DTW domain containing 2 HIV-1 Rev binding protein-like fibrillin 3 protocadherin 10 single stranded DNA binding protein 3 laminin, alpha 1 chromosome 15 open reading frame 17 muscleblind-like 3 (Drosophila) receptor-interacting serine-threonine kinase 4 flavin containing monooxygenase 5 ring finger protein 19 tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 zine finger protein 342 nerve growth factor receptor (TNFRSF16) associated protein 1

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RGS16	2,455	RGS-R: A28-RGS14: A28-RGS14P	NM 002928	antigen 3) (Stromalin 3) (SCC3 homolog 3) regulator of G-protein signalling 16
SLC25A29	2.452	CACL; C14orf69; FLJ38975	NM 152333	solute carrier family 25, member 29
HAK	2.432	HAK: FLJ34875: FLJ43253	NM 052947	
HAK	2.440	HAK; FLJ348/5; FLJ43253	NM_052947	alpha-kinase 2
CORCE1	2 200	EL 141750, EL 142475, EL 144057	NIM 052010	sortilin-related VPS10 domain containing
SORCS1 HOXD13	2.398 2.396	FLJ41758; FLJ43475; FLJ44957 BDE; SPD; HOX4I	NM_052918 NM_000523	receptor 1
HUXD13	2.390	BDE; SPD; HOX41	NM_000523	homeobox D13
TUDA	2 205	MGG141041 1 42001142 DWF7 (0(402225	ND 4 021140	ubiquitously transcribed tetratricopeptide
UTX	2.385	MGC141941; bA386N14.2; DKFZp686A03225	NM_021140	repeat, X chromosome
DIDSTILL	2 2 7 4	N 400 4 077 47	377.6.002.660	phosphatidylinositol-4-phosphate 5-kinase,
PIP5K1B	2.374	MSS4; STM7	NM_003558	type I, beta
PLSCR1	2.372	MMTRA1B	NM_021105	phospholipid scramblase 1
		HSULF-2; FLJ90554; KIAA1247; MGC126411;		
SULF2	2.356	DKFZp313E091	NM_018837	sulfatase 2
DDIT3	2.355	CHOP; CEBPZ; CHOP10; GADD153; MGC4154	NM_004083	DNA-damage-inducible transcript 3
ZBTB40	2.348	KIAA0478; MGC133098	NM_014870	zinc finger and BTB domain containing 40
BSPRY	2.345	FLJ20150	NM_017688	B-box and SPRY domain containing
MAPK7	2.34	BMK1; ERK4; ERK5; PRKM7	NM_139034	mitogen-activated protein kinase 7
				solute carrier family 36 (proton/amino acid
SLC36A1	2.337	PAT1; LYAAT1; TRAMD3	NM_078483	symporter), member 1
				Alport syndrome, mental retardation, midface
				hypoplasia and elliptocytosis chromosomal
AMMECR1	2.337	AMMERC1	NM_015365	region, gene 1
TMEM56	2.335	FLJ31842; MGC102912	NM_152487	transmembrane protein 56
				solute carrier family 4, anion exchanger,
				member 2 (erythrocyte membrane protein
SLC4A2	2.328	AE2; HKB3; BND3L; NBND3; EPB3L1	NM_003040	band 3-like 1)
LRRC54	2.322	TSK; E2IG4	NM_015516	leucine rich repeat containing 54
		F11; HZF5; KR18; HKr18; FLJ00032; KIAA1611;		
ZNF160	2.318	DKFZp686B16128	NM_033288	zinc finger protein 160
		VCXB; VCX2R; VCX-2r; MGC118977;		
VCX2	2.316	MGC125729; MGC125794; MGC125795	NM 016378	variable charge, X-linked 2
FLJ45187	2.313	FLJ45187; DLN-1; DKFZp761J229	NM 207371	hypothetical protein LOC387640
		B7H2; GL50; B7-H2; B7RP1; CD275; ICOSL;		VI
ICOSLG	2.312	LICOS; B7RP-1; ICOS-L; KIAA0653	NM 015259	inducible T-cell co-stimulator ligand
NCR1	2.312	LY94; CD335; NKP46; NK-p46	NM 004829	natural cytotoxicity triggering receptor 1
FLJ35725	2.304	FLJ12891; FLJ35725	NM 152544	chromosome 4 open reading frame 23
ACVR1B	2.293	ALK4; SKR2; ACTRIB; ACVRLK4	NM 004302	activin A receptor, type IB
C1ORF63		ALK4, SKK2, ACTKIB, ACVKLK4	NM 207035	activiti A receptor, type 16
	2.281	AVII MCC126502 DVEZ Z01D0060		: 27 1 2 2
AXIN2	2.268	AXIL; MGC126582; DKFZp781B0869	NM_004655	axin 2 (conductin, axil)
GAAODEO	2264	G00 00 TV 100 C0 5	277.6.04.04.4	family with sequence similarity 118, member
C22ORF8	2.264	C22orf8; FLJ20635	NM_017911	A
MDK	2.253	MK; NEGF2; FLJ27379	NM_001012333	midkine (neurite growth-promoting factor 2)
MGC33302	2.246	MGC33302	NM_152778	hypothetical protein MGC33302
GSTA2	2.244	GST2; GTA2; GTH2; GSTA2-2; MGC10525	NM_000846	glutathione S-transferase A2
ATHL1	2.244	FLJ22635; MGC129858; MGC129859	NM_025092	ATH1, acid trehalase-like 1 (yeast)
ZNF358	2.238	ZFEND; FLJ10390	NM_018083	zinc finger protein 358
UBAP2	2.227	FLJ22435; KIAA1491; bA176F3.5	NM 018449	ubiquitin associated protein 2
KIAA0980	2.217	KIAA0980; NLP; FLJ11792; dJ691N24.1	NM 025176	KIAA0980 protein
KIAA0980	2.217	KIAA0980; NLP; FLJ11792; dJ691N24.1	NM_025176	KIAA0980 protein Clq and tumor necrosis factor related protein
C1QTNF6	2.217		NM_025176 NM_031910	KIAA0980 protein C1q and tumor necrosis factor related protein 6
C1QTNF6	2.211	CTRP6; ZACRP6	NM_031910	C1q and tumor necrosis factor related protein 6
C1QTNF6 NRXN3	2.211 2.206	CTRP6; ZACRP6 KIAA0743	NM 031910 NM_004796	C1q and tumor necrosis factor related protein 6 neurexin 3
C1QTNF6 NRXN3 COL4A6	2.211 2.206 2.203	CTRP6; ZACRP6 KIAA0743 MGC88184	NM_031910 NM_004796 NM_033641	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6
C1QTNF6 NRXN3 COL4A6 DLK1	2.211 2.206 2.203 2.199	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1	NM 031910 NM 004796 NM 033641 NM 003836	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila)
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16	2.211 2.206 2.203 2.199 2.199	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147	NM 031910 NM_004796 NM_033641 NM_003836 NM_022133	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16
C1QTNF6 NRXN3 COL4A6 DLK1	2.211 2.206 2.203 2.199	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1	NM 031910 NM 004796 NM 033641 NM 003836	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1	2.211 2.206 2.203 2.199 2.199 2.195	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM_004807	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16	2.211 2.206 2.203 2.199 2.199	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH	NM 031910 NM_004796 NM_033641 NM_003836 NM_022133	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM	2.211 2.206 2.203 2.199 2.199 2.195	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M;	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM	2.211 2.206 2.203 2.199 2.199 2.195 2.195	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM	2.211 2.206 2.203 2.199 2.199 2.195	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM	2.211 2.206 2.203 2.199 2.199 2.195 2.195	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A;	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1;	NM 031910 NM 004796 NM 033641 NM 03836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM	2.211 2.206 2.203 2.199 2.199 2.195 2.195	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A;	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM_177557 NM 014333	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing,
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458	NM 031910 NM 004796 NM 033641 NM 03836 NM 022133 NM 004807 NM 007166 NM 004893 NM_177557 NM_014333 NM_022835	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.172	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42e	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein lb (platelet), beta polypeptide
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP, CALM; CLTH H2A,y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186	NM 031910 NM 004796 NM 033641 NM 03836 NM 022133 NM 004807 NM 007166 NM 004893 NM_177557 NM_014333 NM_022835	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2;	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 0052958	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2;	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 0052958	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM_177557 NM_014333 NM 022835 NM 002835 NM 002835 NM 0052958 NM 177433 NM 177433 NM 173587	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.159	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP, CALM; CLTH H2A,y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM_177557 NM_014333 NM 022835 NM 002835 NM 002835 NM 0052958 NM 177433 NM 177433 NM 173587	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.159	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.159	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.172 2.167 2.164 2.163 2.159 2.158	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A,y; H2AVy; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 004594 NM 006299	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.158	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/Y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM_177557 NM_014333 NM_022835 NM 000407 NM 052958 NM 177433 NM_173587 NM 004594 NM_006299 NM_022374	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zine finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.159 2.158 2.158	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHES PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ323293; atlastin2 FAM34A; FAM34A1	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 B12; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 020066	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 020066 NM 007079	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zine finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 B12; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 020066	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.159 2.158 2.158 2.158 2.152 2.132 2.131	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42e VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCGI; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 004594 NM 006299 NM 022374 NM 014873 NM 020066 NM 007079 NM 177535	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL61P2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.152 2.132 2.131 2.123	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 020066 NM 007079 NM 177535 NM 007079 NM 177535	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zine finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1)
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C80RF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152 2.131 2.132 2.131 2.123 2.119	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHES PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 022374 NM 014873 NM 07079 NM 177535 NM 007079 NM 177535	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1)
CIQTNF6 NRXN3 COL4A6 DLK1 SNN16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GPIBB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.197 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.152 2.131 2.131 2.119 2.114	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHES PRD51; ZSCAN9 AT1.2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 007166 NM 014333 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 02066 NM 007079 NM 177535 NM 077535 NM 077535 NM 022549 NM 01406 NM 033008	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(C) binding protein 4
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C80RF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152 2.131 2.132 2.131 2.123 2.119	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHES PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 022374 NM 014873 NM 07079 NM 177535 NM 007079 NM 177535	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1
CIQTNF6 NRXN3 COL4A6 DLK1 SNN16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GPIBB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.197 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.152 2.131 2.131 2.119 2.114	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 007166 NM 014333 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 02066 NM 007079 NM 177535 NM 077535 NM 077535 NM 022549 NM 01406 NM 033008	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin I) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C80RF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.197 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.155 2.152 2.132 2.131 2.113	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42e VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 07079 NM 177535 NM 007079 NM 177535 NM 022549 NM 01406 NM 033008 NM 016048	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin I) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (Iysophosphatidic acid acyltransferase,
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GPIBB C80RF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.155 2.152 2.131 2.132 2.131 2.123 2.111 2.113	CTRP6; ZACRP6 KIAA0743 MGC88184 FA1; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/Y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE-I; MGC3210; MGC88639 FEZ1 EFL6; EPL68; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 005299 NM 022374 NM 014873 NM 02374 NM 014873 NM 020066 NM 07079 NM 177535 NM 001406 NM 07079 NM 177535 NM 001406 NM 013008 NM 01406 NM 033008 NM 016048	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta)
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL61P2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1 AGPAT4 WDR72	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.194 2.187 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152 2.131 2.132 2.131 2.113 2.113	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/Y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2 FLJ38736; MGC126663; MGC126665	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 004594 NM 004594 NM 004594 NM 006299 NM 022374 NM 014873 NM 014873 NM 020066 NM 007079 NM 177535 NM 001406 NM 033008 NM 016048 NM 016048	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zine finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta) WD repeat domain 72
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C80RF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL61P2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1 AGPAT4 WDR72 SETBP1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.197 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152 2.131 2.132 2.131 2.131 2.131 2.131 2.107 2.107 2.107 2.107 2.107	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHES PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2 FLJ38736; MGC126663; MGC126665 SEB; KIAA0437	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 014873 NM 07079 NM 177535 NM 007079 NM 177535 NM 002549 NM 001012734 NM 016048 NM 001012734 NM 182758 NM 015559	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta) WD repeat domain 72 SET binding protein 1
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GPIBB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1 AGPAT4 WDR72 SSTBP1 MTSS1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187 2.17 2.17 2.167 2.164 2.163 2.158 2.158 2.155 2.152 2.132 2.131 2.123 2.111 2.113 2.107 2.11 2.098 2.098	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BI2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2 FLJ38736; MGC126663; MGC126665 SEB; KIAA0437 MIN; MIMA; MIMB; FLJ44694; KIAA0429	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 005299 NM 022374 NM 004594 NM 007079 NM 07079 NM 177535 NM 00406 NM 07079 NM 177535 NM 00406 NM 07079 NM 177535 NM 014873 NM 014873 NM 014873 NM 014873 NM 014873 NM 0152549 NM 0152549 NM 016048 NM 016048	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta) WD repeat domain 72 SET binding protein 1 metastasis suppressor 1
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C80RF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL61P2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1 AGPAT4 WDR72 SETBP1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.197 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152 2.131 2.132 2.131 2.131 2.131 2.131 2.107 2.107 2.107 2.107 2.107	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHES PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2 FLJ38736; MGC126663; MGC126665 SEB; KIAA0437	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 006299 NM 022374 NM 014873 NM 014873 NM 07079 NM 177535 NM 007079 NM 177535 NM 002549 NM 001012734 NM 016048 NM 001012734 NM 182758 NM 015559	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zine finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta) WD repeat domain 72 SET binding protein 1 metastasis suppressor 1 SRY (sex determining region Y)-box 10
C1QTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GPIBB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1 AGPAT4 WDR72 AGPAT4 WDR72 MTSS1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187 2.17 2.17 2.167 2.164 2.163 2.158 2.158 2.155 2.152 2.132 2.131 2.123 2.111 2.113 2.107 2.11 2.098 2.098	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BI2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2 FLJ38736; MGC126663; MGC126665 SEB; KIAA0437 MIN; MIMA; MIMB; FLJ44694; KIAA0429	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 005299 NM 022374 NM 004594 NM 007079 NM 07079 NM 177535 NM 00406 NM 07079 NM 177535 NM 00406 NM 07079 NM 177535 NM 014873 NM 014873 NM 014873 NM 014873 NM 014873 NM 0152549 NM 0152549 NM 016048 NM 016048	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (1ysophosphatidic acid acyltransferase, delta) WD repeat domain 72 SET binding protein 1 metastasis suppressor 1
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GPIBB C8ORF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1 AGPAT4 WDR72 SSTBP1 MTSS1	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.194 2.187 2.17 2.17 2.167 2.164 2.163 2.158 2.158 2.155 2.152 2.132 2.131 2.123 2.111 2.113 2.107 2.11 2.098 2.098	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BI2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; sTSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHE5 PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2 FLJ38736; MGC126663; MGC126665 SEB; KIAA0437 MIN; MIMA; MIMB; FLJ44694; KIAA0429	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 005299 NM 022374 NM 004594 NM 007079 NM 07079 NM 177535 NM 00406 NM 07079 NM 177535 NM 00406 NM 07079 NM 177535 NM 014873 NM 014873 NM 014873 NM 014873 NM 014873 NM 0152549 NM 0152549 NM 016048 NM 016048	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zine finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin 1) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta) WD repeat domain 72 SET binding protein 1 metastasis suppressor 1 SRY (sex determining region Y)-box 10
CIQTNF6 NRXN3 COL4A6 DLK1 SNX16 HS6ST1 PICALM H2AFY TRO IGSF4 PLEKHG2 GP1BB C80RF34 MAGED2 RCOR2 SLC9A5 ZNF193 ARL6IP2 LPGAT1 FMN2 PTP4A3 MAGED4 FEZ1 EFNB3 PCBP4 ISOC1 AGPAT4 WDR72 SETBP1 MTSS1 SOX10	2.211 2.206 2.203 2.199 2.199 2.195 2.195 2.195 2.197 2.172 2.17 2.167 2.164 2.163 2.158 2.158 2.158 2.155 2.152 2.131 2.131 2.131 2.114 2.113 2.107 2.107 2.107 2.107	CTRP6; ZACRP6 KIAA0743 MGC88184 FAI; ZOG; pG2; PREF1; Pref-1 DKFZp666H147 HS6ST; MGC116899; MGC116901 LAP; CALM; CLTH H2A.y; H2A/y; H2AF1; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2 BL2; ST17; NECL2; RA175; TSLC1; IGSF4A; Necl-2; SYNCAM; STSLC-1; synCAM1; DKFZp686F1789 CLG; FLJ00018; FLJ22458 CD42c VEST1; vest-1; FLJ36872; DKFZp547E186 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 RCOR2 NHES PRD51; ZSCAN9 ATL2; ARL3IP2; FLJ23293; atlastin2 FAM34A; FAM34A1 ROR2 PRL3; PRL-3; PRL-R MAGE1; MAGE-E1; MGC3210; MGC88639 FEZ1 EFL6; EPLG8; LERK8 LIP4; MCG10 CGI-111 1-AGPAT4; dJ473J16.2; LPAAT-delta; RP3-473J16.2 FLJ38736; MGC126663; MGC126665 SEB; KIAA0437 MIN; MIMA; MIMB; FLJ44694; KIAA0429 DOM; WS4; MGC15649	NM 031910 NM 004796 NM 033641 NM 003836 NM 022133 NM 004807 NM 007166 NM 004893 NM 177557 NM 014333 NM 022835 NM 000407 NM 052958 NM 177433 NM 173587 NM 004594 NM 004594 NM 006299 NM 022374 NM 014873 NM 02066 NM 007079 NM 177535 NM 001406 NM 033008 NM 016048 NM 016048 NM 015559 NM 015559 NM 014751 NM 006941	C1q and tumor necrosis factor related protein 6 neurexin 3 collagen, type IV, alpha 6 delta-like 1 homolog (Drosophila) sorting nexin 16 heparan sulfate 6-O-sulfotransferase 1 phosphatidylinositol binding clathrin assembly protein H2A histone family, member Y immunoglobulin superfamily, member 4 pleckstrin homology domain containing, family G (with RhoGef domain) member 2 glycoprotein Ib (platelet), beta polypeptide chromosome 8 open reading frame 34 melanoma antigen family D, 2 REST corepressor 2 solute carrier family 9 (sodium/hydrogen exchanger), member 5 zinc finger protein 193 ADP-ribosylation factor-like 6 interacting protein 2 lysophosphatidylglycerol acyltransferase 1 formin 2 protein tyrosine phosphatase type IVA, member 3 melanoma antigen family D, 4 fasciculation and elongation protein zeta 1 (zygin I) ephrin-B3 poly(rC) binding protein 4 isochorismatase domain containing 1 1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta) WD repeat domain 72 SET binding protein 1 metastasis suppressor 1 SRY (sex determining region Y)-box 10 LAGI longevity assurance homolog 6 (S.

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C9ORF47	2.064	C9orf108; FLJ37523; bA791O21.3	NM_001001938	chromosome 9 open reading frame 47
F7	2056		377.604.050	ELAV (embryonic lethal, abnormal vision,
ELAVL4	2.056	HUD; PNEM	NM_021952	Drosophila)-like 4 (Hu antigen D)
C3ORF58	2.051	MGC33365	NM_173552	chromosome 3 open reading frame 58
DDHD2 CAMTA1	2.041 2.035	SAMWD1; KIAA0725 KIAA0833	NM_015214 NM_015215	DDHD domain containing 2 calmodulin binding transcription activator 1
DKK4	2.035	DKK-4; MGC129562; MGC129563	NM 014420	dickkopf homolog 4 (Xenopus laevis)
KIAA0895	2.034	KIAA0895	NM 015314	KIAA0895 protein
KIAA0093	2.034	KIAA0853	NW_013314	LON peptidase N-terminal domain and ring
LONRF1	2.02	RNF191; FLJ23749	NM 152271	finger 1
TMC7	2.019	FLJ21240; DKFZp781O2274	NM 024847	transmembrane channel-like 7
PILRB	2.017	FDFACT1; FDFACT2	NM 175047	paired immunoglobin-like type 2 receptor beta
		II; IGNT; ULG3; GCNT5; GCNT2C; NACGT1;		glucosaminyl (N-acetyl) transferase 2, I-
GCNT2	2.013	NAGCT1; bA421M1.1; bA360O19.2	NM_145655	branching enzyme (I blood group)
ZNF615	2.012	FLJ33710; FLJ39372; DKFZp686O1554	NM_198480	zinc finger protein 615
COL22A1	2.011	COL22A1	NM_152888	collagen, type XXII, alpha 1
ERF	2.008	PE-2	NM_006494	Ets2 repressor factor
ZNF608	2.006	NY-REN-36; DKFZp781C0723	NM_020747	zinc finger protein 608
DHCR24 ZNF611	1.999 1.997	KIAA0018; SELADIN1; Nbla03646; seladin-1 MGC5384	NM_014762 NM_030972	24-dehydrocholesterol reductase
ZINFOII	1.997	WGC3364	NIVI_030972	zinc finger protein 611 myelin-associated oligodendrocyte basic
MOBP	1.995	MGC87379	NM 182935	protein
WODI	1.775	MGC07377	TUN_102755	solute carrier family 16, member 5
SLC16A5	1.991	MCT5; MCT6	NM 004695	(monocarboxylic acid transporter 6)
				AHA1, activator of heat shock 90kDa protein
AHSA2	1.989	Hch1; DKFZp564C236	NM_152392	ATPase homolog 2 (yeast)
		GEF; P40; GEFH1; LFP40; GEF-H1; KIAA0651;		rho/rac guanine nucleotide exchange factor
ARHGEF2	1.989	DKFZp547L106; DKFZp547P1516	NM_004723	(GEF) 2
RAX	1.983	RX	NM_013435	retina and anterior neural fold homeobox
				myeloid/lymphoid or mixed-lineage leukemia
MLI TIO	1.003	AE10: MGC75086: DVE7-494E10210	NM 004641	(trithorax homolog, Drosophila); translocated
MLLT10 PDLIM7	1.982 1.979	AF10; MGC75086; DKFZp686E10210 PDLIM7	NM_004641 NM_213636	to, 10 PDZ and LIM domain 7 (enigma)
C6ORF213	1.979	C6orf212; bA160A10.4	NM_213636 NM_001010852	chromosome 6 open reading frame 213
COOKI 213	1.7//	C0011212, UA10UAIU.4	1111 001010834	protein phosphatase 1, regulatory (inhibitor)
PPP1R13B	1.973	p85; ASPP1; KIAA0771; p53BP2-like	NM 015316	subunit 13B
SRRP35	1.972	SRrp35; RP11-63L7.3	NM 080743	serine-arginine repressor protein (35 kDa)
		. ,		matrix metallopeptidase 15 (membrane-
MMP15	1.968	MTMMP2; SMCP-2; MT2-MMP	NM_002428	inserted)
		MDG1; ERdj4; MST049; MSTP049;		DnaJ (Hsp40) homolog, subfamily B, member
DNAJB9	1.967	DKFZP564F1862	NM_012328	9
RXRG	1.962	RXRC; NR2B3	NM_006917	retinoid X receptor, gamma
TRIM36	1.955	RNF98; HAPRIN; RBCC728	NM_018700	tripartite motif-containing 36
ZCCHC3	1.952	C20orf99; MGC104290	NM_033089	zinc finger, CCHC domain containing 3
				UDP-N-acetyl-alpha-D-
		FLJ00205; FLJ11715; GalNAcT10;		galactosamine:polypeptide N- acetylgalactosaminyltransferase 10 (GalNAc-
GALNT10	1.944	DKFZp586H0623; pp-GalNAc-T10	NM 198321	T10)
	1.936	DKFZp761I2123; KIAA1886	NM 031449	hypothetical protein DKFZp761I2123
DKFZP/6112123	1.930			
DKFZP761I2123 SPATA6	1.936	SRF1; SRF-1; FLJ10007	NM 019073	
				spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S.
SPATA6 LASS4	1.933	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089	NM 019073 NM 024552	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae)
SPATA6 LASS4 LOC130576	1.933 1.933 1.93	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576	NM 019073 NM 024552 NM_177964	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576
SPATA6 LASS4 LOC130576 RUNDC1	1.933 1.933 1.93 1.922	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089	NM 019073 NM 024552 NM_177964 NM_173079	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae)
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154	1.933 1.933 1.93 1.922 1.918	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421	NM_019073 NM_024552 NM_177964 NM_173079 NM_003444	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3	1.933 1.933 1.93 1.922 1.918 1.911	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1	1.933 1.933 1.93 1.922 1.918 1.911 1.908	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3	1.933 1.933 1.93 1.922 1.918 1.911	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12	1.933 1.933 1.93 1.922 1.918 1.911 1.908 1.908	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1	1.933 1.933 1.93 1.922 1.918 1.911 1.908	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12	1.933 1.933 1.93 1.922 1.918 1.911 1.908 1.908	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7	1.933 1.933 1.93 1.922 1.918 1.911 1.908 1.908	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122
SPATA6 LASS4 LOCI30576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2	1.933 1.933 1.93 1.922 1.918 1.911 1.908 1.908	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15	1.933 1.933 1.93 1.922 1.918 1.911 1.908 1.908 1.903 1.901 1.899 1.895 1.895	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11	1.933 1.933 1.932 1.912 1.918 1.908 1.908 1.903 1.903 1.899 1.895 1.898	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP, AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila)
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2	1.933 1.933 1.93 1.922 1.918 1.901 1.908 1.903 1.901 1.899 1.895 1.888 1.888	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2
SPATA6 LASS4 LOCI30576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27	1.933 1.933 1.932 1.918 1.911 1.908 1.908 1.903 1.901 1.899 1.895 1.89 1.885	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 01271 NM 182552	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2	1.933 1.933 1.932 1.912 1.918 1.908 1.908 1.903 1.901 1.899 1.895 1.888 1.887 1.885 1.885	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2 COBLL1	1.933 1.933 1.933 1.922 1.918 1.911 1.908 1.908 1.903 1.899 1.895 1.885 1.885 1.885 1.885	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014701 NM 014900	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2	1.933 1.933 1.932 1.912 1.918 1.908 1.908 1.903 1.901 1.899 1.895 1.888 1.887 1.885 1.885	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25
SPATA6 LASS4 LOCI30576 RUNDCI ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25	1.933 1.933 1.932 1.918 1.911 1.908 1.908 1.903 1.901 1.899 1.895 1.887 1.887 1.883 1.883	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 014900 NM 022497	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase,
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B	1.933 1.933 1.933 1.922 1.918 1.911 1.908 1.908 1.903 1.899 1.895 1.888 1.887 1.885 1.883 1.883 1.885	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014701 NM 014900 NM 022497 NM 003558	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A	1.933 1.933 1.933 1.922 1.918 1.901 1.908 1.903 1.901 1.899 1.895 1.89 1.885 1.888 1.888 1.887 1.885	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60r56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 003558 NM 014721 NM 182552 NM 014721 NM 14900 NM 022497 NM 03558 NM 03558	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B	1.933 1.933 1.933 1.922 1.918 1.911 1.908 1.908 1.903 1.899 1.895 1.888 1.887 1.885 1.883 1.883 1.885	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014701 NM 014900 NM 022497 NM 003558	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3
SPATA6 LASS4 LOCI30576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBL11 MRPS25 PIPSK1B GPM6A STRN3	1.933 1.933 1.932 1.918 1.911 1.908 1.908 1.903 1.901 1.899 1.895 1.885 1.885 1.883 1.885 1.887 1.879	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 105271 NM 182552 NM 014721 NM 014900 NM 022497 NM 003558 NM 003558 NM 0014574	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A
SPATA6 LASS4 LOCI30576 RUNDCI ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10	1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.908 1.901 1.899 1.895 1.885 1.885 1.883 1.879 1.876 1.873 1.874 1.875 1.	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP, AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C6or156; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MS84; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 182552 NM 014721 NM 182552 NM 014721 NM 014900 NM 022497 NM 03558 NM 03558 NM 014574 NM 014574 NM 01004360	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2	1.933 1.933 1.933 1.922 1.918 1.919 1.908 1.908 1.903 1.901 1.899 1.895 1.895 1.885 1.887 1.885 1.887 1.885 1.887 1.886 1.879 1.876 1.871 1.831 1.843	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 02354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 014900 NM 022497 NM 003558 NM 003558 NM 001592 NM 01592 NM 0145704 NM 003558 NM 001592 NM 0145704 NM 003558 NM 014500 NM 004422	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila)
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17	1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.909 1.899 1.895 1.885 1.885 1.885 1.885 1.887 1.876 1.877 1.876 1.873 1.848 1.848 1.845 1.845	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZG3H2; FLB6421; ZC3HDC2; FLJ13288;	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 182552 NM 014721 NM 198086 NM 002442 NM 015271 NM 182552 NM 015271 NM 182552 NM 014721 NM 015271 NM 182552 NM 014721 NM 015271 NM 01520 NM 004422 NM 004422 NM 016102	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A	1.933 1.933 1.933 1.922 1.918 1.901 1.908 1.903 1.901 1.899 1.895 1.885 1.885 1.888 1.887 1.885 1.883 1.879 1.876 1.87 1.876 1.87 1.873 1.845 1.845 1.839	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60r156; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F1089;	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 182552 NM 014721 NM 003558 NM 022497 NM 003558 NM 003558 NM 001004360 NM 004422 NM 016102 NM 001616	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17	1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.909 1.899 1.895 1.885 1.885 1.885 1.885 1.887 1.876 1.877 1.876 1.873 1.848 1.848 1.845 1.845	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZG3H2; FLB6421; ZC3HDC2; FLJ13288;	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 182552 NM 014721 NM 198086 NM 002442 NM 015271 NM 182552 NM 015271 NM 182552 NM 014721 NM 015271 NM 182552 NM 014721 NM 015271 NM 01520 NM 004422 NM 004422 NM 016102	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A	1.933 1.933 1.933 1.922 1.918 1.911 1.908 1.903 1.901 1.899 1.895 1.895 1.885 1.887 1.885 1.887 1.885 1.887 1.886 1.879 1.876 1.876 1.845 1.845 1.845 1.845 1.835	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686F019171	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 014900 NM 022497 NM 003558 NM 02497 NM 003558 NM 001592 NM 014574 NM 01592 NM 014574 NM 001004360 NM 004422 NM 016102 NM 016102 NM 016106	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL	1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.909 1.899 1.895 1.89 1.885 1.885 1.887 1.885 1.887 1.879 1.870 1.870 1.870 1.871 1.874 1.833 1.845 1.835 1.835	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60r56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3412; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686019171 RNF189; RNF34L	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 104900 NM 022497 NM 003558 NM 024787 NM 015271 NM 105271 NM 015271 NM 015282 NM 016102 NM 001616 NM 024625 NM 001017368	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL UNG2	1.933 1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.908 1.901 1.899 1.895 1.895 1.885 1.885 1.885 1.885 1.883 1.885 1.883 1.884 1.845 1.839	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP, ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 RNF189; RNF34L UDG2; FLJ22422	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 015271 NM 182552 NM 014721 NM 014900 NM 022497 NM 003558 NM 201592 NM 014574 NM 001004360 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 01017368	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL UNG2 LMX1A	1.933 1.933 1.933 1.922 1.911 1.908 1.903 1.901 1.899 1.895 1.885 1.887 1.885 1.887 1.885 1.887 1.883 1.884 1.	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C6orf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686H19171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 014900 NM 022497 NM 003558 NM 024787 NM 014900 NM 02402 NM 016102 NM 016102 NM 016102 NM 016102 NM 016166 NM 024625 NM 001017368 NM 021147 NM 177398	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL UNG2 LMX1A TSPAN14	1.933 1.933 1.933 1.922 1.911 1.908 1.908 1.903 1.901 1.899 1.895 1.895 1.885 1.885 1.887 1.885 1.883 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM4SF14; DC-TM#F2; MGC11352	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 014900 NM 022497 NM 003558 NM 024787 NM 014900 NM 02592 NM 014721 NM 014900 NM 02402 NM 016102 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 021147 NM 0117398 NM 030927	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL UNG2 LMX1A TSPAN14 C90RF7	1.933 1.933 1.933 1.933 1.931 1.922 1.918 1.908 1.908 1.908 1.909 1.899 1.895 1.89 1.885 1.885 1.885 1.885 1.885 1.885 1.883 1.833 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60rf36; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686019171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM4SF14; DC-TM4F2; MGC11352 D9S2135	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 182552 NM 014721 NM 02497 NM 003558 NM 022497 NM 003558 NM 010104360 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 021147 NM 177398 NM 021147 NM 177398 NM 00107586	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOCI30576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2 COBL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL UNG2 LMX1A TSPAN14 C90RF7 E2F5	1.933 1.933 1.933 1.933 1.932 1.918 1.908 1.908 1.908 1.901 1.899 1.895 1.89 1.885 1.883 1.883 1.883 1.883 1.833 1.833 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP, AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C6or156; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MS84; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP, ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM48F14; DC-TM4F2; MGC11352 D9S2135 E2F-5	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 104900 NM 022497 NM 003558 NM 003558 NM 00101616 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 021147 NM 0177398 NM 021147 NM 177398 NM 030927 NM 017586 NM 001951	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA zinc finger CCCH-type, antiviral 1 ring finger and FYVE-like domain containing 1 uracil-DNA glycosylase 2 LIM homeobox transcription factor 1, alpha tetraspanin 14 chromosome 9 open reading frame 7 E2F transcription factor 5, p130-binding
SPATA6 LASS4 LOC130576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MS11 TRIM2 WDR27 PHACTR2 COBLL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL UNG2 LMX1A TSPAN14 C90RF7	1.933 1.933 1.933 1.933 1.931 1.922 1.918 1.908 1.908 1.908 1.909 1.899 1.895 1.89 1.885 1.885 1.885 1.885 1.885 1.885 1.883 1.833 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60rf36; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686019171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM4SF14; DC-TM4F2; MGC11352 D9S2135	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 182552 NM 014721 NM 02497 NM 003558 NM 022497 NM 003558 NM 010104360 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 021147 NM 177398 NM 021147 NM 177398 NM 00107586	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA
SPATA6 LASS4 LOCI30576 RUNDC1 ZNF154 CDK5RAP3 RP3-473B4.1 KLF12 ENTPD7 ID1 RNF122 LCMT2 RAB15 MSI1 TRIM2 WDR27 PHACTR2 COBL1 MRPS25 PIP5K1B GPM6A STRN3 DPP10 DVL2 TRIM17 ACVR2A ZC3HAV1 RFFL UNG2 LMX1A TSPAN14 C90RF7 E2F5	1.933 1.933 1.933 1.933 1.932 1.918 1.908 1.908 1.908 1.901 1.899 1.895 1.89 1.885 1.883 1.883 1.883 1.883 1.833 1.833 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP, AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MS11 RNF86; KIAA0517 MGC43690 C6or156; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MS84; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP, ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM48F14; DC-TM4F2; MGC11352 D9S2135 E2F-5	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 020354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 104900 NM 022497 NM 003558 NM 003558 NM 00101616 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 021147 NM 0177398 NM 021147 NM 177398 NM 030927 NM 017586 NM 001951	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA zinc finger CCCH-type, antiviral 1 ring finger and FYVE-like domain containing 1 uracil-DNA glycosylase 2 LIM homeobox transcription factor 1, alpha tetraspanin 14 chromosome 9 open reading frame 7 E2F transcription factor 5, p130-binding midnolin
SPATA6	1.933 1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.908 1.909 1.899 1.895 1.89 1.885 1.887 1.885 1.887 1.885 1.883 1.879 1.876 1.871 1.833 1.845 1.835 1.833 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60r56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP; ZC3412; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM4SF14; DC-TM4F2; MGC11352 D9S2135 E2F-5 DKFZp647M072	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 0020554 NM 181353 NM 024787 NM 014793 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 014721 NM 104900 NM 022497 NM 003558 NM 014721 NM 014900 NM 022497 NM 015271 NM 015271 NM 1016102 NM 001616 NM 004422 NM 016102 NM 001616 NM 024625 NM 001017368 NM 021147 NM 177398 NM 030927 NM 030927 NM 017586 NM 001951 NM 017586 NM 001951 NM 177401	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA zinc finger CCCH-type, antiviral 1 ring finger and FYVE-like domain containing 1 uracil-DNA glycosylase 2 LIM homeobox transcription factor 1, alpha tetraspanin 14 chromosome 9 open reading frame 7 E2F transcription factor 5, p130-binding midnolin family with sequence similarity 126, member
SPATA6	1.933 1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.908 1.909 1.899 1.895 1.895 1.885 1.885 1.885 1.885 1.885 1.883 1.833 1.833 1.833 1.833 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP, ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM4SF14; DC-TM4F2; MGC11352 D9S2135 E2F-5 DKFZp547M072 MGC39518	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 02354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 015271 NM 182552 NM 014721 NM 015271 NM 198086 NM 002442 NM 015271 NM 182552 NM 016102 NM 00101368 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 021147 NM 177398 NM 030927 NM 017586 NM 001951 NM 177401 NM 173822	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA zinc finger CCCH-type, antiviral 1 ring finger and FYVE-like domain containing 1 uracil-DNA glycosylase 2 LIM homeobox transcription factor 1, alpha tetraspanin 14 chromosome 9 open reading frame 7 E2F transcription factor 5, p130-binding midnolin family with sequence similarity 126, member
SPATA6	1.933 1.933 1.933 1.933 1.922 1.918 1.908 1.908 1.908 1.909 1.899 1.895 1.895 1.885 1.885 1.885 1.885 1.885 1.883 1.833 1.833 1.833 1.833 1.833 1.833 1.833	SRF1; SRF-1; FLJ10007 Trh1; FLJ12089 LOC130576 DKFZp761H0421 C53; IC53; HSF-27; MST016; OK/SW-cl.114 RP3-473B4.1 AP2REP; AP-2rep; HSPC122 LALP1; FLJ30978; RP11-483F11.1 ID FLJ12526; MGC126622 PPM2; TYW4; MGC9534; KIAA0547 RAB15 MSI1 RNF86; KIAA0517 MGC43690 C60rf56; KIAA0680; DKFZp686F18175 KIAA0977 RPMS25; MRP-S25; FLJ00023; DKFZp313H0817 MSS4; STM7 M6A; GPM6 SG2NA DPL2; DPPY; DPRP3 DVL2 RBCC; terf; RNF16 ACVR2; ACTRII ZAP, ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 RNF189; RNF34L UDG2; FLJ22422 LMX1; LMX-1; LMX1.1; MGC87616 TM4SF14; DC-TM4F2; MGC11352 D9S2135 E2F-5 DKFZp547M072 MGC39518	NM 019073 NM 024552 NM 177964 NM 173079 NM 003444 NM 176095 NM 138819 NM 007249 NM 02354 NM 181353 NM 024787 NM 014793 NM 198686 NM 002442 NM 015271 NM 182552 NM 015271 NM 182552 NM 014721 NM 015271 NM 198086 NM 002442 NM 015271 NM 182552 NM 016102 NM 00101368 NM 004422 NM 016102 NM 001616 NM 024625 NM 01017368 NM 021147 NM 177398 NM 030927 NM 017586 NM 001951 NM 177401 NM 173822	spermatogenesis associated 6 LAG1 longevity assurance homolog 4 (S. cerevisiae) hypothetical protein LOC130576 RUN domain containing 1 CDK5 regulatory subunit associated protein 3 family with sequence similarity 122C Kruppel-like factor 12 ectonucleoside triphosphate diphosphohydrolase 7 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein ring finger protein 122 leucine carboxyl methyltransferase 2 RAB15, member RAS onocogene family musashi homolog 1 (Drosophila) tripartite motif-containing 2 WD repeat domain 27 phosphatase and actin regulator 2 COBL-like 1 mitochondrial ribosomal protein S25 phosphatidylinositol-4-phosphate 5-kinase, type 1, beta glycoprotein M6A striatin, calmodulin binding protein 3 dipeptidyl-peptidase 10 dishevelled, dsh homolog 2 (Drosophila) tripartite motif-containing 17 activin A receptor, type IIA zinc finger CCCH-type, antiviral 1 ring finger and FYVE-like domain containing 1 uracil-DNA glycosylase 2 LIM homeobox transcription factor 1, alpha tetraspanin 14 chromosome 9 open reading frame 7 E2F transcription factor 5, p130-binding midnolin family with sequence similarity 126, member B transmembrane protein 92

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FLJ39155	1.805	FLJ39155	NM 152403	EGF-like, fibronectin type III and laminin G domains
		JNK3; JNK3A; PRKM10; p493F12; FLJ12099;	_	
MAPK10	1.804	FLJ33785; MGC50974; p54bSAPK AASL548: PRO1105; FLJ90779; RP4-622L5;	NM_002753	mitogen-activated protein kinase 10
C1ORF91	1.799	dJ622L5.7; RP4-622L5.3	NM_019118	chromosome 1 open reading frame 91
FARP1	1.798	CDEP; PLEKHC2; MGC87400	NM 001001715	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived)
		CBEI, I BEITICE, INGCOT 100	_	wingless-type MMTV integration site family,
WNT3 OVOL1	1.795 1.794	INT4; MGC131950; MGC138321; MGC138323 HOVO1	NM_030753 NM_004561	member 3 ovo-like 1(Drosophila)
TSC1	1.794	LAM; TSC; KIAA0243; MGC86987	NM_004361 NM_000368	tuberous sclerosis 1
RXRG	1.79	RXRC; NR2B3	NM 001009598	retinoid X receptor, gamma
USP49	1.788	MGC20741	NM_018561	ubiquitin specific peptidase 49
VEGF	1.788	VPF; VEGFA; MGC70609 MGC119395; MGC119397; dJ366N23.1;	NM_001025366	vascular endothelial growth factor
UNC93A	1.785	dJ366N23.2	NM_018974	unc-93 homolog A (C. elegans)
C8ORF72	1.766	FAM110B; MGC39325	NM_147189	chromosome 8 open reading frame 72
TREM1	1.764	TREM-1	NM 018643	triggering receptor expressed on myeloid cells
C14ORF101	1.762	FLJ20392	NM_017799	chromosome 14 open reading frame 101
WNK3	1.761	PRKWNK3; KIAA1566 CED12; CED-12; ELMO-1; KIAA0281;	NM_001002838	WNK lysine deficient protein kinase 3
ELMO1	1.76	MGC126406	NM_014800	engulfment and cell motility 1
MESP1	1.758	MGC10676	NM_018670	mesoderm posterior 1 homolog (mouse)
EML4	1.756	C2orf2; ELP120; ROPP120; FLJ10942; FLJ32318; DKFZp686P18118	NM 019063	echinoderm microtubule associated protein like 4
LOC283932	1.756	·	NM_175901	- IIII 7
LOC389289	1.756	LOC389289	NM_001014279	similar to annexin II receptor
CRHBP	1.755	CRFBP; CRF-BP	NM 001882	corticotropin releasing hormone binding protein
MUS81	1.748	FLJ21012; FLJ44872	NM_025128	MUS81 endonuclease homolog (S. cerevisiae)
RFP2	1.744	CAR; LEU5; DLEU5; RNF77; TRIM13	NM_001007278	ret finger protein 2
TAL2	1.743	TAL2	NM_005421	T-cell acute lymphocytic leukemia 2
SPAG4	1.742	SPAG4 ERR3; NR3B3; FLJ16023; KIAA0832;	NM_003116	sperm associated antigen 4
ESRRG	1.741	DKFZp781L1617	NM_206595	estrogen-related receptor gamma
ZNF513	1.74	FLJ32203; HMFT0656	NM_144631	zinc finger protein 513
ZNF558 LOC388969	1.74 1.738	FLJ30932 LOC388969; FLJ14112; FLJ35653; MGC131675	NM_144693 NM_001013649	zinc finger protein 558 hypothetical LOC388969
ZNF135	1.737	pT3; ZNF61; pHZ-17; ZNF78L1	NM 003436	zinc finger protein 135
ALPK3	1.735	MAK; MIDORI; FLJ21176; KIAA1330	NM_020778	alpha-kinase 3
ZBTB10	1.721	RINZF; FLJ12752	NM_023929	zinc finger and BTB domain containing 10
LAMC3 TMEM50B	1.72 1.717	DKFZp434E202 C21orf4; HCVP7TP3; DKFZp686C2482	NM_006059 NM_006134	laminin, gamma 3 transmembrane protein 50B
ZC3H12B	1.717	CXorf32	NM 001010888	zinc finger CCCH-type containing 12B
ABHD4	1.716	FLJ12816	NM_022060	abhydrolase domain containing 4
LOC125893	1.713	LOC125893; MGC125619	NM_001031665	hypothetical protein LOC125893
ZNF436 C1ORF63	1.712	ZNF; KIAA1710 NPD014; DJ465N24.2.1; RP3-465N24.4	NM_030634 NM_020317	zinc finger protein 436 chromosome 1 open reading frame 63
RFPL3	1.71	RFPL3	NM 006604	ret finger protein-like 3
C9ORF40	1.709	FLJ10110; FLJ25795	NM_017998	chromosome 9 open reading frame 40
DGCR8 LMOD3	1.705 1.703	Gy1; DGCRK6; C22orf12 DKFZp313F0135	NM_022720 NM_198271	DiGeorge syndrome critical region gene 8
FOXA2	1.703	HNF3B; TCF3B; MGC19807	NM 021784	forkhead box A2
ZNF662	1.701	FLJ45880	NM_207404	zinc finger protein 662
SI C22 A 15	1.699	ELIDET, DDO24696, DVEZ#761C0212	NM 018420	solute carrier family 22 (organic cation
SLC22A15	1.099	FLIPT1; PRO34686; DKFZp761G0313	NWI_018420	transporter), member 15 asparagine-linked glycosylation 14 homolog
ALG14	1.699	MGC19780	NM_144988	(yeast)
LMBRD1	1.698	C6orf209; FLJ11240; bA810I22.1; RP11-810I22.1	NM_018368	LMBR1 domain containing 1
HSD11B2 LOC399744	1.697 1.696	AME; AME1; HSD2; HSD11K LOC399744	NM_000196 NM_001013665	hydroxysteroid (11-beta) dehydrogenase 2 hypothetical LOC399744
NETO2	1.695	NEOT2; FLJ10430; FLJ14724; FLJ90456	NM_018092	neuropilin (NRP) and tolloid (TLL)-like 2
ZNF235	1.694	HZF6; ZFP93; ANF270; ZNF270	NM_004234	zinc finger protein 235
LIPG	1.686	EL; EDL; PRO719	NM_006033	lipase, endothelial
SNAI1 FLJ13236	1.685 1.681	SNA; SNAH; SLUGH2; dJ710H13.1 FLJ13236	NM_005985 NM_024902	snail homolog 1 (Drosophila) hypothetical protein FLJ13236
		HOPA; OPA1; CAGH45; TNRC11; TRAP230;		mediator of RNA polymerase II transcription,
MED12	1.677	KIAA0192	NM_005120	subunit 12 homolog (S. cerevisiae)
EFNA4	1.675	EFL4; EPLG4; LERK4; MGC125826 HPTP; PTPD; HPTPD; MGC119750; MGC119751;	NM_005227	ephrin-A4
		MGC119752; MGC119753; HPTP-DELTA; R-PTP-		
PTPRD	1.675	DELTA	NM_130391	protein tyrosine phosphatase, receptor type, D
DDX17	1.674	P72; RH70; DKFZp761H2016	NM 030881	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
		, ,	_	solute carrier family 5 (inositol transporters),
SLC5A3	1.673	SMIT; SMIT2	NM_006933	member 3
RBM33 ZDHHC11	1.672 1.669	KIAA1604 ZNF399; FLJ13153	NM_001008408 NM_024786	RNA binding motif protein 33 zinc finger, DHHC-type containing 11
				Mdm4, transformed 3T3 cell double minute 4,
MDM4	1.663	MDMX; MRP1; MGC132766; DKFZp781B1423	NM_002393	p53 binding protein (mouse)
CHD7	1.663	FLJ20357; FLJ20361; KIAA1416	NM 017780	chromodomain helicase DNA binding protein
			_	cell division cycle 42 (GTP binding protein,
CDC42	1.662	G25K; CDC42Hs	NM_044472	25kDa)
STK32A FLJ39827	1.661 1.657	YANK1; MGC22688 FLJ39827; RP11-403E24.2	NM_145001 NM_152424	serine/threonine kinase 32A family with sequence similarity 123B
1200,021	1.057	MSP; PSP; IGBF; MSPB; PN44; PRPS; PSP57;	1111_102727	
MSMB	1.656	PSP94; PSP-94	NM_002443	microseminoprotein, beta-
FLJ38717	1.654	FLJ38717; FLJ40915	NM_001004322	FLJ38717 protein AFG3 ATPase family gene 3-like 1 (S.
AFG3L1	1.653	AFG3; FLJ45200	NM_001031805	cerevisiae)
				SH3 domain binding glutamic acid-rich
SH3BGRL2	1.651	FLJ90025	NM_031469	protein like 2

1		1	1	1 Late
SLC25A24	1.65	APC1; SCAMC-1; DKFZp586G0123	NM 013386	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24
AGXT2L1	1.65	GALC	NM_031279	alanine-glyoxylate aminotransferase 2-like 1
				MCF.2 cell line derived transforming
MCF2L2	1.649	FLJ42509; KIAA0861; DKFZp686K0690	NM_015078	sequence-like 2
MGC35048 ZFX	1.647 1.646	FLJ20115; FLJ36575; MGC35048 ZFX	NM_153208 NM_003410	IQ motif containing K zinc finger protein, X-linked
ZFX	1.040	ZrX	NM_003410	6-phosphofructo-2-kinase/fructose-2,6-
PFKFB3	1.645	PFK2; IPFK2	NM 004566	biphosphatase 3
C17ORF80	1.643	MIG3; HLC-8; FLJ20721	NM 017941	chromosome 17 open reading frame 80
		ANKHZN; ZFYVE14; KIAA1255;	_	ankyrin repeat and FYVE domain containing
ANKFY1	1.641	DKFZp686M19106	NM_020740	1
ZNF446	1.633	ZSCAN30; FLJ20626	NM_017908	zinc finger protein 446
ARHGEF11	1.631	GTRAP48; KIAA0380; PDZ-RHOGEF	NIM 014794	Rho guanine nucleotide exchange factor (GEF) 11
RFXAP	1.626	RFXAP	NM_014784 NM_000538	regulatory factor X-associated protein
EMB	1.625	MGC71745	NM 198449	embigin homolog (mouse)
Livid	1.020	STX; SIAT8B; HsT19690; MGC116854;	1111_170117	ST8 alpha-N-acetyl-neuraminide alpha-2,8-
ST8SIA2	1.624	MGC116857; ST8SIA-II	NM_006011	sialyltransferase 2
				collagen, type IV, alpha 3 (Goodpasture
COL4A3BP	1.62	CERT; GPBP; CERTL; STARD11	NM_005713	antigen) binding protein
GPR89A	1.615	GPR89; SH120	NM_016334	G protein-coupled receptor 89A
C1ORF106	1.609	FLJ10901; MGC125608	NM_018265	chromosome 1 open reading frame 106
CAMK2D	1.606	CAMKD; MGC44911	NM 001221	calcium/calmodulin-dependent protein kinase (CaM kinase) II delta
DKFZP547C195	1.603	DKFZp547C195	NM 207343	hypothetical protein DKFZp547C195
DICI ZI 547C175	1.003	FLJ35954; DKFZP781I1119; DKFZp781G1119;	1414_207545	mesoderm induction early response 1, family
DKFZP781I1119	1.6	DKFZp781I1119; DKFZp686L09111	NM_152622	member 3
		II; HVR1; RDC1; VIPR; VIRG; VAPC1; VPAC1;	_	
VIPR1	1.598	PACAP-R-2	NM_004624	vasoactive intestinal peptide receptor 1
ICA1	1.598		NM_022308	
CEMACD	1.503	EL 111500, VIA A 1470	NIM 024066	sema domain, transmembrane domain (TM),
SEMA6D OCLN	1.593	FLJ11598; KIAA1479	NM_024966 NM_002538	and cytoplasmic domain, (semaphorin) 6D occludin
OCLIN	1.592	OCLN	INIVI_002538	ATPase, Na+/K+ transporting, beta 1
ATP1B1	1.59	ATP1B; MGC1798	NM 001677	polypeptide
	1.57		1111_0010//	phosphatidylinositol-4-phosphate 5-kinase,
PIP5K2B	1.586	Pip4k2B; PIP5KIIB	NM_138687	type II, beta
				fucosyltransferase 8 (alpha (1,6)
FUT8	1.585	MGC26465	NM_178154	fucosyltransferase)
		C7orf12; FLJ21213; FLJ21879; FLJ41901;		
NBLA04196	1.585	NBLA04196	NM_022900	CAS1 domain containing 1
GGT2	1.583	GGT	NM_002058	gamma-glutamyltransferase 2
ETV3 GTPBP3	1.58	PE1; METS; PE-1; bA110J1.4 MSS1; MTGP1; THDF1; GTPBG3; FLJ14700	NM_005240 NM_133644	ets variant gene 3 GTP binding protein 3 (mitochondrial)
HOOK3	1.578 1.577	HK3	NM 032410	hook homolog 3 (Drosophila)
PARP6	1.573	TIKS	NM 020213	nook nomolog 5 (Diosophila)
MGC21830	1.569	MGC21830	NM 182563	chromosome 16 open reading frame 79
C17ORF55	1.563	FLJ39421; MGC120553; MGC120556	NM 178519	chromosome 17 open reading frame 55
GPHN	1.563	GPH; GEPH; GPHRYN; KIAA1385	NM_020806	gephyrin
FLJ10815	1.562	FLJ10815; FLJ12724	NM_018231	amino acid transporter
LBR	1.558	PHA; LMN2R; DHCR14B; MGC9041	NM_002296	lamin B receptor
IQCA	1.557	FLJ22527; 4930465P12Rik	NM_024726	IQ motif containing with AAA domain
DBN1 KIAA1618	1.557	D0S117E; DKFZp434D064	NM_004395	drebrin 1
LOC349338	1.557 1.555	SPAG16 FLJ00038	NM_020954 NM_182905	KIAA1618 CXYorf1-related protein
LOC345556	1.555	FL300036	NWI_162903	WW domain containing adaptor with coiled-
WAC	1.551	Wwp4; BM-016; PRO1741; MGC10753; bA48B24.1	NM 100264	coil
ZNF343	1.547	FLJ39592; MGC10715; MGC20504; dJ734P14.5	NM 024325	zinc finger protein 343
		ACAT; SOAT; STAT; ACACT; ACAT1; RP11-		sterol O-acyltransferase (acyl-Coenzyme A:
SOAT1	1.547	215I23.2	NM_003101	cholesterol acyltransferase) 1
TEE1		"CA. DOEL HDCA. HDLA AND C. POLCOL	NIM 00222	trefoil factor 1 (breast cancer, estrogen-
TFF1	1.544	pS2; BCEI; HPS2; HP1.A; pNR-2; D21S21 KOX2; KOX5; KOX31; ZNF11; ZNF33; ZZAPK;	NM_003225	inducible sequence expressed in)
ZNF33A	1.543	KOX2; KOX5; KOX31; ZNF11; ZNF33; ZZAPK; ZNF11A; FLJ23404; KIAA0065	NM 006974	zinc finger protein 33A
EFNA4	1.539	EFL4; EPLG4; LERK4; MGC125826	NM 182690	ephrin-A4
	1.007	, , ,		leucine-rich repeats and calponin homology
LRCH3	1.537	MGC4126	NM_032773	(CH) domain containing 3
			l	solute carrier family 30 (zinc transporter),
SLC30A1	1.53	ZNT1; ZRC1	NM_021194	member 1
ATD2D1	1.520	PMCA1	NIM 001001222	ATPase, Ca++ transporting, plasma membrane 1
ATP2B1	1.529	Y14; RBM8; ZNRP; RBM8B; ZRNP1; BOV-1A;	NM_001001323	memorane i
RBM8A	1.529	BOV-1B; BOV-1C; MDS014	NM 005105	RNA binding motif protein 8A
LOC440925	1.528	LOC440925	NM 001013712	hypothetical gene supported by AK123485
HSA277841	1.524	ELG; HSA277841	NM_018553	chromosome 17 open reading frame 85
ZNF548	1.523	FLJ32932	NM_152909	zinc finger protein 548
D. E		0.0120 0.000 1.000		pleckstrin homology domain containing,
PLEKHO1	1.522	OC120; CKIP-1; RP11-458I7.3	NM_016274	family O member 1
MSX2 CTGLF1	1.521 1.521	FPP; MSH; PFM; CRS2; HOX8; PFM1 MRIP2; CTGLF5	NM_002449 NM_133446	msh homeobox homolog 2 (Drosophila) centaurin, gamma-like family, member 1
RGS8	1.521	MGC119067; MGC119068; MGC119069	NM_133446 NM_033345	regulator of G-protein signalling 8
1000	1.317	JNKK; MEK4; MKK4; SEK1; JNKK1; SERK1;	11171_0000+0	regulator of o protein signaturing o
MAP2K4	1.519	MAPKK4; PRKMK4	NM_003010	mitogen-activated protein kinase kinase 4
PDLIM5	1.513	L9; ENH; LIM	NM_006457	PDZ and LIM domain 5
ASAM	1.509	ASAM; ACAM; CLMP; FLJ22415	NM_024769	adipocyte-specific adhesion molecule
			1	SWI/SNF related, matrix associated, actin
GMAR GET		DARSE	ND 4 00005-	dependent regulator of chromatin, subfamily
SMARCE1	1.507	BAF57	NM_003079	e, member 1
C21ORF66	1.505	GCFC; BM-020; FLJ90561	NM_016631	chromosome 21 open reading frame 66 Williams Beuren syndrome chromosome
WBSCR18	1.505	MGC12943	NM 032317	region 18
PCDHA12	1.502	MGC12945 MGC138485; MGC141932; PCDH-ALPHA12	NM 031864	protocadherin alpha 12
ING3	1.502	Eaf4; ING2; p47ING3; FLJ20089	NM 198267	inhibitor of growth family, member 3
TRIM6	1.5	RNF89	NM_058166	tripartite motif-containing 6
FGF13	1.494	FGF2; FHF2	NM_033642	fibroblast growth factor 13
		-		-

CYP4X1	1.404	MCC40051	NM 170022	cytochrome P450, family 4, subfamily X,
	1.494	MGC40051	NM_178033	polypeptide 1
ZNF660	1.49	FLJ36870	NM_173658	zinc finger protein 660
AACS	1.488	SUR-5; FLJ12389; FLJ41251	NM_023928	acetoacetyl-CoA synthetase
SLC25A34	1.483	RP11-169K16.2; DKFZp781A10161	NM_207348	solute carrier family 25, member 34
ARMC8	1.483	S863-2; HSPC056; MGC4880; MGC10058	NM_015396	armadillo repeat containing 8
BIRC2	1.482	API1; MIHB; HIAP2; RNF48; cIAP1; Hiap-2	NM_001166	baculoviral IAP repeat-containing 2
YTHDC1	1.48	YT521; YT521-B; KIAA1966	NM_133370	YTH domain containing 1
PLAC8	1.48	C15; onzin	NM_016619	placenta-specific 8
BRD2	1.476	NAT; RNF3; FSRG1; RING3; D6S113E; FLJ31942; KIAA9001; DKFZp686N0336	NM_005104	bromodomain containing 2
OLR1	1.474	LOX1; CLEC8A; SCARE1	NM_002543	oxidised low density lipoprotein (lectin-like) receptor 1
STAT4	1.473	STAT4	NM_003151	signal transducer and activator of transcription 4
CCDC45	1.47	DKFZp667E1824	NM_138363	coiled-coil domain containing 45
HSD17B7	1.467	PRAP; MGC12523; MGC75018	NM_016371	hydroxysteroid (17-beta) dehydrogenase 7
PDZRN3	1.465	LNX3; SEMACAP3	NM_015009	PDZ domain containing RING finger 3
CSNK1G1	1.465	FIBP	NM_022048	casein kinase 1, gamma 1
CNR1	1.465	CB1; CNR; CB-R; CB1A; CANN6; CB1K5	NM_016083	cannabinoid receptor 1 (brain)
		ASIP; PAR3; SE2-5T2; FLJ21015; SE2-5L16; SE2-		par-3 partitioning defective 3 homolog (C.
PARD3	1.463	5LT1; PAR3alpha	NM_019619	elegans)
AHR	1.459	AHR	NM_001621	aryl hydrocarbon receptor
MFSD7	1.457	LP2561; FLJ22269	NM 032219	major facilitator superfamily domain containing 7
		orf1; MGC10775; MGC11225; MGC18164;	_	Ü
MAX	1.45	MGC34679; MGC36767	NM 197957	MYC associated factor X
NPY1R	1.45	NPYR	NM 000909	neuropeptide Y receptor Y1
		LCA; CYGD; LCA1; CORD5; CORD6; GUC2D;		guanylate cyclase 2D, membrane (retina-
GUCY2D	1.449	retGC; GUC1A4; RETGC-1; ROS-GC1	NM_000180	specific) cytochrome P450, family 20, subfamily A,
CYP20A1	1.447	CYP-M; MGC22229	NM 177538	polypeptide 1
FLJ40113	1.447	FLJ40113; FLJ35171	NM_17/538 NM_198079	golgi autoantigen, golgin subfamily a-like
1 LJ40113	1.440	RICS; GRIT; GC-GAP; MGC1892; p250GAP;	1NIVI_170U/9	gorgi autoantigen, gorgin subtaininy a-fike
RICS	1.445	RICS; GRIT; GC-GAP; MGC1892; p250GAP; KIAA0712; p200RhoGAP	NM 014715	Rho GTPase-activating protein
ZNF480	1.445	MGC32104	NM_014/15 NM_144684	zinc finger protein 480
ZNF223	1.434	ZNF223	NM 013361	zinc finger protein 223
ZNF223 ZNF740			NM 001004304	
	1.431	Zfp740; MGC61706 LAMP; CD208; DCLAMP; TSC403; DC-LAMP	NM 014398	zinc finger protein 740 lysosomal-associated membrane protein 3
LAMP3	1.427	LAMP; CD208; DCLAMP; TSC403; DC-LAMP	NM_014398	
RABL2A	1.427	MGC117180	NM_013412	RAB, member of RAS oncogene family-like 2A
CD II 2	1 422	NG FAIGA GEERAA MGGRAA	313.6.20.602.5	guanine nucleotide binding protein-like 3
GNL3	1.423	NS; E2IG3; C77032; MGC800	NM_206825	(nucleolar)
MLR2	1.422	MLR2; FLJ38026; KIAA1795; RP11-175019.1	NM_032440	ligand dependent nuclear receptor corepressor
RNF19	1.417	DORFIN; DKFZp566B1346	NM_015435	ring finger protein 19
FLJ34443	1.417	FLJ34443	NM_175918	cysteine-rich PAK1 inhibitor
PIP5K2B	1.417	Pip4k2B; PIP5KIIB	NM_138687	phosphatidylinositol-4-phosphate 5-kinase, type II, beta
FRAS1	1.415		NM_206841	
NSUN3	1.412	MST077; MSTP077; FLJ22109; FLJ22609 PARIS1; PARIS-1; TBC1D2A; FLJ10702;	NM_022072	NOL1/NOP2/Sun domain family, member 3
TBC1D2	1.41	FLJ16244; FLJ42782; DKFZp761D1823	NM 018421	TBC1 domain family, member 2
PHF21B	1.41	PHF4; BHC80L; FLJ34161	NM 138415	PHD finger protein 21B
FLJ13946	1.407	FLJ13946	NM 152275	tetratricopeptide repeat domain 30A
	1.40/	BMD; CMD3B; DXS142; DXS164; DXS206;		
	1.407			
DMD	1.406	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272	NM_004019	dystrophin (muscular dystrophy, Duchenne and Becker types)
	1.406	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272	_	and Becker types) receptor (TNFRSF)-interacting serine-
DMD RIPK1		DXS230; DXS239; DXS268; DXS269; DXS270;	NM_004019 NM_003804	and Becker types)
	1.406	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204	_	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1
RIPK1	1.406 1.403 1.398	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31	NM_003804 NM_015975	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside
RIPK1	1.406	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204	NM 003804	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa
TAF9L SLC29A2 TTC10	1.406 1.403 1.398	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36	NM_003804 NM_015975 NM_001532 NM_175605	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas)
RIPK1 TAF9L SLC29A2	1.406 1.403 1.398 1.396	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E;	NM_003804 NM_015975 NM_001532	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog
TAF9L SLC29A2 TTC10	1.406 1.403 1.398 1.396	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2	NM_003804 NM_015975 NM_001532 NM_175605	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas)
TAF9L SLC29A2 TTC10 ZNF579	1.406 1.403 1.398 1.396 1.39 1.388	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1
TAF9L SLC29A2 TTC10 ZNF579 CXORF1	1.406 1.403 1.398 1.396 1.39 1.388 1.388	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1
TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2	1.406 1.403 1.398 1.396 1.39 1.388 1.388 1.388 1.378	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2	1.406 1.403 1.398 1.396 1.38 1.388 1.388 1.38 1.378 1.369	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans)
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311	1.406 1.403 1.398 1.396 1.39 1.388 1.388 1.388 1.378	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2	1.406 1.403 1.398 1.396 1.38 1.388 1.388 1.38 1.378 1.369	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311	1.406 1.403 1.398 1.396 1.39 1.388 1.388 1.388 1.388 1.389 1.369 1.369	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q	1.406 1.403 1.398 1.396 1.388 1.388 1.388 1.369 1.368 1.368 1.368	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172HD4-2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zB1 ZNF184	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 181 zinc finger protein 184 tubulin, beta polypeptide 4, member Q
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690	1.406 1.403 1.398 1.396 1.39 1.388 1.388 1.388 1.369 1.368 1.368 1.364	DX\$230; DX\$239; DX\$268; DX\$269; DX\$270; DX\$272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13\$1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034;	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP	1.406 1.403 1.398 1.396 1.396 1.388 1.388 1.388 1.369 1.368 1.364 1.362	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 0080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2	1.406 1.403 1.398 1.396 1.396 1.388 1.388 1.388 1.369 1.368 1.368 1.364 1.362 1.362	DX\$230; DX\$239; DX\$268; DX\$269; DX\$270; DX\$272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13\$1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial)
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF1311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990	1.406 1.403 1.398 1.396 1.39 1.388 1.388 1.388 1.369 1.368 1.368 1.362 1.362 1.362	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 018697	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zine finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zine finger protein 311 zine finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein Lanc lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2	1.406 1.403 1.398 1.396 1.396 1.388 1.388 1.388 1.369 1.368 1.368 1.364 1.362 1.362 1.361 1.359 1.354	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 002586	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing,
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF1311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990	1.406 1.403 1.398 1.396 1.39 1.388 1.388 1.388 1.369 1.368 1.368 1.362 1.362 1.362	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 018697	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2	1.406 1.403 1.398 1.396 1.396 1.388 1.388 1.388 1.369 1.368 1.368 1.364 1.362 1.362 1.361 1.359 1.354	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zf9690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC PEPP3; KIAA0969 HDB; INT6; DBI-1; DDX26; DICE1; DDX26A; Notch12; DKFZP434B105	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 002586	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing,
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORFI TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2 PLEKHA6	1.406 1.403 1.398 1.396 1.399 1.388 1.388 1.388 1.369 1.368 1.364 1.362 1.362 1.361 1.359 1.354	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC PEPP3; KIAA0969 HDB; INT6; DBI-1; DDX26; DICE1; DDX26A;	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 152517 NM 002586 NM 014935	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 184 tubulin, beta polypetide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial) pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing, family A member 6 integrator complex subunit 6 implantation-associated protein
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2 PLEKHA6 DDX26 DKFZP564K142	1.406 1.403 1.398 1.396 1.396 1.388 1.388 1.388 1.369 1.368 1.364 1.362 1.362 1.361 1.359 1.354 1.35 1.343	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 zf31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC PEPP3; KIAA0969 HDB; INT6; DBI-1; DDX26; DICE1; DDX26A; Notchl2; DKFZP434B105 DKFZp564K142; PR00756; FLJ14726; MGC64926; bA217H1.1; RP11-217H1.1	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 080732 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 0152517 NM 002586 NM 014935 NM 012141 NM 032121	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing, family A member 6 integrator complex subunit 6
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2 PLEKHA6 DDX26 DKFZP564K142 PIP5K2C	1.406 1.403 1.398 1.396 1.396 1.388 1.388 1.388 1.369 1.368 1.364 1.362 1.362 1.361 1.359 1.354 1.35 1.345	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 z/31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC PEPP3; KIAA0969 HDB; INT6; DB1-1; DDX26; DICE1; DDX26A; Notch12; DKFZP434B105 DKFZp564K142; PRO0756; FLJ14726; MGC64926; bA217H1.1; RP11-217H1.1	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 152517 NM 002586 NM 014935 NM 012141 NM 032121 NM 034779	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 311 zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger proteis in synthesia component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing, family A member 6 imtegrator complex subunit 6 implantation-associated protein phosphatidylinositol-4-phosphate 5-kinase, type II, gamma
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2 PLEKHA6 DDX26 DKFZP564K142 PIP5K2C KCNV1	1.406 1.403 1.398 1.396 1.399 1.388 1.388 1.388 1.369 1.369 1.362 1.362 1.361 1.359 1.354 1.35 1.345 1.343	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 z731 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC PEPP3; KIAA0969 HDB; INT6; DB1-1; DDX26; DICE1; DDX26A; Notchl2; DKFZp5864K142; PR00756; FLJ14726; MGC64926; bA217H1.1; RP11-217H1.1	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 015460 NM 01897 NM 014935 NM 012141 NM 032121 NM 024779 NM 024779 NM 014379	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing, family A member 6 integrator complex subunit 6 implantation-associated protein phosphatidylinositol-4-phosphate 5-kinase, type II, gamma potassium channel, subfamily V, member 1
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2 PLEKHA6 DDX26 DKFZP564K142 PIP5K2C	1.406 1.403 1.398 1.396 1.396 1.388 1.388 1.388 1.369 1.368 1.364 1.362 1.362 1.361 1.359 1.354 1.35 1.345	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 z/31 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC PEPP3; KIAA0969 HDB; INT6; DB1-1; DDX26; DICE1; DDX26A; Notch12; DKFZP434B105 DKFZp564K142; PRO0756; FLJ14726; MGC64926; bA217H1.1; RP11-217H1.1	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 152517 NM 002586 NM 014935 NM 012141 NM 032121 NM 034779	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein LanC lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing, family A member 6 integrator complex subunit 6 implantation-associated protein phosphatidylinositol-4-phosphate 5-kinase, type II, gamma potassium channel, subfamily V, member 1 FL336874 protein
RIPK1 TAF9L SLC29A2 TTC10 ZNF579 CXORF1 TDRD1 PDIA2 EGLN2 ZNF311 ZNF184 TUBB4Q ZNF690 MYRIP LANCL2 FLJ30990 PBX2 PLEKHA6 DDX26 DKFZP564K142 PIP5K2C KCNV1	1.406 1.403 1.398 1.396 1.399 1.388 1.388 1.388 1.369 1.368 1.362 1.362 1.361 1.359 1.354 1.35 1.345 1.343	DXS230; DXS239; DXS268; DXS269; DXS270; DXS272 RIP; FLJ39204 DN7; DN-7; TAF9L; TAFII31L; TFIID-31 ENT2; DER12; HNP36 TG737; TTC10; hTg737; MGC26259; D13S1056E; RP11-172H24.2 FLJ35453 MGC142160; MGC142164 FLJ21082 PDI; PDA2; PDIP; PDIR EIT6; PHD1; HIFPH1; DKFZp434E026 z731 ZNF184 TUBB4Q Zfp690; ZSCAN29; FLJ35867; MGC129894; MGC129895 SLAC2C; SLAC2-C; FLJ44025; MGC130034; MGC130035; DKFZp586F1018 TASP; GPR69B; MGC87139 FLJ30990 G17; HOX12; PBX2MHC PEPP3; KIAA0969 HDB; INT6; DB1-1; DDX26; DICE1; DDX26A; Notchl2; DKFZp5864K142; PR00756; FLJ14726; MGC64926; bA217H1.1; RP11-217H1.1	NM 003804 NM 015975 NM 001532 NM 175605 NM 152600 NM 004709 NM 198795 NM 006849 NM 001010877 NM 007149 NM 020040 NM 152455 NM 015460 NM 018697 NM 015460 NM 01897 NM 014935 NM 012141 NM 032121 NM 024779 NM 024779 NM 014379	and Becker types) receptor (TNFRSF)-interacting serine- threonine kinase 1 TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa solute carrier family 29 (nucleoside transporters), member 2 intraflagellar transport 88 homolog (Chlamydomonas) zinc finger protein 579 chromosome X open reading frame 1 tudor domain containing 1 protein disulfide isomerase family A, member 2 egl nine homolog 2 (C. elegans) zinc finger protein 184 tubulin, beta polypeptide 4, member Q zinc finger protein 690 myosin VIIA and Rab interacting protein Lanc lantibiotic synthetase component C-like 2 (bacterial) tetratricopeptide repeat domain 30B pre-B-cell leukemia transcription factor 2 pleckstrin homology domain containing, family A member 6 integrator complex subunit 6 implantation-associated protein phosphatidylinositol-4-phosphate 5-kinase, type II, gamma potassium channel, subfamily V, member 1

NR6A1 STK31		DCD AD. IEI 4. I/00 I-DDD	1	i e
		DSRAD; IFI-4; K88dsRBP		nuclear receptor subfamily 6, group A,
STK31	1.325	RTR; GCNF; NR61; GCNF1	NM 033334	member 1
	1.317	TDRD8; FLJ16102	NM 031414	serine/threonine kinase 31
MLSTD1	1.317	FAR2; FLJ10462	NM 018099	male sterility domain containing 1
ZNF45	1.317	KOX5; ZNF13	NM 003425	
		PTAG; C22orf3; HS984G1A		zinc finger protein 45 rhomboid domain containing 3
RHBDD3	1.31		NM_012265	
CEP350	1.31	gm133; CAP350; FLJ38282; FLJ44058; KIAA0480	NM_014810	centrosomal protein 350kDa
RBM9	1.309	RTA; HRNBP2	NM_014309	RNA binding motif protein 9
ZNF79	1.308	pT7	NM_007135	zinc finger protein 79
CD200	1.307	MRC; MOX1; MOX2; OX-2	NM 001004196	CD200 molecule
NFASC	1.303	-, -, -, -	NM 001005389	
BARX1	1.3	BARX1	NM 021570	BarH-like homeobox 1
				formin binding protein 1-like
FNBP1L	1.299	TOCA1; Clorf39	NM_001024948	
PGBD1	1.298	SCAND4; HUCEP-4; dJ874C20.4	NM_032507	piggyBac transposable element derived 1
POGZ	1.298	SUHW5; ZNF635; KIAA0461; MGC71543	NM_145796	pogo transposable element with ZNF domain
				TGFB-induced factor 2 (TALE family
TGIF2	1.294	TGIF2	NM_021809	homeobox)
ZNF670	1.287	FLJ12606; MGC12466	NM 033213	zinc finger protein 670
FLJ40504	1.284	FLJ40504; MGC138231; MGC138233	NM 173624	hypothetical protein FLJ40504
		,	_	BTAF1 RNA polymerase II, B-TFIID
		MOT1; TAF172; KIAA0940; TAFII170;		transcription factor-associated, 170kDa (Mot1
BTAF1	1.283	MGC138406; TAF(II)170	NM 003972	homolog, S. cerevisiae)
ATP11A	1.283	ATPIH; ATPIS	NM 015205	ATPase, Class VI, type 11A
IIP45	1.282	IIP45; FLJ12438; FLJ38609	NM_001025374	invasion inhibitory protein 45
ZNF345	1.281	HZF10	NM_003419	zinc finger protein 345
CHMP6	1.28	VPS20; FLJ11749	NM_024591	chromatin modifying protein 6
TIAM1	1.279	DTNA	NM 003253	T-cell lymphoma invasion and metastasis 1
GOLGA8A	1.273	GM88	NM 181077	golgi autoantigen, golgin subfamily a, 8A
ABCC3	1.271	Apple of the second	NM 020038	good antoningen, gorgin subtaining a, or
		CDA1, CDA1, CDA I, DDC1205, J		against dynamythiag sight against 4
CDAN1	1.266	CDA1; CDAI; CDA-I; PRO1295; codanin	NM_138477	congenital dyserythropoietic anemia, type I
LIGHA.				upstream transcription factor 2, c-fos
USF2	1.265	FIP	NM_003367	interacting
CC2D1B	1.264	KIAA1836; RP11-155O18.2	NM_032449	coiled-coil and C2 domain containing 1B
GPR111	1.264	PGR20; hGPCR35	NM 153839	G protein-coupled receptor 111
1		LOC149134; MGC120210; MGC120211;		
LOC149134	1.264	MGC120212; MGC120213	NM 207326	hypothetical protein LOC149134
ZNF137	1.259	pHZ-30; MGC119990; MGC119991	NM 003438	
				zinc finger protein 137
ZFP95	1.257	FLJ39233; KIAA1015; MGC33710	NM_014569	zinc finger protein 95 homolog (mouse)
RANBP6	1.256	FREM2	NM_012416	RAN binding protein 6
ZDHHC13	1.252	HIP14L; HIP3RP; FLJ10852; FLJ10941; MGC64994	NM 019028	zinc finger, DHHC-type containing 13
HYAL4	1.252	HYAL4	NM 012269	hyaluronoglucosaminidase 4
LHB	1.251	CGB4; hLHB; LSH-B	NM 000894	luteinizing hormone beta polypeptide
EPIM			NM 194356	
	1.25	EPM; EPIM; STX2A; STX2B; STX2C; MGC51014		syntaxin 2
PCDHA10	1.24	CNR8; CNRN8; CNRS8; CRNR8; PCDH-ALPHA10	NM_031859	protocadherin alpha 10
FLJ35801	1.238	FLJ35801	NM_153044	chromosome 22 open reading frame 27
ZNF510	1.238	KIAA0972; MGC33740	NM_014930	zinc finger protein 510
BRD9	1.236	PRO9856; LAVS3040; DKFZp686L0539	NM 023924	bromodomain containing 9
DHX57	1.235	•	NM 144995	- Company of the Comp
AADAT	1.234	KAT2; KATII	NM 016228	aminoadipate aminotransferase
GAD1	1.232	GAD	NM 013445	glutamate decarboxylase 1 (brain, 67kDa)
GADI	1.232		INIVI_013443	giutaniate decarboxylase i (biani, 67kDa)
73 IF20.6	1.22	ZF47; Zfp47; ZFP306; ZSCAN13; FLJ33906;	313.6.02.4402	
ZNF306	1.23	KIAA0426	NM_024493	zinc finger protein 306
		SON3; BASS1; DBP-5; NREBP; C21orf50;		
SON	1.228	FLJ21099; FLJ33914; KIAA1019	NM_032195	SON DNA binding protein
ZNF140	1.228	pHZ-39	NM_003440	zinc finger protein 140
ZNF582	1.227	FLJ30927	NM 144690	zinc finger protein 582
FLJ39653	1.224	FLJ39653	NM 152684	hypothetical protein FLJ39653
ZNF473	1.221	ZN473; HZFP100	NM 015428	zinc finger protein 473
MLH3	1.22	HNPCC7; MGC138372	NM 014381	mutL homolog 3 (E. coli)
	1.44	hKvb3; AKR6A3; KCNA1B; Kvb1.3; hKvBeta3;	1111_017301	potassium voltage-gated channel, shaker-
VCNAD1	1 210		I	
KCNAB1	1.218	KV-BETA-1	NIM 002471	malatad mylefomil 1t1
NINTER			NM_003471	related subfamily, beta member 1
NXF5	1.217	NXF5	NM_033155	nuclear RNA export factor 5
JUB	1.215	NXF5 Ajuba; MGC15563	NM_033155 NM_032876	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis)
	1.215 1.212	NXF5 Ajuba; MGC15563 MGC24975	NM_033155 NM_032876 NM_153359	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975
JUB	1.215	NXF5 Ajuba; MGC15563	NM_033155 NM_032876	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis)
JUB MGC24975	1.215 1.212	NXF5 Ajuba; MGC15563 MGC24975	NM_033155 NM_032876 NM_153359	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975
JUB MGC24975 GAD1 PNMA6A	1.215 1.212 1.205 1.204	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827	NM_033155 NM_032876 NM_153359 NM_013445 NM_032882	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A
JUB MGC24975 GAD1 PNMA6A DUSP10	1.215 1.212 1.205 1.204 1.201	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5	NM 033155 NM 032876 NM 153359 NM_013445 NM_032882 NM_144728	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1	1.215 1.212 1.205 1.204 1.201 1.197	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1
JUB MGC24975 GAD1 PNMA6A DUSP10	1.215 1.212 1.205 1.204 1.201	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5	NM 033155 NM 032876 NM 153359 NM_013445 NM_032882 NM_144728	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A	1.215 1.212 1.205 1.204 1.201 1.197 1.188	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred
JUB MGC24975 GADI PPMMA6A DUSP10 MDC1 DNMT3A	1.215 1.212 1.205 1.204 1.201 1.197 1.188	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma
JUB MGC24975 GADI PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 04641 NM 153759 NM 005578 NM 00240	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A
JUB MGC24975 GADI PPMMA6A DUSP10 MDC1 DNMT3A	1.215 1.212 1.205 1.204 1.201 1.197 1.188	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria)
JUB MGC24975 GADI PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 04641 NM 153759 NM 005578 NM 00240	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.178	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria)
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.178	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7
JUB MGC24975 GAD1 PPMMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.178	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2;	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.178 1.176	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute earrier family 13 (sodium-dependent
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.178	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2;	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.183 1.178 1.176	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 016340	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.178 1.176	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MA0A MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.176 1.172	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536;	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 000240 NM 000431 NM 024708 NM 016340 NM 016340 NM 012829	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.183 1.178 1.176	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; dJ1013A10.1	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 016340	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.188 1.176 1.172 1.168 1.168	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp6861I5116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023;	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 0005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast)
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.183 1.176 1.172	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272 NM 003913 NM 173082	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopetidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.188 1.176 1.172 1.168 1.168	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp6861I5116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023;	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 0005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast)
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.185 1.176 1.172 1.168 1.166	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2 DKFZp686117135	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272 NM 003913 NM 173082	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans)
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3	1.215 1.212 1.204 1.204 1.201 1.197 1.188 1.188 1.176 1.172 1.17 1.168 1.168 1.166 1.165	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; d11013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2 DKFZp686117135 CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728;	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 04641 NM 153759 NM 005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 016340 NM 014272 NM 003913 NM 173082 NM 173082 NM 207325	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans) transient receptor potential cation channel,
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3 TRPV6	1.215 1.212 1.205 1.204 1.201 1.197 1.185 1.185 1.176 1.172 1.168 1.167 1.166 1.165	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2 DKFZp686117135	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 04641 NM 153759 NM 005578 NM 000240 NM 000240 NM 000431 NM 024708 NM 016340 NM 02829 NM 014272 NM 003913 NM 173082 NM 173082 NM 173082 NM 1018646	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans)
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3 TRPV6 UBE2J2	1.215 1.212 1.205 1.204 1.201 1.197 1.188 1.185 1.185 1.176 1.176 1.172 1.166 1.165 1.161 1.161	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2 DKFZp686J17135 CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728; HSA277909	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 000240 NM 000240 NM 000431 NM 024708 NM 016340 NM 02829 NM 014272 NM 003913 NM 173082 NM 173082 NM 18646 NM 18646	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif; 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans) transient receptor potential cation channel, subfamily V, member 6
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3 TRPV6	1.215 1.212 1.205 1.204 1.201 1.197 1.185 1.185 1.176 1.172 1.168 1.167 1.166 1.165	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; d11013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2 DKFZp686117135 CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728;	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 04641 NM 153759 NM 005578 NM 000240 NM 000240 NM 000431 NM 024708 NM 016340 NM 02829 NM 014272 NM 003913 NM 173082 NM 173082 NM 173082 NM 1018646	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans) transient receptor potential cation channel, subfamily V, member 6
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3 TRPV6 UBE212 C14ORF49	1.215 1.212 1.203 1.204 1.201 1.197 1.188 1.188 1.176 1.172 1.17 1.168 1.165 1.165 1.165 1.161 1.165	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp6861I5116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; d11013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2 DKFZp686J17135 CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728; HSA277909 FLJ25605; c14 5734	NM 033155 NM 032876 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 0005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272 NM 003913 NM 173082 NM 173082 NM 207325 NM 018646 NM 194316 NM 152592	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans) transient receptor potential cation channel, subfamily V, member 6 chromosome 14 open reading frame 49 poly (ADP-ribose) polymerase family,
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3 TRPV6 UBE2J2 C14ORF49 PARP8	1.215 1.212 1.202 1.204 1.201 1.197 1.188 1.185 1.183 1.176 1.172 1.168 1.167 1.166 1.165 1.161 1.169 1.158	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134586; bA54515.2 DKFZp686J17135 CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728; HSA277909 FLJ25605; c14 5734 FLJ21308; MGC42864	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 000240 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272 NM 003913 NM 173082 NM 173082 NM 173082 NM 18646 NM 194316 NM 194316 NM 152592 NM 024615	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans) transient receptor potential cation channel, subfamily V, member 6 chromosome 14 open reading frame 49 poly (ADP-ribose) polymerase family, member 8
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3 TRPV6 UBE2J2 C14ORF49	1.215 1.212 1.203 1.204 1.201 1.197 1.188 1.188 1.176 1.172 1.17 1.168 1.165 1.165 1.165 1.161 1.165	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp6861I5116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; d11013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134886; bA54515.2 DKFZp686J17135 CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728; HSA277909 FLJ25605; c14 5734	NM 033155 NM 032876 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 0005578 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272 NM 003913 NM 173082 NM 173082 NM 207325 NM 018646 NM 194316 NM 152592	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans) transient receptor potential cation channel, subfamily V, member 6 chromosome 14 open reading frame 49 poly (ADP-ribose) polymerase family,
JUB MGC24975 GAD1 PNMA6A DUSP10 MDC1 DNMT3A LPP MAOA MVK ASB7 RAPGEF6 SLC13A3 ADAMTS7 PRPF4B SHPRH DPY19L3 TRPV6 UBE2J2 C14ORF49 PARP8	1.215 1.212 1.202 1.204 1.201 1.197 1.188 1.185 1.183 1.176 1.172 1.168 1.167 1.166 1.165 1.161 1.169 1.158	NXF5 Ajuba; MGC15563 MGC24975 GAD MGC15827 MKP5; MKP-5 NFBD1; KIAA0170; DKFZp781A0122 DNMT3A2; M.HsaIIIA LPP MAOA LRBP; MVLK FLJ22551 PDZGEF2; KIA001LB; PDZ-GEF2; RA-GEF-2; DKFZp686115116 NADC3; SDCT2 ADAM-TS7; DKFZp434H204 PR4H; PRP4; PRP4H; PRP4K; KIAA0536; dJ1013A10.1 FLJ37625; FLJ45012; FLJ90837; KIAA2023; MGC134586; bA54515.2 DKFZp686J17135 CAT1; CATL; ZFAB; ECAC2; ABP/ZF; LP6728; HSA277909 FLJ25605; c14 5734 FLJ21308; MGC42864	NM 033155 NM 032876 NM 153359 NM 013445 NM 032882 NM 144728 NM 014641 NM 153759 NM 000240 NM 000240 NM 000431 NM 024708 NM 016340 NM 022829 NM 014272 NM 003913 NM 173082 NM 173082 NM 173082 NM 18646 NM 194316 NM 194316 NM 152592 NM 024615	nuclear RNA export factor 5 jub, ajuba homolog (Xenopus laevis) hypothetical protein MGC24975 glutamate decarboxylase 1 (brain, 67kDa) paraneoplastic antigen like 6A dual specificity phosphatase 10 mediator of DNA damage checkpoint 1 DNA (cytosine-5-)-methyltransferase 3 alpha LIM domain containing preferred translocation partner in lipoma monoamine oxidase A mevalonate kinase (mevalonic aciduria) ankyrin repeat and SOCS box-containing 7 Rap guanine nucleotide exchange factor (GEF) 6 solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 ADAM metallopeptidase with thrombospondin type 1 motif, 7 PRP4 pre-mRNA processing factor 4 homolog B (yeast) SNF2 histone linker PHD RING helicase dpy-19-like 3 (C. elegans) transient receptor potential cation channel, subfamily V, member 6 chromosome 14 open reading frame 49 poly (ADP-ribose) polymerase family, member 8

FLJ45445	1) y 9, member A creased 2-like 3
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NIP; GIPC, IIP-1; TIP-2; SEMCAP, C190rf3; Hs 6454; MGC3741; GLUT1CBP; MGC15889; GIPC PDZ domain contain Hs 454; MGC3741; GLUT1CBP; MGC15889; MM 202468 member 1	ding protein 1
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KIAA1005 0.922 KIAA1005_DKFZp686C0668 NM 015272 KIAA1005_protein	,
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ATG12 0.889 APG12; APG12L; HAPG12 NM 004707 cerevisiae) GABRB3 0.888 MGC9051 NM_000814 receptor, beta 3 lanosterol synthase (2,3-ox 1,5-ox 1,	
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STXBP1 0.861 UNC18; hUNC18; rbSec1; MUNC18-1 NM_003165 syntaxin binding protein 1 ZFHX2 0.861 KIAA1762 NM_033400 zinc finger homeobox 2 CPSF3L 0.856 RST11; RC-68; INTS11; CPSF73L; cleavage and polyadenylati CPSF3L 0.856 FIJ13294; FLJ20542 NM_032179 3-like NRGN 0.854 RC3; hng NM_060176 neurogranin (protein kinast ZNF706 0.855 HSPC038; PNAS-106; PNAS-113 NM_016096 zinc finger protein 706 TINAGLI 0.849 ARG; LCN7; LIECG3; TINAGRP NM_022164 tubulointerstitial nephritis: nuclear receptor subfamily member 1 NR2F1 0.844 TFCOUP1; COUP-TFI; TCFCOUP1 NM_005654 nuclear receptor subfamily member 1 OGDH 0.841 E1k; OGDC; AKGDH NM_001003941 dehydrogenase (lipoamide) dehydrogenase (lipoamide) MRE11A 0.836 ATLD; HNGS1; MRE11; MRE11B NM_001012271 baculoviral IAP repeat-con WDR76 0.834 FLJ12973 NM_001012271 baculoviral IAP repeat-con SHD 0.829 MAP2 NM_0	
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CPSF3L 0.856 FLJ13294; FLJ20542 NM 032179 3-like NRGN 0.854 RC3, hng NM 06176 neurogranin (protein kinase ZNF706 0.85 HSPC038; PNAS-106; PNAS-113 NM 016096 zize finger protein 706 TINAGL1 0.849 ARG1; LCN7; LIECG3; TINAGRP NM 022164 tubulointerstitial nephritis a nuclear receptor subfamily member 1 NR2F1 0.844 TFCOUP1; COUP-TFI; TCFCOUP1 NM 005654 nuclear receptor subfamily member 1 OGDH 0.841 E1k; OGDC; AKGDH NM 001003941 dehydrogenase (lipoamide) dehydrogenase (lipoamide) MRE11 meiotic recombina MRE11A 0.836 ATLD; HNGS1; MRE11; MRE11B NM 005590 (S. cerevisiae) BIRC5 0.835 API4; EPR-1 NM 001012271 baculoviral IAP repeat-con WDR76 0.834 FLJ12973 NM 024908 WD repeat domain 76 SHD 0.829 MAP2 NM 020209 transforming protein D BOLA1 0.828 CGI-143; MGC75015; RP11-196G18.18 NM 016074 bolA-like 1 (E. coli) ZNRF2 0.827 BTD NM	on specific factor
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LYPD5 0.814 PRO4356; FLJ30469 NM_001031749 LY6/PLAUR domain control	
phosphatidylinositol glycar	anchor
PIGZ 0.811 SMP3; FLJ12768; MGC52163 NM_025163 biosynthesis, class Z	14
SUHW4 0.81 ZNF634; MGC21637; MGC61687 NM_001002844 (Drosophila) suppressor of hairy wing high	лногод 4
AAG; MDG; APNG; Mid1; angg; PIG11; PIG16;	
MPG 0.806 CRA36.1 NM_001015054 N-methylpurine-DNA glyc	osylase
CTSF 0.802 CATSF NM_003793 cathepsin F	
DKFZP686K16132 0.801 DKFZp686K16132 NM_001012987 similar to BMP2 inducible	
UEV and lactate/malate de	nyrogenase
UEV3 0.8 ATTP; UEV3; FLJ11068 NM_018314 domains MUC1 0.8 EMA; PEM; PUM; MAM6; PEMT; CD227; H23AG NM_001018021 mucin 1, cell surface assoc	intad
MUC1 0.8 EMA; PEM; PUM; MAM6; PEMT; CD227; H23AG NM_001018021 mucin 1, cell surface assoc THAP10 0.8 THAP10 NM 020147 THAP domain containing	
GKLP, NKTL; NTKL; P105; TAPK; TEIF; TRAP;	
SCYL1 0.796 HT019 NM_020680 SCY1-like 1 (S. cerevisiae)	<u> </u>
LOC88523 0.796 LOC88523 NM 033111 CG016	
glucokinase (hexokinase 4,	maturity onset
GCK 0.795 GK; GLK; HK4; HHF3; HKIV; HXKP; MODY2 NM 033508 diabetes of the young 2)	oin hond 4 1 12 1
EPB41L1 0.794 4.1N; KIAA0338; MGC11072; DKFZp686H17242 NM 012156 erythrocyte membrane prot NY-BR-15; MGC131785; bA57K17.2; RP11-	ein band 4.1-like l
C6ORF204 0.791 57K17.2 NM_206921 chromosome 6 open readin	
WDR70 0.791 FLJ10233 NM_018034 WD repeat domain 70	g frame 204
WHS; NSD2; TRX5; MMSET; REIIBP; FLJ23286;	g frame 204
WHSC1 0.791 KIAA1090 NM 133331 Wolf-Hirschhorn syndrome	
WFDC1 0.784 PS20 NM_021197 WAP four-disulfide core de	e candidate 1
sema domain, immunoglob SEMAM; SEMAW; M-SEMA; PRO2353; m-Sema transmembrane domain (Tl	e candidate 1
SEMA4F 0.783 M; m-Sema-M NM 004263 cytoplasmic domain (sin	e candidate 1 omain 1 oulin domain (Ig),
SMOX 0.783 NM_019025	e candidate 1 omain 1 oulin domain (Ig), M) and short

LRRC3B	0.78	LRP15; MGC102927	NM_052953	leucine rich repeat containing 3B
LOC92691	0.78	FLJ34263; DKFZp781L2456	NM_138390	transmembrane protein 169
GPR175	0.779	TPRA40; FLJ32197	NM_016372	G protein-coupled receptor 175
PCDH11Y	0.779	PCDHY; PCDH22; PCDH11X	NM_032971	protocadherin 11 Y-linked
PTER	0.778	RPR-1	NM_030664	phosphotriesterase related
FSD1	0.777	MIR1; GLFND; MGC3213	NM 024333	fibronectin type III and SPRY domain containing 1
GRTP1	0.776	TBC1D6; FLJ22474; MGC138328; MGC138330	NM 024719	growth hormone regulated TBC protein 1
KIAA1244	0.772	RP3-422G23.4	NM 020340	KIAA1244
				guanylate binding protein 2, interferon-
GBP2	0.771	PRDM2	NM_004120	inducible
KLHDC1	0.769	MST025; MGC126644; MGC126646	NM_172193	kelch domain containing 1
KIF17	0.769	KIF3X; KIF17B; KIAA1405	NM_020816	kinesin family member 17
		DR5; CD262; KILLER; TRICK2; TRICKB;		
TNIEDGELOD	0.767	ZTNFR9; TRAILR2; TRICK2A; TRICK2B; TRAIL-	313.4.002042	tumor necrosis factor receptor superfamily,
TNFRSF10B DOPEY2	0.767 0.767	R2; KILLER/DR5 C21orf5	NM_003842	member 10b dopey family member 2
DOPE 12	0.767	C210f15	NM_005128	tumor necrosis factor, alpha-induced protein
TNFAIP8L3	0.767	FLJ41287	NM 207381	8-like 3
111111111111111111111111111111111111111	0.707	12011201	1111_207301	transglutaminase 2 (C polypeptide, protein-
TGM2	0.765	TG2; TGC	NM_198951	glutamine-gamma-glutamyltransferase)
			_	ATP-binding cassette, sub-family C
ABCC2	0.763	DJS; MRP2; cMRP; ABC30; CMOAT; KIAA1010	NM_000392	(CFTR/MRP), member 2
TRIM3	0.763	BERP; HAC1; RNF22; RNF97	NM_006458	tripartite motif-containing 3
PLK3	0.762	CNK; FNK; PRK	NM_004073	polo-like kinase 3 (Drosophila)
ATPBD1C	0.761	MGC14560; MGC32810	NM_016301	ATP binding domain 1 family, member C
IL19	0.76	MDA1; NG.1; ZMDA1; IL-10C	NM_153758	interleukin 19
GTF2H2	0.758	BTF2; TFIIH; BTF2P44; MGC102806; T-BTF2P44	NM 001515	general transcription factor IIH, polypeptide 2, 44kDa
PDCD6IP	0.756	AIP1: Alix: HP95: DRIP4: MGC17003	NM_001515 NM_013374	programmed cell death 6 interacting protein
MFAP5	0.756	MP25; MAGP2	NM 003480	microfibrillar associated protein 5
FAM14A	0.754	TLH29; MGC44913	NM 032036	family with sequence similarity 14, member A
C10ORF72	0.754	FLJ31737; MGC44086	NM 001031746	chromosome 10 open reading frame 72
		·		queuine tRNA-ribosyltransferase domain
QTRTD1	0.754	FLJ12960	NM_024638	containing 1
ADAMTSL1	0.753	ADAMTSR1; MGC40193	NM_139238	ADAMTS-like 1
ARL4	0.753	ARL4	NM_005738	ADP-ribosylation factor-like 4A
C2ORF11	0.75	FLJ30574; MGC117313	NM_144629	chromosome 2 open reading frame 11
NGB	0.75	NGB	NM_021257	neuroglobin
CCDC51	0.749	FLJ12436	NM_024661	coiled-coil domain containing 51
ANXA4	0.748 0.748	ANX4; PIG28; MGC75105; DKFZp686H02120 ADCY4	NM_001153	annexin A4
ADCY4	0.748	GY2; FKSG1; WDR14; WDVCF; DGCRK3;	NM_139247	adenylate cyclase 4 guanine nucleotide binding protein (G
GNB1L	0.746	KIAA1645	NM 053004	protein), beta polypeptide 1-like
C9ORF72	0.745	MGC23980; RP11-27J8.2	NM 145005	chromosome 9 open reading frame 72
AK5	0.745	AK6; MGC33326	NM 012093	adenylate kinase 5
INHBB	0.745	INHBB	NM 002193	inhibin, beta B (activin AB beta polypeptide)
POLD4	0.745	p12; POLDS	NM_021173	polymerase (DNA-directed), delta 4
ARSJ	0.744	FLJ23548	NM_024590	arylsulfatase family, member J
		GDA; GDC; ML7; hML7; HGT.1; D10S105E;		solute carrier family 25 (mitochondrial carrier;
SLC25A16	0.743	MGC39851	NM_152707	Graves disease autoantigen), member 16
CVLD	0.742	EAC; CDMT; CYLD1; CYLDI; USPL2; HSPC057; FLJ20180; FLJ31664; KIAA0849	NM 015247	cylindromatosis (turban tumor syndrome)
CYLD PEX6	0.743 0.741	PAF2; PAF-2; PXAAA1	NM_015247 NM_000287	peroxisomal biogenesis factor 6
FEAU	0.741	FAF2, FAF-2, FAAAAI	INIVI_000287	C1q and tumor necrosis factor related protein
C1QTNF5	0.74	LORD; CTRP5; DKFZp586B0621	NM 015645	5
ITPKA	0.74	ITPKA	NM_002220	inositol 1,4,5-trisphosphate 3-kinase A
ASPH	0.738	BAH; HAAH; JCTN; junctin; CASQ2BP1	NM_004318	aspartate beta-hydroxylase
NME1-NME2	0.737	NME1-NME2; NME2	NM_001018136	NM23-LV
				Cbp/p300-interacting transactivator, with
CITED1	0.735	MSG1	NM_004143	Glu/Asp-rich carboxy-terminal domain, 1
DTDNI22	0.725	I VD. DED. I1. I2. DTDN9	NM 012411	protein tyrosine phosphatase, non-receptor
PTPN22 C9ORF85	0.735 0.734	LYP; PEP; Lyp1; Lyp2; PTPN8 MGC61599: RP11-346E17.2	NM_012411 NM_182505	type 22 (lymphoid) chromosome 9 open reading frame 85
C/ORI 63	0.734	MOCO1377, RI 11-340L1/.2	14141_102303	acyl-CoA synthetase medium-chain family
ACSM3	0.733	SA; SAH	NM 005622	member 3
CSGLCA-T	0.733	CSGlcA-T; KIAA1402	NM_019015	chondroitin sulfate glucuronyltransferase
HERC4	0.733	KIAA1593; DKFZP564G092	NM_022079	hect domain and RLD 4
				pleckstrin homology domain containing,
PLEKHH3	0.733	FLJ21019	NM_024927	family H (with MyTH4 domain) member 3
PHF19	0.729	PCL3; MGC23929; MGC131698	NM_001009936	PHD finger protein 19
DDD2D &C	0.720	D54C: MCC22044	NIM 002710	protein phosphatase 2, regulatory subunit B
PPP2R5C CCDC3	0.729 0.728	B56G; MGC23064 FLJ20925; DKFZP761F241; RP11-347I22.1	NM_002719 NM_031455	(B56), gamma isoform coiled-coil domain containing 3
CCDC3	0.720	1 La 20/23, DK1 E1 /011 241, Kf 11-34/122.1	14141_031433	TAF13 RNA polymerase II, TATA box
				binding protein (TBP)-associated factor,
TAF13	0.727	TAF2K; TAFII18; MGC22425	NM_005645	18kDa
REEP2	0.727	C5orf19; SGC32445	NM_016606	receptor accessory protein 2
PRDM8	0.727	PFM5	NM_020226	PR domain containing 8
NDP	0.725	ND; EVR2; FEVR	NM_000266	Norrie disease (pseudoglioma)
C10ORF67	0.724	MGC46732; RP11-792P23.2	NM_153714	chromosome 10 open reading frame 67
		TIC; JAP3; MOP3; BMAL1; PASD3; BMAL1c;		aryl hydrocarbon receptor nuclear
ARNTL DL GD2	0.722	MGC47515	NM_001178	translocator-like
PLCB2	0.722	FLJ38135	NM_004573	phospholipase C, beta 2
TMEM117 HIST1H4K	0.722	DKFZp434K2435 H4/d; H4FD; dJ160A22.1	NM_032256 NM_003541	transmembrane protein 117
LOC51334	0.721 0.718	DSC54; MGC104614	NM_003541 NM_016644	histone 1, H4k proline rich 16
LUCJ 1334	0./10	P36; ANX2; LIP2; LPC2; CAL1H; LPC2D;	1111 010044	profile field to
ANXA2	0.718	ANX2L4; PAP-IV	NM 001002857	annexin A2
FBXO4	0.717	FBX4; FLJ10141; DKFZp547N213	NM 012176	F-box protein 4
PIP	0.716	GPIP4; GCDFP15; GCDFP-15	NM_002652	prolactin-induced protein
				retinol dehydrogenase 12 (all-trans/9-cis/11-
DDIIIA	0.716	LCA3; FLJ30273	NM_152443	cis)
RDH12	01110			
LMTK2	0.715	BREK; KPI2; LMR2; cprk; KPI-2; AATYK2; KIAA1079	NM_014916	lemur tyrosine kinase 2

FBXO2	0.715	FBG1; FBX2; Fbs1; NFB42	NM 012168	F-box protein 2
HPCAL1	0.713	BDR1; HLP2; VILIP-3	NM 134421	hippocalcin-like 1
FBXL17	0.711	Fbl17; Fbx13; FBXO13; DKFZp434C1715	NM 022824	F-box and leucine-rich repeat protein 17
HOXA9	0.71	HOX1; ABD-B; HOX1G; HOX1.7; MGC1934	NM 152739	homeobox A9
				serpin peptidase inhibitor, clade D (heparin
SERPIND1	0.71	HC2; LS2; HCF2; HCII; HLS2; D22S673	NM_000185	cofactor), member 1
		PBDX; MGC118758; MGC118759; MGC118760;		
XG	0.709	MGC118761	NM_175569	Xg blood group
arra t		D 1 D 14000 1000	377.6.000.40	SHC (Src homology 2 domain containing)
SHC4	0.707	RaLP; MGC34023	NM_203349	family, member 4
ELF4	0.707	MEF; ELFR	NM 001421	E74-like factor 4 (ets domain transcription factor)
ELF4	0.707	MEF, EEFR	NW_001421	ret proto-oncogene (multiple endocrine
		PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51;		neoplasia and medullary thyroid carcinoma 1,
RET	0.705	CDHF12; RET-ELE1	NM 020630	Hirschsprung disease)
TOX	0.704	TOX; KIAA0808	NM_014729	thymus high mobility group box protein TOX
C17ORF76	0.703	FLJ35696	NM_207387	chromosome 17 open reading frame 76
FREQ	0.703	FLUP; NCS1; NCS-1; DKFZp761L1223	NM_014286	frequenin homolog (Drosophila)
TAC3	0.701	NKB; NKNB; PRO1155; ZNEUROK1	NM_001006667	tachykinin 3 (neuromedin K, neurokinin beta)
o any		EU oana ivanu	377.6.004.002.044	oxoglutarate (alpha-ketoglutarate)
OGDH	0.7	E1k; OGDC; AKGDH	NM_001003941	dehydrogenase (lipoamide)
PANX2	0.698	hPANX2; MGC119432	NM_052839	pannexin 2 RGD, leucine-rich repeat, tropomodulin and
RLTPR	0.697	RLTPR	NM 001013838	proline-rich containing protein
KLIIK	0.077	ARF; MLM; p14; p16; p19; CMM2; INK4; MTS1;	14W_001013636	profine-rich containing protein
		TP16; CDK4I; CDKN2; INK4a; p14ARF; p16INK4;		cyclin-dependent kinase inhibitor 2A
CDKN2A	0.696	p16INK4a	NM 058197	(melanoma, p16, inhibits CDK4)
LMO2	0.694	TTG2; RBTN2; RHOM2; RBTNL1	NM_005574	LIM domain only 2 (rhombotin-like 1)
ZFP64	0.693	MGC940; ZNF338	NM_199427	zinc finger protein 64 homolog (mouse)
				ubiquitin-conjugating enzyme E2H (UBC8
UBE2H	0.693	UBC8; UBCH; UBCH2; E2-20K	NM_182697	homolog, yeast)
LOC161931	0.693	LOC161931	NM_139174	testis nuclear RNA-binding protein-like
HSPB2	0.692	MKBP; HSP27; Hs.78846; MGC133245	NM_001541	heat shock 27kDa protein 2
ALDH3B1	0.691	ALDH4; ALDH7; FLJ26433	NM_001030010	aldehyde dehydrogenase 3 family, member B1 KIAA0247
KIAA0247 STOML1	0.691	TMEM101 SLP-1; STORP; hUNC-24; FLJ36370	NM_014734 NM_004809	stomatin (EPB72)-like 1
ZMYND15	0.69	DKFZp434N127	NM 032265	zinc finger, MYND-type containing 15
PODN	0.69	PCAN; SLRR5A; MGC24995	NM 153703	podocan
MSRA	0.686	MSRA	NM 012331	methionine sulfoxide reductase A
TAGLN3	0.686	NP22; NP25	NM 001008273	transgelin 3
SYTL4	0.684	FLJ40960; DKFZp451P0116	NM 080737	synaptotagmin-like 4 (granuphilin-a)
COG5	0.684	GTC90; GOLTC1	NM_006348	component of oligomeric golgi complex 5
CINP	0.683	CINP; MGC849	NM_032630	cyclin-dependent kinase 2-interacting protein
DKFZP686O24166	0.681	DKFZp686O24166; DKFZp686I21167	NM_001009913	hypothetical protein DKFZp686O24166
ICAM2	0.68	CD102	NM_000873	intercellular adhesion molecule 2
HLA-F	0.679	HLAF; HLA-5.4; HLA-CDA12	NM_018950	major histocompatibility complex, class I, F
FBXL16	0.678	Fbl16; C16orf22; FLJ33735; MGC33974; c380A1.1	NM_153350	F-box and leucine-rich repeat protein 16
FLJ14054	0.677	FLJ14054	NM_024563	chromosome 5 open reading frame 23
IFIT1	0.676	G10P1; IFI56; IFI-56; IFNAI1; RNM561; GARG-16	NM 001548	interferon-induced protein with tetratricopeptide repeats 1
CARD9	0.676	hCARD9	NM 052813	caspase recruitment domain family, member 9
Criticity	0.070	ne/meb)	1414_032013	calcium channel, voltage-dependent, alpha
CACNA2D3	0.676	HSA272268	NM 018398	2/delta 3 subunit
			_	gamma-aminobutyric acid (GABA) A
GABRB3	0.676	MGC9051	NM_000814	receptor, beta 3
RNH1	0.675	RAI; RNH; MGC4569; MGC18200; MGC54054	NM_203384	ribonuclease/angiogenin inhibitor 1
NLGN4Y	0.675	KIAA0951	NM_014893	neuroligin 4, Y-linked
ACTN4	0.674	FSGS; FSGS1; DKFZp686K23158	NM_004924	actinin, alpha 4
FLJ35258	0.673	FLJ35258	NM_182571	hypothetical protein 284297
MGC35212	0.673	gs129; MGC35212	NM_152764	chromosome 16 open reading frame 73
C3	0.673	ASP; CPAMD1	NM_032843 NM_000064	complement component 3
IL1R1	0.671	P80; IL1R; IL1RA; CD121A; D2S1473; IL-1R-alpha	NM 000064 NM 000877	interleukin 1 receptor, type I
ASB13	0.67	FLJ13134; MGC19879	NM 024701	ankyrin repeat and SOCS box-containing 13
FLJ20273	0.67	FLJ20273; DKFZp686F02235	NM 019027	RNA-binding protein
	****	SGD; DAGD; 35DAG; CMD1L; SGCDP;		sarcoglycan, delta (35kDa dystrophin-
SGCD	0.669	MGC22567; SG-delta	NM_000337	associated glycoprotein)
KITLG	0.668	SF; MGF; SCF; KL-1; Kitl; DKFZp686F2250	NM_000899	KIT ligand
TPCN1	0.668	TPC1; FLJ20612; KIAA1169	NM_017901	two pore segment channel 1
HGD2D7	0.6	DELCA	ND 4 025155	hydroxy-delta-5-steroid dehydrogenase, 3
HSD3B7	0.667	PFIC4	NM_025193	beta- and steroid delta-isomerase 7
ACOT7	0.667	ACT; ACH1; BACH; LACH; LACH1; hBACH;	NM 101064	acyl-CoA thioesterase 7
ACOT/ ABHD14B	0.667	CTE-II; MGC1126; RP1-120G22.10 CIB; MGC15429	NM_181864 NM_032750	abhydrolase domain containing 14B
KRTHA4	0.666	HA4; Ha-4; hHa4; KRTHA4	NM 021013	keratin 34
C13ORF21	0.666	MGC35505; bA269C23.1; RP11-269C23.1	NM 001010897	chromosome 13 open reading frame 21
3.30.0.21	0.000	AKAP; PRKA1; AKAP84; AKAP121; AKAP149;	11_001010077	
AKAP1	0.665	D-AKAP1; MGC1807; SAKAP84	NM_003488	A kinase (PRKA) anchor protein 1
TAPBPL	0.664	TAPBPR; TAPBP-R; FLJ10143	NM_018009	TAP binding protein-like
MNS1	0.664	FLJ11222	NM_018365	meiosis-specific nuclear structural 1
SPFH1	0.664	KE04; KEO4; C10orf69; RP11-316M21.1	NM_006459	SPFH domain family, member 1
				cytoplasmic polyadenylation element binding
CPEB4	0.663	KIAA1673	NM_030627	protein 4
CALB2	0.662	CAL2	NM_001740	calbindin 2, 29kDa (calretinin)
CBX7	0.661	STOML1	NM_175709	chromobox homolog 7
C1ORF45	0.661	KATNAL1	NM_001025231	chromosome 1 open reading frame 45
SERINC2 C16ORF52	0.66	TDE2; TDE2L; FKSG84; PRO0899; MGC90340	NM_178865 NM_173501	serine incorporator 2
C10OKF32	0.00	C9orf67; FLJ14662; KIAA0515; MGC12921; RP11-	10001 1/3301	phosphatidic acid phosphatase type 2 domain
PPAPDC3	0.658	C90f167; FLJ14662; KIAAU515; MGC12921; RP11- 643E14.1	NM_032728	phosphatidic acid phosphatase type 2 domain containing 3
Mar-04	0.657	RNF174; MARCH-IV; MGC104908	NM 020814	membrane-associated ring finger (C3HC4) 4
Trial O-T	0.001	SPLA2; GXPLA2; GXSPLA2; MGC119918;	10200.7	
PLA2G10	0.656	MGC119919; MGC133367	NM_003561	phospholipase A2, group X
		-	_	nuclear factor of kappa light polypeptide gene
NFKBIZ	0.652	IKBZ; INAP; MAIL; FLJ30225; FLJ34463	NM_031419	enhancer in B-cells inhibitor, zeta

GLRB	0.652	MDM2	NM 000824	glycine receptor, beta
LOC200810	0.652	LOC200810	NM 001015050	similar to beta-1,4-mannosyltransferase; beta- 1,4 mannosyltransferase
				malic enzyme 3, NADP(+)-dependent,
ME3 ERN1	0.652 0.65	FLJ34862 IRE1; IRE1P; FLJ30999	NM_006680 NM_152461	mitochondrial endoplasmic reticulum to nucleus signalling 1
FCHSD2	0.65	NWK; SH3MD3; KIAA0769	NM 014824	FCH and double SH3 domains 2
CDC25C	0.65	CDC25	NM_001790	cell division cycle 25C
TOTAL OF THE STATE	0.540	THEN AND TO FERRENCE TO THE TOTAL OF	27.6.040040	intraflagellar transport 57 homolog
IFT57 MGC52057	0.649	HIPPI; MHS4R2; ESRRBL1; FLJ10147 MGC52057	NM_018010 NM_194317	(Chlamydomonas) LY6/PLAUR domain containing 6
CYB5R3	0.648	B5R; DIA1	NM 007326	cytochrome b5 reductase 3
NAP1L5	0.648	DRLM	NM_153757	nucleosome assembly protein 1-like 5
PCNXL2	0.648	FLJ11383; KIAA0435	NM_024938	pecanex-like 2 (Drosophila)
PLD3	0.647	HU-K4 FIL1; FIL1Z; IL1H4; IL-1F7; IL-1H4; IL1RP1; IL-	NM_001031696	phospholipase D family, member 3
IL1F7	0.646	1RP1; FIL1(ZETA)	NM_014439	interleukin 1 family, member 7 (zeta) thyrotropin-releasing hormone degrading
TRHDE	0.645	PAP-II; PGPEP2; TRH-DE; FLJ22381	NM_013381	enzyme far upstream element (FUSE) binding protein
FUBP1	0.644	FBP; FUBP	NM_003902	1
C5ORF14	0.644	UNQ335; FLJ22625	NM_024715	chromosome 5 open reading frame 14
C3ORF52	0.644 0.641	TTMP; FLJ23186	NM_024616 NM_004464	chromosome 3 open reading frame 52
FGF5 FAM70B	0.64	HBGF-5; Smag-82 MGC20579; RP11-199F6.1	NM_004464 NM_182614	fibroblast growth factor 5 family with sequence similarity 70, member B
RAB27A	0.64	GS2; RAM; RAB27; HsT18676; MGC117246	NM 004580	RAB27A, member RAS oncogene family
DOCK5	0.637	DKFZp451J181; DKFZp779M164; DKFZp781J211	NM_024940	dedicator of cytokinesis 5
MYO1E	0.636	MYO1C; MGC104638	NM_004998	myosin IE
SDCBP2	0.636	ST-2; SITAC18	NM_080489	syndecan binding protein (syntenin) 2
SERPINB3	0.636	SCC; T4-A; SCCA1; SCCA-1; HsT1196; SCCA-PD	NM_006919 NM_012100	serpin peptidase inhibitor, clade B (ovalbumin), member 3
DNPEP	0.635	DAP; ASPEP	NM_012100	aspartyl aminopeptidase neural precursor cell expressed,
NEDD4	0.635	KIAA0093	NM_198400	developmentally down-regulated 4
GNG3	0.635	GNG3	NM_012202	guanine nucleotide binding protein (G protein), gamma 3
CCT3	0.635	CCTG; PIG48; TRIC5; CCT-gamma; TCP-1-gamma	NM_001008800	chaperonin containing TCP1, subunit 3 (gamma)
TANK	0.634	TRAF2; I-TRAF	NM 004180	TRAF family member-associated NFKB activator
		,		collagen, type II, alpha 1 (primary
COL2A1	0.633	AOM; SEDC; COL11A3; MGC131516	NM_001844	osteoarthritis, spondyloepiphyseal dysplasia, congenital)
ILDR1	0.633	MGC50831; ILDR1beta; ILDR1alpha	NM 175924	immunoglobulin-like domain containing receptor 1
NOTCH2	0.632	hN2; AGS2	NM 024408	Notch homolog 2 (Drosophila)
MMAA	0.632	MGC120010; MGC120011; MGC120012; MGC120013	NM 172250	methylmalonic aciduria (cobalamin deficiency) cblA type
				tuberoinfundibular 39 residue protein
TIP39	0.632	TIP39	NM_178449	precursor
SH2D4A EDN1	0.632 0.631	SH2A; FLJ20967 ET1	NM_022071 NM_001955	SH2 domain containing 4A endothelin 1
STEAP3	0.63	STMP3; TSAP6; dudlin-2	NM 018234	STEAP family member 3
STERIO .	0.03	511115, 151115, dddiii 2	1111_010231	androgen receptor (dihydrotestosterone
AR	0.629	KD; AIS; TFM; DHTR; SBMA; NR3C4; SMAX1; HUMARA	NM_000044	receptor; testicular feminization; spinal and bulbar muscular atrophy; Kennedy disease)
URB HES3	0.629 0.629	URB; DRO1; SSG1; MGC131805; MGC134851 LOC339977	NM_199511 NM_001024598	coiled-coil domain containing 80 hairy and enhancer of split 3 (Drosophila)
HES3	0.629	LOC339977	NM_001024398	serine threonine kinase 39 (STE20/SPS1
STK39	0.627	DCHT; SPAK; DKFZp686K05124	NM_013233	homolog, yeast)
FLJ10178 MCTP1	0.626 0.626	FLJ10178; FLJ14191; RP11-647M7.1 FLJ22344	NM_018015 NM_001002796	chromosome X open reading frame 57
			NM 006066	multiple C2 domains, transmembrane 1 aldo-keto reductase family 1, member A1
AKR1A1	0.625	ALR; ALDR1; MGC1380; MGC12529	14141_000000	(aldehyde reductase) synuclein, alpha (non A4 component of
SNCA	0.624	PD1; NACP; PARK1; PARK4; MGC110988	NM_000345	amyloid precursor)
C6ORF65	0.623	FLJ30162; bA203B9.1	NM_152731	chromosome 6 open reading frame 65
CHURC1	0.623 0.623	chch; My015; C14orf52; FLJ33064	NM_145165 NM_018166	churchill domain containing 1 chromosome 1 open reading frame 78
C1ORF78	0.623	FLJ10647; RP11-268J15.2	141M_018100	peroxisome proliferative activated receptor,
	0.023	FAAR: NUC1: NUC1: NR1C2: NUC11: PPARB:		
PPARD	0.622	FAAR; NUC1; NUCI; NR1C2; NUCII; PPARB; MGC3931; PPAR-beta	NM_006238	delta
PDGFC	0.622 0.622	MGC3931; PPAR-beta SCDGF	NM_016205	platelet derived growth factor C
	0.622	MGC3931; PPAR-beta		platelet derived growth factor C anthrax toxin receptor 1
PDGFC	0.622 0.622	MGC3931; PPAR-beta SCDGF	NM_016205	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked
PDGFC ANTXR1 EIF1AX	0.622 0.622 0.62 0.62	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C	NM_016205 NM_032208 NM_001412	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation
PDGFC ANTXR1	0.622 0.622 0.62	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4	NM_016205 NM_032208 NM_001412 NM_003845 NM_177939	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked
PDGFC ANTXR1 EIF1AX DYRK4 PH-4 SYN2	0.622 0.622 0.62 0.62 0.62 0.618 0.617 0.616	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb	NM_016205 NM_032208 NM_001412 NM_003845 NM_177939 NM_133625	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II
PDGFC ANTXR1 EIF1AX DYRK4 PH-4	0.622 0.622 0.62 0.62 0.62 0.618	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4	NM_016205 NM_032208 NM_001412 NM_003845 NM_177939	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing
PDGFC ANTXRI EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1	NM_016205 NM_032208 NM_001412 NM_003845 NM_177939 NM_133625 NM_199072 NM_003391	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2
PDGFC ANTXRI EIFIAX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNNIG	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.616	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma	NM_016205 NM_032208 NM_001412 NM_003845 NM_177939 NM_133625 NM_199072 NM_003391 NM_001039	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma
PDGFC ANTXRI EIFIAX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNNIG C160RF45	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.616 0.615	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618	NM_016205 NM_032208 NM_001412 NM_003845 NM_177939 NM_133625 NM_199072 NM_003391 NM_001039 NM_033201	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45
PDGFC ANTXRI EIFIAX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNNIG	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.616	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma	NM_016205 NM_032208 NM_001412 NM_003845 NM_177939 NM_133625 NM_199072 NM_003391 NM_001039	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma
PDGFC ANTXRI EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNN1G C160RF45 TFB1M	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.616 0.615 0.615	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618 CGI75; mtTFB; CGI-75	NM 016205 NM 032208 NM 001412 NM 003845 NM 177939 NM 133625 NM 199072 NM 003391 NM 001039 NM 033201 NM 016020	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45 transcription factor B1, mitochondrial
PDGFC ANTXRI EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNNIG C160RF45 TFB1M MGC13040	0.622 0.622 0.62 0.62 0.618 0.618 0.616 0.616 0.616 0.615 0.615 0.615 0.615	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618 CGI75; mtTFB; CGI-75 MGC13040	NM 016205 NM 032208 NM 001412 NM 001412 NM 177939 NM 133625 NM 199072 NM 003391 NM 001039 NM 033201 NM 016020 NM 032930	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45 transcription factor B1, mitochondrial chromosome 11 open reading frame 70 nexilin (F actin binding protein) phosphorylase kinase, alpha 1 (muscle)
PDGFC ANTXRI EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNNIG C160RF45 TFB1M MGC13040 NEXN PHKA1	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.615 0.615 0.615 0.615 0.615 0.615	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618 CGI75; mtTFB; CGI-75 MGC13040 NELIN; MGC138865; MGC138866 PHKA; MGC132604	NM 016205 NM 032208 NM 001412 NM 003845 NM 177939 NM 133625 NM 199072 NM 003391 NM 001039 NM 033201 NM 01620 NM 032930 NM 144573 NM 002637	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45 transcription factor B1, mitochondrial chromosome 11 open reading frame 70 nexilin (F actin binding protein) phosphorylase kinase, alpha 1 (muscle) excision repair cross-complementing rodent repair deficiency, complementation group 1
PDGFC ANTXR1 EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNN1G C160RF45 TFB1M MGC13040 NEXN PHKA1	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.615 0.615 0.615 0.615 0.614 0.613	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618 CGI75; mtFFB; CGI-75 MGC13040 NELIN; MGC138865; MGC138866 PHKA; MGC132604 UV20	NM 016205 NM 032208 NM 001412 NM 003845 NM 177939 NM 133625 NM 199072 NM 003391 NM 001039 NM 033201 NM 016020 NM 032930 NM 144573 NM 002637	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45 transcription factor B1, mitochondrial chromosome 11 open reading frame 70 nexilin (F actin binding protein) phosphorylase kinase, alpha 1 (muscle) excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)
PDGFC ANTXR1 EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNN1G C160RF45 TFB1M MGC13040 NEXN PHKA1 ERCC1 MAGEH1	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.615 0.615 0.615 0.615 0.615 0.613	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618 CGI75; mtTFB; CGI-75 MGC13040 NELIN; MGC138865; MGC138866 PHKA; MGC132604 UV20 APR1; APR-1	NM 016205 NM 032208 NM 032208 NM 001412 NM 003845 NM 177939 NM 133625 NM 199072 NM 003391 NM 001039 NM 033201 NM 03201 NM 032930 NM 144573 NM 002637	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45 transcription factor B1, mitochondrial chromosome I1 open reading frame 70 nexilin (F actin binding protein) phosphorylase kinase, alpha 1 (muscle) excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) melanoma antigen family H, 1
PDGFC ANTXRI EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNN1G C160RF45 TFB1M MGC13040 NEXN PHKA1 ERCC1	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.615 0.615 0.615 0.615 0.614 0.613	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618 CGI75; mtFFB; CGI-75 MGC13040 NELIN; MGC138865; MGC138866 PHKA; MGC132604 UV20 APR1; APR-1 RGP4; SCZD9; MGC2124; MGC60244	NM 016205 NM 032208 NM 001412 NM 003845 NM 177939 NM 133625 NM 199072 NM 003391 NM 001039 NM 033201 NM 016020 NM 032930 NM 144573 NM 002637	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45 transcription factor B1, mitochondrial chromosome 11 open reading frame 70 nexilin (F actin binding protein) phosphorylase kinase, alpha 1 (muscle) excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence)
PDGFC ANTXR1 EIF1AX DYRK4 PH-4 SYN2 MDFIC WNT2 SCNN1G C160RF45 TFB1M MGC13040 NEXN PHKA1 ERCC1 MAGEH1	0.622 0.622 0.62 0.62 0.618 0.617 0.616 0.616 0.615 0.615 0.615 0.615 0.615 0.613	MGC3931; PPAR-beta SCDGF ATR; TEM8; FLJ10601; FLJ11298; FLJ21776 EIF1A; EIF4C; eIF-1A; eIF-4C RPGRIP1 PH-4 SYNII; SYNIIa; SYNIIb HIC IRP; INT1L1 PHA1; ENaCg; SCNEG; ENaCgamma FLJ32618 CGI75; mtTFB; CGI-75 MGC13040 NELIN; MGC138865; MGC138866 PHKA; MGC132604 UV20 APR1; APR-1	NM 016205 NM 032208 NM 032208 NM 001412 NM 003845 NM 177939 NM 133625 NM 199072 NM 003391 NM 001039 NM 033201 NM 03201 NM 032930 NM 144573 NM 002637	platelet derived growth factor C anthrax toxin receptor 1 eukaryotic translation initiation factor 1A, X- linked dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 4 hypoxia-inducible factor prolyl 4-hydroxylase synapsin II MyoD family inhibitor domain containing wingless-type MMTV integration site family member 2 sodium channel, nonvoltage-gated 1, gamma chromosome 16 open reading frame 45 transcription factor B1, mitochondrial chromosome 11 open reading frame 70 nexilin (F actin binding protein) phosphorylase kinase, alpha 1 (muscle) excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) melanoma antigen family H, 1 regulator of G-protein signalling 4

	0.609	ECPN	NM_014322	opsin 3 (encephalopsin, panopsin)
PPIF	0.608	CYP3; Cyp-D; FLJ90798; MGC117207	NM_005729	peptidylprolyl isomerase F (cyclophilin F)
MR1	0.607	HLALS	NM 001531	major histocompatibility complex, class I- related
IVIK1	0.007	HLALS	NW_001331	ST3 beta-galactoside alpha-2,3-
ST3GAL3	0.607	ST3N; SIAT6; ST3GALII; ST3GalIII; ST3Gal III	NM_006279	sialyltransferase 3
PDE7B	0.606	MGC88256; bA472E5.1	NM_018945	phosphodiesterase 7B
				human immunodeficiency virus type I
HIVEP2	0.605	MBP-2; MIBP1; HIV-EP2	NM_006734	enhancer binding protein 2
MFN2	0.605	HSG; MARF; CMT2A; CPRP1; CMT2A2; KIAA0214	NM 014874	mitofusin 2
LOXL1	0.603	LOL; LOXL	NM 005576	lysyl oxidase-like 1
LOALI	0.003	LOL, LOAL	NW_003370	ADP-ribosylation factor interacting protein 1
ARFIP1	0.603	HSU52521; MGC117369	NM 001025595	(arfaptin 1)
TRIM55	0.602	RNF29; MURF-2	NM 184086	tripartite motif-containing 55
KHK	0.602	TRAP1	NM 000221	ketohexokinase (fructokinase)
FLJ10159	0.601	FLJ10159	NM_018013	hypothetical protein FLJ10159
CNTN1	0.601	F3; GP135	NM_001843	contactin 1
ARHGAP9	0.601	10C; RGL1; MGC1295; FLJ16525	NM_032496	Rho GTPase activating protein 9
HIST1H2BC	0.601	H2B.1; H2B/I; H2BFL; dJ221C16.3	NM_003526	histone 1, H2bc
LOC196394	0.6	LOC196394	NM_207337	hypothetical protein LOC196394
SLC7A10	0.598	asc-1; HASC-1; FLJ20839	NM 019849	solute carrier family 7, (neutral amino acid transporter, y+ system) member 10
SLC/A10	0.398	asc-1, HASC-1, FLJ20839	NWI_019849	DEAD (Asp-Glu-Ala-Asp) box polypeptide
DDX46	0.598	MGC9936; FLJ25329; KIAA0801	NM 014829	46
DDZI40	0.570	COASTER; FLJ90693; KIAA0576; MGC26701;	1414_014029	40
ZNF451	0.598	dJ417I1.1	NM_001031623	zinc finger protein 451
				ATPase, H+ transporting, lysosomal 13kDa,
ATP6V1G2	0.598	NG38; ATP6G; VMA10; ATP6G2	NM_130463	V1 subunit G2
LOC92689	0.598	LOC92689	NM_138389	hypothetical protein BC001096
SCIN	0.597	KIAA1905	NM_033128	scinderin
11.01		AGS; AHD; AWS; HJ1; CD339; JAGL1;	373.4 00002 · ·	11/41 7
JAG1	0.597	MGC104644	NM_000214	jagged 1 (Alagille syndrome)
SYN3	0.597	SYN3	NM_133633	synapsin III activating signal cointegrator 1 complex
ASCC3L1	0.505	BRR2: HELIC2: U5-200KD	NM 014014	subunit 3-like 1
ASCULI	0.595	DKK2, HELIC2, UJ-200KD	NM_014014	ADAM metallopeptidase domain 9 (meltrin
ADAM9	0.595	MCMP; MDC9; Mltng; KIAA0021	NM 003816	gamma)
IGF2	0.595	INSIGF; pp9974; C11orf43; FLJ22066; FLJ44734	NM 000612	insulin-like growth factor 2 (somatomedin A)
	0.070	, , , , , , , , , , , , , , , , ,		serpin peptidase inhibitor, clade F (alpha-2
				antiplasmin, pigment epithelium derived
SERPINF1	0.594	PEDF; EPC-1; PIG35	NM_002615	factor), member 1
				electron-transferring-flavoprotein
ETFDH	0.593	MADD; ETFQO	NM_004453	dehydrogenase
SH2D3C	0.593	CHAT; NSP3; FLJ39664; PRO34088	NM_170600	SH2 domain containing 3C
Mar-06	0.592	TEB4; RNF176; KIAA0597; MARCH-VI	NM_005885	membrane-associated ring finger (C3HC4) 6
NIP30 IFNAR2	0.592 0.592	NIP30; CDA10; CDA018; FLJ21799; MGC74898 IFN-R; IFNABR; IFNARB; IFN-alpha-REC	NM_024946 NM_207584	NEFA-interacting nuclear protein NIP30 interferon (alpha, beta and omega) receptor 2
IFNAR2	0.592	DHRD; DRAD; FBNL; MLVT; MTLV; S1-5;	NM_20/384	EGF-containing fibulin-like extracellular
EFEMP1	0.591	FBLN3; FLJ35535; MGC111353	NM 004105	matrix protein 1
DI DIIII I	0.571	13210,1233330,1100111333	1441_001100	leucine rich repeat containing 8 family,
LRRC8C	0.591	AD158; FAD158; MGC138551; DKFZp586J1119	NM 032270	member C
			_	RAS guanyl releasing protein 2 (calcium and
RASGRP2	0.59	CDC25L; CALDAG-GEFI	NM_005825	DAG-regulated)
				glutamate receptor, ionotropic, N-methyl D-
GRIN1	0.59	NR1; NMDA1; NMDAR1	NM_007327	aspartate 1
SNAP23	0.589	SNAP23A; SNAP23B; HsT17016 KIAA0921	NM_130798	synaptosomal-associated protein, 23kDa
NRXN2	0.589		NM_015080	neurexin 2
CAST	0.589 0.589	BS-17; MGC9402	NM_173060	calpastatin
	0.589			calpastatin chromosome 9 open reading frame 123
CAST C9ORF123	0.589 0.589 0.589	BS-17; MGC9402 MGC4730	NM 173060 NM 033428	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase
CAST	0.589 0.589	BS-17; MGC9402	NM_173060	calpastatin chromosome 9 open reading frame 123
CAST C9ORF123 CAMK2N2	0.589 0.589 0.589 0.589	BS-17; MGC9402 MGC4730 CAM-KIIN	NM_173060 NM_033428 NM_033259	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2
CAST C9ORF123 CAMK2N2 STARD5	0.589 0.589 0.589 0.589 0.588	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39	0.589 0.589 0.589 0.589 0.588 0.588 0.588	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFw1	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1	0.589 0.589 0.589 0.589 0.588 0.588 0.588 0.587 0.586	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFw1 KIAA0290	NM 173060 NM 033428 NM 033259 NM_181900 NM 015162 NM 025236 NM_015122	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39	0.589 0.589 0.589 0.589 0.588 0.588 0.588	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFw1	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29	0.589 0.589 0.589 0.589 0.588 0.588 0.588 0.587 0.586	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFWI KIAA0290 BAP29; DKFZp686M2086	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel,
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1	0.589 0.589 0.589 0.589 0.588 0.588 0.588 0.587	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFwI KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549	NM 173060 NM 033428 NM 033259 NM_181900 NM 015162 NM 025236 NM_015122	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2	0.589 0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFw1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRLI; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2;	NM 173060 NM 033428 NM 033259 NM_181900 NM 015162 NM 025236 NM 015122 NM_001008406 NM_016113	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29	0.589 0.589 0.589 0.589 0.588 0.588 0.588 0.587 0.586	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIA0290 BAP29; DKFZp686M2086 VRL; VRLI; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCH01 BCAP29 TRPV2 ADAMTS2	0.589 0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.585	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701;	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFwl KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7, MKP-7; KIAA1700; MGC129701; MGC129702	NM 173060 NM 033428 NM 033259 NM_181900 NM 015162 NM 025236 NM 015122 NM_001008406 NM_016113	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16	0.589 0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.585	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701;	NM 173060 NM 033428 NM 033259 NM_181900 NM 015162 NM 025236 NM_015122 NM 001008406 NM_016113 NM_021599 NM_030640	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.585	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.585	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae)
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCH01 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.585 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRLI; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.585 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFw1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.585 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRLI; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif; 2 dual specificity phosphatase 16 glypican 3 KIAA1033 Vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.585 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCH01 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.585 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFw1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1	0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFwI KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBSI KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP; CTRP1; ZSIG37; FLJ90694	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA 1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5	0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP; CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 175081	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif; 2 dual specificity phosphatase 16 glypican 3 KIAA 1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCH01 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 HESX1	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP; CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 175081 NM 03865	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 HESX1 PCAF	0.589 0.589 0.589 0.589 0.588 0.588 0.585 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFWI KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBSI KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP, CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 030968 NM 030884	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 HESX1 PCAF SYNGR1	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP; CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1 MGC1939	NM 173060 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 175081 NM 003865 NM 003884 NM 145731	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor synaptogyrin 1
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 HESX1 PCAF SYNGR1 PRRX1	0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRLI; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP; CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1 MGC1399 PMX1; PRX1; PHOX1	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 175081 NM 03884 NM 145731 NM 006902	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor synaptogyrin 1 paired related homeobox 1
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCH01 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 HESX1 PCAF SYNGR1 PRRX1 HMFN0839	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.583 0.583 0.583 0.583 0.583 0.582 0.582 0.582 0.581	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFw1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP; CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1 MGC:1939 PMX1; PRX1; PHOX1 LPAAT-THETA; MGC11324	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 016275 NM 016079 NM 198353 NM 014945 NM 030968 NM 030968 NM 030884 NM 175081 NM 003885 NM 003884 NM 185731 NM 006902 NM 032717	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor synaptogyrin 1 paired related homeobox 1 lysophosphatidic acid acyltransferase theta
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 PESX1 PCAF SYNGR1 PRRX1 HMFN0839 FLJ32028	0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFwI KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBSI KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP, CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1 MGC:1939 PMXI; PRXI; PHOX1 LPAAT-THETA; MGC11324 FLJ32028	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 175081 NM 003884 NM 175081 NM 003884 NM 145731 NM 006902 NM 006902 NM 032717 NM 152680	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor synaptogyrin 1 paired related homeobox 1 lysophosphatidic acid acyltransferase theta transmembrane protein 154
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHOI BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 HESX1 PCAF SYNGR1 PRRX1 HMFN0839 FLJ32028 PTHR2	0.589 0.589 0.589 0.589 0.588 0.587 0.586 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.587 0.586 0.587	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP, PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP, CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1 MGC:1939 PMX1; PRX1; PHOX1 LPAAT-THETA; MGC11324 FLJ32028 PTHR2	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 175081 NM 003865 NM 003865 NM 003865 NM 003865 NM 003865 NM 003861 NM 003865 NM 003865 NM 0032717 NM 152680 NM 005048	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor mecrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor synaptogyrin 1 paired related homeobox 1 lysophosphatidic acid acyltransferase theta transmembrane protein 154 parathyroid hormone receptor 2
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCHO1 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 PESX1 PCAF SYNGR1 PRRX1 HMFN0839 FLJ32028	0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BGI; BGM; hBGI; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFwI KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBSI KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP, CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1 MGC:1939 PMXI; PRXI; PHOX1 LPAAT-THETA; MGC11324 FLJ32028	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 016079 NM 198353 NM 014945 NM 030968 NM 175081 NM 003884 NM 175081 NM 003884 NM 145731 NM 006902 NM 006902 NM 032717 NM 152680	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor synaptogyrin 1 paired related homeobox 1 lysophosphatidic acid acyltransferase theta transmembrane protein 154
CAST C9ORF123 CAMK2N2 STARD5 ACSBG1 RNF39 FCH01 BCAP29 TRPV2 ADAMTS2 DUSP16 GPC3 KIAA1033 VPS24 KCTD8 ABLIM3 C1QTNF1 P2RX5 HESX1 PCAF SYNGR1 PRRX1 HMFN0839 FLJ32028 PTHR2 ABHD7	0.589 0.589 0.589 0.588 0.588 0.587 0.586 0.585 0.585 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.583 0.585 0.585 0.585 0.585 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.586 0.587 0.587 0.586 0.587 0.587 0.587 0.586 0.587	BS-17; MGC9402 MGC4730 CAM-KIIN MGC10327 BG1; BGM; hBG1; hsBG; GR-LACS; FLJ30320; KIAA0631; MGC14352 HZF; HZFW; LIRF; HZFW1 KIAA0290 BAP29; DKFZp686M2086 VRL; VRL1; VRL-1; MGC12549 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 MKP7; MKP-7; KIAA1700; MGC129701; MGC129702 SGB; DGSX; SDYS; SGBS; SGBS1 KIAA1033 NEDF; CHMP3; CGI-149 C3orf57 HMFN1661 GIP; CTRP1; ZSIG37; FLJ90694 P2X5; P2X5R; MGC47755 RPX; MGC138294 CAF; GCN5; GCN5L; P/CAF; GCN5L1 MGC:1939 PMX1; PRX1; PHOX1 LPAAT-THETA; MGC11324 FLJ32028 PTHR2 EPHXRP; FLJ90341	NM 173060 NM 033428 NM 033428 NM 033259 NM 181900 NM 015162 NM 025236 NM 015122 NM 001008406 NM 016113 NM 021599 NM 030640 NM 004484 NM 015275 NM 198353 NM 014945 NM 030968 NM 175081 NM 030865 NM 03884 NM 145731 NM 006902 NM 032717 NM 152680 NM 005048 NM 173567	calpastatin chromosome 9 open reading frame 123 calcium/calmodulin-dependent protein kinase II inhibitor 2 START domain containing 5 acyl-CoA synthetase bubblegum family member 1 ring finger protein 39 FCH domain only 1 B-cell receptor-associated protein 29 transient receptor potential cation channel, subfamily V, member 2 ADAM metallopeptidase with thrombospondin type 1 motif, 2 dual specificity phosphatase 16 glypican 3 KIAA1033 vacuolar protein sorting 24 homolog (S. cerevisiae) potassium channel tetramerisation domain containing 8 actin binding LIM protein family, member 3 C1q and tumor necrosis factor related protein 1 purinergic receptor P2X, ligand-gated ion channel, 5 homeobox, ES cell expressed 1 p300/CBP-associated factor synaptogyrin 1 paired related homeobox 1 lysophosphatidic acid acyltransferase theta transmembrane protein 154 parathyroid hormone receptor 2 abbydrolase domain containing 7

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CD99L2	0.575	MIC2L1; DKFZp761H2024	NM 134446	oncogene homolog (avian) CD99 molecule-like 2
		p57; TACO; CLABP; HCORO1; CLIPINA;	_	
CORO1A	0.574	FLJ41407; MGC117380	NM_007074	coronin, actin binding protein, 1A
LOC492311 HRASLS	0.574 0.573	LOC492311 A-C1; HSD28; HRASLS1; H-REV107	NM_001007189 NM_020386	similar to bovine IgA regulatory protein HRAS-like suppressor
OSMR	0.573	OSMRB; MGC75127	NM 003999	oncostatin M receptor
COL16A1	0.572	447AA; FP1572	NM 001856	collagen, type XVI, alpha 1
QSCN6	0.572	Q6; QSOX1	NM_002826	quiescin Q6
NOV	0.572	CCN3; NOVH; IGFBP9	NM_002514	nephroblastoma overexpressed gene
GABRA5	0.569	MGC138184	NM 000810	gamma-aminobutyric acid (GABA) A receptor, alpha 5
GABRAS	0.507	MGC136164	14141_000010	CDP-diacylglycerol synthase (phosphatidate
CDS1	0.568	CDS	NM_001263	cytidylyltransferase) 1
10.004	0.555	10.004 10.10.004 10.00	177.6.00.6.00	matrix metallopeptidase 24 (membrane-
MMP24 SYT4	0.567 0.567	MMP25; MT-MMP5; MT5-MMP HsT1192; KIAA1342	NM_006690 NM_020783	inserted) synaptotagmin IV
RAB40B	0.566	RAR; SEC4L; FLJ42385	NM 006822	RAB40B, member RAS oncogene family
IC ID TOD	0.500	PDF; MIC1; PLAB; MIC-1; NAG-1; PTGFB; GDF-	14141_000022	RAD-OD, member RAD oneogene ranning
GDF15	0.566	15	NM_004864	growth differentiation factor 15
CLYBL	0.565	CLB; bA134O15.1	NM_206808	citrate lyase beta like
EMR2	0.565	CD312; DKFZp781B135	NM 013447	egf-like module containing, mucin-like, hormone receptor-like 2
IL13RA1	0.564	NR4; CD213A1; IL-13Ra	NM 001560	interleukin 13 receptor, alpha 1
		HT013; MGC102941; MGC141930;		
C20ORF19	0.564	DKFZP586H021	NM_018474	chromosome 20 open reading frame 19
KYNU	0.563	DLK1	NM_003937	kynureninase (L-kynurenine hydrolase)
AIG1	0.563	AIG-1; FLJ10485; dJ95L4.1; RP1-95L4.1; DKFZp686F03136	NM 016108	androgen-induced 1
.1101	0.303	5.1. Дросот 05150	1111_010100	methylenetetrahydrofolate dehydrogenase
MTHFD2L	0.563	FLJ13105; MGC45532; MGC72244	NM_001004346	(NADP+ dependent) 2-like
METRN	0.562	MGC2601; C16orf23; c380A1.2	NM_024042	meteorin, glial cell differentiation regulator
MAP2K5	0.562	MEK5; MAPKK5; PRKMK5; HsT17454	NM_002757	mitogen-activated protein kinase kinase 5
LPPR4	0.562	LPPR4; PHP1; PRG1; PRG-1; KIAA0455; RP4- 788L13.1	NM 014839	plasticity related gene 1
SPHK1	0.562	/88L13.1 SPHK	NM_014839 NM_021972	sphingosine kinase 1
SYT15	0.562	sytXV; CHR10SYT; syt XV-a	NM 181519	synaptotagmin XV
DOCK11	0.56	ZIZ2; FLJ32122; FLJ43653; bB128O4.1	NM_144658	dedicator of cytokinesis 11
IRAK3	0.559	IRAK-M	NM_007199	interleukin-1 receptor-associated kinase 3
		LPP3; VCIP; Dri42; PAP-2b; PAP2-b; MGC15306;		
PPAP2B	0.557	PAP2-beta	NM_003713	phosphatidic acid phosphatase type 2B
TMEM42 HAGHL	0.557 0.557	MGC29956 MGC2605	NM_144638 NM_032304	transmembrane protein 42 hydroxyacylglutathione hydrolase-like
HAGHL	0.557	NTN; NTT; CXC3; CXC3C; SCYD1; ABCD-3;	INIVI_032304	nydroxyacyigidiadiione nydroiase-nke
CX3CL1	0.556	C3Xkine; fractalkine; neurotactin	NM 002996	chemokine (C-X3-C motif) ligand 1
GPR176	0.555	GPR; Gm1012	NM_007223	G protein-coupled receptor 176
LY96	0.554	MD-2	NM_015364	lymphocyte antigen 96
ZNF25	0.554	Zfp9; KOX19; FLJ31890; DKFZp564C206	NM_145011	zinc finger protein 25
TMEM54	0.553	BCLP; CAC1; CAC-1; MGC10137 CARD7; DEFCAP; PP1044; KIAA0926; DEFCAP-	NM_033504	transmembrane protein 54 NACHT, leucine rich repeat and PYD (pyrin
NALP1	0.553	L/S; DKFZp586O1822	NM 001033053	domain) containing 1
		P54; FKBP51; FKBP54; PPIase; Ptg-10;		, ,
FKBP5	0.553	MGC111006	NM_004117	FK506 binding protein 5
CNE	0.552	NM, DMBV, IBM2, Heat, CLCNE	NIM 005476	glucosamine (UDP-N-acetyl)-2-epimerase/N-
GNE TMEM106C	0.552	NM; DMRV; IBM2; Uae1; GLCNE MGC5576; MGC111210	NM_005476 NM_024056	acetylmannosamine kinase transmembrane protein 106C
TWENTOOC	0.552	MGC5570, MGC111210	1414_024030	tumor necrosis factor receptor superfamily,
TNFRSF14	0.551	TR2; ATAR; HVEA; HVEM; LIGHTR	NM_003820	member 14 (herpesvirus entry mediator)
	0.55	GVD (1510	277.6.04.420.5	NIMA (never in mitosis gene a)-related kinase
NEK6 LOC221091	0.55	SID6-1512 LOC221091: MGC61707	NM_014397 NM_203422	6
XPO6	0.549	EXP6; RANBP20; FLJ22519; KIAA0370	NM_203422 NM_015171	similar to hypothetical protein exportin 6
CNIH3	0.549	FLJ38993	NM 152495	cornichon homolog 3 (Drosophila)
PRAF2	0.549	JM4	NM 007213	PRA1 domain family, member 2
CDH13	0.549	CDHH	NM_001257	cadherin 13, H-cadherin (heart)
VEDIA	0.510	FLJ12604; KIAA1692; MGC111426; MGC126709;	NIM 024621	ventricular zone expressed PH domain
VEPH1 EBF3	0.548 0.547	MGC142115 COE3; O/E-2	NM_024621 NM_001005463	homolog 1 (zebrafish) early B-cell factor 3
EDI-J	0.347	PBSF; SDF1; SDF1A; SDF1B; TPAR1; SCYB12;	11111_001003403	chemokine (C-X-C motif) ligand 12 (stromal
CXCL12	0.547	SDF-1a; SDF-1b; TLSF-a; TLSF-b	NM_000609	cell-derived factor 1)
RECQL	0.543	RecQ1; RECQL1	NM_032941	RecQ protein-like (DNA helicase Q1-like)
BLVRA	0.543	BLVR; BVRA	NM_000712	biliverdin reductase A
ATP8B3	0.542	ATPIK	NM_138813	ATPase, Class I, type 8B, member 3
C12ORF23 PRRG1	0.541 0.541	FLJ11721; FLJ13959; MGC17943 PRGP1	NM_152261 NM_000950	chromosome 12 open reading frame 23 proline rich Gla (G-carboxyglutamic acid) 1
TPBG	0.541	5T4; M6P1; 5T4-AG	NM 006670	trophoblast glycoprotein
	0.5.1	. ,,		nuclear factor I/C (CCAAT-binding
NFIC	0.541	CTF; NFI; CTF5; NF-I; MGC20153	NM_005597	transcription factor)
BCAN	0.54	BEHAB; CSPG7; MGC13038	NM_021948	brevican
GPRC5B	0.539	RAIG2; RAIG-2	NM 016235	G protein-coupled receptor, family C, group 5, member B
C6ORF117	0.539	RAIG2; RAIG-2 RP11-51G5.2	NM 138409	chromosome 6 open reading frame 117
LDHD	0.538	MGC57726	NM_194436	lactate dehydrogenase D
UNQ3045	0.538	UNQ3045	NM_207409	AAAL3045
C1R	0.537	VIM	NM_001733	complement component 1, r subcomponent
HEV1	0.525	CHES. CAES, HERRS, HERRS, AREA A MCCOSS	NIM 012270	hairy/enhancer-of-split related with YRPW
HEY1 NIFUN	0.535 0.535	CHF2; OAF1; HERP2; HESR1; HRT-1; MGC1274 ISCU; ISU2; NIFU; MGC74517; 2310020H20Rik	NM_012258 NM_014301	motif 1 NifU-like N-terminal domain containing
LOC285989	0.535	LOC285989	NM_014301 NM_001013258	zinc finger protein 789
200203707	0.333	100200707	1111_001013230	potassium channel tetramerisation domain
KCTD10	0.535	ULRO61; MSTP028; FLJ41739	NM_031954	containing 10
FKBP10	0.535	FKBP65; hFKBP65; FLJ22041	NM_021939	FK506 binding protein 10, 65 kDa
DTV2	0.524	TOC 14. TNEATHS	NIM 002052	pentraxin-related gene, rapidly induced by IL-
PTX3 RBP7	0.534 0.534	TSG-14; TNFAIP5 CRBP4; CRBPIV; MGC70641	NM_002852 NM_052960	1 beta retinol binding protein 7, cellular
KDF /	0.554	CKD14, CKD114, MOC/0041	14141_032500	reamor omaing protein /, centilar

STAT5A	0.534	MGF; STAT5	NM 003152	signal transducer and activator of transcription 5A
KNTC2	0.534	HEC; HEC1	NM 006101	kinetochore associated 2
	0.533	VDR; CP2B; CYP1; PDDR; VDD1; VDDR;	NM 000785	cytochrome P450, family 27, subfamily B,
CYP27B1		VDDRI; CYP27B; P450c1; CYP1alpha AML1; CBFA2; EVI-1; AMLCR1; PEBP2aB;		polypeptide 1 runt-related transcription factor 1 (acute
RUNX1	0.533	AML1-EVI-1	NM_001754	myeloid leukemia 1; aml1 oncogene) epidermal growth factor receptor
				(erythroblastic leukemia viral (v-erb-b)
EGFR TEX14	0.531	ERBB; mENA; ERBB1 TEX14	NM_201283 NM_031272	oncogene homolog, avian) testis expressed sequence 14
IEA14	0.331	MRP; WLS; C1orf139; FLJ23091; MGC14878;	NWI_031272	testis expressed sequence 14
GPR177	0.531	MGC131760	NM_001002292	G protein-coupled receptor 177
CUZD1	0.53	ERG-1; UO-44	NM_022034	CUB and zona pellucida-like domains 1
CRAT CPNE3	0.529 0.527	CAT1 CPN3; PRO1071; KIAA0636	NM_000755 NM_003909	carnitine acetyltransferase copine III
OSBPL5	0.527	ORP5; OBPH1; FLJ42929	NM_020896	oxysterol binding protein-like 5
arr a	0.505	a = a=xxx	373.6.00.6250	sema domain, immunoglobulin domain (Ig),
SEMA3C CD36	0.526 0.525	SemE; SEMAE FAT; GP4; GP3B; GPIV; PASIV; SCARB3	NM_006379 NM_001001548	short basic domain, secreted, (semaphorin) 3C CD36 molecule (thrombospondin receptor)
VAMP4	0.525	1A1, 014, 013b, 011v, 1A3tv, 5CARb3	NM 201994	CD30 morecure (unombosponam receptor)
FLJ20105	0.524	FLJ20105; MGC131695	NM_017669	FLJ20105 protein
KIAA0367 ANTXR1	0.524 0.522	BMCC1; BNIPXL; A214N16.3; bA214N16.3 ATR; TEM8; FLJ10601; FLJ11298; FLJ21776	NM_015225 NM_053034	KIAA0367
ANIAKI	0.322	ATK, TEM8, FLJ10001, FLJ11298, FLJ21//6	NWI_033034	anthrax toxin receptor 1 sparc/osteonectin, cwcv and kazal-like
SPOCK2	0.522	testican-2	NM_014767	domains proteoglycan (testican) 2
NINJ1	0.521	NIN1; NINJURIN	NM_004148	ninjurin 1
NAV3 ZDHHC19	0.52 0.518	POMFIL1; unc53H3; KIAA0938; STEERIN3	NM 014903 NM 144637	neuron navigator 3
MGLL	0.518	MGL; HU-K5	NM_001003794	monoglyceride lipase
140000101	0.540	NGGENIA	373.6.0000000	similar to FRG1 protein (FSHD region gene 1
MGC72104 DUSP6	0.518 0.518	MGC72104 MKP3; PYST1	NM_207350 NM_001946	protein) dual specificity phosphatase 6
CYBASC3	0.517	MGC20446	NM 153611	cytochrome b, ascorbate dependent 3
				proteoglycan 2, bone marrow (natural killer
PRG2	0.515	MDD: DMDG: MGC14527	NM 002728	cell activator, eosinophil granule major basic protein)
PRG2	0.313	MBP; BMPG; MGC14537 DAGK; DAGK1; MGC12821; MGC42356; DGK-	NWI_002728	protein)
DGKA	0.513	alpha	NM_201554	diacylglycerol kinase, alpha 80kDa
CNITTO	0.512	CNITA CNITA CNITADA ECTASACA DACCASALE	ND 6 0007770	syntrophin, beta 2 (dystrophin-associated
SNTB2 ARHGAP22	0.513 0.512	SNT3; SNTL; SNT2B2; EST25263; D16S2531E RhoGAP2	NM_006750 NM_021226	protein A1, 59kDa, basic component 2) Rho GTPase activating protein 22
		BYE1; DIO1; DATF1; DIDO2; DIDO3; DIO-1;		
DIDOI	0.511	FLJ11265; KIAA0333; MGC16140; C20orf158;	NIM 000707	death in decree at the control of
DIDO1 TLOC1	0.511	dJ885L7.8; DKFZp434P1115 HTP1; Dtrp1; SEC62; FLJ32803	NM_080796 NM_003262	death inducer-obliterator 1 translocation protein 1
EVI5L	0.511	EVI5L	NM_145245	ecotropic viral integration site 5-like
EMILIN1	0.51	gp115; EMILIN; EMILIN-1; DKFZP586M121	NM_007046	elastin microfibril interfacer 1
C14ORF149	0.51	FLJ25436	NM_144581	chromosome 14 open reading frame 149 carbohydrate (N-acetylgalactosamine 4-0)
CHST8	0.51	CDKN2C	NM_022467	sulfotransferase 8
D.C.L.	0.500	D.G. VIII LOOFO	377.645440	ral guanine nucleotide dissociation stimulator-
RGL1	0.509	RGL; KIAA0959	NM_015149	like 1 B-cell CLL/lymphoma 6 (zinc finger protein
BCL6	0.509	BCL5; LAZ3; BCL6A; ZNF51; ZBTB27	NM_001706	51)
CAPN2	0.509	mCANP; CANPL2; CANPml	NM_001748	calpain 2, (m/II) large subunit
PCSK9 CLIC6	0.509 0.508	FH3; NARC1; NARC-1; HCHOLA3 CLIC1L	NM 174936 NM 053277	proprotein convertase subtilisin/kexin type 9 chloride intracellular channel 6
SSSCA1	0.508	p27	NM 006396	Sjogren's syndrome/scleroderma autoantigen 1
		MRP; WLS; C1orf139; FLJ23091; MGC14878;	_	
GPR177	0.508	MGC131760 SGD; DAGD; 35DAG; CMD1L; SGCDP;	NM_001002292	G protein-coupled receptor 177 sarcoglycan, delta (35kDa dystrophin-
SGCD	0.507	MGC22567; SG-delta	NM 172244	associated glycoprotein)
CALCB	0.506	CALC2; CGRP2; CGRP-II; FLJ30166	NM_000728	calcitonin-related polypeptide, beta
ATCAY COORE125	0.506	CLAC; BNIP-H; KIAA1872	NM_033064	ataxia, cerebellar, Cayman type (caytaxin) chromosome 9 open reading frame 125
C9ORF125	0.506	MGC12992 A4; STV1; VPH1; VPP2; RTA1C; RTADR;	NM_032342	chromosome 9 open reading frame 125
		ATP6N2; RDRTA2; ATP6N1B; MGC130016;		ATPase, H+ transporting, lysosomal V0
ATP6V0A4	0.506	MGC130017	NM_130840 NM_030971	subunit a4 sideroflexin 3
SFXN3 EHD2	0.505 0.505	SFX3; BA108L7.2 PAST2	NM_030971 NM_014601	EH-domain containing 2
				MOB1, Mps One Binder kinase activator-like
MOBKL2C	0.504	MOB3C; MGC26743	NM_201403	2C (yeast)
FUCA2	0.503	MGC1314; dJ20N2.5; RP1-20N2.5 DKFZp686D143; DKFZp686M031;	NM_032020	fucosidase, alpha-L- 2, plasma
PRICKLE2	0.503	DKFZp686H1748	NM_198859	prickle-like 2 (Drosophila)
DDEE2	0.500	PAP; PAG3; AMAP2; SHAG1; KIAA0400; Pap-	NIM DOZDOS	development and differentiation enhancing
DDEF2 TJP3	0.503	alpha ZO-3; MGC119546	NM_003887 NM_014428	factor 2 tight junction protein 3 (zona occludens 3)
	0.503			
MORC4	0.503 0.502	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2	NM_024657	MORC family CW-type zinc finger 4
MORC4	0.502	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2		acyl-CoA synthetase long-chain family
		ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194	NM_024657 NM_004457	
MORC4	0.502	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1		acyl-CoA synthetase long-chain family
MORC4 ACSL3 HSD11B1	0.502 0.502 0.501	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1 FH; HF; HF1; HF2; HUS; FHL1; CFHL3;	NM_004457 NM_005525	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1
MORC4 ACSL3	0.502	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1	NM_004457	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1 complement factor H
MORC4 ACSL3 HSD11B1	0.502 0.502 0.501	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1 FH; HF; HF1; HF2; HUS; FHL1; CFHL3;	NM_004457 NM_005525	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1 complement factor H sterile alpha motif and leucine zipper containing kinase AZK
MORC4 ACSL3 HSD11B1 CFH ZAK	0.502 0.502 0.501 0.501 0.5	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1 FH; HF; HF1; HF2; HUS; FHL1; CFHL3; MGC88246 ZAK; AZK; MLT; MRK; MLK7; MLTK; mlklak	NM_004457 NM_005525 NM_001014975 NM_133646	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1 complement factor H sterile alpha motif and leucine zipper containing kinase AZK poly (ADP-ribose) polymerase family,
MORC4 ACSL3 HSD11B1 CFH ZAK PARP12	0.502 0.502 0.501 0.501 0.501	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1 FH; HF; HF1; HF2; HUS; FHL1; CFHL3; MGC88246	NM_004457 NM_005525 NM_001014975 NM_133646 NM_022750	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1 complement factor H sterile alpha motif and leucine zipper containing kinase AZK
MORC4 ACSL3 HSD11B1 CFH ZAK	0.502 0.502 0.501 0.501 0.5	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1 FH; HF; HF1; HF2; HUS; FHL1; CFHL3; MGC88246 ZAK; AZK; MLT; MRK; MLK7; MLTK; mlklak	NM_004457 NM_005525 NM_001014975 NM_133646	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1 complement factor H sterile alpha motif and leucine zipper containing kinase AZK poly (ADP-ribose) polymerase family, member 12
MORC4 ACSL3 HSD11B1 CFH ZAK PARP12 PNCK HTR7	0.502 0.502 0.501 0.501 0.5 0.5 0.5 0.499	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1 FH; HF; HF1; HF2; HUS; FHL1; CFHL3; MGC88246 ZAK; AZK; MLT; MRK; MLK7; MLTK; mlklak ZC3H1; PARP-12; ZC3HDC1; FLJ22693 5-HT7	NM_004457 NM_005525 NM_001014975 NM_133646 NM_022750 NM_198452 NM_000872	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1 complement factor H sterile alpha motif and leucine zipper containing kinase AZK poly (ADP-ribose) polymerase family, member 12 5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)
MORC4 ACSL3 HSD11B1 CFH ZAK PARP12 PNCK	0.502 0.502 0.501 0.501 0.501 0.5 0.5	ZCW4; ZCWCC2; FLJ11565; dJ75H8.2 ACS3; FACL3; PRO2194 HDL; 11-DH; HSD11; HSD11B; HSD11L; MGC13539; 11-beta-HSD1 FH; HF; HF1; HF2; HUS; FHL1; CFHL3; MGC88246 ZAK; AZK; MLT; MRK; MLK7; MLTK; mlklak ZC3H1; PARP-12; ZC3HDC1; FLJ22693	NM_004457 NM_005525 NM_001014975 NM_133646 NM_022750 NM_198452	acyl-CoA synthetase long-chain family member 3 hydroxysteroid (11-beta) dehydrogenase 1 complement factor H sterile alpha motif and leucine zipper containing kinase AZK poly (ADP-ribose) polymerase family, member 12 5-hydroxytryptamine (serotonin) receptor 7

		CT; KC; CGRP; CALC1; CGRP1; CGRP-I;	1	calcitonin/calcitonin-related polypeptide,
CALCA	0.494 0.493	MGC126648 FHOS2: Formactin2	NM_001033953	alpha formin homology 2 domain containing 3
FHOD3 FLJ20160	0.493	FLJ20160	NM 025135 NM 017694	FLJ20160 protein
1 L320100	0.472	11320100	1414_017024	protein phosphatase 2C, magnesium-
PPM2C	0.492	PDH; PDP; PDP1; PDPC; FLJ32517; MGC119646	NM_018444	dependent, catalytic subunit
FBLN5	0.491	EVEC; UP50; ARMD3; DANCE; FLJ90059	NM_006329	fibulin 5
CRYL1	0.491	MGC149525; MGC149526	NM_015974	crystallin, lambda 1
DIDEKAA	0.401	DIDLY, DIDER II -1-1-1-	NIM 005020	phosphatidylinositol-4-phosphate 5-kinase,
PIP5K2A TXNDC5	0.491 0.491	PIPK; PIP5KII-alpha ERP46; UNQ364; EndoPDI; MGC3178	NM_005028 NM_030810	type II, alpha thioredoxin domain containing 5
TANDCS	0.471	ERF 40, UNQ304, Elidor DI, MGC3178	NWI_030810	sirtuin (silent mating type information
SIRT1	0.49	SIR2L1	NM 012238	regulation 2 homolog) 1 (S. cerevisiae)
GNPDA2	0.49	SB52	NM_138335	glucosamine-6-phosphate deaminase 2
C14ORF106	0.49	FLJ11186; KIAA1903; HSA242977	NM_018353	chromosome 14 open reading frame 106
CNII V	0.40	519; LAG2; NKG5; LAG-2; D2S69E; TLA519;	3334 012402	, .
GNLY MATN2	0.49 0.489	lymphokine MATN2	NM_012483 NM_030583	granulysin matrilin 2
FLJ22746	0.488	FLJ22746	NM 024785	family with sequence similarity 124B
RGC32	0.487	RGC32; KIAA0564; MGC87338; bA157L14.2	NM 014059	response gene to complement 32
HPCAL1	0.487	BDR1; HLP2; VILIP-3	NM_002149	hippocalcin-like 1
Sep-03	0.486	SEP3; MGC133218; bK250D10.3	NM_019106	septin 3
				UDP-N-acetyl-alpha-D-
				galactosamine:polypeptide N- acetylgalactosaminyltransferase 5 (GalNAc-
GALNT5	0.486	GALNAC-T5	NM 014568	T5)
SLC15A3	0.485	OCTP; PHT2; PTR3; hPTR3; FLJ26631	NM 016582	solute carrier family 15, member 3
				ankyrin repeat and BTB (POZ) domain
ABTB1	0.485	BPOZ; EF1ABP; PP2259; MGC20585	NM_172027	containing 1
SP110	0.485	VODI; IFI41; IFI75; FLJ22835	NM_004510	SP110 nuclear body protein
C7ORF10	0.485	ORF19; DERP13; FLJ11808	NM_024728	chromosome 7 open reading frame 10
MCOLN2	0.484	TRPML2; FLJ36691	NM_153259	mucolipin 2
TMEM30A	0.484	CDC50A; C6orf67; FLJ10856 C2PA; RGP3; FLJ20370; FLJ31516; FLJ90496;	NM_018247	transmembrane protein 30A
RGS3	0.483	PDZ-RGS3	NM 144489	regulator of G-protein signalling 3
				family with sequence similarity 19
FAM19A3	0.482	TAFA3; TAFA-3; MGC138473; RP11-426L16.6	NM_182759	(chemokine (C-C motif)-like), member A3
NTNG1	0.481	Lmnt1; KIAA0976	NM_014917	netrin G1
GH2GH2	0.40	CNSA3; EEN-B2; SH3D2C; SH3P13; HsT19371;	NIN 6 002027	GHA 1 : GDDA III A
SH3GL3	0.48	EEN-2B-L3	NM_003027	SH3-domain GRB2-like 3 epidermal growth factor receptor
				(erythroblastic leukemia viral (v-erb-b)
EGFR	0.479	ERBB; mENA; ERBB1	NM 005228	oncogene homolog, avian)
				MADS box transcription enhancer factor 2,
MEF2D	0.479	DKFZp686I1536	NM_005920	polypeptide D (myocyte enhancer factor 2D)
FNDC6	0.479	MGC34923	NM_144717	fibronectin type III domain containing 6
CELSR2	0.479	EGFL2; MEGF3; CDHF10; FLJ34118; FLJ42737; FLJ45143; KIAA0279; Flamingo1	NM 001408	cadherin, EGF LAG seven-pass G-type receptor 2 (flamingo homolog, Drosophila)
BPGM	0.479	BPGM	NM 001724	2,3-bisphosphoglycerate mutase
DI 0	0.170	Di Oni	1001/21	neural proliferation, differentiation and
NPDC1	0.477	CAB; CAB-; CAB1; CAB-1; DKFZP586J0523	NM_015392	control, 1
SIPA1	0.474	SPA1; MGC17037; MGC102688	NM_153253	signal-induced proliferation-associated gene 1
				pleckstrin homology-like domain, family A,
PHLDA3	0.474	TIH1 HT008; TMEM96; KIAA1738; DKFZp781G0721	NM_012396 NM_018469	member 3
TEX2	0.474	H1008, 1MEM90, KIAA1/38, DKFZp/8100/21	NWI_018409	testis expressed sequence 2 lectin, galactoside-binding, soluble, 3 (galectin
LGALS3	0.473	GAL3; MAC2; CBP35; GALBP; LGALS2	NM 002306	3)
PLCL2	0.473	PLCE2; FLJ13484; KIAA1092	NM 015184	phospholipase C-like 2
ARL4	0.473	ARL4	NM 005738	ADP-ribosylation factor-like 4A
		csl; CBF1; KBF2; RBP-J; RBPJK; IGKJRB;		recombining binding protein suppressor of
RBPSUH	0.472	IGKJRB1; MGC61669	NM_005349	hairless (Drosophila)
NMNAT2	0.472	PNAT2; PNAT-2; C1orf15; MGC2756; KIAA0479	NM_015039	nicotinamide nucleotide adenylyltransferase 2
ACSM3	0.469	SA; SAH	NM_202000	acyl-CoA synthetase medium-chain family member 3
11001113	0.407	0.1, 0.11	14141_202000	caspase recruitment domain family, member
CARD11	0.469	BIMP3; CARMA1; MGC133069	NM_032415	11
			_	ELAV (embryonic lethal, abnormal vision,
ELAVL2	0.468	HUB; HELN1; HEL-N1	NM_004432	Drosophila)-like 2 (Hu antigen B)
TCEAL7	0.468	MGC23947; MPMGp800C04260Q003	NM_152278	transcription elongation factor A (SII)-like 7
DEPDC6	0.466	DEP.6; FLJ12428; FLJ13854; DKFZp564B1778 PHS; ACLS; GCPS; PAPA; PAPB; PAP-A; PAPA1;	NM_022783	DEP domain containing 6
GLI3	0.465	PHS; ACLS; GCPS; PAPA; PAPB; PAP-A; PAPA1; PPDIV	NM 000168	GLI-Kruppel family member GLI3 (Greig cephalopolysyndactyly syndrome)
32.3	0.703	RUFY3; ZFYVE7; FLJ13335; MGC126517;	1000100	
FYCO1	0.464	MGC126519	NM_024513	FYVE and coiled-coil domain containing 1
C14ORF138	0.464	FLJ13920	NM_024558	chromosome 14 open reading frame 138
EVC	0.463		NM_014556	
BTN3A2	0.463	BTF4; BT3.2; BT3.3	NM_007047	butyrophilin, subfamily 3, member A2
AMDU	0.463	AMPH1	NM 001625	amphiphysin (Stiff-Man syndrome with breast
AMPH SCARA3	0.463	CSR; APC7; CSR1; MSLR1; MSRL1	NM_001635 NM_016240	cancer 128kDa autoantigen) scavenger receptor class A, member 3
GLI2	0.463	THP2	NM 005270	GLI-Kruppel family member GLI2
DKFZP586H2123	0.461	DKFZP586H2123; RAMP; FP938	NM 001001991	regeneration associated muscle protease
TSPAN33	0.461	PEN; MGC50844	NM_178562	tetraspanin 33
COL6A3	0.461	FLJ34702; DKFZp686D23123; DKFZp686K04147	NM_057164	collagen, type VI, alpha 3
A CIVIDA A		HHT; ALK1; HHT2; ORW2; SKR3; ALK-1;	ND 4 000007	
ACVRL1	0.461	ACVRLK1	NM_000020	activin A receptor type II-like 1
PSG2	0.461	CEA; PSG1; PSBG2; PSGGB	NM_031246	pregnancy specific beta-1-glycoprotein 2 DIM1 dimethyladenosine transferase 1-like
HSA9761	0.46	DIMT1; HSA9761	NM 014473	(S. cerevisiae)
-10.17,01	3.40		101.1475	UDP-N-acetyl-alpha-D-
]	galactosamine:polypeptide N-
GALNTL2	0.46	GALNT7; GALNT13; GALNT15; DKFZp686H1113	NM_054110	acetylgalactosaminyltransferase-like 2
HIST1H2AC	0.459	H2A/I; H2AFL; MGC99519; dJ221C16.4	NM_003512	histone 1, H2ac
ERAF	0.459	AHSP; EDRF	NM_016633	erythroid associated factor
PGBD5 HSPB6	0.459 0.459	FLJ11413; DKFZp761A0620 Hsp20; FLJ32389	NM_024554 NM_144617	piggyBac transposable element derived 5 heat shock protein, alpha-crystallin-related,
1101 DO	0.437	110920, 11002001	14141_17401/	near snock protein, aipila-crystallin-related,

	1	1	ı	B6
		H2B; GL105; H2B.1; H2B/q; H2BFQ; MGC129733;		
HIST2H2BE	0.458	MGC129734	NM_003528	histone 2, H2be
SDSL	0.458	SDS-RS1	NM_138432	serine dehydratase-like
C5ORF21	0.457	DKFZP564D172	NM_032042	chromosome 5 open reading frame 21
NCALD	0.457	MGC33870; MGC74858	NM_032041	neurocalcin delta
INPP1	0.456	MGC110984	NM_002194	inositol polyphosphate-1-phosphatase
WIG1	0.455	WIG1; WIG-1; PAG608; FLJ12296; MGC10613	NM 152240	zinc finger, matrin type 3
			_	leucine-rich repeats and calponin homology
LRCH2	0.455	KIAA1495; dA204F4.4	NM 020871	(CH) domain containing 2
BDNF	0.455	MGC34632	NM 001709	brain-derived neurotrophic factor
PRSS23	0.455	SIG13; SPUVE; ZSIG13; MGC5107	NM 007173	protease, serine, 23
APOD	0.454	APOD	NM 001647	apolipoprotein D
PBX1	0.454	MGC126627; DKFZp686B09108	NM 002585	pre-B-cell leukemia transcription factor 1
	0.452	HAS3	NM 002048	growth arrest-specific 1
GAS1				
CLIPR-59	0.452	CLIPR-59; CLIPR59; FLJ33413; DKFZp586N1922	NM_015526	CLIP-170-related protein
SLC16A10	0.451	TAT1; PRO0813	NM_018593	solute carrier family 16, member 10 (aromatic amino acid transporter)
SLC25A12	0.45	ARALAR; ARALAR1	NM_003705	solute carrier family 25 (mitochondrial carrier, Aralar), member 12
OBFC2A	0.45		NM_022837	latent transforming growth factor beta binding
LTBP2	0.45	LTBP3; MSTP031; C14orf141	NM 000428	protein 2
C9ORF127	0.45	NGX6; NAG-5; MGC120460; RP11-112J3.10	NM 016446	chromosome 9 open reading frame 127
PRG1	0.45	PPG; PRG; MGC9289; FLJ12930; SERGLYCIN	NM 002727	proteoglycan 1, secretory granule
SPG3A	0.45	ATL1; FSP1; GBP3; SPG3; AD-FSP; atlastin1	NM_002/2/ NM_181598	spastic paraplegia 3A (autosomal dominant)
		FRA1: fra-1		
FOSL1	0.449		NM_005438	FOS-like antigen 1
171.177		hK6; Bssp; Klk7; SP59; ZYME; PRSS9; PRSS18;	NA 6 00277	1.117
KLK6	0.449	MGC9355; NEUROSIN	NM_002774	kallikrein 6 (neurosin, zyme)
RAB13	0.448	GIG4	NM_002870	RAB13, member RAS oncogene family
FADS3	0.447	CYB5RP; LLCDL3	NM_021727	fatty acid desaturase 3
C1ORF94	0.446	MGC15882	NM_032884	chromosome 1 open reading frame 94
				SHC (Src homology 2 domain containing)
SHC3	0.446	NSHC; SHCC; N-Shc	NM_016848	transforming protein 3
GRIA3	0.445	GLUR3; GLURC; gluR-C; GLUR-K3	NM_181894	glutamate receptor, ionotrophic, AMPA 3
CAPN5	0.445	HTRA3; nCL-3; FLJ46245	NM_004055	calpain 5
		gfg; bFGF; FGF-2; gfg-1; ASFGF2; FGF-AS;	_	nudix (nucleoside diphosphate linked moiety
NUDT6	0.445	FGF2AS	NM 007083	X)-type motif 6
LACTB2	0.444	CGI-83	NM 016027	lactamase, beta 2
ALOX5	0.444	5-LO; 5LPG; LOG5	NM 000698	arachidonate 5-lipoxygenase
HEORE	0.777	GS1; MYO5; MYH12; MYR12; MYOXIN; myosin	14141_0000070	aracindonate 5 npoxygenase
MYO5A	0.444	V; myosin Va	NM 000259	myosin VA (heavy polypeptide 12, myoxin)
NRIP3	0.443	C11orf14; NY-SAR-105	NM 020645	nuclear receptor interacting protein 3
. 11(11)	0.443	HHL; EVI5; TBC1D18; RP1-102G20.1;	1111_020043	nation receptor interacting protein 3
RABGAP1L	0.443	DKFZp686E1450	NM_014857	RAB GTPase activating protein 1-like
				leucine rich repeat and fibronectin type III
LRFN5	0.443	FLJ30803; C14orf146; DKFZp686G0210	NM_152447	domain containing 5
FLJ21986	0.441	FLJ21986; FLJ26813	NM_024913	hypothetical protein FLJ21986
KISS1R	0.441	GPR54; AXOR12; HOT7T175	NM_032551	KISS1 receptor
PHLDA1	0.439	PHRIP; TDAG51; DT1P1B11; MGC131738	NM 007350	pleckstrin homology-like domain, family A, member 1
		, , , , , , , , , , , , , , , , , , , ,		ubiquitin-conjugating enzyme E2E 2 (UBC4/5
UBE2E2	0.439	UBCH8; FLJ25157	NM_152653	homolog, yeast)
NPAL3	0.437	DJ462O23.2; RP3-462O23.3; DKFZp686E22155	NM 020448	NIPA-like domain containing 3
C6ORF192	0.436	dJ55C23.6	NM 052831	chromosome 6 open reading frame 192
		RY; APG-2; hsp70; hsp70RY; HS24/P52;		
HSPA4	0.434	MGC131852	NM 002154	heat shock 70kDa protein 4
RECOL	0.434	RecQ1; RECQL1	NM 002907	RecQ protein-like (DNA helicase Q1-like)
KECQL	0.434	PAPA; DIPLA1; PAPP-A; PAPPA1; ASBABP2;	NWI_002907	pregnancy-associated plasma protein A,
DADDA	0.424		NIM 002501	
PAPPA	0.434	IGFBP-4ase	NM_002581	pappalysin 1
SV2A	0.433	SV2; KIAA0736	NM_014849	synaptic vesicle glycoprotein 2A
TEC 12		DD CDL CD40D VV A 2 VV A 3	ND 6 000000	integrin, alpha 2 (CD49B, alpha 2 subunit of
ITGA2	0.432	BR; GPIa; CD49B; VLA-2; VLAA2	NM_002203	VLA-2 receptor)
KIAA1913	0.432	TTMC	NM_052913	KIAA1913
COPZ2	0.432	COPZ2	NM_016429	coatomer protein complex, subunit zeta 2
GLS2	0.431	GA; GLS; LGA; hLGA; MGC71567	NM_013267	glutaminase 2 (liver, mitochondrial)
AFP	0.431	FETA; HPAFP	NM_001134	alpha-fetoprotein
MGC17330	0.431	MGC17330; HGFL; hHGFL(S)	NM_052880	HGFL gene
GOLPH4	0.43	P138; GIMPC; GPP130	NM 014498	golgi phosphoprotein 4
GPR137B	0.428	TM7SF1	NM 003272	G protein-coupled receptor 137B
CAST	0.428	BS-17; MGC9402	NM 001750	calpastatin
HYAL1	0.428	NAT6; LUCA1; HYAL-1; MGC45987	NM 153281	hyaluronoglucosaminidase 1
ARHGDIB	0.427	D4; GDIA2; GDID4; LYGDI; Ly-GDI; RAP1GN1	NM 001175	Rho GDP dissociation inhibitor (GDI) beta
MINIODID	0.427	סיי, סטומב, סטוטיי, בדסטו, Ly-GDI, KAFTGNI	11111_0011/3	caspase 1, apoptosis-related cysteine peptidase
CASP1	0.426	ICE: PA5: IL 1BC	NM 033294	(interleukin 1, beta, convertase)
CASP1		ICE; P45; IL1BC STS-1; p70; KIAA1959; MGC15437		
STS-1	0.426	515-1, p/0, NIAA1939; MGC1343/	NM_032873	Cbl-interacting protein Sts-1
I DDD2	0.405	LDDD2, DDC 4, FLH2055, DVFZ, SCIE1121	NIM 022727	lipid phosphate phosphatase-related protein
LPPR2	0.425	LPPR2; PRG-4; FLJ13055; DKFZp761E1121	NM_022737	type 2
NIN	0.425	KIAA1565	NM_020921	ninein (GSK3B interacting protein)
rranga.	_	******		potassium voltage-gated channel, delayed-
KCNS3	0.425	KV9.3; MGC9481	NM_002252	rectifier, subfamily S, member 3
UGCG	0.424	GCS	NM_003358	UDP-glucose ceramide glucosyltransferase
OSBPL10	0.424	ORP10; OSBP9; FLJ20363	NM_017784	oxysterol binding protein-like 10
CCND3	0.423	CCND3	NM_001760	cyclin D3
			_	KDEL (Lys-Asp-Glu-Leu) endoplasmic
KDELR3	0.423	ERD2L3	NM 016657	reticulum protein retention receptor 3
	J.723	p75; TBPII; TNFBR; TNFR2; CD120b; TNFR80;		tumor necrosis factor receptor superfamily,
TNFRSF1B	0.422	TNF-R75; p75TNFR; TNF-R-II	NM 001066	member 1B
.1111001110	0.422	10, promit 1, 114-1-11	1111_001000	protein phosphatase 1, regulatory (inhibitor)
DDD1D2C	0.422	DDD1D5	NM 005200	
PPP1R3C	0.422	PPP1R5	NM_005398	subunit 3C
ACOX2	0.421	BCOX; BRCOX; THCCox; BRCACOX	NM_003500	acyl-Coenzyme A oxidase 2, branched chain
OT CITCE		AHDO MOTE MOTE TROTE PERSON	ATA 6 000000	solute carrier family 16, member 2
SLC16A2	0.421	AHDS; MCT7; MCT8; XPCT; DXS128; DXS128E	NM_006517	(monocarboxylic acid transporter 8)
	1	MASP; RaRF; CRARF; PRSS5; CRARF1;	1	mannan-binding lectin serine peptidase 1
		L ET TACAGA LEGGIACAGA LEGGIACAGA	L NIM 001021040	(CA/C2 - titi control of P - continu
MASP1	0.419	FLJ26383; MGC126283; MGC126284;	NM_001031849	(C4/C2 activating component of Ra-reactive

		DKFZp686I01199	1	factor)
T + D2	0.410	ANTO ROPE A POLIC A PORTO PRIVATA DAGRAGE	NR 000544	transporter 2, ATP-binding cassette, sub-
TAP2	0.418 0.417	APT2; PSF2; ABC18; ABCB3; RING11; D6S217E	NM_000544 NM_015714	family B (MDR/TAP) G0/G1switch 2
G0S2 TBC1D23	0.417	RP1-28O10.2 NS4ATP1; FLJ11046; DKFZp667G062	NM_015/14 NM_018309	TBC1 domain family, member 23
16C1D23	0.41/	solute carrier family		1 BC 1 dolinain faililly, member 23
SLC30A3	0.417	ZNT3 NM 003459 member 3	50 (zine transporter),	
FCRLM2	0.416	FcRY; FCRL2; FCRLY; FREB-2; RP11-474I16.6	NM 001002901	Fc receptor-like and mucin-like 2
SDC1	0.415	SDC; CD138; SYND1	NM 002997	syndecan 1
				damage-specific DNA binding protein 2,
DDB2	0.415	DDB2	NM_000107	48kDa
DIRAS3	0.414	ARHI; NOEY2	NM_004675	DIRAS family, GTP-binding RAS-like 3
SLIT3	0.413	MEGF5; SLIL2; SLIT1; slit2; Slit-3; FLJ10764	NM_003062	slit homolog 3 (Drosophila)
GLS	0.413	GLS1; FLJ10358; KIAA0838; DKFZp686O15119	NM_014905	glutaminase
ISG20	0.412	CD25; HEM45	NM_002201	interferon stimulated exonuclease gene 20kDa
FOLR3	0.41	FR-G; FR-gamma; gamma-hFR FLJ90022	NM_000804	folate receptor 3 (gamma)
FAM43A CREB5	0.41	CRE-BPA	NM_153690 NM_182898	family with sequence similarity 43, member A cAMP responsive element binding protein 5
CKEDS	0.407	ISH; JHF; CMG2; CMG-2; FLJ31074; MGC45856;	NIVI_102090	CAMP responsive element binding protein 3
ANTXR2	0.407	MGC111533	NM 058172	anthrax toxin receptor 2
EXO1	0.406	HEX1; hExoI	NM 003686	exonuclease 1
		NRP; CD304; VEGF165R; DKFZp781F1414;		
NRP1	0.406	DKFZp686A03134	NM_003873	neuropilin 1
IRX2	0.406	MARK2	NM_033267	iroquois homeobox protein 2
				guanine nucleotide binding protein (G
GNG12	0.405	FLJ31352; FLJ34695	NM_018841	protein), gamma 12
		OC58; MEG-3; FLJ13518; FLJ22151; FLJ22298;		
C9ORF88	0.405	bA356B19.6; DKFZP434H0820; RP11-356B19.6	NM_022833	chromosome 9 open reading frame 88
MNIIV	0.404	KRP; MLCK; MLCK108; MLCK210; MSTP083;	NIM DOZOCE	manager tight a change of 1, 12
MYLK	0.404	FLJ12216; DKFZp686I10125	NM_005965	myosin, light polypeptide kinase
CDCP1	0.402	CD318; TRASK; SIMA135	NM_022842	CUB domain containing protein 1
PEA15	0.402	PED; MAT1; HMAT1; MAT1H; PEA-15; HUMMAT1H	NM 003768	phosphoprotein enriched in astrocytes 15
C6ORF32	0.402	PL48; DIFF40; DIFF48; FAM65B; KIAA0386	NM 015864	chromosome 6 open reading frame 32
COOKI J2	0.4	AAT3; FAA3; MFS2; RIIC; TAAD2; HNPCC6;	1111 013004	transforming growth factor, beta receptor II
TGFBR2	0.399	TGFR-2; TGFbeta-RII	NM 001024847	(70/80kDa)
RPS26	0.399	MGC104292	NM 001029	ribosomal protein S26
CTHRC1	0.399	GIMAP5	NM 138455	collagen triple helix repeat containing 1
			_	prenyl (decaprenyl) diphosphate synthase,
PDSS2	0.399	hDLP1; C6orf210; bA59I9.3	NM_020381	subunit 2
		MASP; RaRF; CRARF; PRSS5; CRARF1;		mannan-binding lectin serine peptidase 1
		FLJ26383; MGC126283; MGC126284;		(C4/C2 activating component of Ra-reactive
MASP1	0.397	DKFZp686I01199	NM_001031849	factor)
NID2	0.397	NID2	NM_007361	nidogen 2 (osteonidogen)
IRXL1	0.396	IFRX; IRXL1; C10orf48; MGC39616 NK4; TAIF; TAIFa; TAIFb; TAIFc; TAIFd; IL-	NM_173576	mohawk homeobox
IL32	0.396	32beta; IL-32alpha; IL-32delta; IL-32gamma	NM 001012632	interleukin 32
C21ORF7	0.396	TAK1L	NM 020152	chromosome 21 open reading frame 7
C210IG /	0.570	TARTE	1414_020132	integrin, beta 1 (fibronectin receptor, beta
				polypeptide, antigen CD29 includes MDF2,
ITGB1	0.394	CD29; FNRB; MDF2; VLAB; GPIIA; MSK12	NM_133376	MSK12)
				cysteine conjugate-beta lyase; cytoplasmic
				(glutamine transaminase K, kyneurenine
CCBL1	0.393	GTK; KATI; MGC29624	NM_004059	aminotransferase)
TNFRSF19	0.392	TAIL TROY, TRADE, TAIL-1-1-	NIM 140057	tumor necrosis factor receptor superfamily, member 19
ART5	0.392	TAJ; TROY; TRADE; TAJ-alpha MGC22848	NM_148957 NM_053017	ADP-ribosyltransferase 5
TBC1D4	0.39	AS160; DKFZp779C0666	NM 014832	TBC1 domain family, member 4
тветьч	0.57	115100, BRI 25117C0000	1414_014032	Ca2+-dependent activator protein for secretion
CADPS2	0.389	FLJ40851; KIAA1591	NM_017954	2
LAYN	0.389	FLJ30977; FLJ31092	NM 178834	layilin
				mitogen-activated protein kinase kinase kinase
MAP3K5	0.389	ASK1; MEKK5; MAPKKK5	NM_005923	5
SNCAIP	0.388	SYPH1; MGC39814	NM_005460	synuclein, alpha interacting protein (synphilin)
LRRC33	0.388	GARPL1; UNQ3030; MGC50789	NM_198565	leucine rich repeat containing 33
				interleukin 12A (natural killer cell stimulatory
II 12A	0.387	CLMF; NFSK; NKSF1; IL-12A	NM 000882	factor 1, cytotoxic lymphocyte maturation
IL12A PSG6	0.387	PSG10	NM_000882 NM_001031850	factor 1, p35) pregnancy specific beta-1-glycoprotein 6
1000	0.567	10010	1111 001031830	v-maf musculoaponeurotic fibrosarcoma
MAFF	0.386	U-MAF	NM 012323	oncogene homolog F (avian)
CPT1A	0.384	CPT1; CPT1-L; L-CPT1	NM 001876	carnitine palmitoyltransferase 1A (liver)
		IL33; DVS27; NF-HEV; NFEHEV;		chromosome 9 open reading frame 26 (NF-
C9ORF26	0.384	DKFZp586H0523; RP11-575C20.2	NM_033439	HEV)
DKFZP564O0823	0.384	DKFZP564O0823	NM_015393	DKFZP564O0823 protein
S100A3	0.383	S100E	NM_002960	S100 calcium binding protein A3
	l		l	N-acylsphingosine amidohydrolase (acid
ASAHL	0.383	PLT; NAAA	NM_014435	ceramidase)-like
ACTN3	0.382	MGC117002; MGC117005	NM_001104	actinin, alpha 3
AKR1C2	0.381	DD3; HAKRB; HAKRe; HA1753; HSD17B5; hluPGFS; KIAA0119	NM 003739	aldo-keto reductase family 1, member C3 (3-
AKR1C3 SHRM	0.381	SHRM; APXL3; ShrmL; MSTP013; KIAA1481	NM_003739 NM_020859	alpha hydroxysteroid dehydrogenase, type II) shroom family member 3
JIIIIII	0.301	HELG; RAY1; SEN4; TSG7; ETS7q; FAM4A1;	11111_020037	S. Som mining memoer 3
ST7	0.381	DKFZp762O2113	NM 021908	suppression of tumorigenicity 7
MAP1A	0.38	MAPIL; MTAPIA	NM 002373	microtubule-associated protein 1A
ENG	0.38	END; ORW; HHT1; ORW1; CD105; FLJ41744	NM 000118	endoglin (Osler-Rendu-Weber syndrome 1)
CYBRD1	0.378	DCYTB; FRRS3; FLJ23462	NM_024843	cytochrome b reductase 1
HPS3	0.377	SUTAL; FLJ22704; DKFZp686F0413	NM_032383	Hermansky-Pudlak syndrome 3
SCHIP1	0.377	SCHIP-1; FLJ39160	NM_014575	schwannomin interacting protein 1
MATAD	0.376	TGR; MAT-II; MGC12237; MATIIbeta; Nbla02999	NM_182796	methionine adenosyltransferase II, beta
MAT2B	0.056	APPS; CPSB	NM 001908	cathepsin B
CTSB	0.376			
	0.376	CD87; UPAR; URKR	NM_001005376	plasminogen activator, urokinase receptor
CTSB PLAUR	0.376	CD87; UPAR; URKR	NM_001005376	ATP synthase, H+ transporting, mitochondrial
CTSB		CD87; UPAR; URKR RNASE1		
CTSB PLAUR	0.376	CD87; UPAR; URKR	NM_001005376	ATP synthase, H+ transporting, mitochondrial

DCC10	0.274	CMT2B1; LGMD1B RGS10	NIM 001005220	monulator of C martin airm II. 10
RGS10 COL12A1	0.374	RGS10 COL12A1L; BA209D8.1; DJ234P15.1	NM_001005339 NM_080645	regulator of G-protein signalling 10 collagen, type XII, alpha 1
COLIZAT	0.574	R16; AAAT; ATBO; M7V1; RDRC; ASCT2;	NW_080043	solute carrier family 1 (neutral amino acid
SLC1A5	0.374	M7VS1; FLJ31068	NM_005628	transporter), member 5
		FPL; IDC; LFP; CDDC; EMD2; FPLD; HGPS;		
LMNA	0.374	LDP1; LMN1; LMNC; PRO1; CDCD1; CMD1A; CMT2B1; LGMD1B	NM 005572	lamin A/C
LWINA	0.574	p53R2; MGC42116; MGC102856;	NW_003372	ribonucleotide reductase M2 B (TP53
RRM2B	0.373	DKFZp686M05248	NM_015713	inducible)
DI/DI 2	0.272	PPR3; PRR3; PVRR3; CDw113; FLJ90624; nectin-	ND 6 015400	F : 1 . 12
PVRL3	0.373	3; DKFZP566B0846	NM_015480	poliovirus receptor-related 3 acyl-CoA synthetase long-chain family
ACSL4	0.371	ACS4; FACL4; LACS4; MRX63; MRX68	NM 004458	member 4
		, , , ,	_	prostaglandin-endoperoxide synthase 1
PTCCI	0.271	COX1; COX3; PHS1; PCOX1; PGHS1; PTGHS;	ND 6 000062	(prostaglandin G/H synthase and
PTGS1 FLJ43339	0.371	PGG/HS; PGHS-1 FLJ43339; DKFZp686N1468	NM_000962 NM_207380	cyclooxygenase) FLJ43339 protein
1 1343337	0.57	HER3; ErbB-3; c-erbB3; erbB3-S; MDA-BF-1;	1414_207500	1 ESTSSS PROTEIN
		MGC88033; c-erbB-3; p180-ErbB3; p45-sErbB3;		v-erb-b2 erythroblastic leukemia viral
ERBB3	0.37	p85-sErbB3	NM_001982	oncogene homolog 3 (avian)
TACC1	0.37	Ga55; KIAA1103; DKFZp686K18126	NM 006283	transforming, acidic coiled-coil containing protein 1
SELM	0.37	SELM; SEPM; MGC40146	NM 080430	selenoprotein M
CDH11	0.37	OB; CAD11; CDHOB; OSF-4	NM_001797	cadherin 11, type 2, OB-cadherin (osteoblast)
A DAUTO	0.260	1714 4 0307	ND 6 014062	aryl-hydrocarbon receptor nuclear translocator
ARNT2 KIAA0773	0.369	KIAA0307 KIAA0773	NM_014862 NM_014690	KIAA0773 gene product
	0.500	VRHO; RHBDL4; FLJ45582; MGC119300;	7111_014070	22. 210775 gene product
RHBDL3	0.368	MGC119301	NM_138328	rhomboid, veinlet-like 3 (Drosophila)
SOCS1	0.367	JAB; CIS1; SSI1; TIP3; CISH1; SSI-1; SOCS-1	NM_003745	suppressor of cytokine signaling 1
LHFP	0.366	MGC22429	NM_005780	lipoma HMGIC fusion partner wingless-type MMTV integration site family,
WNT5B	0.366	MGC2648	NM 032642	member 5B
CBX6	0.366	ALDOA	NM_014292	chromobox homolog 6
ZNF483	0.366	ZNF483	NM_001007169	zinc finger protein 483
		PIG7; CMT1C; SIMPLE; TP5317; FLJ38636;		
LITAF	0.365	MGC116698; MGC116700; MGC116701; MGC125274; MGC125275; MGC125276	NM 004862	lipopolysaccharide-induced TNF factor
				protein phosphatase 1E (PP2C domain
PPM1E	0.364	POPX1; PP2CH; KIAA1072; DKFZp781F1422	NM_014906	containing)
CD68 IL15	0.364	GP110; SCARD1; DKFZp686M18236 IL-15; MGC9721	NM_001251	CD68 molecule interleukin 15
IL15	0.363	DBI; IBP; MBR; PBR; BZRP; PKBS; PTBR;	NM_172174	interieukin 15
BZRP	0.363	mDRC; pk18	NM_000714	translocator protein (18kDa)
		•		nuclear factor I/X (CCAAT-binding
NFIX	0.362	NF1A	NM_002501	transcription factor)
DDR2 SYT13	0.362 0.362	TKT; NTRKR3; TYRO10 KIAA1427	NM_006182 NM_020826	discoidin domain receptor family, member 2 synaptotagmin XIII
HCP5	0.362	P5-1; D6S2650E	NM 006674	HLA complex P5
RRAGD	0.361	RAGD; bA11D8.2.1; DKFZP761H171	NM_021244	Ras-related GTP binding D
CV/TLO	0.261	SLP2; SGA72M; CHR11SYT; KIAA1597;	NA 200020	
SYTL2 DOCK2	0.361	MGC102768 KIAA0209	NM_206930 NM_004946	synaptotagmin-like 2 dedicator of cytokinesis 2
DOCKZ	0.301	SMG; SMGA; SAMD4; Smaug; Smaug1;	NWI_004940	dedicator or cytokinesis 2
SAMD4A	0.361	KIAA1053; DKFZp434H0350	NM_015589	sterile alpha motif domain containing 4A
MGC20983	0.36	MGC20983; FLJ31801	NM_145045	hypothetical protein MGC20983
C18ORF17 CXCL16	0.36	HsT2697; FLJ33761 SRPSOX; CXCLG16; SR-PSOX	NM_153211 NM_022059	chromosome 18 open reading frame 17 chemokine (C-X-C motif) ligand 16
CACLIO	0.557	SKI 30A, CACEGIO, SK-130A	TVIVI_022037	KDEL (Lys-Asp-Glu-Leu) endoplasmic
KDELR3	0.359	ERD2L3	NM_016657	reticulum protein retention receptor 3
GI G1 4 2	0.256	EAC EAATI CLAST CLASTI ELISSON	NN 6 00 41 72	solute carrier family 1 (glial high affinity
SLC1A3	0.356	EA6; EAAT1; GLAST; GLAST1; FLJ25094 CD18; TNFCR; D12S370; TNFR-RP; TNFRSF3;	NM_004172	glutamate transporter), member 3 lymphotoxin beta receptor (TNFR
LTBR	0.356	TNFR2-RP; LT-BETA-R; TNF-R-III	NM 002342	superfamily, member 3)
		VL3A; CD49C; GAPB3; MSK18; VCA-2; VLA3a;		integrin, alpha 3 (antigen CD49C, alpha 3
ITGA3	0.356	GAP-B3; FLJ34631	NM_002204	subunit of VLA-3 receptor)
OPN3	0.355	ECPN	NM_001030012	opsin 3 (encephalopsin, panopsin) internexin neuronal intermediate filament
INA	0.355	NEF5; NF-66; TXBP-1; MGC12702	NM 032727	protein, alpha
TUBA1	0.354	FLJ30169; H2-ALPHA	NM_006000	tubulin, alpha 1
TSRC1	0.354	TSRC1	NM_025008	ADAMTS-like 4
LCE2C	0.354	LEP11 FLJ10751; FLJ10844	NM_178429 NM_207110	late cornified envelope 2C
LRRC20	0.354	FEJ10/31, FEJ10844	NM_207119	leucine rich repeat containing 20 peptidylglycine alpha-amidating
PAM	0.353	PAL; PHM	NM_138821	monooxygenase
	_	TVD 10 10 10 10 10 10 10 10 10 10 10 10 10		ATPase, Na+/K+ transporting, alpha 2 (+)
ATP1A2	0.352 0.351	FHM2; MHP2; MGC59864 C14orf59	NM_000702 NM_174976	polypeptide zinc finger, DHHC-type containing 22
ZDHHC22 HEBP1	0.351	HBP; HEBP	NM_1/49/6 NM_015987	heme binding protein 1
HCLS1	0.35	HS1	NM_005335	hematopoietic cell-specific Lyn substrate 1
TBX2	0.349	FLJ10169	NM_005994	T-box 2
CHGB	0.349	SCG1	NM_001819	chromogranin B (secretogranin 1)
RGS20 DHDH	0.348	RGSZ1; ZGAP1 HUM2DD	NM_170587 NM_014475	regulator of G-protein signalling 20 dihydrodiol dehydrogenase (dimeric)
PHPH	0.340	TO MEDIO	1111_0177/3	potassium channel tetramerisation domain
KCTD12	0.348	PFET1; C13orf2; KIAA1778	NM_138444	containing 12
BNC2	0.348	BSN2; FLJ20043; FLJ34928; DKFZp686A01127	NM_017637	basonuclin 2
CLEC11A GRIA3	0.348 0.347	P47; SCGF; LSLCL; CLECSF3 GLUB3: GLUBC: cluB-C: GLUB-K3	NM_002975 NM_181894	C-type lectin domain family 11, member A glutamate receptor, ionotrophic, AMPA 3
MRGPRF	0.347	GLUR3; GLURC; gluR-C; GLUR-K3 RTA; mrgF; GPR140; GPR168; MGC21621	NM_181894 NM_145015	MAS-related GPR, member F
GAP43	0.343	B-50; PP46	NM_002045	growth associated protein 43
				EGF-like repeats and discoidin I-like domains
EDIL3	0.343	DEL1; MGC26287	NM_005711	3 ECE containing fibrilin like outgoodbyles
EFEMP1	0.343	DHRD; DRAD; FBNL; MLVT; MTLV; S1-5; FBLN3; FLJ35535; MGC111353	NM 004105	EGF-containing fibulin-like extracellular matrix protein 1
	,			C. C. B. C.C.

ST6GALNAC4 ADORA2A	0.342 0.341	SIAT3C; SIAT7D; ST6GALNACIV RDC8; hA2aR; ADORA2	NM_175040 NM_000675	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta- galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4 adenosine A2a receptor
LAMC2	0.34	B2T; EBR2; BM600; EBR2A; LAMB2T; LAMNB2; MGC138491; MGC141938	NM 005562	laminin, gamma 2
LAWICZ	0.34	WGC136491, WGC141936	NW_003302	pleckstrin homology-like domain, family A,
PHLDA2	0.34	IPL; BRW1C; BWR1C; HLDA2; TSSC3	NM_003311	member 2
LOXL4	0.34	LOXC; FLJ21889	NM_032211	lysyl oxidase-like 4
MYBPH	0.34	MYBPH	NM_004997	myosin binding protein H
BNC1	0.338	BNC; BSN1; HsT19447	NM_001717	basonuclin 1 phospholipase A2, group IVA (cytosolic,
PLA2G4A	0.337	PLA2G4; MGC126350; cPLA2-alpha	NM 024420	phospholipase A2, group IVA (cytosolic, calcium-dependent)
PTHB1	0.337	PTHB1; B1; D1; C18; BBS9; MGC118917	NM 001033604	parathyroid hormone-responsive B1
IGFBP7	0.337	PSF; FSTL2; MAC25; IGFBP-7; IGFBP-7v	NM 001553	insulin-like growth factor binding protein 7
DUSP1	0.337	HVH1; CL100; MKP-1; PTPN10	NM_004417	dual specificity phosphatase 1
ASB9	0.336	MGC4954; FLJ20636; DKFZp564L0862	NM_024087	ankyrin repeat and SOCS box-containing 9
GPR19	0.335	GPR19	NM_006143	G protein-coupled receptor 19
ZNF537	0.334	TSH3; ZNF537; KIAA1474	NM_020856	teashirt family zinc finger 3
DAZL	0.334	DAZH; DAZL1; DAZLA; SPGYLA; MGC26406	NM_001351	deleted in azoospermia-like potassium voltage-gated channel, delayed-
KCNS1	0.334	KV9.1	NM 002251	rectifier, subfamily S, member 1
TXNRD2	0.334	K 77.1	NM 145748	rectifier, subtaining 5, member 1
NPTX1	0.332	NP1; MGC105123; DKFZp686J2446	NM 002522	neuronal pentraxin I
		RAPA; TReP-132; HSA277276; dJ139D8.5; RP1-	_	•
TRERF1	0.331	139D8.5	NM_033501	transcriptional regulating factor 1
RPS4Y1	0.33	RPS4Y; MGC5070; MGC119100	NM_001008	ribosomal protein S4, Y-linked 1
ASMTL	0.33	ASTML; ASMTLX; ASMTLY	NM_004192	acetylserotonin O-methyltransferase-like
EEF2K	0.329	eEF-2K; HSU93850; MGC45041	NM_013302	eukaryotic elongation factor-2 kinase
KDELR3	0.329	ERD2L3	NM 006855	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3
KDELKJ	0.349	AAG6; PKCA; PRKACA; MGC129900;	14141_000833	renearum protein retention receptor 3
PRKCA	0.328	MGC129901; PKC-alpha	NM 002737	protein kinase C, alpha
MGC34830	0.327	MGC34830	NM_152314	chromosome 11 open reading frame 69
FILIP1	0.327	FILIP; KIAA1275	NM_015687	filamin A interacting protein 1
CYFIP2	0.326	PIR121	NM_014376	cytoplasmic FMR1 interacting protein 2
LOC205251	0.326		NM_174925	
Sep-03	0.325	SEP3; MGC133218; bK250D10.3	NM_019106	septin 3
		EJ16; EJ30; EL32; G344; MIN1; MIN2; MIN3;		l and a second
CD59	0.324	MIC11; MSK21; 16.3A5; p18-20; MGC2354; PROTECTIN	NM 203329	CD59 molecule, complement regulatory protein
HIST2H2AC	0.324	H2A; H2A/q; H2AFQ; MGC74460; H2A-GL101	NM 003517	histone 2, H2ac
DOCK10	0.324	ZIZ3; DRIP2; Nbla10300; DKFZp781A1532	NM 014689	dedicator of cytokinesis 10
ARRDC4	0.323	FLJ36045	NM 183376	arrestin domain containing 4
-				hepatocyte growth factor (hepapoietin A;
HGF	0.322	SF; HGFB; HPTA; F-TCF	NM_001010931	scatter factor)
CD47	0.322		NM_001025080	
TAPBP	0.322	TPN; TAPA; TPSN; NGS17	NM_003190	TAP binding protein (tapasin)
MSRB3	0.321	FLJ36866; DKFZp686C1178	NM_198080	methionine sulfoxide reductase B3
HIST1H1C	0.32	H1.2; H1F2; MGC3992	NM_005319	histone 1, H1c UDP glycosyltransferase 8 (UDP-galactose
UGT8	0.319	CGT	NM 003360	ceramide galactosyltransferase)
TSRC1	0.319	TSRC1	NM 025008	ADAMTS-like 4
SRPX2	0.318	SRPX; SRPUL	NM 014467	sushi-repeat-containing protein, X-linked 2
VAMP4	0.317	VAMP24	NM_003762	vesicle-associated membrane protein 4
CSEN	0.317	CSEN; DREAM; KCHIP3; MGC18289	NM_013434	Kv channel interacting protein 3, calsenilin
		R2; 4F9; C33; IA4; ST6; GR15; KAI1; SAR2;		
CD82	0.317	TSPAN27	NM_001024844	CD82 molecule
PLXDC2	0.315	TEM7R; FLJ14623 AMSH-FP; AMSH-LP; ALMalpha; FLJ31524;	NM_032812	plexin domain containing 2
STAMBPL1	0.314	KIAA1373; bA399019.2	NM_020799	STAM binding protein-like 1
ZDHHC14	0.314	NEW1CP; FLJ20984	NM 024630	zinc finger, DHHC-type containing 14
FLJ11259	0.313	DRAM; FLJ11259	NM 018370	damage-regulated autophagy modulator
GLT8D2	0.313	FLJ31494	NM_031302	glycosyltransferase 8 domain containing 2
AXL	0.312	UFO	NM_001699	AXL receptor tyrosine kinase
				lipase A, lysosomal acid, cholesterol esteras
LIPA DRVCL 2	0.311	LAL; CESD	NM_000235	(Wolman disease)
DPYSL3	0.31	DRP3; ULIP; CRMP4; DRP-3; CRMP-4 CRP; CRP1; CSRP; CYRP; D1S181E;	NM_001387	dihydropyrimidinase-like 3
CSRP1	0.31	DKFZp686M148	NM 004078	cysteine and glycine-rich protein 1
	0.51		100.070	leukemia inhibitory factor (cholinergic
LIF	0.31	CDF; HILDA; D-FACTOR	NM_002309	differentiation factor)
MGLL	0.31	MGL; HU-K5	NM_007283	monoglyceride lipase
NID 44.2	6.25=	NOT DAID! HEE SAME TO THE	ND 4 00000	nuclear receptor subfamily 4, group A,
NR4A2 PLAU	0.307	NOT; RNR1; HZF-3; NURR1; TINUR ATF; UPA; URK; u-PA	NM_006186 NM_002658	member 2 plasminogen activator, urokinase
NMI	0.305	NMI	NM_002658 NM_004688	N-myc (and STAT) interactor
COL1A1	0.304	OI4	NM 000088	collagen, type I, alpha 1
CAT	0.303	MGC138422; MGC138424	NM 001752	catalase
		CCCA; EPCR; CCD41; CD201; MGC23024;		
PROCR	0.302	bA42O4.2	NM_006404	protein C receptor, endothelial (EPCR)
THBS1	0.302	TSP; THBS; TSP1	NM_003246	thrombospondin 1
GPD1L	0.301	KIAA0089	NM_015141	glycerol-3-phosphate dehydrogenase 1-like
SI C22 A 4	0.3	OCTN1: MGC34546: MGC40524	NM 003059	solute carrier family 22 (organic cation
SLC22A4	0.3	OCTN1; MGC34546; MGC40524 EXP; MBNL; EXP35; EXP40; EXP42; KIAA0428;	INIVI_003039	transporter), member 4
MBNL1	0.3	DKFZp686P06174	NM 207293	muscleblind-like (Drosophila)
	0.5	—p	20,273	transcription factor AP-2 gamma (activating
TFAP2C	0.3	ERF1; TFAP2G; hAP-2g; AP2-GAMMA	NM_003222	enhancer binding protein 2 gamma)
	0.3	ERP46; UNQ364; EndoPDI; MGC3178	NM_030810	thioredoxin domain containing 5
TXNDC5				wingless-type MMTV integration site family
	0.3	hWNT5A	NM_003392	member 5A
WNT5A				member 5A telomeric repeat binding factor (NIMA-
WNT5A	0.3	hWNT5A TRF; PIN2; TRF1; TRBF1; t-TRF1; hTRF1-AS	NM_003392 NM_003218	member 5A telomeric repeat binding factor (NIMA- interacting) 1
TXNDC5 WNT5A TERF1 TGM3				member 5A telomeric repeat binding factor (NIMA-

DDD VA	1 0.200	L DAVIG DDVG MCC10042	1 373 6 01 62 0 7	
PRRX2 LCE2A	0.298 0.297	PMX2; PRX2; MGC19843 LEP9	NM_016307 NM_178428	paired related homeobox 2 late cornified envelope 2A
SP110	0.297	VODI; IFI41; IFI75; FLJ22835	NM 004510	SP110 nuclear body protein
SPOCD1	0.297	FLJ25348; FLJ39908; RP11-84A19.1	NM 144569	SPOC domain containing 1
	7,-2,			solute carrier family 16, member 6
SLC16A6	0.297	MCT6; MCT7	NM_004694	(monocarboxylic acid transporter 7)
MOCOS	0.296	MOS; HMCS; FLJ20733	NM_017947	molybdenum cofactor sulfurase
EN IRRA	0.005	Nega Napa Napa ng a ng a ng a ng ang	37.4 00.600	ectonucleotide
ENPP1	0.295	M6S1; NPP1; NPPS; PC-1; PCA1; PDNP1	NM_006208	pyrophosphatase/phosphodiesterase 1
TAP1	0.293	APT1; PSF1; ABC17; ABCB2; RING4; TAP1N; D6S114E; FLJ26666; TAP1*0102N	NM 000593	transporter 1, ATP-binding cassette, sub- family B (MDR/TAP)
FLJ90805	0.293	FLJ90805	NM 173633	transmembrane protein 145
TMEM22	0.291	MGC3295; DKFZp564K2464	NM 025246	transmembrane protein 22
111111111111111111111111111111111111111	0.271	MGC5250, BILL 2000 M2 TO	1111_025210	family with sequence similarity 101, member
FAM101B	0.291	MGC45871	NM_182705	В
ZNF488	0.289	FLJ32104	NM_153034	zinc finger protein 488
				membrane metallo-endopeptidase (neutral
10.00	0.200	NEP; CD10; CALLA; MGC126681; MGC126707;	NA 6 007200	endopeptidase, enkephalinase, CALLA,
MME	0.288	DKFZp686O16152	NM_007288	CD10) MOB1, Mps One Binder kinase activator-like
MOBKL2B	0.287	MOB3B; FLJ13204; FLJ23916; MGC32960	NM 024761	2B (yeast)
HLA-E	0.285	MHC; EA1.2; EA2.1; HLA-6.2; DKFZp686P19218	NM 005516	major histocompatibility complex, class I, E
SGNE1	0.285	7B2; SgV; P7B2; SGNE1	NM 003020	secretogranin V (7B2 protein)
KLF9	0.285	BTEB; BTEB1	NM 001206	Kruppel-like factor 9
S100A6	0.285	2A9; PRA; 5B10; CABP; CACY	NM_014624	S100 calcium binding protein A6
				six transmembrane epithelial antigen of the
STEAP2	0.284	STMP; IPCA1; PUMPCn; STAMP1; PCANAP1	NM_152999	prostate 2
COTL1	0.283	CLP; FLJ43657; MGC19733	NM_021149	coactosin-like 1 (Dictyostelium)
PRPS2	0.283	PRSII; PRS II	NM_002765	phosphoribosyl pyrophosphate synthetase 2
CD97	0.282	TM7LN1	NM_078481	CD97 molecule
TFPI2	0.282	PP5; TFPI-2; FLJ21164	NM_006528	tissue factor pathway inhibitor 2
				integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2,
ITGB1	0.281	CD29; FNRB; MDF2; VLAB; GPIIA; MSK12	NM 133376	MSK12)
	0.201	ARP4; ARCD3; PHRBNL; APOBEC1L; FLJ21201;	1133370	apolipoprotein B mRNA editing enzyme,
APOBEC3B	0.281	bK150C2.2; DJ742C19.2	NM_004900	catalytic polypeptide-like 3B
DSCR1	0.28	CSP1; DSC1; RCN1; MCIP1; ADAPT78	NM_203417	Down syndrome critical region gene 1
		CTSO; PKND; PYCD; CTS02; CTS01; CTS02;	l	
CTSK	0.28	MGC23107	NM_000396	cathepsin K (pycnodysostosis)
METTL7A	0.279	AAM-B; DKFZP586A0522	NM_014033	methyltransferase like 7A
CXCL12	0.279	PBSF; SDF1; SDF1A; SDF1B; TPAR1; SCYB12; SDF-1a; SDF-1b; TLSF-a; TLSF-b	NM 199168	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)
PRKCB1	0.279	PKCB; PRKCB; PRKCB2; MGC41878; PKC-beta	NM 002738	protein kinase C, beta 1
FLJ13391	0.276	FLJ13391	NM 032181	transmembrane protein 166
ANKRD35	0.275	FLJ25124; MGC126667; MGC126669	NM 144698	ankyrin repeat domain 35
SOX3	0.274	MRGH; SOXB	NM 005634	SRY (sex determining region Y)-box 3
FGF2	0.274	BFGF; FGFB; HBGH-2	NM 002006	fibroblast growth factor 2 (basic)
SQRDL	0.272	CGI-44	NM_021199	sulfide quinone reductase-like (yeast)
				reticulocalbin 3, EF-hand calcium binding
RCN3	0.271	RLP49	NM_020650	domain
UNC5A	0.27	UNC5H1; FLJ16449; KIAA1976	NM_133369	unc-5 homolog A (C. elegans)
ARID5B	0.27	MRF2; FLJ21150; RP11-341A19.1	NM_032199	AT rich interactive domain 5B (MRF1-like)
COL3A1	0.269	EDS4A	NM 000090	collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant)
COLSAI	0.209	ED34A	INIVI_000030	prion protein (p27-30) (Creutzfeldt-Jakob
		CJD; GSS; PrP; ASCR; PRIP; PrPc; CD230;		disease, Gerstmann-Strausler-Scheinker
PRNP	0.269	MGC26679; PrP27-30; PrP33-35C	NM_183079	syndrome, fatal familial insomnia)
				six transmembrane epithelial antigen of the
STEAP1	0.268	STEAP; PRSS24; MGC19484	NM_012449	prostate 1
FLNG	0.267	ABPA; ABPL; FLN2; ABP-280; ABP280A;	2124 001450	C1 : C
FLNC	0.267	FLJ10186 PMX1; PRX1; PHOX1	NM_001458 NM_022716	filamin C, gamma (actin binding protein 280) paired related homeobox 1
PRRX1	0.267	PMAI, PKAI, PHOAI	NWI_022/10	myxovirus (influenza virus) resistance 1,
MX1	0.267	MX; MxA; IFI78; IFI-78K	NM 002462	interferon-inducible protein p78 (mouse)
		,,, ,		dipeptidyl-peptidase 4 (CD26, adenosine
DPP4	0.266	CD26; ADABP; ADCP2; DPPIV; TP103	NM_001935	deaminase complexing protein 2)
				proteasome (prosome, macropain) subunit,
PSMB8	0.266	LMP7; D6S216; RING10; D6S216E; MGC1491	NM_004159	beta type, 8 (large multifunctional peptidase 7)
SRPX	0.265	DRS; ETX1	NM_006307	sushi-repeat-containing protein, X-linked
CVD26D1	0.265	CYP26A2; MGC129613; P450RAI-2;	NM 010005	cytochrome P450, family 26, subfamily B,
CYP26B1	0.265	DKFZp686G0638	NM_019885	polypeptide 1 eukaryotic translation initiation factor 1A, Y-
EIF1AY	0.262	EIF1AY	NM 004681	linked
RND3	0.262	ARHE; Rho8; RhoE; memB	NM 005168	Rho family GTPase 3
OAF	0.262	MGC52117; NS5ATP13TP2	NM_178507	OAF homolog (Drosophila)
				CDC42 effector protein (Rho GTPase
CDC42EP5	0.261	CEP5; Borg3; MGC21945; MGC71153	NM_145057	binding) 5
GPR114	0.26	PGR27	NM_153837	G protein-coupled receptor 114
LAMA4	0.259	LAMA3; DKFZp686D23145	NM_002290	laminin, alpha 4
G1P3	0.259	6-16; G1P3; FAM14C; IFI616; IFI-6-16	NM_002038	interferon, alpha-inducible protein 6
		BRM; hBRM; Sth1p; BAF190; SNF2L2; SNF2LA;		SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily
SMARCA2	0.256	hSNF2a; FLJ36757; MGC74511	NM 139045	a, member 2
	0.230		1137043	phorbol-12-myristate-13-acetate-induced
PMAIP1	0.255	APR; NOXA	NM_021127	protein 1
HERC5	0.255	CEB1; CEBP1	NM_016323	hect domain and RLD 5
TRIM22	0.254	RNF94; STAF50; GPSTAF50	NM_006074	tripartite motif-containing 22
			1	carbohydrate (N-acetylglucosamine 6-O)
CHST4	0.254	LSST	NM_005769	sulfotransferase 4
CDVN11A	0.254	P21; CIP1; SDI1; WAF1; CAP20; CDKN1; MDA-6;	NIM 070467	cyclin-dependent kinase inhibitor 1A (p21,
CDKN1A PGS10	0.254 0.254	p21CIP1 RGS10	NM_078467 NM_002925	Cip1)
RGS10	0.254	NUSIU	INIVI_002925	regulator of G-protein signalling 10 serpin peptidase inhibitor, clade E (nexin,
				plasminogen activator inhibitor type 1),
SERPINE1	0.254	PAI; PAI1; PAI-1; PLANH1	NM_000602	member 1
GLIPR1	0.253	GLIPR; RTVP1; CRISP7	NM_006851	GLI pathogenesis-related 1 (glioma)

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GNG11	0.251	GNGT11	NM 004126	guanine nucleotide binding protein (G
CD248	0.251	TEM1; CD164L1; MGC119478; MGC119479	NM_004126 NM_020404	protein), gamma 11 CD248 molecule, endosialin
MGLL	0.231	MGL; HU-K5	NM 007283	monoglyceride lipase
KIAA1576	0.249	KIAA1576	NM 020927	KIAA1576 protein
PNPO	0.249	PDXPO; FLJ10535	NM 018129	pyridoxamine 5'-phosphate oxidase
SLIT2	0.247	SLIL3: Slit-2: FLJ14420	NM 004787	slit homolog 2 (Drosophila)
CBR3	0.247	hCBR3	NM 001236	carbonyl reductase 3
EBI3	0.246	MSX2	NM 005755	Epstein-Barr virus induced gene 3
PCSK5	0.246	PC5; PC6; PC6A; SPC6	NM 006200	proprotein convertase subtilisin/kexin type 5
COMT	0.246	COMT	NM 000754	catechol-O-methyltransferase
LUM	0.245	LDC; SLRR2D	NM 002345	lumican
MVP	0.245	LRP; VAULT1	NM 005115	major vault protein
		,	_	tumor necrosis factor receptor superfamily,
TNFRSF11B	0.245	OPG; TR1; OCIF; MGC29565	NM_002546	member 11b (osteoprotegerin)
		PRO1489; MGC22256; ICAP-1alpha;		calcium/calmodulin-dependent protein kinase
CAMK2N1	0.245	CaMKIINalpha; RP11-401M16.1	NM_018584	II inhibitor 1
C20ORF108	0.243	5A3; dJ1167H4.1; DKFZP434A1114	NM_080821	chromosome 20 open reading frame 108
CAV2	0.239	CAV; MGC12294	NM_001233	caveolin 2
CLDN10	0.239	OSP-L; CPETRL3	NM_006984	claudin 10
				lecithin retinol acyltransferase
LRAT	0.236	MGC33103	NM 004744	(phosphatidylcholineretinol O- acyltransferase)
MLKL	0.234	FLJ34389	NM 152649	mixed lineage kinase domain-like
NNMT	0.234	NNMT	NM 006169	nicotinamide N-methyltransferase
CAV2	0.234	CAV; MGC12294	NM 001233	caveolin 2
CCL8	0.234	HC14; MCP2; MCP-2; SCYA8; SCYA10	NM 005623	chemokine (C-C motif) ligand 8
POU2F2	0.234	OCT2; OTF2; Oct-2	NM 002698	POU domain, class 2, transcription factor 2
GLS2	0.232	GA; GLS; LGA; hLGA; MGC71567	NM 013267	glutaminase 2 (liver, mitochondrial)
32.02	0.23	, 020, 201, 1201, 1100/130/	013207	Cbp/p300-interacting transactivator, with
CITED4	0.23	CITED4	NM 133467	Glu/Asp-rich carboxy-terminal domain, 4
C20ORF42	0.23	URP1; KIND1; DTGCU2; FLJ20116; FLJ23423	NM 017671	chromosome 20 open reading frame 42
ACTA2	0.228	ACTSA	NM 001613	actin, alpha 2, smooth muscle, aorta
VEGFC	0.227	VRP; Flt4-L	NM 005429	vascular endothelial growth factor C
				disabled homolog 2, mitogen-responsive
DAB2	0.226	DOC2; DOC-2	NM_001343	phosphoprotein (Drosophila)
C2ORF32	0.224	DKFZp566K1924	NM_015463	chromosome 2 open reading frame 32
		MASP; RaRF; CRARF; PRSS5; CRARF1;		mannan-binding lectin serine peptidase 1
		FLJ26383; MGC126283; MGC126284;		(C4/C2 activating component of Ra-reactive
MASP1	0.222	DKFZp686I01199	NM_139125	factor)
				prostaglandin-endoperoxide synthase 1
P.T.C.C.4		COX1; COX3; PHS1; PCOX1; PGHS1; PTGHS;	377.6.000.504	(prostaglandin G/H synthase and
PTGS1	0.222	PGG/HS; PGHS-1	NM_080591	cyclooxygenase)
COL8A1	0.221	MGC9568	NM_020351	collagen, type VIII, alpha 1
PIPOX	0.22	LPIPOX MEGSIN; MGC120014; MGC120015;	NM_016518	pipecolic acid oxidase serpin peptidase inhibitor, clade B
SERPINB7	0.218	MEGSIN; MGC120014; MGC120015; DKFZp686D06190	NM 003784	serpin peptidase inhibitor, clade B (ovalbumin), member 7
CHN1	0.218	CHN; ARHGAP2; RHOGAP2	NM_003784 NM_001822	chimerin (chimaerin) 1
			NM 000167	glycerol kinase
I UrK	0.216	(TK1)		
GK FLJ20647	0.216 0.215	GKD FLJ20647		
GK FLJ20647	0.216 0.215	FLJ20647	NM_017918	coiled-coil domain containing 109B undifferentiated embryonic cell transcription
				coiled-coil domain containing 109B
FLJ20647	0.215	FLJ20647	NM_017918	coiled-coil domain containing 109B undifferentiated embryonic cell transcription
FLJ20647 UTF1	0.215 0.214	FLJ20647 UTF1	NM_017918 NM_003577	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1
FLJ20647 UTF1 LPXN	0.215 0.214 0.212	FLJ20647 UTF1 LDPL	NM_017918 NM_003577 NM_004811	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1	0.215 0.214 0.212 0.209 0.209 0.209	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78	NM 017918 NM 003577 NM_004811 NM_000759 NM_175622 NM_203418	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1
UTF1 LPXN CSF3 MT1JP	0.215 0.214 0.212 0.209 0.209	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4	NM 017918 NM 003577 NM_004811 NM_000759 NM_175622	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte)
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1	0.215 0.214 0.212 0.209 0.209 0.206 0.204	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615;	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1	0.215 0.214 0.212 0.209 0.209 0.209	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4	NM 017918 NM 003577 NM_004811 NM_000759 NM_175622 NM_203418	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA	0.215 0.214 0.212 0.209 0.209 0.206 0.204	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A,2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1, DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase)
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A 2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; ESNT	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.201	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24;	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73)
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.201 0.198	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA; HZA,2; HZA/O; HZA/Q; HZAFO; HZa-615; HIST2HZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.201	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24;	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.198 0.198	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A 2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; ESNT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002523 NM 006308 NM 002523 NM 002526 NM 001964 NM 001964 NM 012232	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.201 0.198	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA; HZA,2; HZA/O; HZA/Q; HZAFO; HZa-615; HIST2HZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.201 0.198 0.198 0.194	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.201 0.198 0.198 0.194 0.192 0.191	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; ESNT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.194 0.192 0.191	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A,2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 01232 NM 002974 NM 018689 NM 000717	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.198 0.198 0.194 0.192 0.191 0.191	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PH1; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 0034472 NM 003516 NM 002523 NM 006308 NM 002523 NM 001964 NM 012232 NM 012232 NM 01964 NM 012232 NM 003247	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.192 0.191 0.191 0.191 0.191	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA; HZA.2; HZZA/O; HZA/Q; HZAFO; HZa-615; HISTZHZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 00247 NM 003247 NM 0015150	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.191	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA; HZA.2; HZZA/O; HZA/Q; HZAFO; HZa-615; HISTZHZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002523 NM 002523 NM 006308 NM 002526 NM 01964 NM 012232 NM 002974 NM 018689 NM 000217 NM 003247 NM 003247 NM 003247 NM 003247	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.194 0.191 0.191 0.191 0.191 0.199 0.189 0.188	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; ESNT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012322 NM 002974 NM 018689 NM 002717 NM 003247 NM 003247 NM 003247 NM 000247 NM 000247 NM 0002905	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.199 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.191	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A,2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0830; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002523 NM 006308 NM 002526 NM 001964 NM 002974 NM 002974 NM 008757	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.19 0.199 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 000717 NM 003247 NM 003247 NM 003247 NM 003247 NM 003247 NM 002905 NM 002993	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte drent action of kappa light polypeptide gene
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.188	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/Q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 002717 NM 018689 NM 00010717 NM 003247 NM 003247 NM 003247 NM 003247 NM 003247 NM 002905 NM 002993 NM 002993	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.191 0.189 0.188 0.188 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A-2; H2A/0; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 00277 NM 018689 NM 00247 NM 003247 NM 0053247 NM 005474 NM 002993	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.188	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/Q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 002717 NM 018689 NM 00010717 NM 003247 NM 003247 NM 003247 NM 003247 NM 003247 NM 002905 NM 002993 NM 002993	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.19 0.189 0.189 0.187 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA, HZA.2; HZA/O; HZA/Q; HZAFO; HZa-615; HISTZHZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; ESNT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 00308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 000717 NM 003247 NM 015150 NM 000247 NM 000247 NM 000247 NM 000247 NM 0002993 NM 002993 NM 001005474 NM 011430 NM 001430 NM 002780	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.188 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/Q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 002717 NM 003247 NM 003247 NM 003247 NM 002905 NM 002905 NM 002905 NM 002905 NM 001005474 NM 01103689 NM 001005474 NM 0010430 NM 00107780 NM 00107780	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPKI domain containing adaptor with death domain
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1	0.215 0.214 0.212 0.209 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.199 0.191 0.191 0.191 0.191 0.191 0.191 0.191 0.198 0.188 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A,2; H2A/O; H2A/Q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061	NM 017918 NM 003577 NM 004811 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 01232 NM 003809 NM 000717 NM 003247 NM 015150 NM 000247 NM 00527 NM 002905 NM 002905 NM 002905 NM 002903 NM 0010430 NM 0010430 NM 0010430 NM 003805 NM 003805 NM 003805	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPKI domain containing adaptor with death domain
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.187 0.186 0.184 0.183 0.18 0.18	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAP178 FKHL8; FREAC4 H2A, H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012332 NM 002526 NM 001964 NM 012332 NM 002526 NM 001964 NM 012332 NM 002974 NM 015150 NM 00247 NM 003247 NM 00347 NM 002993 NM 002993 NM 001005474 NM 001430 NM 003805 NM 003805 NM 001423	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.187 0.186 0.184 0.183 0.18 0.18 0.18 0.18 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA; HZA.2; HZA/O; HZA/Q; HZAFO; HZa-615; HIST2HZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085	NM 017918 NM 003577 NM 004811 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 00277 NM 018689 NM 000717 NM 003247 NM 003247 NM 003247 NM 003247 NM 003247 NM 0015150 NM 000247 NM 000247 NM 0015150 NM 000247 NM 0015150 NM 000247 NM 0015150 NM 002905 NM 001005474 NM 001430 NM 001005474 NM 001430 NM 003805 NM 003805 NM 003805 NM 001423 NM 001753	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1 INDO	0.215 0.214 0.212 0.209 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.187 0.186 0.184 0.183 0.18 0.18 0.179 0.179 0.179	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/G; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085 IDO; CD107B	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 002717 NM 018689 NM 00217 NM 002905 NM 002905 NM 002905 NM 002905 NM 002908 NM 001005474 NM 01430 NM 001430 NM 003805 NM 003805 NM 003805 NM 0010753 NM 001753 NM 001753 NM 001753 NM 001754	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa indoleamine-pyrrole 2,3 dioxygenase
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200R127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1 INDO CLDN10	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.187 0.188 0.188 0.188 0.184 0.183 0.184 0.183 0.189 0.179 0.179 0.179 0.179	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085 IDO; CD107B OSP-L; CPETRL3	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 00277 NM 003247 NM 015150 NM 003247 NM 003247 NM 003247 NM 003247 NM 003247 NM 0015150 NM 002973 NM 001005474 NM 001403 NM 001403 NM 001403 NM 001403 NM 003805 NM 006017 NM 001423 NM 001753 NM 001753 NM 006984	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa indoleamine-pyrrole 2,3 dioxygenase claudin 10
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1 INDO CLDN10 PSG9	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.187 0.186 0.184 0.183 0.186 0.184 0.183 0.187 0.186 0.184 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA, HZA,2; HZA/O; HZA/Q; HZAFO; HZa-615; HIST2HZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; ESNT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PII1; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSPI; TMEMZL CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIFZA; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085 IDO; CD107B OSP-L; CPETRL3 PSG11	NM 017918 NM 003577 NM 004811 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012232 NM 002974 NM 015150 NM 00247 NM 003247 NM 003247 NM 003247 NM 003247 NM 000247 NM 0015150 NM 002905 NM 002905 NM 001430 NM 001753 NM 001423 NM 001753 NM 001684 NM 001784 NM 001753 NM 001684 NM 001784	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa indoleamine-pyrrole 2,3 dioxygenase claudin 10 pregnancy specific beta-1-glycoprotein 9
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200R127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1 INDO CLDN10	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.187 0.188 0.188 0.188 0.184 0.183 0.184 0.183 0.189 0.179 0.179 0.179 0.179	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAP178 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/Q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFL-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085 IDO; CD107B OSP-L; CPETRL3 PSG11 MGC105112	NM 017918 NM 003577 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012232 NM 002974 NM 018689 NM 00277 NM 003247 NM 015150 NM 003247 NM 003247 NM 003247 NM 003247 NM 003247 NM 0015150 NM 002973 NM 001005474 NM 001403 NM 001403 NM 001403 NM 001403 NM 003805 NM 006017 NM 001423 NM 001753 NM 001753 NM 006984	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa indoleamine-pyrrole 2,3 dioxygenase claudin 10
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1 INDO CLDN10 PSG9	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.187 0.186 0.184 0.183 0.186 0.184 0.183 0.187 0.186 0.184 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/Q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085 IDO; CD107B OSP-L; CPETRL3 PSG11 MGC105112 FCRL; FREB; FCRLX; FCRLa; FCRLb; FCRLd;	NM 017918 NM 003577 NM 004811 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012232 NM 002974 NM 015150 NM 00247 NM 003247 NM 003247 NM 003247 NM 003247 NM 000247 NM 0015150 NM 002905 NM 002905 NM 001430 NM 001753 NM 001423 NM 001753 NM 001684 NM 001784 NM 001753 NM 001684 NM 001784	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa indoleamine-pyrrole 2,3 dioxygenase claudin 10 pregnancy specific beta-1-glycoprotein 9
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1 INDO CLDN10 PSG9 LOX	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.187 0.186 0.184 0.183 0.186 0.184 0.183	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSPI; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 HZA, HZA.2; HZA/O; HZA/Q; HZAFO; HZa-615; HIST2HZAA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; ESNT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAID3; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085 IDO; CD107B OSP-L; CPETRL3 PSG11 MGC105112 FCRL; FCRLe; FCRLA; FCRLa; FCRLb; FCRLd; FCRLc; MGC4595; RP11-	NM 017918 NM 003577 NM 004811 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002426 NM 002523 NM 006308 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012232 NM 002974 NM 015150 NM 00247 NM 003247 NM 003247 NM 003247 NM 00247 NM 00240 NM 00247 NM 00293 NM 001005474 NM 001430 NM 002780 NM 001430 NM 001753 NM 002784 NM 002784 NM 002784	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa indoleamine-pyrrole 2,3 dioxygenase claudin 10 pregnancy specific beta-1-glycoprotein 9 lysyl oxidase
FLJ20647 UTF1 LPXN CSF3 MT1JP DSCR1 FOXD1 HIST2H2AA MMP12 NPTX2 HSPB3 NT5E EGR1 PTRF SERPINB4 KIAA1199 CA4 THBS2 RAFTLIN MICA C200RF127 RDH5 CXCL6 NFKBIZ EPAS1 PSG4 CRADD PROM1 EMP1 CAV1 INDO CLDN10 PSG9	0.215 0.214 0.212 0.209 0.209 0.206 0.204 0.203 0.201 0.201 0.198 0.198 0.194 0.191 0.191 0.191 0.191 0.189 0.188 0.187 0.186 0.184 0.183 0.186 0.184 0.183 0.187 0.186 0.184 0.187	FLJ20647 UTF1 LDPL GCSF; G-CSF; MGC45931 CSP1; DSC1; RCN1; MCIP1; ADAPT78 FKHL8; FREAC4 H2A; H2A.2; H2A/O; H2A/Q; H2AFO; H2a-615; HIST2H2AA HME; MME; MGC138506 NP2; NARP; NP-II HSPL27 NT; eN; NT5; NTE; eNT; CD73; E5NT TIS8; AT225; G0S30; NGFI-A; ZNF225; KROX-24; ZIF-268 FKSG13 PI11; SCCA1; SCCA2; LEUPIN; SCCA-2 CCSP1; TMEM2L CAIV; Car4 TSP2 RAFTLIN; MIG2; PIG9; PIB10; KIAA0084 PERB11.1; MGC111087; truncated RDH1 GCP2; CKA-3; GCP-2; SCYB6 IKBZ; INAP; MAIL; FLJ30225; FLJ34463 HLF; MOP2; HIF2A; PASD2 PSG9 RAIDD; MGC9163 AC133; CD133; PROML1; MSTP061 TMP; CL-20; EMP-1 CAV; VIP21; MSTP085 IDO; CD107B OSP-L; CPETRL3 PSG11 MGC105112 FCRL; FREB; FCRLX; FCRLa; FCRLb; FCRLd;	NM 017918 NM 003577 NM 004811 NM 004811 NM 000759 NM 175622 NM 203418 NM 004472 NM 003516 NM 002526 NM 002526 NM 001964 NM 012232 NM 002526 NM 001964 NM 012232 NM 002974 NM 015150 NM 00247 NM 003247 NM 003247 NM 003247 NM 003247 NM 000247 NM 0015150 NM 002905 NM 002905 NM 001430 NM 001753 NM 001423 NM 001753 NM 001684 NM 001784 NM 001753 NM 001684 NM 001784	coiled-coil domain containing 109B undifferentiated embryonic cell transcription factor 1 leupaxin colony stimulating factor 3 (granulocyte) Down syndrome critical region gene 1 forkhead box D1 histone 2, H2aa3 matrix metallopeptidase 12 (macrophage elastase) neuronal pentraxin II heat shock 27kDa protein 3 5'-nucleotidase, ecto (CD73) early growth response 1 polymerase I and transcript release factor serpin peptidase inhibitor, clade B (ovalbumin), member 4 KIAA1199 carbonic anhydrase IV thrombospondin 2 raft-linking protein MHC class I polypeptide-related sequence A retinol dehydrogenase 5 (11-cis/9-cis) chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2) nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta endothelial PAS domain protein 1 pregnancy specific beta-1-glycoprotein 4 CASP2 and RIPK1 domain containing adaptor with death domain prominin 1 epithelial membrane protein 1 caveolin 1, caveolae protein, 22kDa indoleamine-pyrrole 2,3 dioxygenase claudin 10 pregnancy specific beta-1-glycoprotein 9

D4S234E	0.166	D4S234E; P21; NSG1; D4S234; NEEP21	NM_014392	DNA segment on chromosome 4 (unique) 234 expressed sequence
UGP2	0.161	UDPG; UGPP2; UDPGP2; pHC379	NM 006759	UDP-glucose pyrophosphorylase 2
PSG7	0.159	PSG1	NM_002783	pregnancy specific beta-1-glycoprotein 7
PSG1	0.157	SP1; B1G1; PBG1; CD66f; PSBG1; PSGGA; DHFRP2; PSGIIA; FLJ90598; FLJ90654	NM_006905	pregnancy specific beta-1-glycoprotein 1
MT1H	0.155	MT1; MGC70702	NM_005951	metallothionein 1H
COL10A1	0.154	COL10A1	NM_000493	collagen, type X, alpha 1(Schmid metaphyseal chondrodysplasia)
MOXD1	0.152	MOX; PRO5780; dJ248E1.1; DKFZP564G202	NM 001031699	monooxygenase, DBH-like 1
PSG5	0.149	PSG; FL-NCA-3	NM 002781	pregnancy specific beta-1-glycoprotein 5
ANDED.	0.140	LINE CRASS LINE DEDICATE	27.004450	alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M,
ANPEP	0.143	APN; CD13; LAP1; PEPN; gp150	NM_001150	microsomal aminopeptidase, CD13, p150)
DDAH1	0.142	DDAH; FLJ21264; FLJ25539	NM_012137	dimethylarginine dimethylaminohydrolase 1
MT1F	0.141	MT1; MGC32732	NM_005949	metallothionein 1F (functional)
IL13RA2	0.14	IL-13R; IL13BP; CD213A2	NM_000640	interleukin 13 receptor, alpha 2
OLFML3	0.137	OLF44; HNOEL-iso	NM_020190	olfactomedin-like 3
SGK	0.13	SGK1	NM_005627	serum/glucocorticoid regulated kinase
CYR61	0.125	CCN1; GIG1; IGFBP10	NM_001554	cysteine-rich, angiogenic inducer, 61
SERPINB2	0.124	PAI; PAI2; PAI-2; PLANH2; HsT1201	NM 002575	serpin peptidase inhibitor, clade B (ovalbumin), member 2
ANXA1	0.124	ANX1: LPC1	NM 000700	annexin A1
CXCL5	0.124	SCYB5; ENA-78	NM 002994	chemokine (C-X-C motif) ligand 5
FLJ14834	0.12	FLJ14834; MGC126673; MGC126675	NM 032849	chromosome 13 open reading frame 33
CAMKV	0.115	1G5; MGC8407; VACAMKL	NM 024046	CaM kinase-like vesicle-associated
GNA14	0.112	GNA14	NM 004297	guanine nucleotide binding protein (G protein), alpha 14
CXCL2	0.108	GRO2; GROb; MIP2; MIP2A; SCYB2; MGSA-b; MIP-2a; CINC-2a; MGSA beta	NM 002089	chemokine (C-X-C motif) ligand 2
LECT1	0.105	CHM1; CHM-I; BRICD3	NM 007015	leukocyte cell derived chemotaxin 1
PSG11	0.0956	PSG13; PSG14; MGC22484	NM 002785	pregnancy specific beta-1-glycoprotein 11
PLAT	0.0947	TPA; T-PA; DKFZp686I03148	NM 000930	plasminogen activator, tissue
MT1M	0.0929	MT1; MT1K; MGC40498; MGC118949	NM 176870	metallothionein 1M
THY1	0.0901	CD90; FLJ33325	NM 006288	Thy-1 cell surface antigen
MOXD1	0.0888	MOX; PRO5780; dJ248E1.1; DKFZP564G202	NM 015529	monooxygenase, DBH-like 1
CSF2	0.0836	GMCSF; MGC131935; MGC138897	NM 000758	colony stimulating factor 2 (granulocyte- macrophage)
VGF	0.0781	VGF	NM 003378	VGF nerve growth factor inducible
7 ()1	0.0781	FIC; MARC; MCP3; NC28; MCP-3; SCYA6;	1111_003376	7 Of herve growth factor inductore
CCL7	0.07	SCYA7; MGC138463; MGC138465	NM_006273	chemokine (C-C motif) ligand 7
ACTG2	0.0613	ACT; ACTE; ACTA3; ACTL3; ACTSG	NM_001615	actin, gamma 2, smooth muscle, enteric
TM4SF1	0.0455	L6; H-L6; M3S1; TAAL6	NM_014220	transmembrane 4 L six family member 1
CDD1	0.0410	ONL DUCK BON ETA 1 MCC110040	ND 6 000502	secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T-lymphocyte activation
SPP1	0.0419	OPN; BNSP; BSPI; ETA-1; MGC110940	NM_000582	1)
MT1G	0.0401	MT1; MT1K; MGC12386	NM_005950	metallothionein 1G
TXNIP	0.0271	THIF; VDUP1; HHCPA78; EST01027	NM_006472	thioredoxin interacting protein

d4+GF only

Gene Name	Fold Change	Common	Genbank	Description
HAND1	12.38	Hxt; eHand; Thing1	NM 004821	heart and neural crest derivatives expressed 1
C20ORF 75	10.26	NLRR4; FLJ23994; MGC25027; dJ1056H1.1	NM_152611	chromosome 20 open reading frame 75
GYPE	9.316	GPE; MNS; MiIX	NM 002102	glycophorin E
ANGPT 2	8.428	ANG2; AGPT2	NM_001147	angiopoietin 2
HAPLN 1	6.167	CRTL1	NM_001884	hyaluronan and proteoglycan link protein 1
PPFIBP2	5.367	Cclp1; MGC42541; DKFZp781K06126	NM 003621	PTPRF interacting protein, binding protein 2 (liprin beta 2)
HES4	5.147	FGF23	NM 021170	hairy and enhancer of split 4 (Drosophila)
ANG	5.135	RNASE4; RNASE5; MGC71966	NM 001145	angiogenin, ribonuclease, RNase A family, 5
LTB4D H	5.129	MGC34943	NM_012212	leukotriene B4 12-hydroxydehydrogenase
MANEA	4.855	hEndo; FLJ12838; DKFZp686D20120	NM_024641	mannosidase, endo-alpha
CDC42E P4	4.714	CEP4; BORG4; MGC3740; KAIA1777; MGC17125	NM_012121	CDC42 effector protein (Rho GTPase binding) 4
MYL4	4.588	GT1; ALC1; AMLC; PRO1957	NM_002476	myosin, light polypeptide 4, alkali; atrial, embryonic
KRT8	4.515	K8; KO; CK8; CYK8; K2C8; CARD2	NM_002273	keratin 8
SIPA1L 2	4.383	SPAL2; FLJ23126; FLJ23632; KIAA1389	NM_020808	signal-induced proliferation-associated 1 like 2
DLK1	4.217	FA1; ZOG; pG2; PREF1; Pref-1	NM_003836	delta-like 1 homolog (Drosophila)
CYP27A 1	4.153	CTX; CP27; CYP27	NM_000784	cytochrome P450, family 27, subfamily A, polypeptide 1
BST2	4.127	CD317	NM_004335	bone marrow stromal cell antigen 2
GREB1	3.952	GREB1; KIAA0575	NM_014668	GREB1 protein
SOX21	3.797	SOX25	NM_007084	SRY (sex determining region Y)-box 21
CTSL2	3.763	CTSU; CTSV; CATL2; MGC125957	NM_001333	cathepsin L2
HLA- DRB4	3.73	DRB4; HLA DRB1; HLA-DR4B	NM_021983	major histocompatibility complex, class II, DR beta 4
GAB2	3.616	KIAA0571	NM_080491	GRB2-associated binding protein 2
HDC	3.616	HDC	NM_002112	histidine decarboxylase
SLC7A5	3.603	E16; CD98; LAT1; 4F2LC; MPE16; hLAT1; D16S469E	NM_003486	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
GPSM2	3.582	LGN; Pins	NM_013296	G-protein signalling modulator 2 (AGS3-like, C. elegans)
RAB17	3.553	FLJ12538	NM_022449	RAB17, member RAS oncogene family
DAAM1	3.544	KIAA0666	NM_014992	dishevelled associated activator of morphogenesis 1
VAMP8	3.483	EDB; VAMP5	NM_003761	vesicle-associated membrane protein 8 (endobrevin)
FEZ1	3.43	FEZ1	NM_005103	fasciculation and elongation protein zeta 1 (zygin I)
PDLIM3	3.385	ALP; DKFZp686L0362	NM_014476	PDZ and LIM domain 3
KCNK1	3.373	DPK; HOHO; TWIK1; TWIK-1	NM_002245	potassium channel, subfamily K, member 1
PCBP4	3.354	LIP4; MCG10	NM_033008	poly(rC) binding protein 4
DUSP4	3.351	TYP; HVH2; MKP2; MKP-2	NM_057158	dual specificity phosphatase 4
FUT2	3.311	SE; Se2; sej	NM_000511	fucosyltransferase 2 (secretor status included)
CAMKK 2 ARHGE	3.299	CAMKK; CAMKKB; KIAA0787; MGC15254	NM_172215	calcium/calmodulin-dependent protein kinase kinase 2, beta
F16 ARHGE	3.281	NBR; GEF16 ASEF; GEF4; STM6	NM_014448	Rho guanine exchange factor (GEF) 16
F4 AMME	3.248	ASEF; GEF4; S1M6 AMMERC1	NM_032995	Rho guanine nucleotide exchange factor (GEF) 4
CR1		CLDN18	NM_001025 580	Alport syndrome, mental retardation, midface hypoplasia and elliptocytosis chromosomal region, gene 1
CLDN18	3.23	PRO0593	NM_016369	claudin 18
HIPK2 RNU3IP 2	3.184 3.183	U3-55K	NM_022740 NM_004704	homeodomain interacting protein kinase 2 RNA, U3 small nucleolar interacting protein 2
MBD6	3.171	KIAA1887	NM 052897	methyl-CpG binding domain protein 6
APOE	3.171	AD2; MGC1571; apoprotein	NM 000041	apolipoprotein E
FOXA3	3.121	FKHH3; HNF3G; TCF3G; MGC10179	NM 004497	forkhead box A3
AHNAK	3.088	AHNAKRS; MGC5395	NM 001620	AHNAK nucleoprotein (desmoyokin)
ZNF521	3.081	EHZF; Evi3; MGC142182; MGC142208; DKFZp564D0764	NM_015461	zinc finger protein 521
FLJ2247 1	3.042	FLJ22471	NM_025140	coiled-coil domain containing 92
DDAH2	3.01	G6a; DDAH; NG30; DDAHII	NM_013974	dimethylarginine dimethylaminohydrolase 2
RASL12	2.999	RIS	NM_016563	RAS-like, family 12
		ozrf1; ZFP260	NM_001012	zinc finger protein 260
ZFP260	2.973		756	
	2.973	BNAS2; CKLFSF3; FLJ31762; MGC51956	NM_181555	CKLF-like MARVEL transmembrane domain containing 3
ZFP260		BNAS2; CKLFSF3; FLJ31762; MGC51956 EBP50; NHERF		CKLF-like MARVEL transmembrane domain containing 3 solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1
ZFP260 CMTM3 SLC9A3	2.971	EBP50; NHERF	NM_181555	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1
ZFP260 CMTM3 SLC9A3 R1	2.971 2.966		NM_181555 NM_004252	solute carrier family 9 (sodium/hydrogen exchanger), member 3
ZFP260 CMTM3 SLC9A3 R1 DSCR5	2.971 2.966 2.959	EBP50; NHERF DCRC; DSRC; DSCR5; DCRC-S IKBA; MAD-3; NFKBI	NM_181555 NM_004252 NM_153681	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 phosphatidylinositol glycan anchor biosynthesis, class P nuclear factor of kappa light polypeptide gene enhancer in B-cells
ZFP260 CMTM3 SLC9A3 R1 DSCR5 NFKBIA	2.971 2.966 2.959 2.95	EBP50; NHERF DCRC; DSRC; DSCR5; DCRC-S	NM_181555 NM_004252 NM_153681 NM_020529	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 phosphatidylinositol glycan anchor biosynthesis, class P nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
ZFP260 CMTM3 SLC9A3 R1 DSCR5 NFKBIA	2.971 2.966 2.959 2.95 2.947	EBP50; NHERF DCRC; DSRC; DSCR5; DCRC-S IKBA; MAD-3; NFKBI MGC46719; DKFZp762F237	NM_181555 NM_004252 NM_153681 NM_020529 NM_153713	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 phosphatidylinositol glycan anchor biosynthesis, class P nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha Lix1 homolog (mouse) like v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog
ZFP260 CMTM3 SLC9A3 R1 DSCR5 NFKBIA LIX1L SRC	2.971 2.966 2.959 2.95 2.947 2.945	EBP50; NHERF DCRC; DSRC; DSCR5; DCRC-S IKBA; MAD-3; NFKBI MGC46719; DKFZp762F237 ASV; SRC1; e-SRC; p60-Src	NM_181555 NM_004252 NM_153681 NM_020529 NM_153713 NM_005417	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 phosphatidylinositol glycan anchor biosynthesis, class P nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha Lix1 homolog (mouse) like v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
ZFP260 CMTM3 SLC9A3 R1 DSCR5 NFKBIA LIX1L SRC RHPN2	2.971 2.966 2.959 2.95 2.947 2.945	EBP50; NHERF DCRC; DSRC; DSCR5; DCRC-S IKBA; MAD-3; NFKBI MGC46719; DKFZp762F237 ASV; SRC1; e-SRC; p60-Src RhoBP; p76RBE	NM_181555 NM_004252 NM_153681 NM_020529 NM_153713 NM_005417 NM_033103	solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1 phosphatidylinositol glycan anchor biosynthesis, class P nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha Lix1 homolog (mouse) like v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian) rhophilin, Rho GTPase binding protein 2

FLJ4607	2.913	FLJ46072	541 NM_198488	family with sequence similarity 83, member H
2	2.913	FLJ40072	INIVI_196466	family with sequence similarity 85, member H
COL5A2	2.901	MGC105115	NM 000393	collagen, type V, alpha 2
BNIP3	2.889	NIP3	NM_004052	BCL2/adenovirus E1B 19kDa interacting protein 3
WARS	2.861	IFI53; IFP53; GAMMA-2	NM_213646	tryptophanyl-tRNA synthetase
ZD52F1	2.859	UNQ729; ZD52F10	NM_033317	dermokine
VRDC	2.854	IRIP; SUA5; DRIP3; FLJ23476; FLJ26165; RP11-	NM_024640	yrdC domain containing (E. coli)
C3ORF3	2.847	109P14.4 FLJ22173; MGC125760; MGC125761	NM_025041	chromosome 3 open reading frame 36
6 C9ORF6	2.839	X123; MGC142243; MGC142245; RP11-548B3.1	NM_004816	chromosome 9 open reading frame 61
FARP1	2.828	CDEP; PLEKHC2; MGC87400	NM_005766	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1
				(chondrocyte-derived)
NMU	2.815	NMU	NM_006681	neuromedin U
OTX1 DSC2	2.81 2.788	FLJ38361; MGC15736 DG2; DSC3; CDHF2; DGII/III; DKFZp686I11137	NM_014562 NM_004949	orthodenticle homolog 1 (Drosophila) desmocollin 2
DHRS10	2.781	retSDR3	NM 016246	dehydrogenase/reductase (SDR family) member 10
EHHAD	2.781	LBP; ECHD; LBFP; PBFE; MGC120586	NM 001966	enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A
H SERPIN	2.78	GDN; PI7; PN1; PNI	NM 006216	dehydrogenase serpin peptidase inhibitor, clade E (nexin, plasminogen activator
E2 TNFRSF	2.767	DR6; BM-018; MGC31965	NM 014452	inhibitor type 1), member 2 tumor necrosis factor receptor superfamily, member 21
21 PDLIM7	2.766	PDLIM7	NM 213636	PDZ and LIM domain 7 (enigma)
MLYCD	2.753	MCD; MGC59795	NM 012213	malonyl-CoA decarboxylase
MRPL22	2.749	RPML25; HSPC158; MRP-L25; DKFZp781F1071	NM 001014	mitochondrial ribosomal protein L22
		•	990	•
SOX11	2.748	SOX11	NM_003108	SRY (sex determining region Y)-box 11
FZD7	2.744	FzE3	NM_003507	frizzled homolog 7 (Drosophila)
ZNF467	2.723	EZI; Zfp467	NM_207336	zinc finger protein 467
HIC2	2.721	HRG22; ZBTB30; KIAA1020 TMSNB	NM_015094 NM_021992	hypermethylated in cancer 2
TMSL8 NPPA	2.716 2.696	TMSNB ANF; ANP; PND; CDD-ANF	NM_021992 NM_006172	thymosin-like 8 natriuretic peptide precursor A
PALM	2.695	KIAA0270	NM 002579	paralemmin
B4GAL	2.693	B4Gal-T4; beta4Gal-T4	NM_002579 NM_003778	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase,
T4 FEZ1	2.677	FEZ1	NM 022549	polypeptide 4 fasciculation and elongation protein zeta 1 (zygin I)
COL4A1	2.676	arresten	NM 001845	collagen, type IV, alpha 1
SALL1	2.676	TBS; HSAL1; ZNF794	NM 002968	sal-like 1 (Drosophila)
MCCC1	2.659	MCCA; MCC-B; FLJ25545; DKFZp686B20267	NM 020166	methylcrotonoyl-Coenzyme A carboxylase 1 (alpha)
GRB10	2.65	RSS; IRBP; MEG1; GRB-IR; KIAA0207	NM 005311	growth factor receptor-bound protein 10
DNAJB2	2.649	HSJ1; HSPF3	NM 006736	DnaJ (Hsp40) homolog, subfamily B, member 2
PKM2	2.643	PK3; PKM; TCB; OIP3; CTHBP; THBP1; MGC3932	NM_002654	pyruvate kinase, muscle
CAPN13	2.631	FLJ23523	NM_144575	calpain 13
TP53BP 2	2.628	BBP; 53BP2; ASPP2; p53BP2; PPP1R13A	NM_001031 685	tumor protein p53 binding protein, 2
UNC50	2.605	URP; GMH1; UNCL; HSD23; hGMH1p; DKFZp564G0222	NM_014044	unc-50 homolog (C. elegans)
STX3A	2.59	STX3A	NM_004177	syntaxin 3
REEP6	2.584	DP1L1; TB2L1; C19orf32; FLJ25383	NM_138393	receptor accessory protein 6
ST6GAL NAC5	2.578	SIAT7E; MGC3184; ST6GalNAcV	NM_030965	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5
SERTA D2	2.577	TRIP-Br2; MGC126688; MGC126690	NM_014755	SERTA domain containing 2
KCTD15	2.554	MGC2628; MGC25497	NM_024076	potassium channel tetramerisation domain containing 15
ST3GAL 5	2.547	SIAT9; ST3GalV; SIATGM3S	NM_003896	ST3 beta-galactoside alpha-2,3-sialyltransferase 5
KIF13B C17ORF	2.529 2.52	GAKIN; KIAA0639 PRO2472; FLJ20014	NM_015254 NM_017622	kinesin family member 13B chromosome 17 open reading frame 59
59	0.5:-		1 200	
ALAD	2.518 2.505	LH2; hLhx2; MGC138390 PBGS; ALADH; MGC5057	NM_004789 NM_001003	LIM homeobox 2 aminolevulinate, delta-, dehydratase
ZNF395	2.502	PBF; PRF1; HDBP2; PRF-1; Si-1-8-14;	945 NM_018660	zinc finger protein 395
FHOD1	2.492	DKFZp434K1210 FHOS	NM 013241	formin homology 2 domain containing 1
S100A1 6	2.492	AAG13; S100F; DT1P1A7; MGC17528	NM_080388	S100 calcium binding protein A16
CRB3	2.461	DEFB106A	NM_139161	crumbs homolog 3 (Drosophila)
USP3	2.461	UBP; SIH003; MGC129878; MGC129879	NM 006537	ubiquitin specific peptidase 3
NXN	2.449	TRG-4; FLJ12614	NM 022463	Nucleoredoxin
RARB	2.446	HAP; RRB2; NR1B2	NM_000965	retinoic acid receptor, beta
MAP3K 9	2.444	MLK1; PRKE1	NM_033141	mitogen-activated protein kinase kinase kinase 9
BCAT2	2.423	BCAM; BCT2	NM 001190	branched chain aminotransferase 2, mitochondrial
TRIM32	2.42	HT2A; BBS11; TATIP; LGMD2H	NM 012210	tripartite motif-containing 32
H2AFY	2.418	H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M;	NM_004893	H2A histone family, member Y
MST1	2.409	MACROH2A1.1; macroH2A1.2 MSP; HGFL; NF15S2; D3F15S2; DNF15S2	NM 020998	macrophaga etimulating 1 (honotocyto growth footos libro)
CNKSR	2.409	MSF; HGFL; NF1582; D3F1582; DNF1582 MAGI1; FLJ31349; RP11-486M3.1	NM_020998 NM_173515	macrophage stimulating 1 (hepatocyte growth factor-like) CNKSR family member 3
3 ACSL1	2.403	ACS1; LACS; FACL1; FACL2; LACS1; LACS2	NM_001995	acyl-CoA synthetase long-chain family member 1
PLEKH C1	2.402	MIG2; KIND2; mig-2; UNC112	NM_006832	pleckstrin homology domain containing, family C (with FERM domain) member 1
DIABL O	2.4	SMAC; SMAC3; DIABLO-S; FLJ10537; FLJ25049	NM_138930	diablo homolog (Drosophila)
ANKM	2.398	ZMYND20; DKFZP564O043	NM_020319	ankyrin repeat and MYND domain containing 2
GPR161	2.395	RE2; FLJ33952	NM 007369	G protein-coupled receptor 161
NUDT1	2.383	UGPP	NM_177533	nudix (nucleoside diphosphate linked moiety X)-type motif 14
4 NODAL	2.378	MGC138230	NM_018055	nodal homolog (mouse)
		•		-

ZFPM2	2.374	DIH3; FOG2; ZNF89B; hFOG-2; MGC129663;	NM_012082	zinc finger protein, multitype 2
TCP11L	2.371	MGC129664 FLJ11336; FLJ11386; dJ85M6.3	NM 018393	t-complex 11 (mouse) like 1
1	2.3/1	1 L311330, 1 L311300, 4303W10.3	NW_018373	t-complex 11 (mouse) like 1
CGNL1	2.368	JACOP; FLJ14957; KIAA1749; MGC138254	NM_032866	cingulin-like 1
WSB1	2.361		NM_134264	
KLF6	2.36	GBF; ZF9; BCD1; CPBP; PAC1; ST12; COPEB; DKFZp686N0199	NM_001008 490	Kruppel-like factor 6
CYGB	2.36	HGB; STAP	NM 134268	Cytoglobin
PTPRM	2.355	RPTPM; RPTPU; PTPRL1; hR-PTPu; R-PTP-MU	NM 002845	protein tyrosine phosphatase, receptor type, M
AES	2.353	GRG; ESP1; GRG5; TLE5; AES-1; AES-2	NM_198969	amino-terminal enhancer of split
GADD4	2.351	CR6; DDIT2; GRP17; GADD45gamma	NM_006705	growth arrest and DNA-damage-inducible, gamma
5G RAB25	2.35	CATX-8	NM 020387	RAB25, member RAS oncogene family
MASK	2.349	MST4; MASK	NM 016542	serine/threonine protein kinase MST4
CDH15	2.348	CDH3; CDHM; MCAD; CDH14	NM 004933	cadherin 15, M-cadherin (myotubule)
C8ORF5	2.34	FLJ34715	NM_001013	chromosome 8 open reading frame 58
8	2 220	and a arms by the root of	842	
STT3B	2.338	SIMP; STT3-B; FLJ90106	NM_178862	STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)
MDK	2.336	MK; NEGF2; FLJ27379	NM_001012	midkine (neurite growth-promoting factor 2)
			334	
BMPR2	2.336	BMR2; BMPR3; BRK-3; T-ALK; BMPR-II	NM_001204	bone morphogenetic protein receptor, type II (serine/threonine kinase)
IL17R	2.334	IL17R; CDw217; IL-17RA; hIL-17R; MGC10262	NM_014339	interleukin 17 receptor A
DYNC1I	2.329	DNCI1; DNCIC1	NM_004411	dynein, cytoplasmic 1, intermediate chain 1
COCH	2.226	DENIAGO DENIA 21, COCHEDA, COCHEDA	NIM 004006	and the forter Champles and the Champles and the control of the champles and the champles and the champles and the champles and the champles are champles and the champles are champles and the champles are champles
PTPN21	2.326	DFNA9; DFNA31; COCH5B2; COCH-5B2 PTPD1; PTPRL10	NM_004086 NM_007039	coagulation factor C homolog, cochlin (Limulus polyphemus) protein tyrosine phosphatase, non-receptor type 21
SLC26A	2.317	MGC46523	NM_173626	solute carrier family 26, member 11
11			_	
TMEM5	2.317	C1orf72; FLJ10199	NM_018022	transmembrane protein 51
PLXNA 2	2.312	OCT; PLXN2; FLJ11751; FLJ30634; KIAA0463	NM_025179	plexin A2
ZNF319	2.305	ZFP319; MGC126816	NM 020807	zinc finger protein 319
ZNF69	2.304	Cos5; MGC59928	NM 021915	zinc finger protein 69
BAMBI	2.304	NMA	NM_012342	BMP and activin membrane-bound inhibitor homolog (Xenopus
			_	laevis)
ISL1	2.299	Isl-1	NM_002202	ISL1 transcription factor, LIM/homeodomain, (islet-1)
CGI-38 C21ORF	2.284	CGI-38 YG81; C21orf14; C21orf38; DKFZp781D1223	NM_015964 NM_017447	brain specific protein chromosome 21 open reading frame 91
91	2.201	1 G81, C2101114, C2101138, DKFZp/81D1223	NWI_01/44/	chromosome 21 open reading frame 91
SNAPC3	2.28		NM_003084	
RASSF7	2.278	HRC1; HRAS1; C11orf13; MGC126069;	NM_003475	Ras association (RalGDS/AF-6) domain family 7
RPRM	2.276	MGC126070 REPRIMO; FLJ90327	NM 019845	reprimo, TP53 dependent G2 arrest mediator candidate
INPPL1	2.274	SHIP2	NM 001567	inositol polyphosphate phosphatase-like 1
PRSS35	2.274	C6orf158; MGC46520; dJ223E3.1	NM 153362	protease, serine, 35
SERTA	2.272	RBT1	NM_203344	SERTA domain containing 3
D3	2.269	EL 114017, EL 120544	NIM 022061	
SERAC1 MXI1	2.268 2.267	FLJ14917; FLJ30544 MXI; MAD2; MXD2; MGC43220	NM_032861 NM_130439	serine active site containing 1 MAX interactor 1
FZD2	2.266	FZD2	NM 001466	frizzled homolog 2 (Drosophila)
SPRED2	2.264	Spred-2; FLJ21897; FLJ31917	NM_181784	sprouty-related, EVH1 domain containing 2
SLC3A2	2.262	4F2; CD98; MDU1; 4F2HC; 4T2HC; NACAE;	NM_001012	solute carrier family 3 (activators of dibasic and neutral amino
C11ORF	2.254	CD98HC	661	acid transport), member 2
56	2.254	FLJ22665; KIAA1759; DKFZP566M1046	NM_032127	chromosome 11 open reading frame 56
PELI1	2.254	MGC50990	NM_020651	pellino homolog 1 (Drosophila)
ZIC3	2.249	HTX; HTX1; ZNF203	NM_003413	Zic family member 3 heterotaxy 1 (odd-paired homolog, Drosophila)
S100A1	2.248	S100A13	NM_001024	S100 calcium binding protein A13
3			211	
EDG4	2.248	LPA2; EDG-4; LPAR2	NM_004720	endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 4
MLLT11	2.244	AF1Q; RP11-316M1.10	NM_006818	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog,
1 0 2 2 2	2.212	I POZOZ	307.00:	Drosophila); translocated to, 11
LBX2	2.243	LP3727	NM_001009 812	ladybird homeobox homolog 2 (Drosophila)
TBC1D9	2.24	MDR1; KIAA0882	NM_015130	TBC1 domain family, member 9 (with GRAM domain)
ETFB	2.24	MADD; FP585	NM_001014	electron-transfer-flavoprotein, beta polypeptide
MORN2	2.239	MOPT; BLOCK27; MGC126130; MGC126131;	763 NM 194270	MORN repeat containing 2
IMORN2	2.239	MGC126132 MGC126130; MGC126131;	INIVI_1942/0	MOKN repeat containing 2
C9ORF1	2.232	GAPR-1; GLIPR2	NM_022343	chromosome 9 open reading frame 19
9 PDLIM1	2.231	CLIM1; CLP36; ELFIN; CLP-36; hCLIM1	NM 020992	PDZ and LIM domain 1 (elfin)
GATA5	2.231	bB379O24.1	NM_020992 NM_080473	GATA binding protein 5
MYO3A	2.229	DFNB30	NM_017433	myosin IIIA
DIRC2	2.229	RCC4; FLJ14784	NM_032839	disrupted in renal carcinoma 2
PREX1	2.228	PREX1; KIAA1415	NM_020820	phosphatidylinositol 3,4,5-trisphosphate-dependent RAC
C6ORF1	2.228	HSPC265; MGC131656	NM 138493	exchanger 1 chromosome 6 open reading frame 129
29			_	
KRAS	2.222	NS3; KRAS1; KRAS2; RASK2; KI-RAS; C-K- RAS; K-RAS2A; K-RAS2B; K-RAS4A; K-	NM_004985	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
PLEKH	2.215	RAS4B DKFZP434I216; puratrophin1	NM_015432	pleckstrin homology domain containing, family G (with RhoGef
G4			_	domain) member 4
ARHGE F3	2.215	GEF3; STA3; XPLN; MGC118905; DKFZP434F2429	NM_019555	Rho guanine nucleotide exchange factor (GEF) 3
	2.214	FBP; FOLR; MOv18; FR-alpha	NM_016724	folate receptor 1 (adult)
FOLR1				
GADD4	2.214	DDIT1; GADD45	NM_001924	growth arrest and DNA-damage-inducible, alpha
	2.214	DDIT1; GADD45 HSD3; HSD-3.1; MGC102934;	NM_001924 NM_018418	growth arrest and DNA-damage-inducible, alpha spermatogenesis associated 7

	1	DKFZp686D07199	1	Г
CLDN23	2.207	CLDNL	NM 194284	claudin 23
SH3MD	2.206	POSH; RNF142; SH3MD2; FLJ21602; KIAA1494	NM 020870	SH3 domain containing ring finger 1
2		, , , , , , , , , , , , , , , , , , , ,		g g g
B3GAL	2.206	beta3GalT6	NM_080605	UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide 6
T6	2.400	I I I I	377.6.0010.63	
EGF	2.198	URG	NM_001963 NM_005740	epidermal growth factor (beta-urogastrone)
DNAL4	2.193	PIG27		dynein, axonemal, light chain 4
ENSA	2.193	MGC4319; MGC8394; MGC78563	NM_207168	endosulfine alpha
C21ORF 2	2.191	A2; YF5	NM_004928	chromosome 21 open reading frame 2
PNMA1	2.183	MA1	NM 006029	paraneoplastic antigen MA1
ARHGA	2.182	p73; FLJ33877; RC-GAP72; p73RhoGAP;	NM 001025	Rho GTPase activating protein 24
P24	2.102	DKFZP564B1162	616	Tallo of Faste activating protein 2 :
C6ORF2	2.182	FLJ12910; DKFZp566I174	NM 024573	chromosome 6 open reading frame 211
11		•	_	
SLC25A	2.177	CTLN2; CITRIN; ARALAR2	NM_014251	solute carrier family 25, member 13 (citrin)
13				
PPP1R3	2.172	GL; PPP1R4; FLJ14005	NM_024607	protein phosphatase 1, regulatory (inhibitor) subunit 3B
B SGPL1	2.168	SPL; FLJ13811; KIAA1252	NM 003901	sphingosine-1-phosphate lyase 1
MSMB	2.167	MSP; PSP; IGBF; MSPB; PN44; PRPS; PSP57;	NM 002443	microseminoprotein, beta-
WISIVID	2.107	PSP94; PSP-94	14141_002443	microseninoprotein, octa-
NFASC	2.164		NM 001005	
	_,,,,		389	
SH3BP4	2.16	TTP; BOG25	NM 014521	SH3-domain binding protein 4
CDH12	2.156	CDHB; FLJ34857	NM 004061	cadherin 12, type 2 (N-cadherin 2)
PTPLA	2.154	APOBEC3F	NM_014241	protein tyrosine phosphatase-like (proline instead of catalytic
				arginine), member A
NFATC	2.152	NFAT2; NFATc; NF-ATC; MGC138448	NM_172390	nuclear factor of activated T-cells, cytoplasmic, calcineurin-
1		any amp may = : = =	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	dependent 1
ZAP70	2.151	SRK; STD; TZK; ZAP-70	NM_207519	zeta-chain (TCR) associated protein kinase 70kDa
PIK3R5	2.15	FOAP-2; P101-PI3K; F730038I15Rik	NM_014308	phosphoinositide-3-kinase, regulatory subunit 5, p101
TEAD2	2.144	ETF; TEF4; TEF-4 KIAA0854	NM_003598	TEA domain family member 2 zinc fingers and homeoboxes 2
ZHX2 SEMA5	2.138	SemG; SEMAG; FLJ10372; KIAA1445	NM_014943 NM_001031	sema domain, seven thrombospondin repeats (type 1 and type 1-
SEMA5 B	2.130	Schio, SEIVIAO, FLJ105/2, KIAA1445	702	like), transmembrane domain (TM) and short cytoplasmic
			702	domain, (semaphorin) 5B
TM7SF2	2.135	ANG1; DHCR14A	NM 003273	transmembrane 7 superfamily member 2
LOC375	2.13	LOC375133	NM 199345	similar to phosphatidylinositol 4-kinase alpha
133			_	
DUSP18	2.128	DUSP20; LMWDSP20; MGC32658; bK963H5.1	NM_152511	dual specificity phosphatase 18
DSCR1L	2.127	RCN3; MCIP3; hRCN3	NM_013441	Down syndrome critical region gene 1-like 2
2				
PROS1	2.115	PSA; PROS; PS21; PS22; PS23; PS24; PS25; PS	NM_000313	protein S (alpha)
DDIA	2.115	26; Protein S; protein Sa	NIM 144562	allow for home between A (allow for home between income)
RPIA LCD6	2.115 2.114	RPI GPCR; FLJ14471; VTS20631	NM_144563 NM_001017	ribose 5-phosphate isomerase A (ribose 5-phosphate epimerase)
LGR6	2.114	GPCR, FLJ144/1, V1S20031	403	leucine-rich repeat-containing G protein-coupled receptor 6
RFWD2	2.112	COP1; RNF200; FLJ10416; RP11-318C24.3	NM 022457	ring finger and WD repeat domain 2
MGC26	2.102	MGC26885	NM_152339	chromosome 16 open reading frame 76
885	_,,,,			
PGM1	2.099	PGM1	NM_002633	phosphoglucomutase 1
CLCNK	2.098	CLCK1; ClC-K1; hClC-Ka; MGC61490	NM_004070	chloride channel Ka
A				
KLF6	2.098	GBF; ZF9; BCD1; CPBP; PAC1; ST12; COPEB;	NM_001300	Kruppel-like factor 6
1.00124	2 000	DKFZp686N0199	ND 4 145054	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LOC124 491	2.098	FLJ37611	NM_145254	transmembrane protein 170
REC8L1	2.088	REC8; Rec8p	NM 005132	REC8-like 1 (yeast)
DSP	2.088	DPI; DPII	NM 001008	Desmoplakin
DSI	2.007	Bri, Brii	844	Безпоршки
PLD5	2.087	FLJ40773; MGC120565; MGC120566;	NM_152666	phospholipase D family, member 5
		MGC120567		
SEMA5	2.08			phosphonpase 2 minny, memoer 3
		semF; SEMAF	NM_003966	sema domain, seven thrombospondin repeats (type 1 and type 1-
A		semF; SEMAF	NM_003966	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic
A			_	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A
A ENPEP	2.077	APA; CD249; gp160	NM_001977	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A)
A			_	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A
A ENPEP NEDD9	2.077 2.071	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1	NM_001977 NM_182966	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated
A ENPEP NEDD9 EFHD2	2.077 2.071 2.071	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3	NM_001977 NM_182966 NM_024329	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2
A ENPEP NEDD9 EFHD2 GUCA2	2.077 2.071	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1	NM_001977 NM_182966	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated
A ENPEP NEDD9 EFHD2 GUCA2 A	2.077 2.071 2.071 2.069	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3	NM_001977 NM_182966 NM_024329 NM_033553	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin)
A ENPEP NEDD9 EFHD2 GUCA2	2.077 2.071 2.071	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN	NM_001977 NM_182966 NM_024329	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS	2.077 2.071 2.071 2.069 2.064	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4	2.077 2.071 2.071 2.069 2.064 2.062	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_001202	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.062	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_01202 NM_015338 NM_007061	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.058	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_001202 NM_015338 NM_007061 NM_015954	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans)
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.066 2.058 2.058	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_015338 NM_007061 NM_015954 NM_020211	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A
ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.062 2.062 2.058 2.053 2.053	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161
ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.058 2.053 2.053 2.053	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_15382 NM_001259	sema domain, seven thrombospondin repeats (type 1 and type 1- like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.053 2.05 2.05	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_0020215 NM_01259 NM_001259	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.058 2.053 2.053 2.053	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288;	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_15382 NM_001259	sema domain, seven thrombospondin repeats (type 1 and type 1- like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.053 2.05 2.05	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869;	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_0020215 NM_01259 NM_001259	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.053 2.05 2.05 2.05 2.05	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zine finger CCCH-type, antiviral 1
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.053 2.05 2.05	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 PK3; PKM; TCB; OIP3; CTHBP; THBP1;	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_0020215 NM_01259 NM_001259	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2
ENPEP NEDD9 EFHD2 GUCA2 A BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1 PKM2	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.058 2.053 2.05 2.05 2.05 2.05 2.042	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119 NM_182470	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zinc finger CCCH-type, antiviral 1
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.053 2.05 2.05 2.05 2.05	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 PK3; PKM; TCB; OIP3; CTHBP; THBP1; MGC3932	NM_001977 NM_182966 NM_024329 NM_033553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zine finger CCCH-type, antiviral 1
ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1 PKM2 SERTA	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.058 2.053 2.05 2.05 2.05 2.05 2.042	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 PK3; PKM; TCB; OIP3; CTHBP; THBP1; MGC3932 RBT1 ANKHZN; ZFYVE14; KIAA1255;	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119 NM_182470	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zinc finger CCCH-type, antiviral 1
ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1 PKM2 SERTA D3 ANKFY 1	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.053 2.05 2.05 2.05 2.042 2.039 2.039	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORGS; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 PK3; PKM; TCB; OIP3; CTHBP; THBP1; MGC3932 RBT1 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119 NM_182470 NM_182470 NM_203344 NM_016376	sema domain, seven thrombospondin repeats (type 1 and type 1- like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zinc finger CCCH-type, antiviral 1 pyruvate kinase, muscle SERTA domain containing 3 ankyrin repeat and FYVE domain containing 1
ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1 PKM2 SERTA D3	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.05 2.05 2.05 2.042	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686019171 PK3; PKM; TCB; OIP3; CTHBP; THBP1; MGC3932 RBT1 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 ROR1; ROR2; ROR3; RZRA; NR1F1;	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119 NM_182470 NM_182470 NM_203344	sema domain, seven thrombospondin repeats (type 1 and type 1- like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zinc finger CCCH-type, antiviral 1 pyruvate kinase, muscle SERTA domain containing 3
A ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1 PKM2 SERTA D3 ANKFY 1 RORA	2.077 2.071 2.071 2.064 2.062 2.062 2.06 2.053 2.053 2.05 2.05 2.042 2.039 2.034	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686O19171 PK3; PKM; TCB; OIP3; CTHBP; THBP1; MGC3932 RBT1 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 ROR1; ROR2; ROR3; RZRA; NR1F1; MGC119326, MGC119329	NM_001977 NM_182966 NM_024329 NM_033553 NM_003553 NM_001202 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119 NM_182470 NM_182470 NM_203344 NM_016376 NM_002943	sema domain, seven thrombospondin repeats (type 1 and type 1- like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zinc finger CCCH-type, antiviral 1 pyruvate kinase, muscle SERTA domain containing 3 ankyrin repeat and FYVE domain containing 1 RAR-related orphan receptor A
ENPEP NEDD9 EFHD2 GUCA2 A PTMS BMP4 ASXL1 CDC42E P1 DERA RGMA GPR161 CDK6 PRG2 ZC3HA V1 PKM2 SERTA D3 ANKFY 1	2.077 2.071 2.071 2.069 2.064 2.062 2.062 2.06 2.053 2.053 2.053 2.05 2.05 2.05 2.042 2.039 2.039	APA; CD249; gp160 CASL; HEF1; CAS-L; dJ49G10.2; dJ76112.1 MGC4342; RP3-467K16.3 GUCA2; STARA; GUANYLIN PTMS ZYME; BMP2B; BMP2B1 KIAA0978; MGC71111; MGC117280 CEP1; BORG5; MSE55; MGC15316 DEOC; CGI-26 RGM RE2; FLJ33952 PLSTIRE; MGC59692 PRG2 ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288; MGC48898; DKFZp686F2052; DKFZp686H1869; DKFZp686019171 PK3; PKM; TCB; OIP3; CTHBP; THBP1; MGC3932 RBT1 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 ROR1; ROR2; ROR3; RZRA; NR1F1;	NM_001977 NM_182966 NM_024329 NM_033553 NM_002824 NM_015338 NM_007061 NM_015954 NM_020211 NM_153832 NM_001259 NM_024888 NM_020119 NM_182470 NM_182470 NM_203344 NM_016376	sema domain, seven thrombospondin repeats (type 1 and type 1- like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A glutamyl aminopeptidase (aminopeptidase A) neural precursor cell expressed, developmentally down-regulated 9 EF-hand domain family, member D2 guanylate cyclase activator 2A (guanylin) Parathymosin bone morphogenetic protein 4 additional sex combs like 1 (Drosophila) CDC42 effector protein (Rho GTPase binding) 1 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) RGM domain family, member A G protein-coupled receptor 161 cyclin-dependent kinase 6 plasticity-related gene 2 zinc finger CCCH-type, antiviral 1 pyruvate kinase, muscle SERTA domain containing 3 ankyrin repeat and FYVE domain containing 1

	1	NTDDaga 4		<u> </u>
LOC349	2.014	NTPDase-4 LOC349114	NM_198284	hypothetical protein LOC349114
114	2.01.	2003.5111	1111_170201	nyponiental protein 2003 1711
RXRA	2.009	NR2B1; MGC102720	NM_002957	retinoid X receptor, alpha
GTF2IR	2.005	GTF3; RBAP2; CREAM1; MUSTRD1;	NM_005685	GTF2I repeat domain containing 1
D1 CREBB	2.004	WBSCR11; WBSCR12; hMusTRD1alpha1 CBP; RTS; RSTS	NM 004380	CREB binding protein (Rubinstein-Taybi syndrome)
P	2.004	CBI, KIS, KSIS	1111_004300	CKED binding protein (Kubinstein Tuyor syndronic)
FRS3	2.001	SNT2; FRS2B; SNT-2; FRS2beta; MGC17167	NM_006653	fibroblast growth factor receptor substrate 3
LRRC56	1.998	FLJ00101; DKFZp761L1518	NM_198075	leucine rich repeat containing 56
EGLN3	1.997	PHD3; HIFPH3; FLJ21620; MGC125998; MGC125999	NM_022073	egl nine homolog 3 (C. elegans)
CHL1	1.987	CALL; L1CAM2; FLJ44930; MGC132578	NM_006614	cell adhesion molecule with homology to L1CAM (close
CHEI	1.507	CALL, ETCAM2, TEST4750, MGC152570	1111_000014	homolog of L1)
ZNF553	1.984	FLJ31751; MGC43952; DKFZp762K013	NM_152652	zinc finger protein 553
SALL4	1.977	DRRS; HSAL4; ZNF797; MGC133050;	NM_020436	sal-like 4 (Drosophila)
NELL1	1.976	dJ1112F19.1 NRP1; IDH3GL	NM 006157	NEL-like 1 (chicken)
TCN2	1.972	TC2; D22S676; D22S750	NM 000355	transcobalamin II; macrocytic anemia
LOC220	1.971	LOC220686	NM_199283	hypothetical protein LOC220686
686			_	31
ZNF114	1.969	MGC17986	NM_153608	zinc finger protein 114
ANKRD 13	1.965	ANKRD13; NY-REN-25	NM_033121	ankyrin repeat domain 13A
CDKN1	1.965	BWS; WBS; p57; BWCR; KIP2	NM 000076	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
C	1.703	BW5, WB5, p57, BWCK, KH2	1111_000070	cyclin dependent kindse minortor (c (p57, ktp2)
SCT	1.964	SCT	NM_021920	Secretin
C10ORF	1.954	FLJ37857	NM_194303	chromosome 10 open reading frame 39
39 KCNN1	1.947	SV1-bSV1-SVCA1-VC-2-1	NM 002249	notaccium intermediate/emall conductores calcium activ
KUNNI	1.94/	SK1; hSK1; SKCA1; KCa2.1	NM_002248	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1
DKFZP4	1.945	FLJ45937; DKFZp434I1020	NM_194295	chromosome 15 open reading frame 51
34I1020			_	
CDS2	1.944	STMN1	NM_003818	CDP-diacylglycerol synthase (phosphatidate cytidylyltransferase)
AQP11	1.94	AQPX1	NM 173039	2 aquaporin 11
C8ORF6	1.939	FLJ39417	NM 001034	chromosome 8 open reading frame 61
1	1.,,,,	12007117	061	emoniosome o open reading name or
TMEM2	1.939	TED; bB57D9.1	NM_015686	transmembrane protein 28
8	4.020	NGGGGGGG DYFFG 404F050	277.6.452.462	
PAPLN KIAA15	1.938 1.936	MGC50452; DKFZp434F053 MGC40476; DKFZp686A0439	NM_173462 NM_018330	papilin, proteoglycan-like sulfated glycoprotein KIAA1598
98	1.930	WGC40470, DK12p080A0439	NWI_018330	KIAA1370
BRDT	1.934	BRD6	NM_001726	bromodomain, testis-specific
FLNB	1.932	AOI; FH1; SCT; TAP; LRS1; TABP; FLN1L;	NM_001457	filamin B, beta (actin binding protein 278)
		ABP-278; filamin B; DKFZp686O033;		
PCYT2	1.93	DKFZp686A1668 ET	NM 002861	phosphate cytidylyltransferase 2, ethanolamine
I BRPF3	1.93	VKORC1L1	NM 015695	bromodomain and PHD finger containing, 3
BRPF3 SEC14L	1.93 1.927	VKORC1L1 SPF; TAP; TAP1; C22orf6; KIAA1186;	NM_015695 NM_012429	bromodomain and PHD finger containing, 3 SEC14-like 2 (S. cerevisiae)
SEC14L 2	1.927	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053	NM_012429	SEC14-like 2 (S. cerevisiae)
SEC14L 2 FLJ3593		SPF; TAP; TAP1; C22orf6; KIAA1186;		
SEC14L 2 FLJ3593 4	1.927 1.927	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934	NM_012429 NM_207453	SEC14-like 2 (S. cerevisiae) FLJ35934 protein
SEC14L 2 FLJ3593 4 FGF11	1.927 1.927 1.923	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953	NM_012429 NM_207453 NM_004112	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11
SEC14L 2 FLJ3593 4	1.927 1.927	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934	NM_012429 NM_207453	SEC14-like 2 (S. cerevisiae) FLJ35934 protein
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113	1.927 1.927 1.923	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5;	NM_012429 NM_207453 NM_004112	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179	1.927 1.927 1.923 1.92 1.919	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364	1.927 1.927 1.923 1.92 1.919	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54	1.927 1.927 1.923 1.92 1.919 1.918 1.916	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364	1.927 1.927 1.923 1.92 1.919	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912	SPF; TAP; TAP1; C22or16; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10or129; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001006 666	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912	SPF; TAP; TAP1; C22or16; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10or129; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001006 666 NM_206887	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_01642 NM_001642 NM_001006 666 NM_001006 666 NM_206887 NM_002868	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RABSB, member RAS oncogene family
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912	SPF; TAP; TAP1; C22or16; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10or129; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001006 666 NM_206887	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_01642 NM_001642 NM_001006 666 NM_001006 666 NM_206887 NM_002868	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RABSB, member RAS oncogene family
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1688; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPI5PIV; MGC117201	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_00106666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPP5E NCOA5	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.912 1.911 1.911 1.907	SPF; TAP; TAP1; C22or16; KIAA1186; KIAA1688; MGC65083 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10or129; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_20304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907	SPF; TAP; TAP1; C22orf6; KIAA1186; KIAA1688; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPI5PIV; MGC117201	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_00106666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPP5E NCOA5 TFG PPP1R1 5A	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 C1A; bA465L10.6 TF6; TRKT3 GADD34	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967 NM_006070 NM_014330	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 CIORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.911 1.907 1.905 1.901	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPI5PIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967 NM_006070	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.907 1.905 1.901 1.9	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FL35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001006 666 NM_206887 NM_005657 NM_144697 NM_019892 NM_009070 NM_014330 NM_014330 NM_017791	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.907 1.905 1.901 1.9 1.897	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FL35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_00106666 NM_206887 NM_002687 NM_005657 NM_144697 NM_019892 NM_019892 NM_009670 NM_014330 NM_017791 NM_017791	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.907 1.905 1.901 1.9	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FL35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001006 666 NM_206887 NM_005657 NM_144697 NM_019892 NM_009070 NM_014330 NM_014330 NM_017791	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPP5E NCOA5 TFG PPPP1R1 5A C14ORF 58 TMC6 C10ORF 125 C8ORF4	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.907 1.905 1.901 1.9 1.897	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FL35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_001642 NM_203304 NM_001606 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_02967 NM_014330 NM_017791 NM_017791 NM_07267 NM_198472 NM_001031	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOAS TFG PPP1R1 SA C14ORF 58 TTMC6 C10ORF 125 CSORF4	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FH3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC13179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_017791 NM_017891 NM_007267 NM_198472 NM_001031 839	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125 chromosome 8 open reading frame 49
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 CSORF4 9 CRMP1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.892	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1688; MGC65053 FLJ35934 FH3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC13179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_017991 NM_07267 NM_198472 NM_001031 NM_010313	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide- like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 49 collapsin response mediator protein 1
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RABSB TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 C8ORF4 9 CRMP1 LOC285	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FH3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC13179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_017791 NM_017891 NM_007267 NM_198472 NM_001031 839	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125 chromosome 8 open reading frame 49
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 CSORF4 9 CRMP1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.892	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1688; MGC65053 FLJ35934 FH3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC13179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_017991 NM_07267 NM_198472 NM_001031 NM_010313	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide- like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 49 collapsin response mediator protein 1
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RABSB TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 C8ORF4 9 CRMP1 LOC285 989 EFHD1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.892 1.886 1.884	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BPI; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZp781H0842	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_014330 NM_017791 NM_017791 NM_017791 NM_017791 NM_017791 NM_017791 NM_01731 NM_010318 NM_010313 NM_213603 NM_025202	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125 chromosome 8 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPP5E NCOA5 TFG PPPP1R1 5A C14ORF 58 TMC6 C10ORF 125 C8ORF4 9 CRMP1 LOC285 989 EFHD1	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.892 1.886 1.883 1.887	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FH3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZp781H0842 PRKCT; MGC145614; MGC141919; nPKC-theta	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001642 NM_203304 NM_005657 NM_02868 NM_005657 NM_144697 NM_019892 NM_02967 NM_014330 NM_017791 NM_017791 NM_017791 NM_017791 NM_007267 NM_198472 NM_001031 839 NM_001031 839 NM_01313 NM_213603 NM_025202 NM_006257	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125 chromosome 8 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1 protein kinase C, theta
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RABSB TP53BP 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 CSORF4 9 CRMP1 LOC285 989 EFHD1 PRKCQ NRCAM	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.892 1.886 1.884 1.883	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZP781H0842 PRKCT; MGC126514; MGC141919; nPKC-theta KIAA0343; MGC138845; MGC138846	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_01791 NM_017791 NM_017791 NM_0178472 NM_010311 NM_01313 NM_13603 NM_025202 NM_006257 NM_006057	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide- like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1 protein kinase C, theta neuronal cell adhesion molecule
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 CSORF4 9 CRMP1 LOC285 989 EFHD1 PRKCQ NRCAM ENO3	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.911 1.907 1.905 1.905 1.905 1.896 1.893 1.892 1.886 1.884 1.883 1.877 1.876 1.875	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1688; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZp781H0842 PRKCT; MGC126514; MGC141919; nPKC-theta KIAA0343; MGC138845; MGC138846 MSE	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_01791 NM_017791 NM_017791 NM_01791	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1 protein kinase C, theta neuronal cell adhesion molecule enolase 3 (beta, muscle)
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RABSB TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 C8ORF4 9 CRMP1 LOC285 989 EFHD1 PRKCQ NRCAM	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.892 1.886 1.884 1.883 1.877 1.876 1.875	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZP781H0842 PRKCT; MGC126514; MGC141919; nPKC-theta KIAA0343; MGC138845; MGC138846 MSE MDB; FLJ45954	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001642 NM_203304 NM_0016666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_014330 NM_017791 NM_017791 NM_017791 NM_07267 NM_198472 NM_001031 NM_01330 NM_01331 NM_213603 NM_025202 NM_006257 NM_006257 NM_006257 NM_001976 NM_001976 NM_001962	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125 chromosome 8 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1 protein kinase C, theta neuronal cell adhesion molecule enolase 3 (beta, muscle) active BCR-related gene
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOA5 TFG PPP1R1 5A C14ORF 58 TMC6 C10ORF 125 CSORF4 9 CRMP1 LOC285 989 EFHD1 PRKCQ NRCAM ENO3	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.911 1.907 1.905 1.905 1.905 1.896 1.893 1.892 1.886 1.884 1.883 1.877 1.876 1.875	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1688; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZp781H0842 PRKCT; MGC126514; MGC141919; nPKC-theta KIAA0343; MGC138845; MGC138846 MSE	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_002868 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_01791 NM_017791 NM_017791 NM_01791	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1 protein kinase C, theta neuronal cell adhesion molecule enolase 3 (beta, muscle)
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOAS TFG PPP1R1 5A C14ORF 58 TTMC6 C10ORF 125 C8ORF4 9 CRMP1 LOC285 989 EFHD1 PRKCQ NRCAM ENO3 ABR MBD2	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.886 1.884 1.883 1.877 1.876 1.875 1.875	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPH; APPL2; CDEBP TINO; RNF193; KIAA2031; OK/SW-el.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BPI; MGC138366 FLJ25889 PPISPIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZp781H0842 PRKCT; MGC126514; MGC141919; nPKC-theta KIAA0343; MGC138845; MGC138846 MSE MDB; FLJ45954 DMTase; NY-CO-41; DKFZp58600821 UNC89; FLJ14124; KIAA1556; MGC120409; MGC120410; MGC120411; MGC120412;	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_017791 NM_01791 NM_017791 NM_01791	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125 chromosome 8 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1 protein kinase C, theta neuronal cell adhesion molecule enolase 3 (beta, muscle) active BCR-related gene methyl-CpG binding domain protein 2
SEC14L 2 FLJ3593 4 FGF11 LOC555 65 LOC113 179 ZNF364 USP54 APLP2 RKHD1 APOBE C3F DSCAM RAB5B TP53BP 1 C1ORF5 1 INPPSE NCOAS TFG PPP1R1 5A C14ORF 58 TTMC6 C10ORF 125 C8ORF4 9 CRMP1 LOC285 989 EFHD1 PRKCQ NRCAM ENO3 ABR MBD2	1.927 1.927 1.923 1.92 1.919 1.918 1.916 1.916 1.915 1.912 1.912 1.911 1.911 1.907 1.905 1.901 1.9 1.897 1.896 1.893 1.886 1.884 1.883 1.877 1.876 1.875 1.875	SPF; TAP; TAPI; C22orf6; KIAA1186; KIAA1658; MGC65053 FLJ35934 FHF3; FLJ16061; MGC45269; MGC102953 LOC55565 LOC113179; FWP005; MST121; S863-5; MSTP121 RNF115 C10orf29; FLJ37318; bA137L10.3; bA137L10.4 APPI; APPL; CDEBP TINO; RNF193; KIAA2031; OK/SW-cl.4 KA6; ARP8; MGC74891; BK150C2.4.MRNA CHD2-42; CHD2-52 RAB5B p202; 53BP1; MGC138366 FLJ25889 PPI5PIV; MGC117201 CIA; bA465L10.6 TF6; TRKT3 GADD34 FLVCR2; FLJ20371 EV1; EVER1; EVIN1; LAK-4P FLJ26016 FLJ26016 FLJ30972 DRP1; DRP-1; DPYSL1 LOC285989 MST133; PP3051; MSTP133; FLJ13612; DKFZp781H0842 PRKCT; MGC126514; MGC141919; nPKC-theta KIAA0343; MGC138845; MGC138846 MSE MDB; FLJ45954 DMTase; NY-CO-41; DKFZp58600821 UNC89; FLJ14124; KIAA1556; MGC120409;	NM_012429 NM_207453 NM_004112 NM_017530 NM_138422 NM_014455 NM_152586 NM_01642 NM_203304 NM_001006 666 NM_206887 NM_005657 NM_144697 NM_019892 NM_020967 NM_014330 NM_017791 NM_017791 NM_01791 NM_017791 NM_01791	SEC14-like 2 (S. cerevisiae) FLJ35934 protein fibroblast growth factor 11 hypothetical protein LOC55565 hypothetical protein BC011824 zinc finger protein 364 ubiquitin specific peptidase 54 amyloid beta (A4) precursor-like protein 2 ring finger and KH domain containing 1 apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F Down syndrome cell adhesion molecule RAB5B, member RAS oncogene family tumor protein p53 binding protein, 1 chromosome 1 open reading frame 51 inositol polyphosphate-5-phosphatase, 72 kDa nuclear receptor coactivator 5 TRK-fused gene protein phosphatase 1, regulatory (inhibitor) subunit 15A chromosome 14 open reading frame 58 transmembrane channel-like 6 chromosome 10 open reading frame 125 chromosome 8 open reading frame 49 collapsin response mediator protein 1 zinc finger protein 789 EF-hand domain family, member D1 protein kinase C, theta neuronal cell adhesion molecule enolase 3 (beta, muscle) active BCR-related gene methyl-CpG binding domain protein 2

		1	1	
RNF165	1.866	RNF165	NM 152470	sing Sugar protain 165
FLJ3577	1.865	FLJ35773	NM_152599	ring finger protein 165 hypothetical protein FLJ35773
FLJ35// 3	1.805	FLJ357/3	NM_152599	nypotnetical protein FLJ357/3
LOC389	1.863	LOC389432	NM 001030	SAM domain containing 1
432	1.005	100367432	060	SAW domain containing 1
LOC388	1.861	LOC388886; MGC131773	NM 207644	similar to hypothetical protein LOC192734
886	1.001	20 03 00 000, 11 00 13 17 73	1111_207011	Similar to hypometrom protein 2001/2/31
VEZT	1.858	VEZATIN; DKFZp761C241	NM 017599	vezatin, adherens junctions transmembrane protein
ARID1A	1.853	B120; P270; BM029; BAF250; C1orf4; BAF250a;	NM 139135	AT rich interactive domain 1A (SWI- like)
		SMARCF1		(2)
SLC7A6	1.85	LAT3; LAT-2; y+LAT-2; KIAA0245;	NM_003983	solute carrier family 7 (cationic amino acid transporter, y+
		DKFZp686K15246	_	system), member 6
ZMYM3	1.85	MYM; XFIM; ZNF261; DXS6673E; KIAA0385;	NM_005096	zinc finger, MYM-type 3
		ZNF198L2	_	
SLC7A7	1.849	LPI; LAT3; Y+LAT1; y+LAT-1	NM_003982	solute carrier family 7 (cationic amino acid transporter, y+
		•	_	system), member 7
ABCA7	1.847	ABCX; ABCA-SSN; FLJ40025	NM_019112	ATP-binding cassette, sub-family A (ABC1), member 7
NCOA6	1.846	NRC; AIB3; ASC2; PRIP; TRBP; RAP250;	NM_014071	nuclear receptor coactivator 6
		KIAA0181		
ARHGE	1.846	ARGEF15; FLJ13791; KIAA0915; MGC44868;	NM_173728	Rho guanine nucleotide exchange factor (GEF) 15
F15		Vsm-RhoGEF		
MGC42	1.844		NM_175923	
630				
FARP1	1.837	CDEP; PLEKHC2; MGC87400	NM_001001	FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1
F37	4.5	TY MODES	715	(chondrocyte-derived)
FLJ1091	1.837	FLJ10916	NM_018271	hypothetical protein FLJ10916
6	4.6	PERM		D 145 00
REP15	1.835	REP15	NM_001029	Rab15 effector protein
HIP	1.024	DRI DDCD DVCD CTDDC CTT	874	in the state of the
JUP LOC128	1.834	DP3; PDGB; PKGB; CTNNG; DPIII	NM_002230	junction plakoglobin
LOC128	1.834	AKAP13	NM_139016	chromosome 20 open reading frame 198
439	1 924	CLC2: ECA2: EGI2: ECMA: CIC 2	NM 004266	chloride channel 2
CLCN2	1.834	CLC2; ECA3; EGI3; EGMA; CIC-2	NM_004366	
CRB3	1.831	DEFB106A	NM_139161	crumbs homolog 3 (Drosophila)
PDE6B	1.828	rd1; PDEB; CSNB3	NM_000283	phosphodiesterase 6B, cGMP-specific, rod, beta (congenital stationary night blindness 3, autosomal dominant)
DUSP5	1.825	DUSP; HVH3	NM 004419	dual specificity phosphatase 5
TNNT1	1.823	ANM; MGC104241	NM 003283	troponin T type 1 (skeletal, slow)
PIGQ	1.821	GPI1; hGPI1; MGC12693; c407A10.1	NM 004204	phosphatidylinositol glycan anchor biosynthesis, class Q
ZC3HA	1.821	ZAP; ZC3H2; FLB6421; ZC3HDC2; FLJ13288;	NM 024625	zinc finger CCCH-type, antiviral 1
V1	1.021	MGC48898; DKFZp686F2052; DKFZp686H1869;	NWI_024023	Zinc tinger CCCri-type, antivirai 1
V I		DKFZp686O19171		
HSPA1	1.82	HSP72; HSPA1; HSPA1B; HSP70-1	NM 005345	heat shock 70kDa protein 1A
A	1.02	1101 72, 1101 711, 1101 71113, 1101 70 1	1111_003343	near shock / okba protein 171
PPFIA1	1.819	LIP1; LIP.1; LIPRIN; MGC26800	NM_003626	protein tyrosine phosphatase, receptor type, f polypeptide
111111	1.017	En 1, En .1, En Kirt, MGC20000	1414_003020	(PTPRF), interacting protein (liprin), alpha 1
PCDHB	1.819	PCDH-BETA5; DKFZP586B0217	NM_015669	protocadherin beta 5
5	-10-27			P. C.
SERINC	1.819	TDE; TDE1; AIGP1; TMS-1; DIFF33; SBBI99	NM 006811	serine incorporator 3
3		, , , , , , , , , , , , , , , , , , , ,		
LOC400	1.816	LOC400657; FLJ10991	NM 001008	hypothetical gene supported by BC036588
657			234	
JMJD1A	1.814	TSGA; JMJD1; JHMD2A; KIAA0742;	NM_018433	jumonji domain containing 1A
		DKFZp686A24246; DKFZp686P07111	_	
RAD54L	1.814	HSPC325; FLJ21396; FLJ22400; KIAA0809;	NM_015106	RAD54-like 2 (S. cerevisiae)
2		SRISNF2L		
ZNF613	1.811	FLJ13590	NM_001031	zinc finger protein 613
			721	
SKI	1.811	SKV	NM_003036	v-ski sarcoma viral oncogene homolog (avian)
ENTPD1	1.81	CD39; ATPDase; NTPDase-1	NM_001776	ectonucleoside triphosphate diphosphohydrolase 1
DDX17	1.81	P72; RH70; DKFZp761H2016	NM_006386	DEAD (Asp-Glu-Ala-Asp) box polypeptide 17
MLCK	1.81	MLCK; MLCK2; MGC126319; MGC126320	NM_182493	MLCK protein
LOC283	1.81	LOC283537; FKSG16	NM_181785	hypothetical protein LOC283537
537	1.01	FI 114154	NIM 024045	homeshootical anatoin FL HA16A
FLJ1415	1.81	FLJ14154	NM_024845	hypothetical protein FLJ14154
AV AD12	1 000	DDV-IDC-HA 2-11421- a lbar AV AD II	NM 007200	A kinaga (PRVA) anahar metain 12
AKAP13	1.808	BRX; LBC; HA-3; Ht31; c-lbc; AKAP-Lbc; FLJ11952; FLJ43341; PROTO-LB; PROTO-LBC	1NIVI_00/200	A kinase (PRKA) anchor protein 13
TUBB3	1.806	MC1R; TUBB4; beta-4	NM 006086	tubulin, beta 3
GCH1	1.806	GCH; DYT5; GTPCH1; GTP-CH-1	NM 001024	GTP cyclohydrolase 1 (dopa-responsive dystonia)
JCIII	1.000	Gen, D115, G11cm, G1r-ciri	024	511 Cycloliyarolase 1 (dopa-responsive dystolila)
SLC25A	1.803	GC2	NM 031481	solute carrier family 25 (mitochondrial carrier), member 18
18	1.505		1051401	25 (miconomina carrer), memocr 10
LHFPL2	1.798	KIAA0206; DKFZp781E0375	NM 005779	lipoma HMGIC fusion partner-like 2
ITGB5	1.798	FLJ26658	NM 002213	integrin, beta 5
HYAL3	1.795	LUCA3; LUCA-3; LUCA14; Minna14	NM 003549	hyaluronoglucosaminidase 3
FAM105	1.792	FLJ34884	NM_138348	family with sequence similarity 105, member B
В				J
SUHW2	1.791	ZNF279; ZNF632; 5'OY11.1; D87009.C22.3	NM 080764	suppressor of hairy wing homolog 2 (Drosophila)
GAL3ST	1.789	FLJ12116; GAL3ST-4	NM_024637	galactose-3-O-sulfotransferase 4
4		·		
PER2	1.787	FASPS; KIAA0347	NM_022817	period homolog 2 (Drosophila)
CNNM1	1.782	ACDP1; FLJ31632	NM_020348	cyclin M1
C12ORF	1.781	FLJ21415	NM_024738	chromosome 12 open reading frame 49
49			_	
ATP12A	1.781	ATP1AL1	NM_001676	ATPase, H+/K+ transporting, nongastric, alpha polypeptide
ALDH2	1.779	ALDM; ALDHI; ALDH-E2; MGC1806	NM_000690	aldehyde dehydrogenase 2 family (mitochondrial)
DAPK1	1.778	DAPK; DKFZp781I035	NM_004938	death-associated protein kinase 1
GYPE	1.778	GPE; MNS; MiIX	NM_198682	glycophorin E
COL9A3	1.777	IDD; MED; EDM3; DJ885L7.4.1	NM 001853	collagen, type IX, alpha 3
BRD1	1.773	BRL; BRPF1; BRPF2; DKFZp686F0325	NM 014577	bromodomain containing 1
FOXI1	1.771	HFH3; FKHL10; FREAC6; MGC34197	NM_012188	forkhead box I1
EXOC6	1.766	SEC15L; Sec15p; FLJ1125; SEC15L1; FLJ11251;	NM_001013	exocyst complex component 6
		MGC33397; DKFZp761I2124	848	1
	1.764	MGC33547	NM 144661	chromosome 10 open reading frame 82
C10ORF	1./04			

82 ZNF694	1.759	ZSCAN31; FLJ23199	NM_001012	zinc finger protein 694
FOMIA	1.750	DIN	981	C 11 11 10
FOXJ2 FAM89	1.758	FHX MTVR1	NM_018416 NM_152832	forkhead box J2 family with sequence similarity 89, member B
В	1.730	WIIVKI	NWI_132832	ranniy with sequence sinnarity 89, member B
RAD51L 3	1.755	Trad; R51H3; HsTRAD; RAD51D	NM_002878	RAD51-like 3 (S. cerevisiae)
RASGR	1.755	V; RASGRP; hRasGRP1; MGC129998;	NM_005739	RAS guanyl releasing protein 1 (calcium and DAG-regulated)
P1 MCM8	1.754	MGC129999; CALDAG-GEFI; CALDAG-GEFII MGC4816; MGC12866; C20orf154; MGC119522;	NM_032485	MCM8 minichromosome maintenance deficient 8 (S. cerevisiae)
arr.	1.550	MGC119523; dJ967N21.5	373.6.022.50.5	
SELI	1.753	SELI; KIAA1724	NM_033505	selenoprotein I
OPLAH CPD 120	1.752	OPLA; 5-Opase; DKFZP434H244 FLJ14454; FLJ29035; MGC142011	NM_017570	5-oxoprolinase (ATP-hydrolysing) G protein-coupled receptor 128
GPR128 KIFC3	1.75	DKFZp686D23201	NM_032787 NM_005550	kinesin family member C3
DRD1IP	1.747	RP11-122K13.5	NM 015722	dopamine receptor D1 interacting protein
FLJ2522 2	1.742	FLJ25222	NM_199163	CXYorf1-related protein
DKFZP4 34A0131	1.741	DKFZP434A0131; MGC40269	NM_018991	DKFZp434A0131 protein
GALC	1.74	TRIM5	NM_000153	Galactosylceramidase
ITGA4	1.74	IA4; CD49D; MGC90518	NM_000885	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
C9ORF2	1.739	C9orf28; FLJ00001	NM_033446	family with sequence similarity 125, member B
PFKL	1.738	PFK-B; FLJ30173; DKFZp686G1648;	NM_002626	phosphofructokinase, liver
GPRC5	1.737	DKFZp686L2097 RAIG3; RAIG-3; MGC131820	NM_018653	G protein-coupled receptor, family C, group 5, member C
C LOC389	1.736	LOC389634	NM_001012	hypothetical LOC389634
634 TXNDC	1.735	NME8; SPTRX2; Sptrx-2	988 NM 016616	thioredoxin domain containing 3 (spermatozoa)
3		· · · · ·	_	
TMPRS S2	1.735	PRSS10	NM_005656	transmembrane protease, serine 2
TTC3	1.735	DCRR1; RNF105; TPRDIII; DKFZp686M0150	NM_003316	tetratricopeptide repeat domain 3 adenylate cyclase 8 (brain)
ADCY8 HTR1E	1.733	ADCY3; HBAC1	NM_001115	5-hydroxytryptamine (serotonin) receptor 1E
RALGD	1.731	5-HT1E RGF; RalGEF; FLJ20922	NM_000865 NM_006266	ral guanine nucleotide dissociation stimulator
S CRMP1	1.73	DRP1; DRP-1; DPYSL1	NM 001014	collapsin response mediator protein 1
NKX2-5	1.729	CSX; CSX1; NKX2E; NKX2.5	809 NM 004387	NK2 transcription factor related, locus 5 (Drosophila)
ZFPM1	1.728	FOG; FOG1; ZNF408; ZNF89A	NM 153813	zinc finger protein, multitype 1
CDK5R	1.728	p23; p25; p35; CDK5R; NCK5A; CDK5P35;	NM 003885	cyclin-dependent kinase 5, regulatory subunit 1 (p35)
1		MGC33831; p35nck5a	_	
ATP1B1	1.727	ATP1B; MGC1798	NM_001001 787	ATPase, Na+/K+ transporting, beta 1 polypeptide
TMEM9 7	1.726	MAC30	NM_014573	transmembrane protein 97
STK38	1.724	NDR; NDR1	NM_007271	serine/threonine kinase 38
DEIN				
RELN	1.724	RL	NM_005045	Reelin
ADNP	1.722	KIAA0784	NM_181442	activity-dependent neuroprotector
ADNP ZCCHC 12	1.722 1.72	KIAA0784 SIZN; FLJ16123	NM_181442 NM_173798	activity-dependent neuroprotector zinc finger, CCHC domain containing 12
ADNP ZCCHC 12 LYL1	1.722 1.72 1.719	KIAA0784 SIZN; FLJ16123 LYL1	NM 181442 NM_173798 NM_005583	activity-dependent neuroprotector zine finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1
ADNP ZCCHC 12 LYL1 TRIP10	1.722 1.72 1.719 1.719	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT	NM_181442 NM_173798 NM_005583 NM_004240	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A	1.722 1.72 1.719 1.719 1.718	KIAA0784 SIZN; FLJ16123 LYLI STP, CIP4; HSTP; STOT INPP4	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa
ADNP ZCCHC 12 LYL1 TRIP10	1.722 1.72 1.719 1.719	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049	activity-dependent neuroprotector zine finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005	1.722 1.72 1.719 1.719 1.718	KIAA0784 SIZN; FLJ16123 LYLI STP, CIP4; HSTP; STOT INPP4	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231	NM 181442 NM_173798 NM 005583 NM 004240 NM 001566 NM_019049 NM 000120 NM_014016	activity-dependent neuroprotector zine finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast)
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG	1.722 1.72 1.719 1.719 1.718 1.715	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX	NM 181442 NM_173798 NM 005583 NM_004240 NM 001566 NM_019049 NM 000120	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic)
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.705	KIAA0784 SIZN; FLJ16123 LYLI STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_00120 NM_014016 NM_004644 NM_007341	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.705	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_007341 NM_014328	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.705 1.704 1.703	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B	NM 181442 NM_173798 NM 005583 NM 004240 NM 001566 NM_019049 NM 000120 NM_014016 NM 004644 NM_007341 NM 014328 NM 138690	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.706 1.704 1.703 1.702	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_007341 NM_014328 NM_138690 NM_001024 215	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type 1, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863	1.722 1.72 1.719 1.719 1.719 1.718 1.715 1.715 1.708 1.706 1.705 1.704 1.703 1.702	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863	NM 181442 NM_173798 NM 005583 NM 004240 NM 001566 NM_019049 NM_014016 NM_004644 NM_007341 NM_014328 NM_138690 NM_001024 215 NM_203302	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase I, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.706 1.704 1.703 1.702	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_007341 NM_014328 NM_138690 NM_001024 215	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type 1, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8	1.722 1.72 1.719 1.719 1.718 1.715 1.715 1.708 1.706 1.705 1.704 1.703 1.702 1.7	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538	NM 181442 NM_173798 NM 005583 NM 004240 NM 001566 NM_019049 NM 000120 NM_014016 NM 004644 NM_007341 NM 014328 NM 138690 NM 001024 215_ NM_006225 NM_173564	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2	1.722 1.72 1.719 1.719 1.718 1.718 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.7	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_007341 NM_007341 NM_001024 215 NM_203302 NM_173564 NM_173564	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type 1, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_014016 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_173564 NM_201222 NM_201222	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2	1.722 1.72 1.719 1.719 1.718 1.718 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.7	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_007341 NM_007341 NM_001024 215 NM_203302 NM_173564 NM_173564	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type 1, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02	1.722 1.72 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_014016 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_173564 NM_201222 NM_201222	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase I, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32	1.722 1.72 1.719 1.719 1.718 1.718 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.7 1.699 1.698	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232	NM 181442 NM_173798 NM_005583 NM_004240 NM_01566 NM_019049 NM_014016 NM_014016 NM_007341 NM_007341 NM_001024 215 NM_203302 NM_006225 NM_173564 NM_201222 NM_201242 NM_014650 NM_014743	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158	1.722 1.72 1.719 1.719 1.719 1.718 1.715 1.708 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.7 1.699 1.699 1.698	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 I1B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_014016 NM_014016 NM_007341 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_006225 NM_173564 NM_201222 NM_014743 NM_014743 NM_014743 NM_014743 NM_014743 NM_001453 NM_001453 NM_001453 NM_001453 NM_001453	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila)
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318	1.722 1.72 1.719 1.719 1.719 1.718 1.715 1.708 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.699 1.699 1.697 1.697	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_014016 NM_014016 NM_014016 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_006225 NM_173564 NM_201222 NM_014520 NM_01453 NM_01453 NM_01453 NM_001453 NM_001024 008	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318 VENTX	1.722 1.72 1.719 1.719 1.719 1.719 1.7118 1.715 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.699 1.699 1.699 1.697 1.697	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1 NA88A; HPX42B; VENTX2; MGC119910; MGC119911	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_0014016 NM_014016 NM_014016 NM_007341 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_006225 NM_173564 NM_201222 NM_014743 NM_014743 NM_014743 NM_014743 NM_014743 NM_014743 NM_0147460 NM_001453 NM_001024 608 NM_014468	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FL120054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FL137538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FFLJ2005 4 EPHXI SACMI L AP3B2 SH3BG R RUSC1 GRIN3B FBLIIMI MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318 VENTX BMP5	1.722 1.72 1.719 1.719 1.719 1.718 1.715 1.708 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.699 1.699 1.697 1.697 1.696 1.696	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1 NA88A; HPX42B; VENTX2; MGC119910; MGC119911 MGC34244	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_0014016 NM_014016 NM_014016 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_006225 NM_173564 NM_201222 NM_014650 NM_014743 NM_014743 NM_01453 NM_001024 608 NM_010124 608 NM_011468	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1 VENT homeobox homolog (Xenopus laevis) bone morphogenetic protein 5
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACMI L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318 VENTX BMP5 SEMA6 C	1.722 1.72 1.719 1.719 1.719 1.719 1.7118 1.715 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.699 1.699 1.699 1.697 1.697 1.696 1.695 1.693	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC3386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1 NA88A; HPX42B; VENTX2; MGC119910; MGC149911 MGC34244 SEMAY; m-Sema Y; m-Sema Y2	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_014016 NM_014016 NM_014016 NM_014016 NM_007341 NM_021302 NM_006225 NM_173564 NM_201302 NM_014050 NM_014743 NM_021022 NM_01450 NM_014743 NM_01450 NM_014743	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1 VENT homeobox homolog (Xenopus laevis) bone morphogenetic protein 5 sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318 VENTX BMP5 SEMA6 C CACNA	1.722 1.72 1.719 1.719 1.719 1.718 1.715 1.708 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.699 1.699 1.697 1.697 1.696 1.696	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1 NA88A; HPX42B; VENTX2; MGC119910; MGC119911 MGC34244	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_0014016 NM_014016 NM_014016 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_006225 NM_173564 NM_201222 NM_014650 NM_014743 NM_014743 NM_01453 NM_001024 608 NM_010124 608 NM_011468	activity-dependent neuroprotector zine finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1 VENT homeobox homolog (Xenopus laevis) bone morphogenetic protein 5 sema domain, transmembrane domain (TM), and cytoplasmic
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318 VENTX BMP5 SEMA6 C	1.722 1.72 1.719 1.719 1.719 1.719 1.7118 1.715 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.699 1.699 1.699 1.697 1.697 1.696 1.695 1.693	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC3386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1 NA88A; HPX42B; VENTX2; MGC119910; MGC149911 MGC34244 SEMAY; m-Sema Y; m-Sema Y2	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_014016 NM_014016 NM_014016 NM_014016 NM_007341 NM_021302 NM_006225 NM_173564 NM_201302 NM_014050 NM_014743 NM_021022 NM_01450 NM_014743 NM_01450 NM_014743	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1 VENT homeobox homolog (Xenopus laevis) bone morphogenetic protein 5 sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FLJ2005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FLJ3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318 VENTX BMP5 SEMA6 C CACNA 1E	1.722 1.72 1.719 1.719 1.719 1.718 1.715 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.699 1.699 1.697 1.697 1.696 1.695 1.689	KIAA0784 SIZN; FLJ16123 LYL1 STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1 NA88A; HPX42B; VENTX2; MGC119910; MGC119911 MGC34244 SEMAY; m-Sema Y; m-Sema Y2 BII; CACH6; Cav2.3; CACNL1A6	NM 181442 NM_173798 NM_005583 NM_004220 NM_001566 NM_019049 NM_00120 NM_014016 NM_014016 NM_014016 NM_007341 NM_014328 NM_138690 NM_001024 215 NM_203302 NM_006225 NM_173564 NM_201222 NM_014743	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1 VENT homeobox homolog (Xenopus laevis) bone morphogenetic protein 5 sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C calcium channel, voltage-dependent, alpha 1E subunit
ADNP ZCCHC 12 LYL1 TRIP10 INPP4A FL12005 4 EPHX1 SACM1 L AP3B2 SH3BG R RUSC1 GRIN3B FBLIM1 MGC70 863 PLCD1 FL3753 8 MAGED 2 ZNF432 KIAA02 32 TLE6 FOXC1 LOC158 318 VENTX BMP5 SEMA6 C CACNA 1E JAG2	1.722 1.72 1.719 1.719 1.719 1.718 1.715 1.712 1.708 1.706 1.705 1.704 1.703 1.702 1.7 1.7 1.7 1.7 1.699 1.699 1.699 1.699 1.697 1.697 1.697 1.696 1.695 1.689 1.689	KIAA0784 SIZN; FLJ16123 LYLI STP; CIP4; HSTP; STOT INPP4 FLJ20054; DKFZp54700715 MEH; EPHX; EPOX SAC1; KIAA0851; DKFZp686A0231 NAPTB; DKFZp686D17136 21-GARP NESCA; DKFZp761A1822 NR3B CAL; FBLP1; FBLP-1; DKFZp434G171; RP11-169K16.5 MGC70863 NCOA3 FLJ37538 11B6; BCG1; HCA10; JCL-1; MAGED; MAGE-D2; MGC8386 ZNF432 KIAA0232 GRG6; FLJ14009; MGC14966 ARA; IGDA; IHG1; FKHL7; IRID1; FREAC3 FAM27E1 NA88A; HPX42B; VENTX2; MGC119910; MGC119911 MGC34244 SEMAY; m-Sema Y; m-Sema Y2 BII; CACH6; Cav2.3; CACNL1A6 HJ2	NM 181442 NM_173798 NM_005583 NM_004240 NM_001566 NM_019049 NM_014016 NM_014016 NM_014016 NM_014016 NM_021302 NM_02302 NM_020302 NM_020302 NM_01473564 NM_201222 NM_014650 NM_014743	activity-dependent neuroprotector zinc finger, CCHC domain containing 12 lymphoblastic leukemia derived sequence 1 thyroid hormone receptor interactor 10 inositol polyphosphate-4-phosphatase, type I, 107kDa hypothetical protein FLJ20054 epoxide hydrolase 1, microsomal (xenobiotic) SAC1 suppressor of actin mutations 1-like (yeast) adaptor-related protein complex 3, beta 2 subunit SH3 domain binding glutamic acid-rich protein RUN and SH3 domain containing 1 glutamate receptor, ionotropic, N-methyl-D-aspartate 3B filamin binding LIM protein 1 similar to RPL23AP7 protein phospholipase C, delta 1 hypothetical protein FLJ37538 melanoma antigen family D, 2 zinc finger protein 432 KIAA0232 gene product transducin-like enhancer of split 6 (E(sp1) homolog, Drosophila) forkhead box C1 family with sequence similarity 27, member E1 VENT homeobox homolog (Xenopus laevis) bone morphogenetic protein 5 sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6C calcium channel, voltage-dependent, alpha 1E subunit jagged 2

LZIC	1.68	MGC15436	NM_032368	leucine zipper and CTNNBIP1 domain containing
TRIM11	1.678	BIA1; RNF92	NM_145214	tripartite motif-containing 11
PPFIA4	1.678	PPFIA4	NM_015053	protein tyrosine phosphatase, receptor type, f polypeptide
ETDEED	1.677	IDAY DICAT IDAY D	NI 4 002221	(PTPRF), interacting protein (liprin), alpha 4
ITPKB	1.677	IP3K; PIG37; IP3K-B	NM_002221	inositol 1,4,5-trisphosphate 3-kinase B
LOH11C R2A	1.674	BCSC-1	NM_014622	loss of heterozygosity, 11, chromosomal region 2, gene A
ARHGA	1.671	CAMGAP1; FLJ43547; MGC120624	NM 199282	Rho GTPase activating protein 27
P27	1.0/1	CAMGAP1, PLJ45547, MGC120024	NWI_199282	Kilo G Frase activating protein 27
MLLT10	1.67	AF10; MGC75086; DKFZp686E10210	NM 004641	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog,
WILLITO	1.07	Al 10, MGC/5000, DKI Zp000E10210	14141_004041	Drosophila); translocated to, 10
ZDHHC	1.668	ZNF372	NM 016353	zinc finger, DHHC-type containing 2
2	1.000	ZIVI 3/2	14WI_010333	Zine iniger, Diffic-type containing 2
SLPI	1.667	ALP; MPI; ALK1; BLPI; HUSI; WAP4; WFDC4;	NM 003064	secretory leukocyte peptidase inhibitor
SLII	1.007	HUSI-I	1111_003004	secretory reakoeyte peptidase inmotion
PLOD2	1.664	LH2; TLH	NM 182943	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2
TNFRSF	1.664		NM 148973	
25	1.001		1111_110775	
THRAP	1.663	MED13L; FLJ21627; KIAA1025; TRAP240L;	NM 015335	thyroid hormone receptor associated protein 2
2		PROSIT240; DKFZp781D0112	_	
C14ORF	1.662	C14orf79	NM_174891	chromosome 14 open reading frame 79
79				
JUND	1.661	JUND	NM_005354	jun D proto-oncogene
HYPB	1.661		NM_012271	
TLE1	1.658	ESG; ESG1; GRG1	NM_005077	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)
C1ORF1	1.658	FLJ11588	NM_024603	chromosome 1 open reading frame 165
65			_	
C8ORF4	1.655		NM_001007	
8			090	
NME5	1.655	NM23H5; NM23-H5	NM_003551	non-metastatic cells 5, protein expressed in (nucleoside-
	L		L	diphosphate kinase)
NCOA1	1.654	SRC1; NCoA-1; RIP160; F-SRC-1; MGC129719;	NM_147223	nuclear receptor coactivator 1
DDD1F-	1.000	MGC129720	ND 6 000000	
PPP1R3	1.654	Hb2E	NM_033215	protein phosphatase 1, regulatory (inhibitor) subunit 3F
F	1.652	LOC10/752, ELI24202	NIM COLORS	similar to CC22542 DA
LOC196	1.652	LOC196752; FLJ34302	NM_001010	similar to CG32542-PA
752 TBL2	1.651		864	
MTNR1	1.649	MT1; MEL-1A-R	NM_032988 NM_005958	moletonia recentor 1 A
A	1.049	MIII, MEL-IA-K	NWI_003938	melatonin receptor 1A
KIAA20	1.649	FLJ20366	NM 001017	KIAA2026
26	1.049	FL320300	969	KIAA2020
RTN1	1.648	NSP; MGC133250	NM 206857	reticulon 1
ACVR2	1.647	ActR-IIB; MGC116908	NM 001106	activin A receptor, type IIB
B	1.047	Activities, Mide 110700	1414_001100	activiti it receptor, type IIB
GCGR	1.645	GGR; MGC138246	NM 000160	glucagon receptor
UBE2Q1	1.644	GTAP; UBE2Q; NICE-5; PRO3094	NM 017582	ubiquitin-conjugating enzyme E2Q (putative) 1
ARSD	1.642	ARSD	NM 009589	arylsulfatase D
KCNJ13	1.642	KIR1.4; KIR7.1; MGC33328	NM 002242	potassium inwardly-rectifying channel, subfamily J, member 13
LBH	1.642	LBH; MGC104312; DKFZP566J091	NM 030915	hypothetical protein DKFZp566J091
CECR6	1.642	GATS	NM 031890	cat eye syndrome chromosome region, candidate 6
SUHW1	1.641	ZNF280; ZNF636; 3'OY11.1	NM 080740	suppressor of hairy wing homolog 1 (Drosophila)
PTPN13	1.64	PNP1; FAP-1; PTP1E; PTPL1; PTPLE; PTP-BL;	NM 080685	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95
		PTP-BAS; DKFZp686J1497	_	(Fas)-associated phosphatase)
FLJ1654	1.639	FLJ16542; FLJ34141	NM_001004	FLJ16542 protein
2			301	
LAPTM	1.639	MBNT; Mtrp; LAPTM4; HUMORF13; KIAA0108	NM_014713	lysosomal-associated protein transmembrane 4 alpha
4A				
PLA2G4	1.638	FLJ42498; HsT16992; cPLA2-beta	NM_005090	phospholipase A2, group IVB (cytosolic)
В				
CA9	1.636	MN; CAIX	NM_001216	carbonic anhydrase IX
ZNF578	1.635		NM_152472	
PIK3R1	1.633	GRB1; p85-ALPHA	NM_181504	phosphoinositide-3-kinase, regulatory subunit 1 (p85 alpha)
NCAM1	1.629	CD56; NCAM; MSK39	NM_181351	neural cell adhesion molecule 1
L1CAM	1.628	S10; HSAS; MASA; MIC5; SPG1; CAML1;	NM_000425	L1 cell adhesion molecule
mp		CD171; HSAS1; N-CAML1		
TBL1X	1.628	C21; DC42; IRA1; TBLR1; FLJ12894	NM_024665	transducin (beta)-like 1X-linked receptor 1
R1	1.627	DD, DD1, CACNCS	NIM 102240	
TMEM3	1.627	PR; PR1; CACNG5	NM_183240	transmembrane protein 37
7 TMPO	1.627	TP; LAP2; CMD1T; PRO0868; MGC61508	NM 003276	Thymonojotin
C1ORF1	1.627	FLJ32096	NM_003276 NM_173795	Thymopoietin chromosome 1 open reading frame 188
88	1.02/	1 LN J2U7U	INIVI_1/3/93	chromosome i open reading traine 100
IGSF3	1.626	V8; EWI-3; MGC117164	NM 001542	immunoglobulin superfamily, member 3
DGKB	1.626	DGK; DAGK2; DGK-BETA; KIAA0718	NM 004080	diacylglycerol kinase, beta 90kDa
ZNF653	1.626	ZIP67; E430039K05Rik	NM_138783	zinc finger protein 653
MGC13	1.626	MGC13138	NM_033410	zinc finger protein 653
138	1.020		1055410	
PCBD1	1.625		NM 001001	
			939	
CENTA	1.625	cent-b; HSA272195	NM_018404	centaurin, alpha 2
2	1			
ZNF701	1.624	FLJ10891	NM_018260	zinc finger protein 701
ELF1	1.624	ELF1	NM_172373	E74-like factor 1 (ets domain transcription factor)
CAMK1	1.623	CAMKI; MGC120317; MGC120318	NM_003656	calcium/calmodulin-dependent protein kinase I
GAL3ST	1.622	CST	NM_004861	galactose-3-O-sulfotransferase 1
1				
TIGD5	1.622	FLJ14926; MGC44883	NM_032862	tigger transposable element derived 5
DOPEY	1.622	FLJ35610; KIAA1117; dJ202D23.2	NM_015018	dopey family member 1
1	<u></u>			· · · · · · · · · · · · · · · · · ·
	1.62	VIT1; FBX11; PRMT9; FLJ12673; MGC44383;	NM_018693	F-box protein 11
FBXO11	1.02		_	1
FBXO11		UG063H01		
MGC52	1.62	MGC52000; CXYorf1; MGC90409; MGC104889;	NM_198943	CXYorf1-related protein
MGC52 000	1.62	MGC52000; CXYorf1; MGC90409; MGC104889; MGC111476; MGC117230	_	
MGC52 000 ADD3	1.62	MGC52000; CXYorf1; MGC90409; MGC104889; MGC111476; MGC117230 ADDL	NM_016824	adducin 3 (gamma)
MGC52 000	1.62	MGC52000; CXYorf1; MGC90409; MGC104889; MGC111476; MGC117230	_	

0.0		1	1	T
82 LOC113 386	1.617	LOC113386; FLJ44718; FLJ46452	NM_138781	similar to envelope protein
	1.617	ZNIE240. ZNIE l	NIM 006777	-i 6
ZBTB33	1.617	ZNF348; ZNF-kaiso	NM_006777	zinc finger and BTB domain containing 33
TGIF	1.616	HPE4; MGC5066; MGC39747	NM_003244	TGFB-induced factor (TALE family homeobox)
ZNF14	1.616	KOX6; GIOT-4	NM_021030	zinc finger protein 14
MYT1	1.615	MTF1; MYTI; PLPB1; C20orf36	NM_004535	myelin transcription factor 1
COL4A2	1.615	FLJ22259; DKFZp686I14213	NM_001846	collagen, type IV, alpha 2
B3GNT5	1.615	B3GN-T5; beta3Gn-T5	NM_032047	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase
TNFRSF 13B	1.614	CVID; TACI; CD267; FLJ39942; MGC39952; MGC133214; TNFRSF14B	NM_012452	tumor necrosis factor receptor superfamily, member 13B
CLDN11	1.614	OSP; OTM	NM 005602	claudin 11 (oligodendrocyte transmembrane protein)
KLKB1	1.614	KLK3	NM 000892	kallikrein B, plasma (Fletcher factor) 1
CEP192	1.612	CEP192	NM 032142	centrosomal protein 192kDa
RGS19	1.61	GAIP; RGSGAIP	NM 005873	regulator of G-protein signalling 19
DMTF1	1.606	DMP1; DMTF; hDMP1; FLJ41265	NM_021145	cyclin D binding myb-like transcription factor 1
HNF4A	1.604	TCF; HNF4; MODY; MODY1; NR2A1; TCF14; HNF4a7; HNF4a8; HNF4a9; NR2A21; FLJ39654	NM_178850	hepatocyte nuclear factor 4, alpha
RTKN	1.604	AURKA	NM_001015 055	Rhotekin
TOMM7 0A	1.603	FLJ90470	NM_014820	translocase of outer mitochondrial membrane 70 homolog A (S. cerevisiae)
FLJ3959 9	1.603	MLPH1; MLPH2; FLJ39599; MGC70356	NM_173803	MPV17 mitochondrial membrane protein-like
S100A1 3	1.6	S100A13	NM_001024 212	S100 calcium binding protein A13
C1ORF5	1.599	LOC554235	NM_001024 594	chromosome 1 open reading frame 53
LOC128 977	1.597	LOC128977; MGC74441	NM_173793	hypothetical protein LOC128977
CACNA 1H	1.595	CACNA1HB; FLJ90484	NM_021098	calcium channel, voltage-dependent, alpha 1H subunit
FGFRL1	1.592	FHFR; FGFR5	NM_001004 358	fibroblast growth factor receptor-like 1
P2RY11	1.591	P2Y11	NM_002566	purinergic receptor P2Y, G-protein coupled, 11
DIP	1.588	DIP; KIAA0767; MGC90497; dA59H18.1;	NM 015124	death-inducing-protein
511	1.500	dJ439F8.1	1111_015121	dean madeing protein
STK36	1.587	FU; KIAA1278; DKFZp434N0223	NM 015690	serine/threonine kinase 36 (fused homolog, Drosophila)
NIPSNA	1.585	HSPC299; FLJ13953; MGC14553;	NM 015469	nipsnap homolog 3A (C. elegans)
P3A	1.505	DKFZp564D177	NIVI_013409	inpanap nomotog 3A (C. cicgans)
EXOC7	1.585	EX070; EXO70; EXOC1; 2-5-3p; Exo70p; YJL085W; FLJ46415; DKFZp686J04253	NM_015219	exocyst complex component 7
DDEFL1	1.585	UPLC1; FLJ20199	NM 017707	development and differentiation enhancing factor-like 1
NEO1			NM 002499	
	1.584	NGN; HsT17534		neogenin homolog 1 (chicken)
LOC388	1.583	FLJ13094; FLJ34211	NM_213607	coiled-coil domain containing 103
DYRK1 B	1.582	MIRK	NM_006484	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B
DUSP8	1.50	LIDE, HATIO, HATI E	NM 004420	1-1if-it10
	1.58	HB5; HVH8; HVH-5		dual specificity phosphatase 8
CSNK2	1.578	CKII; CK2A1; CKII alpha	NM_177559	casein kinase 2, alpha 1 polypeptide
A1				
ZNF91	1.578	HPF7; HTF10	NM_003430	zinc finger protein 91
SEMA3	1.577	SEMA4; SEMAK; SEMA-IV; sema IV	NM_004186	sema domain, immunoglobulin domain (Ig), short basic domain,
F				secreted, (semaphorin) 3F
POGK	1.575	BASS2; LST003; KIAA1513; KIAA15131	NM_017542	pogo transposable element with KRAB domain
C15ORF	1.572	FLJ46337; MGC117209; DKFZP434H132	NM 015492	chromosome 15 open reading frame 39
39				5
SMAD5	1.571	Dwfc; JV5-1; MADH5; DKFZp781C1895;	NM 005903	SMAD, mothers against DPP homolog 5 (Drosophila)
		DKFZp781O1323		
KIAA19	1.568	,	NM_032874	
ATP8A1	1 569	ATPIA; ATPP2; ATPASEII; MGC26327;	NM_006095	ATPage aminophospholipid transporter (ADLT) Class I torre
AIP8AI	1.568		14141_000093	ATPase, aminophospholipid transporter (APLT), Class I, type
I D 402	1.557	MGC130042; MGC130043	NIM OLEGOGO	8A, member 1
LIMS2	1.567	PINCH-2; FLJ10044	NM_017980	LIM and senescent cell antigen-like domains 2
POGZ	1.567	SUHW5; ZNF635; KIAA0461; MGC71543	NM_145796	pogo transposable element with ZNF domain
NUDT1	1.566	FLJ22494	NM_024815	nudix (nucleoside diphosphate linked moiety X)-type motif 18
8	<u> </u>		<u> </u>	
ZNF42	1.565	MZF-1; MZF1B; ZNF42; Zfp98; ZSCAN6	NM_198055	myeloid zinc finger 1
ZNF236	1.561	ZNF236A; ZNF236B	NM_007345	zinc finger protein 236
ZNF627	1.56	FLJ90365	NM_145295	zinc finger protein 627
GBGT1	1.56	FS; A3GALNT; UNQ2513; MGC44848; RP11-	NM_021996	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1
	1	326L24.6		
ZNF24	1.56	KOX17; RSG-A; ZNF191; ZSCAN3; Zfp191	NM 006965	zinc finger protein 24
RBM15	1.56	OTT3; HUMAGCGB	NM 013286	RNA binding motif protein 15B
В		-,		
LOC400 509	1.559	ETV2	NM_001012 391	RUN domain containing 2B
SLC16A	1.558	MCT3; MCT4; MGC138472; MGC138474	NM_004207	solute carrier family 16, member 3 (monocarboxylic acid transporter 4)
PLXNA	1.555	6.3; SEX; PLXN3; PLXN4; XAP-6;	NM 017514	plexin A3
3		HSSEXGENE; PLEXIN-A3	_	•
NOTUM	1.555	HMGA1	NM_178493	notum pectinacetylesterase homolog (Drosophila)
CRAMP	1.555	TCE4	NM_020825	Crm, cramped-like (Drosophila)
1L PPP1R1	1.551	CPI-17; PPP1INL	NM_033256	protein phosphatase 1, regulatory (inhibitor) subunit 14A
4A KIAA09	1.551	KIAA0999; L19; FLJ12240	NM_025164	KIAA0999 protein
99 ZNF438	1.551	FLJ32761; MGC126671; bA330O11.1; RP11-	NM 182755	zinc finger protein 438
SRF	1.55	330011.1 SRF	NM_003131	serum response factor (c-fos serum response element-binding
DKFZP7	1.55	FLJ36794; DKFZp727G131	NM_145111	transcription factor) chromosome 7 open reading frame 38
27G131 MAGI3	1.548	MAGI-3; dJ730K3.2; RP4-730K3.1	NM_143111 NM_020965	membrane associated guanylate kinase, WW and PDZ domain
IVIAUIS	1.340	1.CAUC.1 W 1.30KJ.2, KF4-130KJ.1	11111_020903	memorane associated guanyiate kinase, w w and PDZ domain

Mark	1.510		277.6.000.440	containing 3
MCART 1	1.548	CG7943; MGC14836	NM_033412	mitochondrial carrier triple repeat 1
S100A8	1.546	P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG	NM_002964	S100 calcium binding protein A8
MTA2	1.546	PID; MTA1L1; DKFZp686F2281	NM_004739	metastasis associated 1 family, member 2
ANXA2	1.545	P36; ANX2; LIP2; LPC2; CAL1H; LPC2D; ANX2L4; PAP-IV	NM_001002 857	annexin A2
NKIRAS	1.543	KBRAS2; MGC74742; kappaB-Ras2;	NM_017595	NFKB inhibitor interacting Ras-like 2
NTN4	1.543	DKFZP434N1526 PRO3091; FLJ23180	NM 021229	netrin 4
C17ORF 68	1.543	FLJ22170; MGC133331	NM_025099	chromosome 17 open reading frame 68
DDX31	1.539	FLJ13633; FLJ14578; FLJ23349; helicain A; helicain B; helicain C	NM_022779	DEAD (Asp-Glu-Ala-Asp) box polypeptide 31
PCNT2 SLC6A9	1.539 1.536	KEN; PCN; PCNT2; PCNTB; PCTN2 GLYT1; DKFZp547A1118	NM_006031 NM_006934	pericentrin (kendrin) solute carrier family 6 (neurotransmitter transporter, glycine), member 9
SMG7	1.535	EST1C; SMG-7; SGA56M; C1orf16; FLJ23717; KIAA0250	NM_014837	Smg-7 homolog, nonsense mediated mRNA decay factor (C. elegans)
C1ORF1 31	1.534	DKFZp547B1713	NM_152379	chromosome 1 open reading frame 131
LOC158 160	1.533		NM_001031 744	
ALPP	1.532	ALP; PLAP	NM 001632	alkaline phosphatase, placental (Regan isozyme)
B3GNT4	1.531	B3GN-T4; beta3Gn-T4	NM_030765	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase
ELAVL 1	1.53	HUR; Hua; MelG; ELAV1	NM_001419	ELAV (embryonic lethal, abnormal vision, Drosophila)-like 1 (Hu antigen R)
NIPA1	1.529	FSP3; SPG6; MGC35570; MGC102724	NM_144599	non imprinted in Prader-Willi/Angelman syndrome 1
MAFG	1.529	MGC13090; MGC20149	NM_002359	v-maf musculoaponeurotic fibrosarcoma oncogene homolog G (avian)
CNN2	1.528	WDR18	NM_201277	calponin 2
ZNF703 PPP1R1	1.528 1.526	ZNF503L; FLJ14299 FB19; CAT53; PNUTS	NM_025069 NM_002714	zinc finger protein 703 protein phosphatase 1, regulatory subunit 10
0			_	
ZNF499 GYS1	1.525 1.524	FLJ14486; DKFZp547H249 GSY; GYS	NM_032792 NM_002103	zinc finger protein 499 glycogen synthase 1 (muscle)
ELMO3	1.523	CED12; CED-12; ELMO-3; FLJ13824	NM 024712	engulfment and cell motility 3
UNQ467	1.522	UNQ467	NM_207392	KIPV467
SSTR2 PPP1R1	1.522 1.52	SSTR2 MYPT3; MGC14333	NM_001050 NM_032902	somatostatin receptor 2 protein phosphatase 1, regulatory (inhibitor) subunit 16A
6A TULP4	1.518	TUSP; KIAA1397; RP3-442A17.1	NM 020245	tubby like protein 4
HRASL	1.518	HRLP5	NM_054108	HRAS-like suppressor family, member 5
S5 LSR	1.517	LISCH7; MGC10659; MGC48312; MGC48503	NM 015925	lipolysis stimulated lipoprotein receptor
LDLRA D3	1.517	SLC41A1	NM_174902	low density lipoprotein receptor class A domain containing 3
PRSS8	1.516	CAP1; PROSTASIN	NM 002773	protease, serine, 8 (prostasin)
KCNH3	1.515	BEC1; ELK2; Kv12.2; KIAA1282	NM_012284	potassium voltage-gated channel, subfamily H (eag-related), member 3
GGTL3	1.514	and as my my mage	NM_178025	W. 14000
C6ORF8 4	1.513	QN1; C6orf84; FLJ13551	NM_014895	KIAA1009
PLXNB 1	1.512	SEP; PLXN5; KIAA0407; PLEXIN-B1	NM_002673	plexin B1
PHF23 MGC70	1.511 1.51	MGC2941; FLJ16355; FLJ22884; hJUNE-1b MGC70863	NM_024297 NM_203477	PHD finger protein 23 similar to RPL23AP7 protein
MGC70 863	1.51	MGC70863	NM_203477	similar to RPL23AP7 protein
MGC70				
MGC70 863 MGC10 992 FAM103 A1	1.51 1.51 1.51	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778	NM_203477 NM_033212 NM_031452	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23	1.51	MGC70863 MGC10992; MGC13119	NM_203477 NM_033212	similar to RPL23AP7 protein coiled-coil domain containing 102A
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339	1.51 1.51 1.51 1.509	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF	1.51 1.51 1.51 1.509 1.508	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3	1.51 1.51 1.51 1.509 1.508 1.507 1.506	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264	1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.506	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.505	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.505 1.502	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_013377	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.502 1.502	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_014580 NM_005207	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL HYOU1	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.505 1.502	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_013377	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC28 CRKL HYOU1	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.502 1.502 1.502	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL ORP150; DKFZp686N08236	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_003417 NM_024841 NM_013377 NM_014580 NM_005207 NM_006389	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like hypoxia up-regulated 1
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL HYOU1 APOLD 1 RABSIL 1 RABSIL 1	1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.502 1.502 1.502 1.502 1.501 1.498	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL ORP150; DKFZp686N08236 FLJ25138; DKFZP434F0318	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_014580 NM_005207 NM_006389 NM_030817	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like hypoxia up-regulated 1 apolipoprotein L domain containing 1
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL HYOU1 APOLD 1 RAB3IL	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.506 1.505 1.502 1.502 1.502 1.502 1.498	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL ORP150; DKFZp686N08236 FLJ25138; DKFZP434F0318 GRAB	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_182558 NM_03417 NM_024841 NM_013377 NM_06389 NM_030817 NM_013401	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like hypoxia up-regulated 1 apolipoprotein L domain containing 1 RAB3A interacting protein (rabin3)-like 1
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL HYOUI APOLD 1 RAB3IL 1 ZFAND 2B	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.502 1.502 1.502 1.501 1.498	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL ORP150; DKFZp686N08236 FLJ25138; DKFZP434F0318 GRAB CHFR	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_014580 NM_005207 NM_006389 NM_030817 NM_013401 NM_138802	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like hypoxia up-regulated 1 apolipoprotein L domain containing 1 RAB3A interacting protein (rabin3)-like 1 zinc finger, AN1-type domain 2B
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A C120RF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL HYOU1 APOLD 1 RAB3IL 1 RAB3IL 1 ZFAND 2 SBPL6 C10RF 102 HRAS	1.51 1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.502 1.502 1.502 1.501 1.498 1.497 1.494 1.494	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL ORP150; DKFZp686N08236 FLJ25138; DKFZP434F0318 GRAB CHFR ORP6; FLJ36583; MGC59642 NOR1; OSCP1; MGC26685 HRAS1; K-ras; N-ras; RASH1; c-bas/has	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_014580 NM_005207 NM_006389 NM_030817 NM_013401 NM_138802 NM_138802 NM_145739 NM_206837 NM_176795	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like hypoxia up-regulated 1 apolipoprotein L domain containing 1 RAB3A interacting protein (rabin3)-like 1 zinc finger, AN1-type domain 2B oxysterol binding protein-like 6 chromosome 1 open reading frame 102 v-Ha-ras Harvey rat sarcoma viral oncogene homolog
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL HYOU1 APOLD 1 RAB3IL 1 ZFAND 2B SPL6 C1ORF1 02 RPH3A L	1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.502 1.502 1.502 1.501 1.498 1.497 1.494 1.494 1.494 1.493	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL ORP150; DKFZp686N08236 FLJ25138; DKFZP434F0318 GRAB CHFR ORP6; FLJ36583; MGC59642 NOR1; OSCP1; MGC26685 HRAS1; K-ras; N-ras; RASH1; c-bas/has NOC2	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_014580 NM_005207 NM_006389 NM_030817 NM_013401 NM_138802 NM_138802 NM_145739 NM_206837 NM_176795 NM_006987	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like hypoxia up-regulated 1 apolipoprotein L domain containing 1 RAB3A interacting protein (rabin3)-like 1 zinc finger, AN1-type domain 2B oxysterol binding protein-like 6 chromosome 1 open reading frame 102 v-Ha-ras Harvey rat sarcoma viral oncogene homolog rabphilin 3A-like (without C2 domains)
MGC70 863 MGC10 992 FAM103 A1 ZNF200 MMP23 A LOC339 344 C12ORF 36 WDFY3 ZNF264 FLJ1421 3 PDZRN 4 SLC2A8 CRKL HYOU1 APOLD 1 RAB3IL 1 ZFAND 2 SBPL6 C1ORF1 02 HRAS RPH3A	1.51 1.51 1.51 1.51 1.509 1.508 1.507 1.506 1.506 1.505 1.505 1.502 1.502 1.502 1.501 1.498 1.497 1.494 1.494	MGC70863 MGC10992; MGC13119 MGC2560; C15orf18; HsT19360; MGC102778 MGC45293 LOC339344 FLJ33810; MGC120140 ALFY; ZFYVE25; KIAA0993; MGC16461 KIF1B FLJ14213; MGC16218 LNX4; SAMCAP3L GLUT8; GLUTX1 CRKL ORP150; DKFZp686N08236 FLJ25138; DKFZP434F0318 GRAB CHFR ORP6; FLJ36583; MGC59642 NOR1; OSCP1; MGC26685 HRAS1; K-ras; N-ras; RASH1; c-bas/has	NM_203477 NM_033212 NM_031452 NM_198088 NM_004659 NM_001012 643 NM_182558 NM_178583 NM_003417 NM_024841 NM_013377 NM_014580 NM_005207 NM_006389 NM_030817 NM_013401 NM_138802 NM_138802 NM_145739 NM_206837 NM_176795	similar to RPL23AP7 protein coiled-coil domain containing 102A family with sequence similarity 103, member A1 zinc finger protein 200 hypothetical protein LOC339344 chromosome 12 open reading frame 36 WD repeat and FYVE domain containing 3 zinc finger protein 264 hypothetical protein FLJ14213 PDZ domain containing RING finger 4 solute carrier family 2, (facilitated glucose transporter) member 8 v-crk sarcoma virus CT10 oncogene homolog (avian)-like hypoxia up-regulated 1 apolipoprotein L domain containing 1 RAB3A interacting protein (rabin3)-like 1 zinc finger, AN1-type domain 2B oxysterol binding protein-like 6 chromosome 1 open reading frame 102 v-Ha-ras Harvey rat sarcoma viral oncogene homolog

KIAA17	1.49	KIAA1706	NM_030636	KIAA1706 protein
06 ALS2CR	1.488	FAM117B; FLJ38771; DKFZp686H01244	NM 173511	amyotrophic lateral sclerosis 2 (juvenile) chromosome region,
13	1.400	FAMILIAB, FLJ38//I, DKFZp080H01244	NWI_1/3311	candidate 13
ZNF189	1.488	PRKCBP1	NM 003452	zinc finger protein 189
FLJ2253	1.486	FLJ22531	NM_024650	hypothetical protein FLJ22531
1			_	**
SIDT2	1.486		NM_015996	
ASB18	1.486	ASB-18	NM_212556	ankyrin repeat and SOCS box-containing 18
ALS2	1.484	ALSJ; PLSJ; IAHSP; ALS2CR6; FLJ31851; KIAA1563; MGC87187	NM_020919	amyotrophic lateral sclerosis 2 (juvenile)
ZNF93	1.483	TF34; HPF34; HTF34; ZNF505	NM 001004	zinc finger protein 93
211173	1.405	1134, 111134, 111134, 2111303	126	Zine miger protein 73
PRPH	1.483	NEF4	NM 006262	Peripherin
NR3C1	1.483	GR; GCR; GRL; GCCR	NM_001020	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid
			825	receptor)
FLJ1257	1.481	dyf-13; FLJ12571	NM_024926	tetratricopeptide repeat domain 26
FES	1.48	FPS	NM 002005	feline sarcoma oncogene
TBC1D1	1.48	FLJ10743; RP11-545E17.5	NM 018201	TBC1 domain family, member 13
3	1.477	1 E310743, Rt 11 343E17.3	1411_010201	The radinal ranning, member 15
C1ORF1	1.478	NOR1; OSCP1; MGC26685	NM_206837	chromosome 1 open reading frame 102
02			_	
HES6	1.478	HES6	NM_018645	hairy and enhancer of split 6 (Drosophila)
AGPAT	1.478	MGC4604; LPAAT-GAMMA1	NM_020132	1-acylglycerol-3-phosphate O-acyltransferase 3
3	1 477	NTF2: PP15	NIM 005706	
NUTF2 TP53IN	1.477 1.477	SIP; Teap; FLJ22139; p53DINP1; TP53DINP1;	NM_005796 NM_033285	nuclear transport factor 2 tumor protein p53 inducible nuclear protein 1
P1	1.4//	TP53INP1A; TP53INP1B; DKFZp434M1317	11111_033263	tumor protein poo muuciote nucieai protein i
FGA	1.477	Fib2; MGC119422; MGC119423; MGC119425	NM 021871	fibrinogen alpha chain
WDR20	1.477	DMR; FLJ33659; MGC33177; MGC33183	NM_181308	WD repeat domain 20
PLEKHJ	1.477	GNRPX; FLJ10297	NM_018049	pleckstrin homology domain containing, family J member 1
1	L		L	
FBXW4	1.476	DAC; FBW4; FBWD4; SHFM3; SHSF3	NM_022039	F-box and WD-40 domain protein 4
PGAP1	1.476	PGAP1; FLJ42774; ISPD3024	NM_024989 NM_013249	GPI deacylase
ZNF214 TMEM2	1.475 1.475	BAZ1 C10orf60; FLJ33990	NM_013249 NM_153226	zinc finger protein 214 transmembrane protein 20
0	1.473	C1001100, 1 £333770	NWI_133220	transmemorane protein 20
PSKH2	1.474	PSKH2	NM 033126	protein serine kinase H2
ADD3	1.474	ADDL	NM_016824	adducin 3 (gamma)
SNX26	1.473	TCGAP; FLJ39019	NM_052948	sorting nexin 26
ET	1.473	ET	NM_024311	hypothetical protein ET
SAP30B	1.472	HTRG; HTRP; HCNGP; DKFZp586L2022	NM_013260	SAP30 binding protein
P ADDI 20	1.472	"15. MAATI, MCC9400	NM 006428	
MRPL28 MMP11	1.472	p15; MAAT1; MGC8499 ST3; SL-3; STMY3	NM 005940	mitochondrial ribosomal protein L28 matrix metallopeptidase 11 (stromelysin 3)
MEST	1.471	PEG1; MGC8703; MGC111102;	NM 177524	mesoderm specific transcript homolog (mouse)
MEST	1.471	DKFZp686L18234	1411_177324	mesoderm specific transcript nomotog (mouse)
HS3ST1	1.469	3OST; 3OST1	NM_005114	heparan sulfate (glucosamine) 3-O-sulfotransferase 1
CCDC47	1.469	GK001; MSTP041	NM 020198	coiled-coil domain containing 47
WDR60	1.467	FLJ10300; FLJ23575	NM_018051	WD repeat domain 60
WDR60 RABL5	1.467 1.467	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823	NM_018051 NM_022777	WD repeat domain 60 RAB, member RAS oncogene family-like 5
WDR60	1.467	FLJ10300; FLJ23575	NM_018051	WD repeat domain 60
WDR60 RABL5 COL18A 1	1.467 1.467 1.467	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745	NM 018051 NM_022777 NM_030582	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1
WDR60 RABL5 COL18A 1 SLC2A4	1.467 1.467	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823	NM_018051 NM_022777	WD repeat domain 60 RAB, member RAS oncogene family-like 5
WDR60 RABL5 COL18A 1	1.467 1.467 1.467	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19	NM 018051 NM_022777 NM_030582	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1
WDR60 RABL5 COL18A 1 SLC2A4 RG	1.467 1.467 1.467	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745	NM 018051 NM_022777 NM_030582 NM_020062	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205	1.467 1.467 1.467 1.467 1.467 1.466	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205	NM 018051 NM 022777 NM 030582 NM 020062 NM 182569 NM 001031 686	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA.
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205	1.467 1.467 1.467 1.467	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110;	NM 018051 NM 022777 NM 030582 NM 020062 NM 182569 NM 001031	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2	1.467 1.467 1.467 1.467 1.467 1.466 1.465	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827	NM 018051 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS	1.467 1.467 1.467 1.467 1.467 1.466 1.465	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4	NM 018051 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_000071	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12	1.467 1.467 1.467 1.467 1.467 1.466 1.465	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827	NM 018051 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS	1.467 1.467 1.467 1.467 1.467 1.466 1.465	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4	NM 018051 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_000071	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_145861	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.464	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285	NM 018051 NM 022777 NM_030582 NM_030582 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_145861 NM_001008	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.464 1.463	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_145861 NM_001008	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp434O0827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_145861 NM_001008 226 NM_020382	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.464 1.463	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_145861 NM_001008	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.464 1.463 1.461 1.461	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_00071 NM_015694 NM_145861 NM_001008 226 NM_020382 NM_012214	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp434O0827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_145861 NM_001008 226 NM_020382	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.464 1.463 1.461 1.461 1.461 1.459	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240	NM 018051 NM 022777 NM_030582 NM_030582 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_145861 NM_01008 226 NM_020382 NM_012214 NM_017833 NM_017833	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C21ORF 55 PODXL ASB7	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.461 1.459	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_01008 226 NM_020382 NM_012214 NM_017833 NM_005397 NM_024708	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.464 1.463 1.461 1.461 1.461 1.459	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_01008 226 NM_020382 NM_012214 NM_017833 NM_024708 NM_024708 NM_024708 NM_001007	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.456	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E	NM 018051 NM 022777 NM_030582 NM_030582 NM_020062 NM_001031 686 NM_021202 NM_015694 NM_015694 NM_015694 NM_017833 NM_012214 NM_017833 NM_02397 NM_024708 NM_024708 NM_001007	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C21ORF 55 PODXL ASB7	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.461 1.459	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560;	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_01008 226 NM_020382 NM_012214 NM_017833 NM_024708 NM_024708 NM_024708 NM_001007	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.458 1.456 1.456	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_021021 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_01008 226 NM_020382 NM_012214 NM_017833 NM_05397 NM_024708 NM_001007 026 NM_022131	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.46 1.459 1.458 1.456 1.456 1.456	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma	NM 018051 NM 022777 NM_030582 NM_030582 NM_020062 NM_001031 686 NM_021202 NM_015694 NM_015694 NM_015694 NM_017833 NM_012214 NM_017833 NM_02397 NM_024708 NM_024708 NM_001007	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C21ORF 55 ATN1 CLSTN2 TMEM1 6H C11ORF	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.458 1.456 1.456	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma	NM 018051 NM 022777 NM_030582 NM_020062 NM_020062 NM_021021 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_01008 226 NM_020382 NM_012214 NM_017833 NM_05397 NM_024708 NM_001007 026 NM_022131	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C21ORF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C11ORF 17	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.456 1.455 1.455	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1	NM 018051 NM 022777 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_015694 NM_015694 NM_015694 NM_015861 NM_017833 NM_02382 NM_012214 NM_017833 NM_024708 NM_024708 NM_024708 NM_02182131 NM_020959 NM_182901	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.455 1.456 1.455	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251	NM 018051 NM 022777 NM 022777 NM 030582 NM 020062 NM 182569 NM 001031 686 NM 021202 NM 000071 NM 015694 NM 145861 NM 01008 226 NM 020382 NM 012214 NM 017833 NM 024708 NM 024708 NM 020382 NM 001007 026 NM 020382 NM 024708 NM 025158	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD KFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1 C10RF2	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.456 1.455 1.455	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1	NM 018051 NM 022777 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_015694 NM_015694 NM_015694 NM_015694 NM_015694 NM_02382 NM_012214 NM_012214 NM_012382 NM_012214 NM_012382 NM_012214 NM_012383 NM_024708 NM_024708 NM_024708 NM_021831 NM_020959 NM_182901	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C21ORF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C11ORF 17 RUFY1 C10RF2 6	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.456 1.455 1.455 1.455	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944	NM 018051 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_015694 NM_015694 NM_015694 NM_015694 NM_015694 NM_02382 NM_012214 NM_01208 226 NM_020382 NM_012214 NM_012313 NM_023708 NM_024708 NM_024708 NM_024708 NM_0218214 NM_021568 NM_0107673	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD KFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1 C10RF2	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.455 1.456 1.455	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251	NM 018051 NM 022777 NM 022777 NM 030582 NM 020062 NM 182569 NM 001031 686 NM 021202 NM 000071 NM 015694 NM 145861 NM 01008 226 NM 020382 NM 012214 NM 017833 NM 024708 NM 024708 NM 020382 NM 001007 026 NM 020382 NM 024708 NM 025158	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1 C10RF2 6 ST8SIA	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.456 1.455 1.455 1.455	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944	NM 018051 NM 022777 NM 022777 NM_030582 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_015694 NM_015694 NM_015694 NM_015831 NM_017833 NM_020382 NM_012214 NM_017833 NM_024708 NM_024708 NM_001007 026 NM_022131 NM_020959 NM_020351 NM_020959 NM_182901 NM_182901 NM_017673 NM_010004	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C21ORF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C11ORF 17 RUFY1 C1ORF2 6 ST8SIA 6 FLJ2029 4	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.456 1.455 1.455 1.454 1.454 1.453 1.454	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944 SIAT8F; ST8SIA-VI; ST8Sia VI FLJ20294; KIAA1736; MGC33725	NM 018051 NM 022777 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_0125169 NM_012214 NM_012214 NM_012214 NM_012214 NM_012214 NM_012214 NM_012214 NM_017833 NM 024708 NM_024708 NM_020382 NM_021214 NM_017833 NM_0217673 NM_0217673 NM_0217673 NM_017673 NM_017749	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 hypothetical protein FLJ20294
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD KFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1 C10RF2 6 FLJ2029 4 CD163	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.461 1.451 1.451 1.451	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944 SIAT8F; ST8SIA-VI; ST8Sia VI FLJ20294; KIAA1736; MGC33725 M130; MM130	NM 018051 NM 022777 NM 022777 NM 030582 NM 020062 NM 182569 NM 001031 686 NM 00121202 NM 000071 NM 015694 NM 145861 NM 015694 NM 015694 NM 021202 NM 020382 NM 012214 NM 017833 NM 005397 NM 024708 NM 001007 026 NM 020382 NM 001007 026 NM 021518 NM 001007 026 NM 021749 NM 025158 NM 017673 NM 001004 470 NM 017749 NM 0203416	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 hypothetical protein FLJ20294 CD163 molecule
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C21ORF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C11ORF 17 RUFY1 C1ORF2 6 ST8SIA 6 FLJ2029 4	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.456 1.455 1.455 1.454 1.454 1.453 1.454	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944 SIAT8F; ST8SIA-VI; ST8Sia VI FLJ20294; KIAA1736; MGC33725	NM 018051 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_015694 NM_015694 NM_015694 NM_015694 NM_015694 NM_02332 NM_012214 NM_017833 NM_02332 NM_012214 NM_017833 NM_02397 NM_024708 NM_020359 NM_02131 NM_020959 NM_182901 NM_021518 NM_017673 NM_017673 NM_01004 470 NM_017749 NM_0107749 NM_0107749	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 hypothetical protein FLJ20294
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1 C10RF2 6 ST8SIA 6 ST8SIA 6 CD163 RARA	1.467 1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.455 1.455 1.455 1.454 1.453 1.453 1.452 1.451 1.451	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944 SIAT8F; ST8SIA-VI; ST8Sia VI FLJ20294; KIAA1736; MGC33725 M130; MM130 RAR; NR1B1	NM 018051 NM 022777 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_02131 NM_02131 NM_02131 NM_02131 NM_02131 NM_02131 NM_02131 NM_0215158 NM_017673 NM_017749 NM_017749 NM_017749 NM_017749 NM_010104 NM_017749 NM_010104 NM_010104 NM_010104 NM_010104 NM_010104 NM_010104 NM_0101044 NM_0101044 NM_0101044 NM_0101044	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 hypothetical protein FLJ20294 CD163 molecule retinoic acid receptor, alpha
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD KFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1 C10RF2 6 FLJ2029 4 CD163	1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.461 1.451 1.451 1.451	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944 SIAT8F; ST8SIA-VI; ST8Sia VI FLJ20294; KIAA1736; MGC33725 M130; MM130	NM 018051 NM 022777 NM 022777 NM 030582 NM 020062 NM 182569 NM 001031 686 NM 001031 NM 015694 NM 015694 NM 015694 NM 015694 NM 015694 NM 021202 NM 020382 NM 012214 NM 021214 NM 0217833 NM 024708 NM 024708 NM 024708 NM 025158 NM 0212131 NM 020959 NM 025158 NM 017673 NM 025158 NM 017749 NM 0203416 NM 001024 809 NM 001024 809 NM 001021	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 hypothetical protein FLJ20294 CD163 molecule
WDR60 RABL5 COL18A 1 SLC2A4 RG GDPD1 ZNF205 TP53IN P2 CBS KIAA12 85 EDARA DD DKFZP6 66G057 SETD8 MGAT4 A C210RF 55 PODXL ASB7 ATN1 CLSTN2 TMEM1 6H C110RF 17 RUFY1 C10RF2 6 ST8SIA 6 ST8SIA 6 CD163 RARA	1.467 1.467 1.467 1.467 1.467 1.467 1.466 1.465 1.465 1.463 1.461 1.461 1.461 1.459 1.458 1.456 1.455 1.455 1.455 1.454 1.453 1.453 1.452 1.451 1.451	FLJ10300; FLJ23575 FLJ13225; FLJ14117; DKFZp761N0823 KNO; FLJ27325; MGC74745 GEF; HDBP1; Si-1-2; Si-1-2-19 GDE4; UGPQ; FLJ27503; FLJ37451; MGC35046 ZNF205 PINH; FLJ21759; FLJ23500; C20orf110; dJ1181N3.1; DKFZp434B2411; DKFZp43400827 HIP4 KIAA1285 Sep-09 DKFZp666G057 SET8; SET07; PR-Set7 GNT-IV; GNT-IVA C21orf78 PCLP; Gp200; MGC138240 FLJ22551 B37; NOD; DRPLA; D12S755E CS2; CSTN2; FLJ39113; FLJ39499; MGC119560; alcagamma KIAA1623 BCA3; AKIP1 RABIP4; ZFYVE12; FLJ22251 FLJ20121; FLJ35944 SIAT8F; ST8SIA-VI; ST8Sia VI FLJ20294; KIAA1736; MGC33725 M130; MM130 RAR; NR1B1	NM 018051 NM 022777 NM 022777 NM_030582 NM_020062 NM_182569 NM_001031 686 NM_021202 NM_000071 NM_015694 NM_02131 NM_02131 NM_02131 NM_02131 NM_02131 NM_02131 NM_02131 NM_0215158 NM_017673 NM_017749 NM_017749 NM_017749 NM_017749 NM_010104 NM_017749 NM_010104 NM_010104 NM_010104 NM_010104 NM_010104 NM_010104 NM_0101044 NM_0101044 NM_0101044 NM_0101044	WD repeat domain 60 RAB, member RAS oncogene family-like 5 collagen, type XVIII, alpha 1 SLC2A4 regulator glycerophosphodiester phosphodiesterase domain containing 1 synonym: ZNF210; zinc finger protein 210; Homo sapiens zinc finger protein 205 (ZNF205), transcript variant 1, mRNA. tumor protein p53 inducible nuclear protein 2 cystathionine-beta-synthase zinc finger protein 777 EDAR-associated death domain hypothetical protein DKFZp666G057 SET domain containing (lysine methyltransferase) 8 mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N- acetylglucosaminyltransferase, isozyme A chromosome 21 open reading frame 55 podocalyxin-like ankyrin repeat and SOCS box-containing 7 atrophin 1 calsyntenin 2 transmembrane protein 16H chromosome 11 open reading frame 17 RUN and FYVE domain containing 1 chromosome 1 open reading frame 26 ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 hypothetical protein FLJ20294 CD163 molecule retinoic acid receptor, alpha

		MGC19632; DKFZp686I1615		
CPSF1	1.449	CPSF160; P/cl.18; HSU37012	NM_013291	cleavage and polyadenylation specific factor 1, 160kDa
GLTSC R1	1.448	GLTSCR1	NM_015711	glioma tumor suppressor candidate region gene 1
C9ORF9	1.447	DDX31; FLJ32704; RP11-143F18.1	NM_152572	chromosome 9 open reading frame 98
CPS1	1.446	CPS1	NM 001875	carbamoyl-phosphate synthetase 1, mitochondrial
SLC22A	1.446	BOCT; BOIT; hBOIT	NM_016609	solute carrier family 22 (organic cation transporter), member 17
17			_	
ZNF618	1.446	ZNF618	NM_133374	zinc finger protein 618
SPRED1	1.446	FLJ33903	NM_152594	sprouty-related, EVH1 domain containing 1
FAM65	1.445	FLJ13725; KIAA1930	NM_024519	family with sequence similarity 65, member A
A PTPN14	1.444	PEZ; PTP36; MGC126803	NM 005401	protein tyrosine phosphatase, non-receptor type 14
ITPR1	1.443	IP3R; IP3R1; Insp3r1	NM 002222	inositol 1,4,5-triphosphate receptor, type 1
C20ORF	1.442	FLJ11190	NM 018354	chromosome 20 open reading frame 46
46	1.442	11311170	1111_010334	circumosome 20 open reading frame 40
NFRKB	1.441	DKFZp547B2013	NM_006165	nuclear factor related to kappaB binding protein
MAT2B	1.441	TGR; MAT-II; MGC12237; MATIIbeta;	NM_013283	methionine adenosyltransferase II, beta
		Nbla02999		
SEPP1	1.44	SeP; SELP	NM_005410	selenoprotein P, plasma, 1
HLA- DRB3	1.439	HLA-DR3B; MGC117330	NM_022555	major histocompatibility complex, class II, DR beta 3
CYP3A4	1.439	MGC119315; MGC119316	NM 057096	cytochrome P450, family 3, subfamily A, polypeptide 43
3	1.437	WGC119313, WGC119310	INIVI_037090	Cytochronic F450, failing 5, subtaining A, porypeptide 45
FOXJ1	1.438	HFH4; HFH-4; FKHL13; MGC35202	NM 001454	forkhead box J1
ZNF671	1.437	FLJ23506	NM 024833	zinc finger protein 671
ASRGL	1.437	ALP; ALP1; FLJ22316	NM_025080	asparaginase like 1
1			_	. •
IGSF4D	1.436	NECL3; Necl-3; synCAM2; MGC104534;	NM_153184	immunoglobulin superfamily, member 4D
T/T + +	1.42.5	MGC138341; MGC138343)D4 025=:=	
KIAA12	1.435	KIAA1202	NM_020717	shroom family member 4
TAOK2	1.434	PSK; PSK1; TAO1; TAO2; MAP3K17;	NM 016151	TAO kinase 2
1AUK2	1.4.74	FSK; FSK1; 1AO1; 1AO2; MAP3K17; KIAA0881	14141_010131	1710 Allidoc 2
EPHB6	1.434	HEP; MGC129910; MGC129911	NM 004445	EPH receptor B6
ANKRD	1.433	NY-BR-1.1	NM_001029	ankyrin repeat domain 30B
30B			862	
PCTK1	1.433	PCTAIRE; FLJ16665; PCTAIRE1; PCTGAIRE	NM_033018	PCTAIRE protein kinase 1
ZNF161	1.433	DB1; ZNF161	NM_007146	vascular endothelial zinc finger 1
HYI	1.43	HT036; MGC20767; RP11-506B15.5	NM_031207	hydroxypyruvate isomerase homolog (E. coli)
CNTN4	1.43	AXCAM; BIG-2; CNTN4A; MGC33615	NM_175613	contactin 4
GYPA	1.43	MN; GPA; MNS; GPSAT; CD235a; GPErik; HGpMiV; HGpMiX; GpMiIII; HGpMiXI;	NM_002099	glycophorin A (MNS blood group)
E. B.C.	1.10	HGpMiIII; HGpSta(C)	377.6.0049.65	
FADS2	1.43	D6D; DES6; TU13; FADSD6; LLCDL2; SLL0262	NM_004265	fatty acid desaturase 2
VTN FOXN4	1.43	VN; V75; VNT FLJ35967	NM_000638 NM_213596	vitronectin forkhead box N4
KIAA03	1.427	MGC111457	NM 015226	KIAA0350
50	1.42/	MGC111437	1111_013220	KHITOSSO
FLJ2174	1.427	FLJ21742	NM_032207	chromosome 19 open reading frame 44
2			_	
RASSF6	1.426	DKFZp686K23225	NM_177532	Ras association (RalGDS/AF-6) domain family 6
SLC44A	1.426	CTL2; PP1292; FLJ44586; DKFZp666A071	NM_020428	solute carrier family 44, member 2
Z KIAA06	1.425	RP11-426A6.6	NM 014811	KIAA0649
49	1.423	KF11-420A0.0	NWI_014811	KIAA0049
GALNT	1.425	GalNAcT4; GALNAC-T4	NM 003774	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-
4				acetylgalactosaminyltransferase 4 (GalNAc-T4)
SLC29A	1.424	ENT4; PMAT; FLJ34923	NM_153247	solute carrier family 29 (nucleoside transporters), member 4
4			_	
LOC552	1.424	LOC552891	NM_004125	hypothetical protein LOC552891
891 LOC906	1.424	FLJ23031; MGC104248	NM 138771	coiled-coil domain containing 126
93	1.424	1 L3 2 3 U 3 1 , IVI U C 1 U 4 2 4 6	11/106//1	conca-con domain containing 120
ENPP4	1.424	NPP4; KIAA0879	NM 014936	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative
		·	_	function)
PRSS16	1.423	TSSP; FLJ40714	NM_005865	protease, serine, 16 (thymus)
MGC39	1.422	MGC39900	NM_194324	hypothetical protein MGC39900
900 MGG22	1.401	MCC22(02	NIM OOTOOT	Construction of the second of
MGC33 692	1.421	MGC33692	NM_001001 794	family with sequence similarity 116, member B
CLIC3	1.42	CLIC3	NM 004669	chloride intracellular channel 3
CXORF	1.42	CXorf44; FLJ20434	NM 138362	family with sequence similarity 104, member B
44	1.72	5.50.111, 1.20.20137	1133302	
C12ORF	1.419	FLJ25590	NM_175895	chromosome 12 open reading frame 61
61				
FOXH1	1.419	FAST1; FAST-1	NM_003923	forkhead box H1
MTHFR	1.418	MTHFR	NM_005957	5,10-methylenetetrahydrofolate reductase (NADPH)
STRA6	1.418	PP14296; FLJ12541	NM_022369	stimulated by retinoic acid gene 6 homolog (mouse)
ACSS2	1.417	ACS; ACSA; ACAS2; AceCS; MYH7B; dJ1161H23.1; DKFZp762G026	NM_139274	acyl-CoA synthetase short-chain family member 2
CADPS	1.415	CAPS; CAPS1; KIAA1121	NM 183394	Ca2+-dependent secretion activator
PHF2	1.414	GRC5; KIAA0662	NM_024517	PHD finger protein 2
FUK	1.414	FLJ39408; 1110046B12Rik	NM_145059	fucokinase
APOB	1.414	FLDB	NM_000384	apolipoprotein B (including Ag(x) antigen)
NUAK2	1.413	SNARK; FLJ90349; DKFZP434J037;	NM_030952	NUAK family, SNF1-like kinase, 2
		DKFZp686F01113		
HHAT	1.411	Skn; ski; GUP2; SKI1; MART2; MART-2;	NM_018194	hedgehog acyltransferase
DAND	1.41	FLJ10724; FLJ34867	NIM OZOGOZZ	PTG2 accapiated muslage protein
BANP	1.41	SMAR1; SMARBP1; FLJ10177; FLJ20538; DKFZp761H172	NM_079837	BTG3 associated nuclear protein
ALDH6	1.41	MMSDH; MMSADHA; MGC40271	NM 005589	aldehyde dehydrogenase 6 family, member A1
ALDI10	*.**		1003367	de denjarogenase o mining, memoer Ar
C1ORF6	1.409	INT3; C1orf60; FLJ21919; DKFZp686E1950;	NM_023015	integrator complex subunit 3
0	<u> </u>	DKFZp781I1253; RP11-216N14.2;		

		DKFZp686O20115		
JAK2	1.408	JAK2	NM 004972	Janus kinase 2 (a protein tyrosine kinase)
TCF2	1.407	FJHN; HNF2; LFB3; HNF1B; MODY5; VHNF1;	NM_006481	transcription factor 2, hepatic; LF-B3; variant hepatic nuclear
ZSCAN	1.406	HNF1beta ZNF495; MGC4161	NM_024303	factor zinc finger and SCAN domain containing 5
5 MGC16	1.406	MGC16385; FLJ23771; FLJ31569; MGC13198	NM_145039	hypothetical protein MGC16385
385 PHYHIP	1.405	KIAA1796	NM_032439	phytanoyl-CoA 2-hydroxylase interacting protein-like
L RORA	1.405	ROR1; ROR2; ROR3; RZRA; NR1F1;	NM_134262	RAR-related orphan receptor A
SLC30A	1.404	MGC119326; MGC119329 ZNT4	NM 013309	solute carrier family 30 (zinc transporter), member 4
4 CCBP2	1.403	D6; hD6; CCR9; CCR10; CMKBR9;	NM 001296	chemokine binding protein 2
INADL	1.402	MGC126678; MGC138250 Cipp; PATJ; FLJ26982	NM 176878	InaD-like (Drosophila)
DCHS1	1.402	FIB1; CDH25; PCDH16; FLJ11790; KIAA1773	NM 003737	dachsous 1 (Drosophila)
FNDC5	1.402	FRCP2	NM 153756	fibronectin type III domain containing 5
ZNF354 A	1.402	EZNF; HKL1; KID1; KID-1; TCF17	NM_005649	zinc finger protein 354A
FIGNL1	1.401	FIGNL1	NM_022116	fidgetin-like 1
C14ORF 80	1.4	MGC16771	NM_173608	chromosome 14 open reading frame 80
VPS37C	1.399	FLJ20847	NM 017966	vacuolar protein sorting 37 homolog C (S. cerevisiae)
DMWD	1.399	DMRN9; DMR-N9; gene59; D19S593E	NM 004943	dystrophia myotonica-containing WD repeat motif
ARHGA	1.398	p73; FLJ33877; RC-GAP72; p73RhoGAP;	NM_031305	Rho GTPase activating protein 24
P24 VASP	1.398	DKFZP564B1162 PTH	NM 001008	vasodilator-stimulated phosphoprotein
C22ORF	1.397	Fmip; PK1.3; C22orf19	736 NM 001002	THO complex 5
19 OAS1	1.397	OIAS; IFI-4; OIASI	878 NM 002534	2',5'-oligoadenylate synthetase 1, 40/46kDa
HCN3	1.397	KIAA1535	NM 020897	hyperpolarization activated cyclic nucleotide-gated potassium
			_	channel 3
CPLX2 MGC43	1.397	CPX2; 921-L; CPX-2; MGC138492 BMSC-MCP; MGC4399	NM_006650 NM_032315	complexin 2 PNC1 protein
99 FLJ3677	1.396	FLJ36779	NM 152571	chromosome 9 open reading frame 163
9			_	1 0
KBTBD 2	1.395	BKLHD1	NM_015483	kelch repeat and BTB (POZ) domain containing 2
HOXD1	1.395	HOX4; HOX4G; Hox-4.7	NM_024501	homeobox D1
AGL	1.395	GDE	NM_000028	amylo-1, 6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III)
PCSK4	1.394	PC4; SPC5; MGC34749; DKFZp434B217	NM 017573	proprotein convertase subtilisin/kexin type 4
BCL6B	1.394	BAZF; ZNF62; ZBTB28	NM_181844	B-cell CLL/lymphoma 6, member B (zinc finger protein)
TTYH3	1.394	KIAA1691	NM_025250	tweety homolog 3 (Drosophila)
PLEKH G3	1.393	KIAA0599	NM_015549	pleckstrin homology domain containing, family G (with RhoGef domain) member 3
TOP3B	1.393	TOP3B	NM_003935	topoisomerase (DNA) III beta
GALNT 3	1.393	HHS; HFTC; MGC61909; GalNAc-T3; DKFZp686C10199	NM_004482	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N- acetylgalactosaminyltransferase 3 (GalNAc-T3)
GYG2	1.392	GN2; GN-2	NM 003918	glycogenin 2
KIAA03 23	1.389	KIAA0323	NM_015299	KIAA0323
ZNF322 A	1.388	ZNF322; ZNF388; ZNF489; FLJ23393; bA457M11.3	NM_024639	zinc finger protein 322A
TCF2	1.388	FJHN; HNF2; LFB3; HNF1B; MODY5; VHNF1; HNF1beta	NM_000458	transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor
PTPLA D2	1.388	DKFZp686F01145; DKFZp686G24132	NM_001010 915	protein tyrosine phosphatase-like A domain containing 2
SLC25A 36	1.387	FLJ10618	NM_018155	solute carrier family 25, member 36
RBMS2	1.386	SCR3	NM 002898	RNA binding motif, single stranded interacting protein 2
FAM13	1.386	MGC33233	NM_198215	family with sequence similarity 13, member C1
C1 MLL5	1.385	FLJ10078; FLJ14026; HDCMC04P; MGC70452	NM_018682	myeloid/lymphoid or mixed-lineage leukemia 5 (trithorax
RAP1G	1.384	RAP1GA1; KIAA0474; rap1GAPII	NM_002885	homolog, Drosophila) RAP1 GTPase activating protein
A1 COL27A	1.383	FLJ11895; KIAA1870; MGC11337; RP11-82I1.1	NM 032888	collagen, type XXVII, alpha 1
1 UMODL	1.383	DICER1	- NM 173568	uromodulin-like 1
1 LOC317	1.382	LOC317671	NM 173362	Rieske (Fe-S) domain containing
671			_	, ,
CBX2 PEX13	1.382 1.382	M33; CDCA6; MGC10561 ZWS; NALD	NM_005189 NM_002618	chromobox homolog 2 (Pc class homolog, Drosophila) peroxisome biogenesis factor 13
ZNF606	1.381	ZNF328; FLJ14260; KIAA1852	NM_025027	zinc finger protein 606
GGA1	1.38	GGA1	NM_001001 561	golgi associated, gamma adaptin ear containing, ARF binding protein 1
IL18	1.38	IGIF; IL-18; IL-1g; IL1F4; MGC12320	NM_001562	interleukin 18 (interferon-gamma-inducing factor)
ZNF566	1.38	FLJ14779; MGC12515 MGC142154: MGC142156	NM_032838	zinc finger protein 566
APOA4 ARPC4	1.38	MGC142154; MGC142156 ARC20; p20-Are; MGC13544	NM_000482 NM_005718	apolipoprotein A-IV actin related protein 2/3 complex, subunit 4, 20kDa
PRMT1	1.379	ARC20; p20-Arc; MGC13544 ANM1; HCP1; IR1B4; HRMT1L2	NM_005/18 NM_198319	protein arginine methyltransferase 1
FLJ1099	1.378	FLJ10996; FLJ25197; MGC13033	NM_019044	coiled-coil domain containing 93
SEC10L	1.378	SEC10; HSEC10; SEC10P; PRO1912; SEC10L1;	NM_006544	exocyst complex component 5
1 GCN5L2	1 279	DKFZp666H126 GCN5; hGCN5; MGC102791	NM 021078	GCN5 general control of amino-acid synthesis 5-like 2 (yeast)
KIAA09	1.378	ZNF745; KIAA0961	NM_021078 NM_014898	zinc finger protein 30 homolog (mouse)
JPH3	1.376	JP3; HDL2; JP-3; TNRC22; CAGL237; FLJ44707	NM 020655	junctophilin 3
ZNF503	1.375	NOLZ-1; MGC2555; FLJ45745	NM_020655 NM_032772	zinc finger protein 503

	1.375	FT005; LSM13; FAM61B; C20orf40; FLJ25473; bA11M20.3	NM_144703	LSM14 homolog B (SCD6, S. cerevisiae)
KIAA19	1.375	KIAA1786; KIAA1906	NM 052907	transmembrane protein 132B
06 EPM2AI	1.373	FLJ11207; KIAA0766	NM 014805	EPM2A (laforin) interacting protein 1
P1		·	_	
TRIM41	1.372	MGC1127; MGC31991	NM_201627	tripartite motif-containing 41
DHX8	1.371	DDX8; HRH1; PRP22; PRPF22	NM_004941	DEAH (Asp-Glu-Ala-His) box polypeptide 8 KH domain containing, RNA binding, signal transduction
KHDRB S2	1.371	SLM1; SLM-1; MGC26664; bA535F17.1	NM_152688	associated 2
MAFB	1.371	KRML; MGC43127	NM_005461	v-maf musculoaponeurotic fibrosarcoma oncogene homolog B
NAPRT	1.371	PP3856	NM_145201	(avian) nicotinate phosphoribosyltransferase domain containing 1
1 C14ORF	1.369	FBP2; FLJ12799; FLJ38170	NM 022495	chromosome 14 open reading frame 135
135			_	
CNTFR	1.368	MGC1774 RAB24	NM_147164	ciliary neurotrophic factor receptor
RAB24 MAP1L	1.367	MAPIALC3; MAPIBLC3	NM_130781 NM_181509	RAB24, member RAS oncogene family microtubule-associated protein 1 light chain 3 alpha
C3A	1.300	WATTALCS, WATTBLCS	INIVI_101309	inicrotubule-associated protein 1 fight chain 3 aipha
TMPO	1.366	TP; LAP2; CMD1T; PRO0868; MGC61508	NM_003276	thymopoietin
ZNF297 B	1.366	ZNF-X; ZBTB22B; ZNF297B	NM_014007	zinc finger and BTB domain containing 43
RTN4R	1.366	NGR; NOGOR	NM 023004	reticulon 4 receptor
SIRT4	1.366	SIR2L4; MGC57437; MGC130046; MGC130047;	NM_012240	sirtuin (silent mating type information regulation 2 homolog) 4
		sirtuin 4		(S. cerevisiae)
LMLN	1.366	Msp; Gp63	NM_033029	leishmanolysin-like (metallopeptidase M8 family)
ZNF136	1.365	pHZ-20	NM_003437	zinc finger protein 136
HBG1 FLCN	1.365	HBGA; HBGR; HSGGL1; PRO2979 BHD; FLCL; MGC17998; MGC23445	NM_000559 NM_144606	hemoglobin, gamma A folliculin
ZNF429	1.364	ZNF429	NM_144606 NM_001001	zinc finger protein 429
	1.507		415	
FLVCR	1.364	FLVCR; FLVCR1	NM_014053	feline leukemia virus subgroup C cellular receptor
PIM3	1.363	pim-3	NM_001001	pim-3 oncogene
CD300A	1.362	IRC1; IRC2; IRp60; IGSF12; CMRF35H; CMRF-	852 NM_007261	CD300a molecule
MGC34	1.362	35H; CMRF35H9; CMRF-35-H9 MGC34713	_	
713			NM_173665	hypothetical protein MGC34713
HLRC1 FLJ4571	1.361	HLRC1; MGC4293 FLJ45717	NM_031304 NM_207401	deoxyhypusine hydroxylase/monooxygenase FLJ45717 protein
7			_	•
CLASP1	1.361	MAST1; FLJ33821; KIAA0622; MGC131895; DKFZp686D1968; DKFZp686H2039	NM_015282	cytoplasmic linker associated protein 1
ZBTB8 OS	1.361	ARCH; ARCH2; MGC62007	NM_178547	zinc finger and BTB domain containing 8 opposite strand
CDCA7	1.361	JPO1; FLJ14722; FLJ14736; MGC34109	NM 031942	cell division cycle associated 7
VASP	1.359	PTH	NM_003370	vasodilator-stimulated phosphoprotein
MLL3	1.358	HALR; FLJ12625; FLJ38309; KIAA1506; DKFZp686C08112	NM_170606	myeloid/lymphoid or mixed-lineage leukemia 3
OVCH2	1.358	OVTN	NM 198185	ovochymase 2
AGRN	1.358	AGRN; FLJ45064	NM_198576	agrin
CCRK	1.357	p42; CDCH	NM_178432	cell cycle related kinase
MGC40 93	1.355	MGC4093	NM_030578	hypothetical protein MGC4093
PB1	1.355	PB1; BAF180	NM_181042	polybromo 1
LOC197	1.355	FLJ36483; FLJ44660; KIAA1924	NM_145294	WD repeat domain 90
336	1.254	771 4 0 (22)	ND 6 015545	
PTCD1 AGL	1.354	KIAA0632 GDE	NM_015545 NM_000642	pentatricopeptide repeat domain 1 amylo-1, 6-glucosidase, 4-alpha-glucanotransferase (glycogen
AGL	1.554	GDE	NWI_000042	debranching enzyme, glycogen storage disease type III)
PIK3C2	1.353	CPK; MGC142218; PI3-K-C2A; DKFZp686L193;	NM_002645	
			_	phosphoinositide-3-kinase, class 2, alpha polypeptide
A CTNNA	1.353	PI3-K-C2(ALPHA) CAPR; CTNR; CAP-R; DKFZp686H02198	NM 004389	catenin (cadherin-associated protein), alpha 2
A CTNNA 2		CAPR; CTNR; CAP-R; DKFZp686H02198	NM_004389	catenin (cadherin-associated protein), alpha 2
A CTNNA 2 C9ORF5 8	1.351	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2	NM_004389 NM_031426	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58
CTNNA 2 C9ORF5 8 C15ORF 38	1.351	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550	NM_004389 NM_031426 NM_182616	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38
A CTNNA 2 C9ORF5 8 C15ORF 38 ZNF707	1.351 1.351 1.35	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707	NM_004389 NM_031426 NM_182616 NM_173831	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707
CTNNA 2 C9ORF5 8 C15ORF 38	1.351	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550	NM_004389 NM_031426 NM_182616	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase
A CTNNA 2 C9ORF5 8 C15ORF 38 ZNF707 YWHAE	1.351 1.351 1.35 1.35	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide
A CTNNA 2 C9ORF5 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040	1.351 1.351 1.35	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707	NM_004389 NM_031426 NM_182616 NM_173831	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase
A CTNNA 2 C9ORF5 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4	1.351 1.351 1.35 1.35 1.348 1.347	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_004295 NM_019057	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404
A CTNNA 2 C9ORF5 8 C15ORF 38 C15ORF 7 YWHAE TRAF4 FLJ1040 4 LOC124	1.351 1.351 1.35 1.35 1.348	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_004295	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4
A CTNNA 2 C9ORF5 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751	1.351 1.351 1.35 1.35 1.348 1.347	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp313I142 LOC124751	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_004295 NM_019057 NM_213597	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2
A CTNNA 2 C9ORF5 8 C15ORF 38 C15ORF 7 YWHAE TRAF4 FLJ1040 4 LOC124	1.351 1.351 1.35 1.35 1.348 1.347	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_004295 NM_019057	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404
A CTNNA 2 CPORF5 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C10ORF 119	1.351 1.351 1.35 1.35 1.348 1.347 1.347 1.347	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MD8; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_019057 NM_213597 NM_018847 NM_024834	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119
A CTNNA 2 C C C C C C C C C C C C C C C C C C	1.351 1.35 1.35 1.35 1.348 1.347 1.347 1.347 1.346	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MD8; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp313I142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5
A CTNNA 2 CPORF5 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 C10ORF 119 Sep-05 SORBS3	1.351 1.351 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp313I142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_004295 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688 NM_005775	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3
A CTNNA 2 CPORF5 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C10ORF 119 Sep-05 SORBS3 RPRC1	1.351 1.35 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346 1.346	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688 NM_005775 NM_018067	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1
A CTNNA 2 CPORF5 8 SORBS3 RPRC1 BRWD3 CPORF5 8 CT15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 CT100RF 119 Sep-05 SORBS3 RPRC1 BRWD3	1.351 1.351 1.35 1.35 1.347 1.347 1.347 1.346 1.346 1.346 1.346 1.345	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688 NM_005775 NM_018067 NM_153252	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3
A CTNNA 2 CYONES 8 CISORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C10ORF 119 Sop-05 SORBS3 RPRC1 BRWD3 EVII	1.351 1.35 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346 1.346	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ308568 EVI-1; PRDM3; MDS1-EVII; AML1-EVI-1	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688 NM_005775 NM_018067 NM_183252 NM_005241	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3 ecotropic viral integration site 1
A CTNNA 2 CPORF5 8 SORBS3 RPRC1 BRWD3 CPORF5 8 CT15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 CT100RF 119 Sep-05 SORBS3 RPRC1 BRWD3	1.351 1.351 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346 1.346 1.346 1.343 1.344	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688 NM_005775 NM_018067 NM_153252	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3
A CTNNA 2 CPORF5 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C10ORF 119 Sep-05 SORBS3 EVII ADPN CKM BTBD2	1.351 1.351 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346 1.346 1.346 1.343 1.343 1.343 1.343 1.343 1.343	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MD8; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp313I142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568 EVI-1; PRDM3; MDS1-EVII; AML1-EVI-1 ADPN; C220rI20; iPLA(2)epsilon CKMM; M-CK BTBD2	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688 NM_005775 NM_018067 NM_153252 NM_005241 NM_025225 NM_005241 NM_025225 NM_001824 NM_017797	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3 ecotropic viral integration site 1 patatin-like phospholipase domain containing 3 creatine kinase, muscle BTB (POZ) domain containing 2
A CTNNA 2 CPORFS 8 C15ORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 C10ORF 119 Sep-05 SORBS3 RPRC1 BRWD3 EVI1 ADPN CKM BTBD2 IL28RA	1.351 1.351 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346 1.346 1.346 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568 EVI-1; PRDM3; MDS1-EVII; AML1-EVI-1 ADPN; C22orf20; iPLA(2)epsilon CKMM; M-CK BTBD2 IFNLR; LICR2; IFNLR1; CRF2/12	NM_004389 NM_031426 NM_182616 NM_182616 NM_173831 NM_006761 NM_004295 NM_019057 NM_213597 NM_018847 NM_024834 NM_005775 NM_18067 NM_153252 NM_005241 NM_005241 NM_005241 NM_005241 NM_005241 NM_018247 catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3 cectropic viral integration site 1 patatin-like phospholipase domain containing 3 creatine kinase, muscle BTB (POZ) domain containing 2 interleukin 28 receptor, alpha (interferon, lambda receptor)	
A CTNNA 2 CYNNA 2 CYORFS 8 STORE 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C100RF 119 Sep-05 SORBS3 RPRC1 BRWD3 EVII ADPN CKM BTBD2 IL28RA GAS8	1.351 1.35 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346 1.346 1.346 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.343 1.344 1.345 1.345 1.345 1.345 1.346 1.346 1.346 1.347 1.346 1.346 1.346 1.346 1.347 1.347 1.347	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568 EVI-1; PRDM3; MDS1-EVII; AML1-EVI-1 ADPN; C220rf20; iPLA(2)epsilon CKMM; M-CK BTBD2 IFNLR; LICR2; IFNLR1; CRF2/12 GAS11; MGC138326	NM_004389 NM_031426 NM_182616 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_005775 NM_018067 NM_153252 NM_005741 NM_025225 NM_018247 NM_017774 NM_0170743 NM_001481	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monoxygenase/tryptophan 5-monoxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3 ecotropic viral integration site 1 patatin-like phospholipase domain containing 3 creatine kinase, muscle BTB (POZ) domain containing 2 interleukin 28 receptor, alpha (interferon, lambda receptor) growth arrest-specific 8
A CTNNA 2 CTNNA 2 CPORF5 8 SORP5 8 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C10ORF 119 Sep-05 SORBS3 RPRC1 BRWD3 EVII ADPN CKM BTBD2 IL28RA GAS8 JMJD4	1.351 1.351 1.35 1.35 1.35 1.348 1.347 1.347 1.346 1.346 1.346 1.346 1.343 1.344 1.345 1.346 1.346 1.346 1.347 1.347 1.347 1.346 1.346 1.346 1.347 1.347 1.347 1.348 1.348 1.348 1.349 1.349 1.349 1.349 1.349 1.340	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568 EVI-1; PRDM3; MDS1-EVII; AML1-EVI-1 ADPN; C22orf20; iPLA(2)epsilon CKMM; M-CK BTBD2 IFNLR; LICR2; IFNLR1; CRF2/12 GAS11; MGC138326 FLJ12517; MGC129896	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_0024834 NM_005775 NM_018067 NM_153252 NM_018067 NM_153252 NM_018067 NM_170743 NM_017797 NM_170743 NM_001481 NM_023007	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3 ecotropic viral integration site 1 patatin-like phospholipase domain containing 3 creatine kinase, muscle BTB (POZ) domain containing 2 interleukin 28 receptor, alpha (interferon, lambda receptor) growth arrest-specific 8 jumonji domain containing 4
A CTNNA 2 CYNNA 2 CYORFS 8 CISORF 38 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C10ORF 119 CSORBS3 RPRC1 BRWD3 EVII ADPN CKM BTBD2 IL28RA GASS JMJD4 FGF12	1.351 1.351 1.35 1.35 1.348 1.347 1.347 1.347 1.346 1.346 1.346 1.346 1.343 1.344 1.345 1.345 1.345 1.345 1.345 1.346 1.346 1.346 1.346 1.346 1.347 1.347 1.348 1.348 1.348 1.349 1.349 1.349 1.349 1.349 1.349 1.349 1.349 1.349 1.340 1.34	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MD8; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp313I142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568 EVI-1; PRDM3; MDS1-EVII; AML1-EVI-1 ADPN; C220r120; iPLA(2)epsilon CKMM; M-CK BTBD2 IFNLR; LICR2; IFNLR1; CRF2/12 GAS11; MGC129896 FHF1; FGF12B	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_002688 NM_005775 NM_18067 NM_153252 NM_001824 NM_005241 NM_025225 NM_001824 NM_017797 NM_170743 NM_01797 NM_170743 NM_01481 NM_021032	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3 ecotropic viral integration site 1 patatin-like phospholipase domain containing 3 creatine kinase, muscle BTB (POZ) domain containing 2 interleukin 28 receptor, alpha (interferon, lambda receptor) growth arrest-specific 8 jumonji domain containing 4 fibroblast growth factor 12
A CTNNA 2 CTNNA 2 CPORF5 8 SORP5 8 ZNF707 YWHAE TRAF4 FLJ1040 4 LOC124 751 KLHL9 C10ORF 119 Sep-05 SORBS3 RPRC1 BRWD3 EVII ADPN CKM BTBD2 IL28RA GAS8 JMJD4	1.351 1.351 1.35 1.35 1.35 1.348 1.347 1.347 1.346 1.346 1.346 1.346 1.343 1.344 1.345 1.346 1.346 1.346 1.347 1.347 1.347 1.346 1.346 1.346 1.347 1.347 1.347 1.348 1.348 1.348 1.349 1.349 1.349 1.349 1.349 1.340	CAPR; CTNR; CAP-R; DKFZp686H02198 IBA2; FLJ12783; MGC29466; RP11-544A12.2 MGC61550 ZNF707 MDS; MDCR; KCIP-1; 14-3-3E; FLJ45465 CART1; MLN62; RNF83 FLJ10404; KIAA1931; DKFZp3131142 LOC124751 RP11-380P16.6 FLJ13081; FLJ36756 H5; CDCREL; PNUTL1; CDCREL1; CDCREL-1 SH3D4; SCAM-1; vinexin PARCC1; FLJ10350; MGC117315 BRODL; FLJ38568 EVI-1; PRDM3; MDS1-EVII; AML1-EVI-1 ADPN; C22orf20; iPLA(2)epsilon CKMM; M-CK BTBD2 IFNLR; LICR2; IFNLR1; CRF2/12 GAS11; MGC138326 FLJ12517; MGC129896	NM_004389 NM_031426 NM_182616 NM_173831 NM_006761 NM_019057 NM_213597 NM_018847 NM_024834 NM_0024834 NM_005775 NM_018067 NM_153252 NM_018067 NM_153252 NM_018067 NM_170743 NM_017797 NM_170743 NM_001481 NM_023007	catenin (cadherin-associated protein), alpha 2 chromosome 9 open reading frame 58 chromosome 15 open reading frame 38 zinc finger protein 707 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide TNF receptor-associated factor 4 hypothetical protein FLJ10404 KRAB-A domain containing 2 kelch-like 9 (Drosophila) chromosome 10 open reading frame 119 septin 5 sorbin and SH3 domain containing 3 arginine/proline rich coiled-coil 1 bromodomain and WD repeat domain containing 3 ecotropic viral integration site 1 patatin-like phospholipase domain containing 3 creatine kinase, muscle BTB (POZ) domain containing 2 interleukin 28 receptor, alpha (interferon, lambda receptor) growth arrest-specific 8 jumonji domain containing 4

KIAA04	1.336	DKFZp686D12126	NM_015091	KIAA0423
ACRC	1.336	NAAR1	NM 052957	acidic repeat containing
CNOT7	1.335	CAF1; hCAF-1	NM 054026	CCR4-NOT transcription complex, subunit 7
RGS5	1.334	MST092; MST106; MST129; MSTP032;	NM 003617	regulator of G-protein signalling 5
		MSTP092; MSTP106; MSTP129	_	
COLEC	1.334	MGC3279; DKFZp686N1868	NM_024027	collectin sub-family member 11
11	1 222	DALLOS GRADES DA INTERNA	377.6.404.550	GWYD II MADVEY
CMTM3	1.333	BNAS2; CKLFSF3; FLJ31762; MGC51956 ATR; MGC20496	NM_181553 NM_052845	CKLF-like MARVEL transmembrane domain containing 3
MMAB NAPB	1.333	MGC26066; MGC48335; SNAP-BETA	NM 022080	methylmalonic aciduria (cobalamin deficiency) cblB type N-ethylmaleimide-sensitive factor attachment protein, beta
DNASE	1.332	DNAS1L2	NM 001374	deoxyribonuclease I-like 2
1L2	1.332	DNASTEZ	1414_001374	dcoxyribondcicasc i-fike 2
PLA2G1	1.331	FKSG71; PLA2G13; MGC138151; GXIIIsPLA2	NM_032562	phospholipase A2, group XIIB
2B			_	1 1 1 70 1
MBD3	1.331	MBD3	NM_003926	methyl-CpG binding domain protein 3
NNAT	1.33	Peg5; MGC1439	NM_005386	neuronatin
NPB	1.33	PPL7; PPNPB	NM_148896	neuropeptide B
TRRAP	1.33	Tra1; TR-AP; PAF400; STAF40; FLJ10671; PAF350/400	NM_003496	transformation/transcription domain-associated protein
C20ORF	1.329	dJ551D2.5	NM 022106	chromosome 20 open reading frame 177
177	1.527	400152.5	1111_022100	emoniosome 20 open reading name 177
CMTM4	1.329	CKLFSF4	NM 178818	CKLF-like MARVEL transmembrane domain containing 4
PARD6	1.327	PAR6B	NM_032521	par-6 partitioning defective 6 homolog beta (C. elegans)
В				
CEP164	1.327	KIAA1052	NM_014956	centrosomal protein 164kDa
GATAD	1.326	ODAG; FLJ22489; RG083M05.2	NM_021167	GATA zinc finger domain containing 1
RAB11F	1.325	KIAA0665; Rab11-FIP3	NM 014700	RAB11 family interacting protein 3 (class II)
IP3	1.343	KITAUUUJ, KAUTI-FIFJ	1111_014/00	(class II)
THAP8	1.324	FLJ32891	NM_152658	THAP domain containing 8
FLJ2386	1.324	FLJ23861	NM_152519	hypothetical protein FLJ23861
1			_	
ABCB6	1.322	ABC; PRP; umat; ABC14; MTABC3; EST45597;	NM_005689	ATP-binding cassette, sub-family B (MDR/TAP), member 6
CDBD2	1 222	FLJ22414	NIM COLORS	About the state of
GDPD3	1.322	MGC4171; FLJ22603	NM_001031 718	glycerophosphodiester phosphodiesterase domain containing 3
BBS1	1.321	BBS2L2; FLJ23590; MGC51114; MGC126183;	NM 024649	Bardet-Biedl syndrome 1
BB01	1.521	MGC126184	11.11_02.10.19	Bardet Breat syndrome 1
PDE9A	1.321	HSPDE9A2	NM_001001	phosphodiesterase 9A
			573	
LOC147	1.319	MGC75238	NM_203374	zinc finger protein 784
808	1 210	FLJ30921	NIM 152260	-in- 6
ZNF573 HLX1	1.319	HB24	NM_152360 NM 021958	zinc finger protein 573 H2.0-like homeobox 1 (Drosophila)
HEMK1	1.318	HEMK; MTQ1; FLJ22320	NM 016173	HemK methyltransferase family member 1
KIAA04	1.317	KIAA0446; RP11-54H19.3	NM 014655	KIAA0446 gene product
46			_	
LOC388	1.317	LOC388323	NM_001014	hypothetical LOC388323
323			985	
C13ORF 7	1.317	FLJ13449; FLJ25774; DKFZp686A01276;	NM_024546	chromosome 13 open reading frame 7
RCBTB	1.316	DKFZp686N15250; DKFZp686O03173 GLP; CLLD7; CLLL7; MGC33184; RP11-	NM 018191	regulator of chromosome condensation (RCC1) and BTB (POZ)
1	1.510	185C18.1	NWI_018171	domain containing protein 1
FBXO11	1.313	VIT1; FBX11; PRMT9; FLJ12673; MGC44383;	NM 012167	F-box protein 11
		UG063H01	_	•
UBTF	1.312	UBF; NOR-90	NM_014233	upstream binding transcription factor, RNA polymerase I
TCF7L1	1.312	TCF3; TCF-3	NM_031283	transcription factor 7-like 1 (T-cell specific, HMG-box)
KIAA00	1.312	MGC133301	NM_014656	KIAA0040
PCYOX	1.311	PCL1; KIAA0908	NM 016297	prenylcysteine oxidase 1
1	1.511	PCLI, KIAA0908	NWI_010297	prenyreysteine oxidase i
XYLB	1.31	FLJ10343; FLJ12539; FLJ22075	NM 005108	xylulokinase homolog (H. influenzae)
CXORF	1.307	C10orf18	NM_207318	chromosome X open reading frame 39
39			_	
HM13	1.307	H13; SPP; IMP1; PSL3; IMPAS; PSENL3;	NM_178582	histocompatibility (minor) 13
CENTAR	1 207	MSTP086; dJ324O17.1	NIM 150754	come domain immunectability descripe (C.V. 1. v.).
SEMA3 D	1.307	coll-2; Sema-Z2; MGC39708	NM_152754	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3D
FLJ3156	1.307	FLJ31568; MGC126046; MGC126047	NM_152509	FLJ31568 protein
8	1.50,	12120, 112010, 1120120017	102507	
DIO1	1.305	5DI; TXDI1; MGC130050; MGC130051	NM_000792	deiodinase, iodothyronine, type I
SLCO1	1.303	OATP; OATP-A; OATP1A2; SLC21A3	NM_005075	solute carrier organic anion transporter family, member 1A2
A2	1.000	ACEH DVEZDICA CAL	ND (00:	., ., .
ACE2	1.303	ACEH; DKFZP434A014	NM_021804	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2
NUP98 DOCK7	1.302 1.301	ADIR2; NUP196 ZIR2; KIAA1771	NM_139131 NM_033407	nucleoporin 98kDa dedicator of cytokinesis 7
LOC375	1.301	LOC375449	NM 198828	similar to microtubule associated testis specific serine/threonine
449	1.501		11_1/0020	protein kinase
C4ORF8	1.301	RES4-22	NM_003704	chromosome 4 open reading frame 8
C20ORF	1.3	MGC5356	NM_024059	chromosome 20 open reading frame 195
195		DVPZ cochock:	1 200	AND THE RESERVE OF THE PERSON
NPAL1	1.3	DKFZp686A06115	NM_207330	NIPA-like domain containing 1
ТРМ2	1.3	DA1; TMSB; AMCD1	NM_003289	tropomyosin 2 (beta)
HRK DIAPH3	1.3	DP5; HARAKIRI DRF3; diap3; FLJ34705; DKFZP434C0931;	NM_003806 NM_030932	harakiri, BCL2 interacting protein (contains only BH3 domain) diaphanous homolog 3 (Drosophila)
DIATES	1.239	DKF3; diap3; FLJ34/05; DKFZP434C0931; DKFZp686A13178	1NIVI_030932	diaphanous nomotog 3 (Diosophila)
JAKMIP	1.299	JAMIP1; MARLIN1; FLJ31564; Gababrbp	NM 144720	janus kinase and microtubule interacting protein 1
1	L	, , , , , , , , , , , , , , , , , , , ,	_	,
SLC27A	1.298	FATP6; ACSVL2; FACVL2; VLCS-H1;	NM_001017	solute carrier family 27 (fatty acid transporter), member 6
6		DKFZp779M0564	372	1 0 1 70
NFIB	1.298	NFIB2; NFIB3; NFI-RED	NM_005596	nuclear factor I/B
CACNA 2D2	1.297	CACNA2D; gene 26; KIAA0558; LUAC11.1	NM_001005 505	calcium channel, voltage-dependent, alpha 2/delta subunit 2
C9ORF9	1.296	FLJ39267; FLJ46740; MGC50805; bA536D16.1;	NM 173550	chromosome 9 open reading frame 93
3	1.270	bA778P13.1	14141_1/3330	emoniosome / open reading traffic 93

MINISTREEN 1.296					
MAPTIN 1.294	HEXIM 1	1.296	CLP1; EDG1; HIS1; MAQ1	NM_006460	hexamethylene bis-acetamide inducible 1
DET_POSST 125	CLCN6	1.294	CLC-6; KIAA0046	NM 021737	chloride channel 6
PREMINE 1293	MAP1B	1.294		NM_005909	microtubule-associated protein 1B
HS000115A					
Col. 1293	PGEA1	1.293			PKD2 interactor, golgi and endoplasmic reticulum associated 1
SIGNED 1972 DEET/POINTED DEE	III V 1	1 202			una 51 lika kinasa 1 (C. alagans)
SICCEAN 1293 APTL SCAME-LI DECT/SERGED TO STATE TO STATE					
24					
PIDEOD 1.792		1.273		11015500	
New York 1.29	CD37	1.292	GP52-40; TSPAN26; MGC120234	NM_001774	CD37 molecule
SPACI 1.291	PDE4D	1.292		NM_006203	phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3
SICHA 1291					
PHT294					
TPUHL FLJ90415_DKF2g702C173	SLC44A	1.291	CTL1; CDW92; CHTL1; RP11-287A8.1	NM_022109	solute carrier family 44, member 1
TPUHL FLJ90415_DKF2g702C173	l DITE 201	1.20	CCL 72: MCC(4022	NM 016010	DUD Consequents 20 librat
CYPPER 729	PHF20L 1	1.29	CGI-72; MGC64923	NM_016018	PHD finger protein 20-like 1
CYPPER 729	7NF689	1.29	TIPLIH1: FL 190415: DKF7p762C173	NM 138447	zinc finger protein 689
IPPS					
SPECIAL 1.29					
SOSTID 1.289 USAGI: CDAIGN: ECTODRY. DKIZP5640206 NM, 915464 schront domain containing.]					
CT Sept. DKT-Pp4-HH055					
DOSSIDE 1.285 PP1605_PR003-231 NM 157212 docking protein 6	C1			_	
DOK6 1285	ZNF543	1.289	DKFZp434H055	NM_213598	zinc finger protein 543
ANN 1285					
C210R 1284 PSEAR, MGC11251 NM_4991 chromosome 21 open reading frame 29					
PREPRING 1,284					
NPEPPS		1.284	TSPEAR; MGC11251	NM_144991	chromosome 21 open reading frame 29
SICSAS 1284 SN2, JM24, pp7194 NM_03518 solute carrier family 38, member 5		1 204	DCA, MD100	NIM 00/210	ousing a postido o granda series and series
Section Sect					
PRICE 1284		1.204	5112, JIVI24, pp/174	14141_033310	Solute carrier failing 30, Illemoet 3
PMFII 1284 188A		1.284	GAP: MGC142132	NM 004296	regulator of G-protein signalling 6
PORT 1284 PTPRF					
Number 1283 Number 1284 Number 1284 Number 1285 Number 128					
Name					, ,
MRPIA 1.282 SRCTR 1.282 SR NM 0.0996 Secriture receptor SIC2A6 1.282 SILC2A6 1.282 SILC2A6 1.282 STALU 1.282 S	04			_	
SCTR 1282 SR NM 002960 Seretin receptor Seretin receptor STAU 1282 STAU; FLI25010 NM 017453 Solution Statuten, RNA brinding protein, hornolog Drosophila) Statuten, RNA brinding protein, hornolog Grosophila) Statuten, RNA brinding protein, hornolog Drosophila) Statuten, RNA brinding protein, protein Long (avian) Statuten, RNA brinding protein, PLI-HI Stat	PSEN1	1.283			
SICCA6 1282 SILVITE, ELECTIC MN 017585 Solute carrier family 2 (facilitated glucose transporter), member 5					
STAUL 1282 STAUL; FLI25010 NM 017453 Staufen, RNA binding protein [Drosophila] GGA1 1282 GGA1 NM 019010 golg associated, gamma adaptin one of thorogen protein [Drosophila] Staufen, RNA binding protein P					
GGAI 1282 GGAI NM, 901001 golgi associated, gamma adaptin ear containing, ÅRF binding protein SRC 1281 ASV; SRC1; e-SRC; p60-Src NM_198291 v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian) v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (diae) v-src sarcoma (diae) v-					
SRC L281					
RCC 1281	GGAI	1.282	GGAI		
CDIHC 1281	SRC	1 281	ASV: SRC1: c-SRC: n60-Src		
128 NS. NETS, LEKTI, LETKI, VAKTI, FIJ21544 NM. 006846 Serrine peptidase inhibitor, Kazal type 5	Sicc	1.201	715 V, SICC1, C SICC, POU SIC	1111_170271	
SPINKS 1.28	ZDHHC	1.281	ZNF400; FLJ14524; MGC13153; MGC54050	NM 032799	
DMGD				_	
H					
CCDC7 1.279		1.279	DMGDHD; ME2GLYDH	NM_013391	dimethylglycine dehydrogenase
BAZIA 1279		1.270	EL 1225/2 DIVEZ (0/2)0550 DB11 450/22 1	ND 4 145022	31 31 :
DKF2PS86G0518					
CAPNIO 1278	DAZIA	1.2/9		INIVI_102040	bromodomani adjacent to zinc miger domani, 1A
FLJ4113 1.278	CAPN10	1 278		NM 021251	calnain 10
1.278					
FGF13	1		, in the second	_	
FKBP2	NANP	1.278	HDHD4; MGC26833; C20orf147; dJ694B14.3	NM_152667	N-acetylneuraminic acid phosphatase
UBXD8		1.277		NM_004114	
NCOAL 1.276 SRCI, NCOA-I; RIP160; F-SRC-I; MGC129719; NM_147223 nuclear receptor coactivator 1 MGC129720 NM_0C129720 NM_017991 hypothetical protein FLJ10081			· · · · · · · · · · · · · · · · · · ·		
MGC129720					
FLJ1008 1.276	NCOA1	1.276		NM_147223	nuclear receptor coactivator 1
REPS2	EI 11000	1 276		NM 017001	hypothetical protain EL 110091
NNECU 1.274	1 1008	1.2/0	1 L. 10001, FL323/99, KIAA1310	1NIVI_U1/991	hypometical protein r-LJ 10081
NNECU 1.274	REPS2	1.275	POB1	NM 004726	RALBP1 associated Eps domain containing 2
Tile					
CIC 1.274	T1	<u> </u>	<u> </u>	_	
CIC 1.274		1.274	FLJ36890	NM_174920	sterile alpha motif domain containing 14
NOXA1 1.273				L	
MGC131800					
RRTAP 1.273	NOXA1	1.273		NM_006647	NADPH oxidase activator 1
TAF6L 1.273	KBLVD	1 272		NM 021064	keratin associated protein 17-1
PLAGL2		1.2/3	KAI 17.1, KKIAI 10.1, KKIAI 17.1	1111_031904	Kerathi associated protein 17-1
TAF6L 1.273		1,273	FLJ23283	NM 002657	pleiomorphic adenoma gene-like 2
FZR1					
FZR1		<u> </u>	<u> </u>		
TMEPAI 1.272 STAGI; PMEPAI NM_199171 transmembrane, prostate androgen induced RNA	FZR1	1.272		NM_016263	
IFT81					
MGC102777 MGC52423 NM_182517 chromosome 1 open reading frame 210					
MGC52423	IFT81	1.271		NM_031473	intraflagellar transport 81 homolog (Chlamydomonas)
A23	MCC52	1 271		NM 102517	ahramacama Lanan ragdina frama 210
KLC4		1.2/1	WIGC32423	INIVI_18251/	Circinosome i open reading frame 210
TTC25		1 27	KNSL8: MGC111777: ba387M24 3	NM 1383/13	kinesin light chain 4
ITK 1.269 EMT; LYK; PSCTK2; MGC126257; MGC126258 NM_005546 IL2-inducible T-cell kinase ZNF334 1.269 CDCA8 NM_018102 zinc finger protein 334 TSSC4 1.269 TSSC4 nm_005706 tumor suppressing subtransferable candidate 4 GMPPB 1.269 KIAA1851 nm_01334 GDP-mannose pyrophosphorylase B ZNF40 1.269 ZNF; ZNF40L nm_001012 zinc finger protein 763 L 753 nm_001012 nm_001012 nm_001012					
ZNF334 1.269 CDCA8 NM_018102 zinc finger protein 334 TSSC4 1.269 TSSC4 NM_005706 tumor suppressing subtransferable candidate 4					
TSSC4 1.269 TSSC4 NM_005706 tumor suppressing subtransferable candidate 4 GMPPB 1.269 KIAA1851 NM_013334 GDP-mannose pyrophosphorylase B ZNF440 1.269 ZNF; ZNF440L NM_001012 zinc finger protein 763 L 753 TSSC4 TSSC4 TSSC4					
GMPPB 1.269 KIAA1851 NM 013334 GDP-mannose pyrophosphorylase B ZNF440 1.269 ZNF; ZNF440L NM 001012 zinc finger protein 763 L 753 753					
ZNF440 1.269 ZNF; ZNF440L NM_001012 zinc finger protein 763 L 753					
				NM_001012	
CHMP6 1.269 VPS20; FLJ11749 NM_024591 chromatin modifying protein 6	L	4.5	A TROPO DE MARIE		
	CHMP6	1.269	VPS20; FLJ11749	NM_024591	chromatin modifying protein 6

Fig. 12, F	BRCC2	1.268	BRCC2	NM_001001	BRCC2
PLANCE P	EDIT 11	1.260			
Mathematical Color	FBXLII	1.268	FLJ00115; FLJ46431; KIAA1004;	NM_012308	F-box and leucine-rich repeat protein 11
NOV. Nov. P. P. P. P. P. P. P.					
MyONA 1.364 FLUIDS FLUIDS MYONE MY	BCAM	1.265	AU; LU; CD239; MSK19		basal cell adhesion molecule (Lutheran blood group)
CORPET 1.264	MYO9A	1 264	FLI11061: FLI13244: MGC71859		myosin IXA
CORPIT 1264 PL375339 NM_01074 chromosome 3 open reading frame 19	C1ORF2				
COORF 125 TL377402; MGC131689 NM, 001012 chromosome 10 open reading frame 85	PAK4	1.264	CRMP1	832	p21(CDKN1A)-activated kinase 4
Section Part Part		1.264	FLJ33839	NM_016474	chromosome 3 open reading frame 19
Column C		1.263	FLJ37402; MGC131689		chromosome 10 open reading frame 85
New York Section Sec		1.263	TEX27; FLJ13222	NM_021943	zinc finger, AN1-type domain 3
SMARC 126			GAB1		GRB2-associated binding protein 1
Ad			DDC1, DAE100, CNE21 4, CNE21 D. LCNE2L.		CWI/CNIC and a state of a state o
ART	A4		SNF2-BETA	_	chromatin, subfamily a, member 4
PSMAY 1.56			,	113	
CPNEB 1259			PRKBB; PKBBETA; RAC-BETA		v-akt murine thymoma virai oncogene nomolog 2
IBESB 1259			MGC129645: MGC129646		copine VIII
PAOX 1.259		1.259	,		1
MILLE 259	PAOX	1.259		NM_152911	polyamine oxidase (exo-N4-amino)
CLMN 1258	TMLHE	1.259		NM 018196	trimethyllysine hydroxylase, epsilon
SICA-1 1257					
AP					
NRC AP			_	protein	
CRCH 1255			UBC4; PUBC1; UBC4/5; UBCH5B; E2(17)KB2		ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast)
RCORL 1254 MGG39318 NM_151540 NM_151540 REST corepressor C190RF 1254 MGG39318 NM_152480 chromosome 19 open reading frame 23 mimediate early response 5 mimediate ear			IL20	NM_001009	cyclin-dependent kinase-like 4
CFOORF 1254	RCOR1	1 255	RCOR: COREST: KIA A0071		REST corepressor 1
IERS	C19ORF				
Section Sect		1.254	SBBI48; MGC102760	NM_016545	immediate early response 5
S125		1.254		NM_016947	
AFFS 1253	OR2T8	1.254	OR2T8P		olfactory receptor, family 2, subfamily T, member 8
Very Medical Page Very Work No. 1252 Filhs No. 1252 Filhs No. 1252 Filhs No. 1252 Filhs No. 1252 No. 1251 P. 1252 P. 1252 P. 1252 Filhs 1252 No. 1251 P. 1252 No. 1252 P. 1252 No. 1252 No. 1252 No. 1252 No. 1252 P. 1252 No. 1252 No					
FLNA					
OPD1; OPD2; ABP-280; filamin A; DKF2p434P031					
CIK4 1252		1.232	OPD1; OPD2; ABP-280; filamin A; DKFZp434P031	1111_001430	manin 1, apia (acti bilang procin 200)
I.RRC35 I.252 Ej; FLJ14177; MGC10233 NM 152715 leucine rich repeat containing 35 B3GAL I.251 P; Pj; GLOB; GLCT3; galT3; Gb4Cer; NM 033169 beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) cross-protein 95 homolog (mouse) 5			_		
B3GAL 1.251					
PCDH1 1.25	B3GAL		P; P1; GLOB; GLCT3; galT3; Gb4Cer;		beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood
PCDHI		1 251		NM 014560	
TTMB					
GGPS1				NM_001003	
MTRR 1.249 MSR; MGC129643 NM_024010 5-methyltertahydrofolate-homocysteine methyltransferase reductase				NM_004837	
CD163 1.249 M130; MM130 NM_004244 CD163 molecule	9			_	-
ZMYND 1.247			ŕ	_	reductase
ABC1					
DKFZp686D22141	10		·		
RFFL 1.246	ABC1	1.246		NM_022070	amplified in breast cancer 1
L3MBT					
DKFZp586P1522 NM 173358 synovial sarcoma, X breakpoint 7			, in the second	368	
ALK	L		DKFZp586P1522		.,
MKL2 1.245 MRTF-B; NPD001; FLJ31823; DKFZp686J1745 NM 014048 MKL/myocardin-like 2 HCK 1.245 JTK9 NM 002110 hemopoietic cell kinase ITIH5 1.245 pp14776; MGC10848; DKFZp686F0145 NM 032817 inter-alpha (globulin) inhibitor H5 LOC944 1.244 NM_145237 NM_145237 31 NM 015086 dendrin TREML 1.242 TLT2; C6orf76; FLJ13693; dJ238O23.1 NM_024807 triggering receptor expressed on myeloid cells-like 2 RAXL1 1.242 QRX; MGC15631 NM_032753 retina and anterior neural fold homeobox like 1 LOC401 1.242 LOC401286 NM_001023 hypothetical gene supported by AK127120 286 565 NM_020184 cyclin M4 FLJ3828 1.242 FLJ38288; DKFZp781G1213; DKFZp686K10134 NM_173632 zinc finger protein 776					
HCK					
ITIH5					
31	ITIH5	1.245		NM_032817	
TREML 1.242 TLT2; C6orf76; FLJ13693; dJ238O23.1 NM_024807 triggering receptor expressed on myeloid cells-like 2 RAXL1 1.242 QRX; MGC15631 NM_032753 retina and anterior neural fold homeobox like 1 LOC401 1.242 LOC401286 NM_001023 hypothetical gene supported by AK127120 CNNM4 1.242 ACDP4; KIAA1592 NM_020184 cyclin M4 FLJ3828 1.242 FLJ38288; DKFZp781G1213; DKFZp686K10134 NM_173632 zinc finger protein 776	LOC944 31	1.244		NM_145237	
RAXL1 1.242 QRX; MGC15631 NM_032753 retina and anterior neural fold homeobox like 1 LOC401 1.242 LOC401286 NM_001023 hypothetical gene supported by AK127120 286 565 565 crownward cyclin M4 FLJ3828 1.242 ACDP4; KIAA1592 NM_020184 cyclin M4 FLJ3828 1.242 FLJ38288; DKFZp781G1213; DKFZp686K10134 NM_173632 zinc finger protein 776					
LOC401 1.242 LOC401286 NM_001023 hypothetical gene supported by AK127120 286 565 CNNM4 1.242 ACDP4; KIAA1592 NM_020184 cyclin M4 FLJ3828 1.242 FLJ38288; DKFZp781G1213; DKFZp686K10134 NM_173632 zinc finger protein 776	2			_	
286 565 CNNM4 1.242 ACDP4; KIAA1592 NM_020184 cyclin M4 FLJ3828 1.242 FLJ38288; DKFZp781G1213; DKFZp686K10134 NM_173632 zinc finger protein 776					
CNNM4 1.242 ACDP4; KIAA1592 NM_020184 cyclin M4 FLJ3828 1.242 FLJ38288; DKFZp781G1213; DKFZp686K10134 NM_173632 zinc finger protein 776		1.242	LOC401200		hypometical gene supported by AK12/120
	CNNM4			NM_020184	
		1.242	FLJ38288; DKFZp781G1213; DKFZp686K10134	NM_173632	zinc finger protein 776

FAM73	1.241	C9orf54; FLJ00199; FLJ14596	NM 032809	family with sequence similarity 73, member B
В			_	
REPS2	1.24	POB1	NM_004726	RALBP1 associated Eps domain containing 2
BAT3	1.24	G3; D6S52E	NM_080703	HLA-B associated transcript 3
TMTC2	1.238	DKFZp762A217	NM_152588	transmembrane and tetratricopeptide repeat containing 2
PXMP2	1.238	PMP22	NM_018663	peroxisomal membrane protein 2, 22kDa
AHDC1	1.236	CL23945; DJ159A19.3; RP1-159A19.1	NM_001029 882	AT hook, DNA binding motif, containing 1
LONRF 3	1.236	RNF127; FLJ22612; MGC119463; MGC119465	NM_024778	LON peptidase N-terminal domain and ring finger 3
NOS3	1.236	eNOS; ECNOS; NOS III	NM_000603	nitric oxide synthase 3 (endothelial cell)
CRLF3	1.236	FRWS; CREME9; CYTOR4; MGC20661	NM_015986	cytokine receptor-like factor 3
SSX8	1.236	SSX8	NM_174961	synovial sarcoma, X breakpoint 8
PDGFB	1.234	SIS; SSV; PDGF2; c-sis; FLJ12858	NM_033016	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)
MORF4 L1	1.234	Eaf3; MRG15; FWP006; S863-6; HsT17725; MGC10631; MORFRG15	NM_206839	mortality factor 4 like 1
FLG PLCXD	1.232 1.232	FLG FLJ31579	NM_002016	filaggrin
PLCXD	1.232	FLJ313/9	NM_153268	phosphatidylinositol-specific phospholipase C, X domain containing 2
KIF5B	1.232	KNS; KINH; KNS1; UKHC; U-KHC	NM 004521	kinesin family member 5B
ZNF136	1.231	pHZ-20	NM 003437	zinc finger protein 136
OTOA	1.23	DFNB22; FLJ32773; MGC39813	NM 144672	otoancorin
FLJ4369	1.23	FLJ43692	NM 001003	ARHGEF5-like
2			702	
ZP1	1.23	MGC87693	NM_207341	zona pellucida glycoprotein 1 (sperm receptor)
ZNF268	1.229	HZF3; MGC126498	NM_152943	zinc finger protein 268
RGPD5	1.228	RGP5; BS-63; DKFZp686I1842	NM_032260	RANBP2-like and GRIP domain containing 5
KRTAP	1.228	KAP10.12; KRTAP18-12; KRTAP18.12	NM_198699	keratin associated protein 10-12
10-12 TMEM1	1.228	FLJ00021; FLJ20255	NM 017728	transmembrane protein 104
1MEM1 04	1.220	11200021, 11220233	INIVI_U1//28	наныненныме ргосын 104
LOC401	1.226		NM_001013	
C2ORF2	1.226	FLJ33496	689 NM 182587	chromosome 2 open reading frame 21
1			_	
PPEF1	1.226	PP7; PPEF; PPP7C	NM_006240	protein phosphatase, EF-hand calcium binding domain 1
TRIAD3	1.226		NM_019011	
DAB1	1.225	EIF4G1	NM_021080	disabled homolog 1 (Drosophila)
ARL4C	1.225	LAK; ARL7	NM_005737	ADP-ribosylation factor-like 4C
ADPRH L1	1.225	ARH2	NM_199162	ADP-ribosylhydrolase like 1
TSNAXI P1	1.225	TXI1; MGC111443	NM_018430	translin-associated factor X interacting protein 1
PHCA	1.224	APHC; FLJ11238	NM 018367	phytoceramidase, alkaline
C10ORF	1.222	TECT3; DKFZp564D116	NM 015631	chromosome 10 open reading frame 61
61	1.222	1EC15, DK12p504D110	TVIVI_013031	chromosonic to open reading frame of
CTNND 1	1.222	CAS; p120; CTNND; P120CAS; P120CTN; KIAA0384	NM_001331	catenin (cadherin-associated protein), delta 1
PPHLN1	1.222	HSPC206; HSPC232; MGC48786	NM 016488	periphilin 1
RGS9BP	1.222	RGS9BP; FLJ45744	NM 207391	RGS9 anchor protein
MXI1	1.221	MXI; MAD2; MXD2; MGC43220	NM_001008	MAX interactor 1
			541	
CDH20	1.22	Cdh7; CDH7L3; FLJ37047	NM_031891	cadherin 20, type 2
DAPK3	1.219	ZIP; ZIPK; FLJ36473	NM_001348	death-associated protein kinase 3
TROAP	1.219	TASTIN	NM_005480	trophinin associated protein (tastin)
FLAD1	1.218	FAD1; PP591; MGC31803; MGC40255; RP11-	NM_025207	FAD1 flavin adenine dinucleotide synthetase homolog (S.
CPT1B	1.217	307C12.7 CPT1-M; M-CPT1; KIAA1670	NM 152247	cerevisiae) carnitine palmitoyltransferase 1B (muscle)
ADPRH	1.217	ARH1	NM 001125	ADP-ribosylarginine hydrolase
KCNK1	1.216	TREK2; TREK-2	NM_138318	potassium channel, subfamily K, member 10
0 ESRRG	1.216	ERR3; NR3B3; FLJ16023; KIAA0832;	NM_206594	estrogen-related receptor gamma
DO:-		DKFZp781L1617	1,11,11	
POLE	1.216	POLE1; FLJ21434; DKFZp434F222	NM_006231	polymerase (DNA directed), epsilon
SMAD9	1.215	MADH6; MADH9; SMAD8A; SMAD8B	NM_005905	SMAD, mothers against DPP homolog 9 (Drosophila)
CRYBA 2	1.215	C6orf25	NM_057093	crystallin, beta A2
STRN4	1.215	ZIN; zinedin; FLJ35594	NM_013403	striatin, calmodulin binding protein 4
MGC42	1.214	MGC42105	NM_153361	hypothetical protein MGC42105
105				**
PKHD1	1.213	PKHDL1; DKFZp586C1021	NM_177531	polycystic kidney and hepatic disease 1 (autosomal recessive)-
L1	ļ	TDV	NIM OPERED	like 1
TBX6			NM 080758	T-box 6
	1.213	TBX6		aldahuda dahudraganasa 9 familia mamb 4 1
ALDH8	1.213	ALDH12; MGC138650; DJ352A20.2;	NM_022568	aldehyde dehydrogenase 8 family, member A1
ALDH8 A1	1.213	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315	NM_022568	
ALDH8		ALDH12; MGC138650; DJ352A20.2;		aldehyde dehydrogenase 8 family, member A1 small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter),
ALDH8 A1 SNAPC4	1.213 1.213 1.213	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha	NM_022568 NM_003086	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3
ALDH8 A1 SNAPC4 SLC22A	1.213	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255;	NM_022568 NM_003086	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter),
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1	1.213 1.213 1.213 1.212	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106	NM_022568 NM_003086 NM_021977 NM_020740	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123	1.213 1.213 1.213 1.212	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6	1.213 1.213 1.213 1.212	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106	NM_022568 NM_003086 NM_021977 NM_020740	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6 8	1.213 1.213 1.213 1.213 1.212 1.211 1.211	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6 8 SF1	1.213 1.213 1.213 1.212 1.211 1.211 1.211	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D118636	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459 NM_201997	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6 8	1.213 1.213 1.213 1.213 1.212 1.211 1.211	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D118636 BRF; hBRF; GTF3B; TAF3C; TAF3B2; TF3B90;	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1 BRF1 homolog, subunit of RNA polymerase III transcription
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6 8 SF1	1.213 1.213 1.213 1.212 1.211 1.211 1.211	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D118636	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459 NM_201997 NM_145696 NM_001002	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6 8 SF1 BRF1	1.213 1.213 1.213 1.212 1.212 1.211 1.211 1.211 1.211 1.21	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D11S636 BRF; hBRF; GTF3B; TAF3C; TAF3B2; TF3B90; FLJ42674; TAFIII90; TFIIIB90; MGC105048 REN; C17orf36; MGC129844; REN/KCTD11	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459 NM_201997 NM_145696 NM_001002 914	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1 BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. cerevisiae) potassium channel tetramerisation domain containing 11
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C60RF6 8 SF1 BRF1 KCTD11	1.213 1.213 1.213 1.212 1.211 1.211 1.211 1.211 1.21 1.209	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D118636 BRF; hBRF; GTF3B; TAF3C; TAF3B2; TF3B90; FLJ42674; TAFIIB90; MGC105048 REN; C17orf36; MGC129844; REN/KCTD11 OATP; OATP-A; OATP1A2; SLC21A3	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459 NM_201997 NM_145696 NM_001002 914 NM_134431	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1 BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. cerevisiae) potassium channel tetramerisation domain containing 11 solute carrier organic anion transporter family, member 1A2
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C60RF6 8 SF1 BRF1 KCTD11 SLCO1 A2 MGC47	1.213 1.213 1.213 1.212 1.212 1.211 1.211 1.211 1.211 1.21	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D11S636 BRF; hBRF; GTF3B; TAF3C; TAF3B2; TF3B90; FLJ42674; TAFIII90; TFIIIB90; MGC105048 REN; C17orf36; MGC129844; REN/KCTD11	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459 NM_201997 NM_145696 NM_001002 914	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1 BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. cerevisiae) potassium channel tetramerisation domain containing 11
ALDH8 AI SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6 8 SF1 BRF1 KCTD11 SLC01 A2 MGC47 28	1.213 1.213 1.213 1.212 1.211 1.211 1.211 1.211 1.21 1.21 1.209 1.209	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D11S636 BRF; hBRF; GTF3B; TAF3C; TAF3B2; TF3B90; FLJ42674; TAFIII90; TFIIIB90; MGC105048 REN; C17orf36; MGC129844; REN/KCTD11 OATP; OATP-A; OATP1A2; SLC21A3 ZNF773; MGC4728	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459 NM_201997 NM_145696 NM_001002 914 NM_134431 NM_198542	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1 BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. cerevisiae) potassium channel tetramerisation domain containing 11 solute carrier organic anion transporter family, member 1A2 zinc finger protein 419B
ALDH8 A1 SNAPC4 SLC22A 3 ANKFY 1 GPR123 C60RF6 8 SF1 BRF1 KCTD11 SLC01 A2 MGC47 28 ZFYVE1	1.213 1.213 1.213 1.212 1.211 1.211 1.211 1.211 1.21 1.209 1.209	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D118636 BRF; hBkF; GTF3B; TAF3C; TAF3B2; TF3B90; FLJ42674; TAFIII90; TFIIIB90; MGC105048 REN; C17ori36; MGC129844; REN/KCTD11 OATP; OATP-A; OATP1A2; SLC21A3 ZNF773; MGC4728 DFCP1; TAFF1; ZNFN2A1; KIAA1589	NM_022568 NM_003086 NM_021977 NM_022740 NM_032422 NM_138459 NM_201997 NM_145696 NM_001002 914 NM_134431 NM_198542 NM_021260	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1 BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. cerevisiae) potassium channel tetramerisation domain containing 11 solute carrier organic anion transporter family, member 1A2 zinc finger protein 419B zinc finger, FYVE domain containing 1
ALDH8 AI SNAPC4 SLC22A 3 ANKFY 1 GPR123 C6ORF6 8 SF1 BRF1 KCTD11 SLC01 A2 MGC47 28	1.213 1.213 1.213 1.212 1.211 1.211 1.211 1.211 1.21 1.21 1.209 1.209	ALDH12; MGC138650; DJ352A20.2; DKFZp779D2315 SNAP190; FLJ13451; PTFalpha EMT; EMTH; OCT3 ANKHZN; ZFYVE14; KIAA1255; DKFZp686M19106 GPR123 MGC7199; MGC:7199; MGC117249 ZFM1; ZNF162; D11S636 BRF; hBRF; GTF3B; TAF3C; TAF3B2; TF3B90; FLJ42674; TAFIII90; TFIIIB90; MGC105048 REN; C17orf36; MGC129844; REN/KCTD11 OATP; OATP-A; OATP1A2; SLC21A3 ZNF773; MGC4728	NM_022568 NM_003086 NM_021977 NM_020740 NM_032422 NM_138459 NM_201997 NM_145696 NM_001002 914 NM_134431 NM_198542	small nuclear RNA activating complex, polypeptide 4, 190kDa solute carrier family 22 (extraneuronal monoamine transporter), member 3 ankyrin repeat and FYVE domain containing 1 G protein-coupled receptor 123 chromosome 6 open reading frame 68 splicing factor 1 BRF1 homolog, subunit of RNA polymerase III transcription initiation factor IIIB (S. cerevisiae) potassium channel tetramerisation domain containing 11 solute carrier organic anion transporter family, member 1A2 zinc finger protein 419B

SLC25A	1.208	FLJ40217; MGC120446; MGC120448	NM_201520	solute carrier family 25, member 35
35 EHD1	1.208	PAST; PAST1; H-PAST; HPAST1; FLJ42622;	NM 006795	EH-domain containing 1
EHDI	1.200	FLJ44618	INIVI_000793	E11-domain containing 1
DRD1	1.207	DADR; DRD1A	NM_000794	dopamine receptor D1
KRTAP	1.207	KAP20.2; MGC133104	NM_181616	keratin associated protein 20-2
20-2 ZNF418	1.206	FLJ31551; KIAA1956; MGC138449	NM 133460	zinc finger protein 418
PBX4	1.205	PBX4	NM 025245	pre-B-cell leukemia transcription factor 4
ZCWPW	1.205	ZCW1; FLJ10057; DKFZp434N0510	NM_017984	zinc finger, CW type with PWWP domain 1
1				
DCUN1 D2	1.204	C13orf17; FLJ10704; FLJ20092	NM_018185	DCN1, defective in cullin neddylation 1, domain containing 2 (S. cerevisiae)
DGCR1	1.204	DGS-H	NM 001024	DiGeorge syndrome critical region gene 13
3			733	
LOC916	1.203	dJ186O1.1	NM_033318	chromosome 22 open reading frame 32
KIAA12	1.203	VISA; MAVS; Ips-1; FLJ27482; FLJ41962;	NM 020746	virus-induced signaling adapter
71	1.203	KIAA1271; DKFZp666M015	1111_020740	virus induced signamig adapter
CSPP1	1.203	CSPP; FLJ22490; FLJ38886	NM_024790	centrosome and spindle pole associated protein 1
FLJ2547	1.202	FLJ25476; MGC138318; RP11-415J8.1	NM_152493	FLJ25476 protein
RBP3	1.201	IRBP; RBPI; D10S64; D10S65; D10S66	NM 002900	retinol binding protein 3, interstitial
FLJ3756	1.201	FLJ37562	NM_152409	chromosome 5 open reading frame 24
2				
PDE4C	1.2	DPDE1; MGC126222; PDE4C-791	NM_000923	phosphodiesterase 4C, cAMP-specific (phosphodiesterase E1 dunce homolog, Drosophila)
VGLL2	1.199	VGL2; VITO1	NM 153453	vestigial like 2 (Drosophila)
LYZL2	1.199	ZNF294	NM_183058	lysozyme-like 2
JPH2	1.199	JP2; JP-2; FLJ40969	NM_020433	junctophilin 2
NOTCH	1.199	CASIL; CADASIL	NM_000435	Notch homolog 3 (Drosophila)
3	1.100	ENT2, EL 111100	NIM 010244	Landard Comittee 20 (constant)
SLC29A 3	1.199	ENT3; FLJ11160	NM_018344	solute carrier family 29 (nucleoside transporters), member 3
C1ORF1	1.198	FLJ41579; MGC48998; RP11-331H2.2	NM 178550	chromosome 1 open reading frame 110
10		· · ·	_	
LOC283 219	1.198	LCMT1	NM_001029 859	potassium channel tetramerisation domain containing 21
CRYGS	1.198	CRYG8	NM 017541	crystallin, gamma S
MTA1	1.198	MTA1	NM 004689	metastasis associated 1
STX16	1.197	SYN16; hsyn16; MGC90328	NM 001001	syntaxin 16
			433	
ZNF605	1.196	FLJ14967	NM_183238	zinc finger protein 605
C2ORF1	1.195	C2orf10	NM_194250	chromosome 2 open reading frame 10
TRIM67	1.195	TNL; FLJ44831	NM 001004	tripartite motif-containing 67
TKIIVIO7	1.173	1111, 11344031	342	dipartite motif-containing 07
TRPC5	1.195	TRP5	NM_012471	transient receptor potential cation channel, subfamily C, member
			_	5
ZNF473	1.195	ZN473; HZFP100	NM_015428	zinc finger protein 473
BMF	1.195	FLJ00065	NM_033503	Bcl2 modifying factor
TRPM7	1.195	CHAK; CHAK1; LTRPC7; FLJ20117; FLJ25718;	NM_017672	transient receptor potential cation channel, subfamily M, member
POLR3	1.194	TRP-PLIK RPC8; KIAA1665; MGC29654; MGC111097	NM_138338	polymerase (RNA) III (DNA directed) polypeptide H (22.9kD)
Н	1.17	id ed, im miled, independ i, indefine,	11150550	porfinerase (14.4.1) in (B14.1 anected) porfipepade in (22.54B)
A2BP1	1.193	A2BP1; FOX1; HRNBP1	NM_018723	ataxin 2-binding protein 1
ZNF623	1.193	MGC103965; MGC104128	NM_014789	zinc finger protein 623
COBL	1.192	KIAA0633; DKFZp686G13227	NM_015198	cordon-bleu homolog (mouse)
BCL2L1	1.191	BCLG	NM_138723	BCL2-like 14 (apoptosis facilitator)
LYCAT	1.191	ALCAT1; UNQ1849; FLJ37965	NM 182551	lysocardiolipin acyltransferase
OSGEP	1.191	KAE1; GCPL1; OSGEP1; PRSMG1; FLJ20411	NM 017807	O-sialoglycoprotein endopeptidase
PPP1R1	1.19	FLJ14744	NM_032833	protein phosphatase 1, regulatory (inhibitor) subunit 15B
5B	1.0	DEC DEE DOLG A CONTROL	ND 6 00 :	4.10.01: 5
MECP2	1.19	RTS; RTT; PPMX; MRX16; MRX79; AUTSX3; DKFZp686A24160	NM_004992	methyl CpG binding protein 2 (Rett syndrome)
IL2RA	1.19	CD25; IL2R; TCGFR; IDDM10	NM 000417	interleukin 2 receptor, alpha
AK3L1	1.19	AK3; AK4	NM_001005	adenylate kinase 3-like 1
		·	353	
TMOD2	1.19	NTMOD; MGC39481	NM_014548	tropomodulin 2 (neuronal)
OPN1S W	1.189	BCP; BOP; CBT	NM_001708	opsin 1 (cone pigments), short-wave-sensitive (color blindness, tritan)
LOC284	1.188	LOC284361; INM02; MGC33203	NM 175063	hematopoietic signal peptide-containing
361			_	
RGR	1.187	RGR	NM_001012	retinal G protein coupled receptor
SLC5A1	1.186	SGLT5; FLJ25217	722 NM 152351	solute carrier family 5 (sodium/glucose cotransporter), member
0 SLCSAI	1.100	50L15, FLJ2521/	1NIVI_132331	solute carrier family 5 (sodium/glucose cotransporter), member 10
NBPF14	1.186	NBPF; FLJ35032; RP3-328E19.1; DJ328E19.C1.1	NM_015383	neuroblastoma breakpoint family, member 14
HIF3A	1.186	IPAS; MOP7; PASD7; HIF-3A; HIF-3A4	NM_022462	hypoxia inducible factor 3, alpha subunit
FLJ3698	1.186		NM_182598	
0 TMEM7	1.186	FLJ20533	NM 017866	transmembrane protein 70
0	1.100	11.420333	1N1VI_01 / 800	transmembrane protein 70
RHOT2	1.184	RASL; ARHT2; MIRO-2; C16orf39	NM_138769	ras homolog gene family, member T2
LOC148	1.184	FLJ90508	NM_001008	chromosome 1 open reading frame 213
898			896	
ZNF384	1.184	NP; CIZ; NMP4; CAGH1; ERDA2; TNRC1;	NM_133476	zinc finger protein 384
DGKZ	1.184	CAGH1A DAGK5; DAGK6; DGK-ZETA; hDGKzeta	NM 003646	diacylglycerol kinase, zeta 104kDa
ARHGE	1.184	GEF1; LBCL2; SUB1.5; P115-RHOGEF	NM_003646 NM_199002	Rho guanine nucleotide exchange factor (GEF) 1
F1		,, 5051.5, 1115 KHOOLI		Contract Con
SIPA1L	1.181	E6TP1; KIAA0440; DKFZp686G1344	NM_015556	signal-induced proliferation-associated 1 like 1
1	1.00	COAD	ND 6 005 7 17	
AP1G2	1.181	G2AD	NM_080545	adaptor-related protein complex 1, gamma 2 subunit
LRRN6	1.18	LERN3; LINGO2; FLJ31810	NM_152570	leucine rich repeat neuronal 6C

		T	1	T
C FLJ3213 0	1.179	FLJ32130	NM_152458	zinc finger protein 785
AIFL	1.179	AIFL; FLJ30473	NM 144704	apoptosis-inducing factor like
P2RY2	1.179	P2U; HP2U; P2U1; P2UR; P2Y2; P2RU1; P2Y2R;	NM_176071	purinergic receptor P2Y, G-protein coupled, 2
SYVN1	1.179	MGC20088; MGC40010 HRD1; KIAA1810; MGC40372	NM 032431	synovial apoptosis inhibitor 1, synoviolin
DDC	1.179	AADC	NM 000790	dopa decarboxylase (aromatic L-amino acid decarboxylase)
TMEM1	1.179	C12orf3; DKFZp434P102	NM_000790 NM_020373	transmembrane protein 16B
6B	1.1/6	C120115, DKFZp454F102	INIM_020373	transmemorane protein 10B
TNRC6	1.178	KIAA1093	NM_015088	trinucleotide repeat containing 6B
B FLJ9075	1.178		NM 001004	
7			336	
C11ORF 9	1.175	KIAA0954; MGC10781	NM_013279	chromosome 11 open reading frame 9
ZNF624	1.175	KIAA1349; MGC119602; MGC119603;	NM_020787	zinc finger protein 624
USP11	1.175	MGC119605 UHX1	NM 004651	ubiquitin specific peptidase 11
KIAA07	1.174	KIAA0789; MGC117165	NM_014653	KIAA0789 gene product
89 OR4C12	1.174	OR11-259	NM 001005	olfactory receptor, family 4, subfamily C, member 12
			270	
NDST4	1.173	VCX3A	NM_022569	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 4
SRCAP	1.173	SRCAP; KIAA0309	NM_006662	Snf2-related CBP activator protein
TCF7L2	1.173	TCF4; TCF-4	NM_030756	transcription factor 7-like 2 (T-cell specific, HMG-box)
C19ORF 25	1.173	FLJ36666	NM_152482	chromosome 19 open reading frame 25
AKAP4	1.172	HI; p82; FSC1; AKAP82; hAKAP82	NM 139289	A kinase (PRKA) anchor protein 4
C10ORF	1.172	UNQ1833; FLJ21763	NM 207373	chromosome 10 open reading frame 99
99				
VPS16	1.171	hVPS16	NM_022575	vacuolar protein sorting 16 (yeast)
PLEKH	1.171	EVT2; FLJ20783	NM_017958	pleckstrin homology domain containing, family B (evectins)
B2				member 2
IGF1R	1.171	CD221; IGFIR; JTK13; MGC142170; MGC142172	NM_000875	insulin-like growth factor 1 receptor
SHE	1.171	RP11-350G8.8; DKFZp451D1511;	NM_001010	Src homology 2 domain containing E
MAGEB	1.17	DKFZp686E14106 MAGEB3	846 NM_002365	melanoma antigen family B, 3
3 CYSLT	1.17	HG55; CYSLT1; CYSLTR; CYSLT1R;	NM 006639	avetained laukateiana esaantau 1
R1	1.17	HMTMF81; MGC46139	NWI_000039	cysteinyl leukotriene receptor 1
GCNT3	1.17	GnT-M; C2GnT2; C2/4GnT; C2GnT-M	NM_004751	glucosaminyl (N-acetyl) transferase 3, mucin type
CDK3	1.169	CDK3	NM_001258	cyclin-dependent kinase 3
C20ORF	1.169	MGC2592; dJ1187M17.3	NM_023935	chromosome 20 open reading frame 116
SCAND	1.168	SCAND2	NM_033633	SCAN domain containing 2
2	1.160	GED NIPSK DIVIS - KIA 10001 MGG40402	_	Ţ.
PIP5K3	1.168	CFD; PIP5K; PIKfyve; KIAA0981; MGC40423	NM_152671	phosphatidylinositol-3-phosphate/phosphatidylinositol 5-kinase, type III
NR2E1	1.168	TLL; TLX; XTLL	NM_003269	nuclear receptor subfamily 2, group E, member 1
VSIG2	1.168	CTH; CTXL; 2210413P10Rik	NM_014312	V-set and immunoglobulin domain containing 2
ANKRD	1.167	FLJ36178; bA526D8.2	NM_001010	ankyrin repeat domain 19
19 KIAA02	1.167	KIAA0265	925 NM 014997	KIAA0265 protein
65 CHRM2	1.166	HM2, FI 142242, MCC120006, MCC120007	NIM 001006	
CHKM2	1.100	HM2; FLJ43243; MGC120006; MGC120007	NM_001006 626	cholinergic receptor, muscarinic 2
PLXNA	1.166	NOV; NOVP; PLXN1; PLEXIN-A1	NM_032242	plexin A1
DYSFIP	1.166	MGC138299	NM 001007	dysferlin interacting protein 1 (toonin)
1	1.166	CD110 KIA 40410 DKEZ Z01C1416	533	
CP110 FLJ2750	1.166 1.166	CP110; KIAA0419; DKFZp781G1416 FLJ27505	NM_014711 NM_207408	CP110 protein FLJ27505 protein
5			_	
LRRC37 B	1.165	LRRC37B	NM_052888	leucine rich repeat containing 37B
AMAC1	1.163	AMAC	NM_054028	acyl-malonyl condensing enzyme 1-like 2
FDX1	1.163	ADX; FDX; LOH11CR1D	NM 004109	ferredoxin 1
GLYCT	1.163	GLYCTK; HBeAgBP4A	NM_145262	glycerate kinase
K	1.162	GLOATE GLAT G MALLESCO MOGRACIO	ND 6 0000045	
B3GAT2	1.162	GLCATS; GlcAT-S; KIAA1963; MGC138535	NM_080742	beta-1,3-glucuronyltransferase 2 (glucuronosyltransferase S)
ZNF10	1.162	KOX1 MGC46193	NM_015394 NM_003985	zinc finger protein 10
TNK1 C17ORF	1.162	DERP6; MST071; HSPC002; MSTP071	NM_003985 NM_203414	tyrosine kinase, non-receptor, 1 chromosome 17 open reading frame 81
81				
MPPED 1	1.161	239AB; FAM1A; C22orf1; MGC88045	NM_001585	metallophosphoesterase domain containing 1
FLJ2506	1.16	FLJ25067; RP4-784N16.1	NM_152504	chromosome 20 open reading frame 196
7 POLR2	1.16	RPB1; RPO2; POLR2; POLRA; RPBh1; RPOL2;	NM_000937	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
A		RpIILS; hsRPB1; hRPB220; MGC75453		
BAP1	1.159	hucep-6; FLJ35406; FLJ37180; HUCEP-13; KIAA0272; DKFZp686N04275	NM_004656	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
IFNB1	1.159	IFB; IFF; IFNB; MGC96956	NM_002176	interferon, beta 1, fibroblast
C1ORF8	1.158	FLJ23853; MGC126550; RP5-1125M8.4	NM_181643	chromosome 1 open reading frame 88
8 DGVO	1 150	DAGE DAGEA DAGEZ	NIM 001247	disaylelyaaral kinasa thata 110kDa
DGKQ HEXIM	1.158	DAGK; DAGK4; DAGK7 L3; FLJ32384	NM_001347 NM_144608	diacylglycerol kinase, theta 110kDa hexamthylene bis-acetamide inducible 2
2			_	*
RPS6KA 6	1.158	RSK4	NM_014496	ribosomal protein S6 kinase, 90kDa, polypeptide 6
LNX1	1.157	LNX; MPDZ; PDZRN2	NM_032622	ligand of numb-protein X 1
TIOI 4	1.156	DOCK8	NM_001004	folliculogenesis specific basic helix-loop-helix
FIGLA			311	

	•			
PRDM1	1.156	PFM15; ZNF298; C21orf83	NM_022115	PR domain containing 15
5	1.156	Thinking of the Madellanes	377.6.00.40.66	
HNRPF HSPG2	1.156	HNRNPF; mcs94-1; MGC110997	NM_004966	heterogeneous nuclear ribonucleoprotein F
RAD54	1.156	PLC; SJA; SJS; SJS1 FSBP	NM_005529 NM_012415	heparan sulfate proteoglycan 2 (perlecan) RAD54 homolog B (S. cerevisiae)
B RAD34	1.133	rsbr	NWI_012413	KAD34 holilolog B (S. celevisiae)
TXNRD	1.155		NM_145748	
2	1.133		NWI_143746	
OR2A2	1.155	OR2A2P; OR7-11; OST008; OR2A17P	NM 001005	olfactory receptor, family 2, subfamily A, member 2
ORZAZ	1.133	ORZ/121, OR/ 11, OS1000, ORZ/11/1	480	onactory receptor, family 2, subtaining 11, member 2
CYFIP1	1.155	SHYC; FLJ45151; P140SRA-1	NM 014608	cytoplasmic FMR1 interacting protein 1
AMDH	1.154	HMFT1272; MGC35366	NM 152435	amidohydrolase domain containing 1
D1		,	_	,
KCNH7	1.154	ERG3; HERG3; Kv11.3; MGC45986	NM 173162	potassium voltage-gated channel, subfamily H (eag-related),
			_	member 7
R7BP	1.154	R7BP	NM_001029	R7 binding protein
			875	
AQP12A	1.153	AQP12	NM_198998	aquaporin 12A
EMP2	1.153	XMP; MGC9056	NM_001424	epithelial membrane protein 2
OR9Q2	1.153	OR9Q2P	NM_001005	olfactory receptor, family 9, subfamily Q, member 2
			283	
MCOLN	1.152	ML4; MLIV; MST080; TRPML1; MSTP080;	NM_020533	mucolipin 1
1		TRP-ML1		
GOLGA	1.152	GCP16; HSPC041; MGC4876; MGC21096;	NM_016099	golgi autoantigen, golgin subfamily a, 7
7	1.150	GOLGA3AP1	277.6.404.54.4	
C6ORF1	1.152	C6orf152	NM_181714	chromosome 6 open reading frame 152
52 ZNE167	1 151	ZED, ZNIEGA, EL 112720	NIM 025150	ging fineer metain 167
ZNF167	1.151	ZFP; ZNF64; FLJ12738	NM_025169	zinc finger protein 167
FRS2	1.151	SNT; SNT1; FRS2A; SNT-1; FRS2alpha	NM_006654	fibroblast growth factor receptor substrate 2
ELK4	1.151	SAP1	NM_001973	ELK4, ETS-domain protein (SRF accessory protein 1)
FKBPL ZNE401	1.151	NG7; DIR1; WISP39	NM_022110	FK506 binding protein like
ZNF491	1.151	FLJ34791; MGC126639; MGC126641	NM_152356	zinc finger protein 491
C20ORF	1.151	dJ132F21.2	NM_080628	chromosome 20 open reading frame 118
118 ARMCX	1.15	EL 142051, MCC40052, DVEZ, 501340415	NIM 152502	omnodillo noncot contoir in - W linked 4
	1.15	FLJ43051; MGC40053; DKFZp781M0415	NM_152583	armadillo repeat containing, X-linked 4
4 GHSR	1.15	GHSR	NM 109407	growth harmone secrets come recentor
TGFBR1	1.15	SKR4; ALK-5; TGFR-1; ACVRLK4	NM_198407 NM_004612	growth hormone secretagogue receptor transforming growth factor, beta receptor I (activin A receptor
IGFBRI	1.15	SKR4; ALK-5; IGFR-1; ACVRLR4	NM_004612	type II-like kinase, 53kDa)
WDR81	1.149	FLJ23776; FLJ33817	NM 152348	WD repeat domain 81
GREB1	1.149	GREB1; KIAA0575	NM 148903	GREB1 protein
ACTN2	1.149	ACTN2	NM 001103	actinin, alpha 2
DMPK	1.149	DM; DM1; DMK; DM1PK	NM 004409	dystrophia myotonica-protein kinase
HIST1H	1.149	H4/I; H4FI	NM 003544	histone 1, H4b
4B	1.149	114/1, 11411	INIVI_003344	ilistolie 1, 1140
S100A9	1.148	MIF; NIF; P14; CAGB; CFAG; CGLB; L1AG;	NM 002965	S100 calcium binding protein A9
5100/17	1.140	LIAG; MRP14; 60B8AG; MAC387	14111_002505	5100 calcium omanig protein 715
C14ORF	1.148	FLJ20671; MGC74723	NM 017924	chromosome 14 open reading frame 119
119				
LRRC4	1.148	NGL1; NGL-1; KIAA1580	NM 020929	leucine rich repeat containing 4C
C			_	
RSN	1.148	CLIP; CLIP1; CYLN1; CLIP170; CLIP-170;	NM_002956	restin (Reed-Steinberg cell-expressed intermediate filament-
		MGC131604		associated protein)
OS9	1.148	OS9	NM_001017	amplified in osteosarcoma
			956	
PPARBP	1.148	PBP; MED1; CRSP1; RB18A; TRIP2; CRSP200;	NM_004774	PPAR binding protein
		DRIP205; DRIP230; PPARGBP; TRAP220;		
TD 150 5 4		MGC71488	27.6 050220	
ZNF354	1.147	KID2; FLJ25008; MGC138316	NM_058230	zinc finger protein 354B
B	1.147		NIM 100207	
ING4	1.147	BING BONA MOCOODS	NM_198287	
IHPK1	1.147	PiUS; IP6K1; MGC9925	NM_153273	inositol hexaphosphate kinase 1
CASKIN	1.147	ANKS5B; FLJ21609; KIAA1139	NM_020753	CASK interacting protein 2
2 DDVDID	1 146	C114: FLJ13902	NM 024652	DDVD interacting protein 1 (II 11 industrial
PRKRIP	1.146	C114, FLJ13702	NM_024653	PRKR interacting protein 1 (IL11 inducible)
CASP8	1.145	<u> </u>	NM_033357	
DEFB32	1.145	DEFB32; UNQ827	NM_033337 NM_207469	defensin, beta 32 (UNQ827) (DEFB32)
GCC2	1.145	GCC185; KIAA0336	NM 181453	GRIP and coiled-coil domain containing 2
ATF3	1.143	ATF3	NM 004024	activating transcription factor 3
DGKD	1.144	dgkd-2; DGKdelta; KIAA0145	NM 152879	diacylglycerol kinase, delta 130kDa
C5ORF3	1.144	133K02	NM 018691	chromosome 5 open reading frame 3
GIF	1.143	IF; INF; IFMH; TCN3	NM 005142	gastric intrinsic factor (vitamin B synthesis)
KRTAP	1.143	KAP21.1	NM_181619	keratin associated protein 21-1
21-1				
NTRK1	1.141	MTC; TRK; TRK1; TRKA; p140-TrkA;	NM 001007	neurotrophic tyrosine kinase, receptor, type 1
	<u> </u>	DKFZp781I14186	792	, 1 , 21
CATSPE	1.141	CATSPER; MGC33335; MGC33368	NM_053054	cation channel, sperm associated 1
R1	<u></u>			· *
MAGEA	1.141	MAGE12	NM_005367	melanoma antigen family A, 12
12				
EMCN	1.14	EMCN2; MUC14	NM_016242	endomucin
SUMO4	1.14	IDDM5; SMT3H4; SUMO-4; dJ281H8.4	NM_001002	SMT3 suppressor of mif two 3 homolog 4 (S. cerevisiae)
mrc : -		TO IT. DOLUMEND.	255	
TICAM1	1.139	TRIF; PRVTIRB; TICAM-1; MGC35334	NM_014261	toll-like receptor adaptor molecule 1
ZNF574	1.139	FP972; FLJ22059	NM_022752	zinc finger protein 574
ZNF563	1.139	FLJ34797	NM_145276	zinc finger protein 563
NEK7	1.138	JMJD1B	NM_133494	NIMA (never in mitosis gene a)-related kinase 7
FASTK	1.138	FAST	NM_006712	Fas-activated serine/threonine kinase
DDA1	1.138	DDA1; PCIA1; MGC2594	NM_024050	chromosome 19 open reading frame 58
KRT20	1.136	K20; CK20; KRT21; MGC35423	NM_019010	keratin 20
	1.136		NM_144995	T WO WILL THE TOTAL THE TAIL THE THE TAIL THE THE TAIL THE THE TAIL THE THE
DHX57				
DHX57 WISP1	1.136	CCN4; WISP1c; WISP1i; WISP1tc	NM_080838	WNT1 inducible signaling pathway protein 1
DHX57 WISP1 ZNF654	1.136 1.136	FLJ10997; FLJ21142	NM_018293	zinc finger protein 654
DHX57 WISP1	1.136			

YTHDC	1.136	YT521; YT521-B; KIAA1966	NM 001031	YTH domain containing 1
1	1.130	11321, 11321-B, KIAA1900	732	i i i domain containing i
RNF146	1.135	dJ351K20.1; RP3-351K20.1; DKFZP434O1427	NM_030963	ring finger protein 146
LOC512 33	1.134	LOC51233; MGC33025; MGC75009	NM_016449	hypothetical protein LOC51233
FLJ3379	1.133		NM 173583	
0 KRTAP	1 122	KDTA DIO 4	200,000	1
12-4	1.133	KRTAP12.4	NM_198698	keratin associated protein 12-4
OXGR1	1.133	GPR80; GPR99; P2Y15; P2RY15; MGC119206;	NM_080818	oxoglutarate (alpha-ketoglutarate) receptor 1
BTBD12	1.133	MGC119207; MGC119208 KIAA1784; KIAA1987	NM 032444	BTB (POZ) domain containing 12
CS CS	1.133	CS	NM 198324	citrate synthase
TSGA10	1.131	CEP4L	NM 025244	testis specific, 10
MSH5	1.131	G7; NG23; MutSH5; MGC2939;	NM_025259	mutS homolog 5 (E. coli)
MRM1	1.13	DKFZp434C1615 FLJ22578	NM 024864	mitochondrial rRNA methyltransferase 1 homolog (S. cerevisiae)
LRRCC	1.129	SAP2; KIAA1764	NM 033402	leucine rich repeat and coiled-coil domain containing 1
1		·	_	
GOLGB	1.129	GCP; GCP372; GIANTIN	NM_004487	golgi autoantigen, golgin subfamily b, macrogolgin (with transmembrane signal), 1
OR10A5	1.128	JCG6; OR10A1; OR11-403	NM 178168	olfactory receptor, family 10, subfamily A, member 5
MSR1	1.128	SR-A; CD204; phSR1; phSR2; SCARA1	NM_138715	macrophage scavenger receptor 1
REXO1	1.127	REX1; ELOABP1; EloA-BP1; KIAA1138;	NM_020695	REX1, RNA exonuclease 1 homolog (S. cerevisiae)
FAIM	1.127	TCEB3BP1 FAIM1	NM 018147	Fas apoptotic inhibitory molecule
FLJ1439	1.127	FLJ14397	NM 032779	hypothetical protein FLJ14397
7			_	
C17ORF	1.127	FLJ40342	NM_152347	chromosome 17 open reading frame 57
57 HTR2A	1.127	HTR2; 5-HT2A	NM 000621	5-hydroxytryptamine (serotonin) receptor 2A
SERINC	1.126	TDE; TDE1; AIGP1; TMS-1; DIFF33; SBBI99	NM_198941	serine incorporator 3
3	1.22	HIVE DADD GET 2 DEVIA 2		l W 11 C
COL11A	1.126	HKE5; PARP; STL3; DFNA13; DFNB53	NM_080680	collagen, type XI, alpha 2
PCDHB	1.124	PCDH-BETA15	NM_018935	protocadherin beta 15
15			_	
MC5R POU4F2	1.124	MC5R	NM_005913	melanocortin 5 receptor
LOC400	1.124	BRN3B; BRN3.2; Brn-3b LOC400924	NM_004575 NM_001013	POU domain, class 4, transcription factor 2 hypothetical gene supported by AK056895
924	1.123	200.0052.	676	nypomentum gene supported by Entersoops
GLIS1	1.123	FLJ36155	NM_147193	GLIS family zinc finger 1
TXNDC 11	1.123	EFP1	NM_015914	thioredoxin domain containing 11
SVOP	1.122	DKFZp761H039	NM_018711	SV2 related protein homolog (rat)
IFNA16	1.122	IFNA21	NM_002173	interferon, alpha 16
FBXL22 DCT	1.122	Fbl22; FLJ39626; MGC75496 TYRP2	NM_203373	F-box and leucine-rich repeat protein 22
DC1	1.122	1 YRP2	NM_001922	dopachrome tautomerase (dopachrome delta-isomerase, tyrosine- related protein 2)
LILRB1	1.122	CD85; ILT2; LIR1; MIR7; CD85J; LIR-1; MIR-7	NM_006669	leukocyte immunoglobulin-like receptor, subfamily B (with TM
SUPT6H	1 101	CDTC, CDTCH, and S. VIA A01/2, MCC07042	NIM 002170	and ITIM domains), member 1
KIAA09	1.121	SPT6; SPT6H; emb-5; KIAA0162; MGC87943 FLJ00173	NM_003170 NM_014963	suppressor of Ty 6 homolog (S. cerevisiae) KIAA0963
63			_	111 110,703
TIAM2	1.12	STEF; FLJ41865	NM_012454	T-cell lymphoma invasion and metastasis 2
TRIM7 DUX4C	1.119	GNIP; RNF90 DUX4C	NM_203297 NM_001023	tripartite motif-containing 7 double homeobox 4c
DOX4C	1.11)	Бохче	569	double nonicooox 4c
SLC35E	1.119	KIAA0447; MGC104754; MGC117254;	NM_182838	solute carrier family 35, member E2
HGF	1.118	MGC126715; MGC138494; DKFZp686M0869 SF; HGFB; HPTA; F-TCF	NM 001010	hepatocyte growth factor (hepapoietin A; scatter factor)
iidi	1.110	51, 1101 B, 111 1A, 1-1C1	934	nepatocyte growth factor (nepapotetin A, seatter factor)
ZNF682	1.118	FLJ90362; BC39498_3	NM_033196	zinc finger protein 682
GARNL 4	1.118	RAP1GA3; KIAA1039; DKFZp686O238	NM_015085	GTPase activating Rap/RanGAP domain-like 4
FAM69	1.117	FLJ23493	NM 001006	family with sequence similarity 69, member A
A			605	
LASS2 CNR2	1.117	L3; SP260; TMSG1; MGC987; FLJ10243 CB2; CX5	NM_013384 NM_001841	LAG1 longevity assurance homolog 2 (S. cerevisiae) cannabinoid receptor 2 (macrophage)
INVS	1.117	INV; NPH2; NPHP2; KIAA0573; MGC133080;	NM_001841 NM_183245	inversin (macropnage)
		MGC133081	_	
KRT16	1.116	K16; CK16; K1CP; NEPPK; KRT16A	NM_005557	keratin 16 (focal non-epidermolytic palmoplantar keratoderma)
LRRC39 CCDC27	1.116 1.115	MGC14816; DKFZp313O1122 FLJ32825; MGC138313; MGC138317; RP1-	NM_144620 NM_152492	leucine rich repeat containing 39 coiled-coil domain containing 27
		286D6.1	1132472	Total Control Containing 27
RBKS	1.114	RBSK; DKFZp686G13268	NM_022128	ribokinase
DPM2	1.114	1.0C136262	NM_152690 NM 145233	zina fingar protain 625
ZNF625 RNF148	1.113	LOC136263 MGC35222	NM_145233 NM_198085	zinc finger protein 625 ring finger protein 148
F2	1.113	PT	NM_000506	coagulation factor II (thrombin)
RHOBT	1.111	DBC2; KIAA0717	NM_015178	Rho-related BTB domain containing 2
B2 ZNF595	1.111	FLJ31740	NM 182524	zinc finger protein 595
ZNF567	1.111	MGC45586	NM_152603	zinc finger protein 575
CCDC62	1.11	aaa; TSP-NY; FLJ40344	NM_032573	coiled-coil domain containing 62
SCN8A	1.109	MED; Nav1.6	NM_014191	sodium channel, voltage gated, type VIII, alpha
ZNF642 OR1D2	1.109	Zfp69; FLJ16030; RP11-656D10.2 OLFR1; OR17-4; MGC119942; MGC119943	NM_198494 NM_002548	zinc finger protein 642 olfactory receptor, family 1, subfamily D, member 2
P2RX7	1.109	P2X7; MGC20089	NM_002562	purinergic receptor P2X, ligand-gated ion channel, 7
LOC400	1.108	LOC400891	NM_001013	similar to chromosome 14 open reading frame 166B
SMR3B	1.108	P-B; PRL3; PROL3; MGC104379	675 NM 006685	submaxillary gland androgen regulated protein 3 homolog B
OMINJD	1.100	2,1102,11023, NGC1073/7	1111_000003	(mouse)
CLEC4	1.108	MCL; MPCL; CLEC6; CLEC-6; CLECSF8;	NM_080387	C-type lectin domain family 4, member D
D TAOK2	1 100	MGC40078	NM 01/201	TAO kinggo 2
TAOK3	1.108	DPK; JIK; MAP3K18; FLJ31808;	NM_016281	TAO kinase 3

		T =	1	
FLJ4104	1.108	DKFZp666H245 FLJ41046	NM 207479	FLJ41046 protein
6	1.106	FLJ41040	NWI_207479	FL341040 protein
ZNF471	1.107	ERP1; Z1971; KIAA1396	NM_020813	zinc finger protein 471
MGC39	1.106	MGC39715	NM_152628	hypothetical protein MGC39715
715 L3MBT	1.106	MBT1; MBT-1; RP11-73O6.1	NM 032438	l(3)mbt-like 3 (Drosophila)
L3MB1	1.100	MB11, MB1-1, RF11-/300.1	NWI_032438	i(3)mot-like 3 (Diosophila)
ANKH	1.105	ANK; CMDJ; HANK; MANK; CCAL2; CPPDD;	NM_054027	ankylosis, progressive homolog (mouse)
PD1 (12)	4.405	FLJ27166	337.004022	10.00
PPM1B	1.105	PP2CB; MGC21657; PP2CBETA; PPC2BETAX; PP2C-beta-X	NM_001033 556	protein phosphatase 1B (formerly 2C), magnesium-dependent, beta isoform
CACNA	1.105	MHS5; HOKPP; hypoPP; CCHL1A3; CACNL1A3	NM_000069	calcium channel, voltage-dependent, L type, alpha 1S subunit
1S			_	
ZNF132 GABRB	1.105	pHZ-12; MGC126390; MGC126391	NM_003433	zinc finger protein 132
3 3	1.104	MGC9051	NM_021912	gamma-aminobutyric acid (GABA) A receptor, beta 3
C21ORF	1.103	PRED79; FLJ31940; MGC15873	NM_032920	chromosome 21 open reading frame 124
124				
TSC1	1.103	LAM; TSC; KIAA0243; MGC86987	NM_001008 567	tuberous sclerosis 1
OR4K14	1.102	OR14-18; OR14-22	NM 001004	olfactory receptor, family 4, subfamily K, member 14
			712	
TIGD4	1.102	MGC43837	NM_145720	tigger transposable element derived 4
U1SNR NPBP	1.102	U1SNRNPBP; HM-1; MGC138160	NM_180699	U11/U12 snRNP 35K
GPR133	1.101	PGR25; FLJ16770; MGC138512; MGC138514;	NM 198827	G protein-coupled receptor 133
		DKFZp434B1272	_	
NKX2-8	1.101	NKX2H; NKX2.8; Nkx2-9	NM_014360	NK2 transcription factor related, locus 8 (Drosophila)
PRKCB P1	1.101	RACK7; ZMYND8; PRO2893; MGC31836	NM_183047	protein kinase C binding protein 1
RFX3	1.1	MGC87155; bA32F11.1	NM_134428	regulatory factor X, 3 (influences HLA class II expression)
OR5AT1	1.099	OR5W2	NM_001001	olfactory receptor, family 5, subfamily AT, member 1
ZDIIIC	1.000	7NF275, VIA 41740, DVF7D50/V0524	966	-in-fa DIHIC to a section 5
ZDHHC 5	1.098	ZNF375; KIAA1748; DKFZP586K0524	NM_015457	zinc finger, DHHC-type containing 5
LOC510	1.098	LOC51057; DKFZp686C12204	NM_015910	hypothetical protein LOC51057
57	4.00	DDV 0	277.6 004.004	Copy I
CBWD5	1.097	RPL9	NM_001024 916	COBW domain containing 5
LRMP	1.097	JAW1	NM 006152	lymphoid-restricted membrane protein
FUT6	1.096	FT1A; FLJ40754	NM_000150	fucosyltransferase 6 (alpha (1,3) fucosyltransferase)
THAP3	1.095	MGC33488	NM_138350	THAP domain containing, apoptosis associated protein 3
WNT16	1.095	PRKCBP1	NM_057168	wingless-type MMTV integration site family, member 16
IRF4	1.095	MUM1; LSIRF	NM_002460	interferon regulatory factor 4
LIG3	1.094	LIG3	NM_002311	ligase III, DNA, ATP-dependent
OR4F4	1.094	OR4F18; OLA-7501	NM_001004	olfactory receptor, family 4, subfamily F, member 4
	1.004	g 11 Mggggggg	195	
CNIH2	1.094	Cnil; MGC50896	NM_182553	cornichon homolog 2 (Drosophila)
FLJ3574	1.094	FLJ35740; ANKRD18A; FLJ40632	NM_147195	FLJ35740 protein
			NM_147195 NM_001033	
FLJ3574 0 LOC613 266	1.094	FLJ35740; ANKRD18A; FLJ40632	NM_147195 NM_001033 516	FLJ35740 protein
FLJ3574 0 LOC613 266 FLJ2115	1.094	FLJ35740; ANKRD18A; FLJ40632	NM_147195 NM_001033	FLJ35740 protein
FLJ3574 0 LOC613 266	1.094	FLJ35740; ANKRD18A; FLJ40632	NM_147195 NM_001033 516	FLJ35740 protein
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5	1.094 1.093 1.092	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG	NM_147195 NM_001033 516 NM_024826 NM_014070	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP	1.094 1.093 1.092	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606	NM_147195 NM_001033 516 NM_024826	FLJ35740 protein hypothetical LOC613266
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5	1.094 1.093 1.092	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3	NM_147195 NM_001033 516 NM_024826 NM_014070	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3	1.094 1.093 1.092 1.092 1.091	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX	1.094 1.093 1.092 1.092 1.091 1.09	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked)
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21	1.094 1.093 1.092 1.092 1.091 1.09	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_012475	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21
FLJ3574 0 LOC613 266 FLJ2115 9 C60RF1 5 KRTAP 9-3 AMELX USP21 ZNF406	1.094 1.093 1.092 1.092 1.091 1.09 1.09	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_012475 NM_020863	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG: AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zine finger protein 406 guanien nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.09 1.089	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965;	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.089 1.088 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKEZP\$86M0122	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.09 1.089 1.089	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965;	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zine finger protein 406 guanien nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.089 1.088 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKEZP\$86M0122	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.088 1.087 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_000494 NM_181481	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.088 1.087 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_000494 NM_181481 NM_017490	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 mollecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.088 1.087 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213;	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_000494 NM_181481	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 MARK2 MYEF2 FBXW1	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.088 1.087 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZPS86M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120386;	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_000494 NM_181481 NM_017490	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 mollecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.088 1.087 1.087 1.087 1.085 1.084	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120385; MGC120386; MGC120387	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_000494 NM_181481 NM_017490 NM_016132 NM_016132	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2 FBXW1 2 RBM35	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.089 1.087 1.087 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZPS86M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120386;	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_012475 NM_020863 NM_016541 NM_197975 NM_0015425 NM_0015425 NM_001644 NM_181481 NM_181481 NM_017490 NM_016132	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 MARK2 MYEF2 FBXW1 2 RBM35 B	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.089 1.087 1.087 1.087 1.085 1.084 1.084	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKEZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_015425 NM_001772 NM_015425 NM_017490 NM_016132 NM_016132 NM_024939	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2 FBXW1 2 RBM35	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.088 1.087 1.087 1.087 1.085 1.084	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120385; MGC120386; MGC120387	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_000494 NM_181481 NM_017490 NM_016132 NM_016132	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12
FLJ3574 0 LOC613 266 FLJ2115 9 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 MARK2 MYEF2 FBXW1 2 RBM35 B CDSN COSR5 0	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.089 1.087 1.087 1.087 1.085 1.084 1.084 1.084 1.084	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AlH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RP01-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXC035; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248 S; HTSS; D6S586E FLJ35803	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_015425 NM_0015425 NM_016541 NM_181481 NM_017490 NM_016132 NM_016132 NM_024939 NM_024939 NM_001264 NM_199350	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B corneodesmosin chromosome 9 open reading frame 50
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2 FBXW1 2 RBM35 B CDSN C9ORF5 0 KIAA05	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.089 1.089 1.087 1.087 1.087 1.087 1.084 1.084 1.084	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP\$86M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HsT18564; KIAA1341; MGC87325 Fbw12; FBXQ35; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248 S; HTSS; D68586E	NM_147195 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_012475 NM_020863 NM_016541 NM_0197975 NM_001772 NM_01772 NM_015425 NM_000494 NM_181481 NM_017490 NM_016132 NM_024939 NM_024939 NM_001264	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B corneodesmosin
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FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 MARK2 MYEF2 FBXW1 2 RBM35 B CDSN C9ORF5 0 KIAA05 56 OR2M7 CMIP NEIL1 RAB33B GNRH1 PDZD7	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.09 1.089 1.089 1.087 1.087 1.087 1.087 1.087 1.084 1.084 1.084 1.083 1.083 1.083 1.083 1.083 1.083 1.083 1.087	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ0391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HsT18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248 S; HTSS; D6S586E FLJ35803 KIAA0556 OR1-58 CMIP; KIAA1694 NEI1; hFPG1; FLJ22402 MGC138182; DKFZP434G099 GRH; GNRH; LHRH; LNRH	NM_147195 NM_001033 516 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_01142 NM_012475 NM_020863 NM_016541 NM_197975 NM_015425 NM_0015425 NM_015425 NM_01641 NM_181481 NM_017490 NM_016132 NM_016132 NM_016132 NM_016132 NM_016132 NM_017490 NM_016132 NM_016132 NM_017490 FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) 1 polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B corneodesmosin chromosome 9 open reading frame 50 KIAA0556 olfactory receptor, family 2, subfamily M, member 7 c-Maf-inducing protein nei endonuclease VIII-like 1 (E. coli) RAB33B, member RAS oncogene family gonadotropin-releasing hormone 1 (luteinizing-releasing hormone) PDZ domain containing 7	
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2 FBXW1 2 RBM35 B CDSN C9ORF5 0 KIAA05 56 OR2M7 CMIP NEIL1 RAB33B GNRH1 PDZD7 PRH1	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.09 1.089 1.087 1.087 1.087 1.087 1.083 1.084 1.084 1.084 1.084 1.083 1.083 1.083 1.083 1.083 1.083 1.083	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HsT18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248 S; HTSS; D6S586E FLJ35803 KIAA0556 OR1-58 CMIP; KIAA1694 NEI1; hFPG1; FLJ22402 MGC138182; DKFZP434G099 GRH; GNRH; LHRH; LNRH	NM_147195 NM_001033 516 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_020863 NM_016541 NM_012475 NM_0015425 NM_00172 NM_015425 NM_0016132 NM_016132 NM_020863 NM_016132 NM_020939 NM_024939 NM_015004 NM_015004 NM_015005	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B corneodesmosin chromosome 9 open reading frame 50 KIAA0556 olfactory receptor, family 2, subfamily M, member 7 c-MaF-inducing protein nei endonuclease VIII-like 1 (E. coli) RAB33B, member RAS oncogene family gonadotropin-releasing hormone 1 (luteinizing-releasing hormone) PDZ domain containing 7 proline-rich protein HaeIII subfamily 1
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2 FBXW1 2 RBM35 B CDSN C9ORF5 0 KIAA05 56 OR2M7 CMIP NEIL1 RAB33B GNRH1 PDZD7 PRH1 TIAF1	1.094 1.093 1.092 1.092 1.091 1.091 1.09 1.09 1.09 1.089 1.087 1.087 1.087 1.087 1.083 1.084 1.084 1.084 1.083 1.083 1.083 1.083 1.083 1.083 1.083 1.083	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248 S; HTSS; D6S586E FLJ35803 KIAA0556 OR1-58 CMIP; KIAA1694 NEI1; hFPG1; FLJ22402 MGC138182; DKFZP434G099 GRH; GNRH; LHRH; LNRH PDZK7 Pa MAJN; MYO18A; MYSPDZ; SPR210	NM_147195 NM_001033 516 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_0016132 NM_016132 NM_016132 NM_016132 NM_024939 NM_01264 NM_199350 NM_01264 NM_199350 NM_015202	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B corneodesmosin chromosome 9 open reading frame 50 KIAA0556 olfactory receptor, family 2, subfamily M, member 7 c-Maf-inducing protein nei endonuclease VIII-like 1 (E. coli) RAB33B, member RAS oncogene family gonadotropin-releasing hormone 1 (luteinizing-releasing hormone) PDZ domain containing 7 proline-rich protein HaeIII subfamily 1 TGFB1-induced anti-apoptotic factor 1
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2 FBXW1 2 RBM35 B CDSN C9ORF5 0 KIAA05 56 OR2M7 CMIP NEIL1 RAB33B GNRH1 PDZD7 PRH1	1.094 1.093 1.092 1.092 1.091 1.09 1.09 1.09 1.09 1.089 1.087 1.087 1.087 1.087 1.083 1.084 1.084 1.084 1.084 1.083 1.083 1.083 1.083 1.083 1.083 1.083	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 b2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HsT18564; KIAA1341; MGC87325 Fbw12; FBX035; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248 S; HTSS; D6S586E FLJ35803 KIAA0556 OR1-58 CMIP; KIAA1694 NEI1; hFPG1; FLJ22402 MGC138182; DKFZP434G099 GRH; GNRH; LHRH; LNRH PDZK7 Pa MAJN; MYO18A; MYSPDZ; SPR210 PSK; PSK1; TAO1; TAO2; MAP3K17;	NM_147195 NM_001033 516 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_020863 NM_016541 NM_012475 NM_0015425 NM_00172 NM_015425 NM_0016132 NM_016132 NM_020863 NM_016132 NM_020939 NM_024939 NM_015004 NM_015004 NM_015005	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B corneodesmosin chromosome 9 open reading frame 50 KIAA0556 olfactory receptor, family 2, subfamily M, member 7 c-MaF-inducing protein nei endonuclease VIII-like 1 (E. coli) RAB33B, member RAS oncogene family gonadotropin-releasing hormone 1 (luteinizing-releasing hormone) PDZ domain containing 7 proline-rich protein HaeIII subfamily 1
FLJ3574 0 LOC613 266 FLJ2115 9 C6ORF1 5 KRTAP 9-3 AMELX USP21 ZNF406 GNG13 BTNL3 CD33 POLR1 A COL17A 1 C18ORF 1 MARK2 MYEF2 FBXW1 2 RBM35 B CDSN C9ORF5 0 KIAA05 56 OR2M7 CMIP NEIL1 RAB33B GNRH1 PDZD7 PRH1 TIAF1	1.094 1.093 1.092 1.092 1.091 1.091 1.09 1.09 1.09 1.089 1.087 1.087 1.087 1.087 1.083 1.084 1.084 1.084 1.083 1.083 1.083 1.083 1.083 1.083 1.083 1.083	FLJ35740; ANKRD18A; FLJ40632 LOC613266; FLJ43606 STG KAP9.3; KRTAP9.3 AMG; AIH1; ALGN; AMGL; AMGX USP16; USP23; MGC3394 KIAA1485; MGC126815; MGC126817 h2-35; G(gamma)13 BTNLR p67; SIGLEC3; FLJ00391; SIGLEC-3 RPA1; RPO1-4; FLJ21915; MGC87965; DKFZP586M0122 BP180; BPAG2; LAD-1; KIAA0204; BA16H23.2 C18orf1 EMK1; PAR-1; MGC99619 MEF-2; MST156; MSTP156; FLJ11213; HST18564; KIAA1341; MGC87325 Fbw12; FBXO35; MGC120385; MGC120386; MGC120387 FLJ21918; FLJ22248 S; HTSS; D6S586E FLJ35803 KIAA0556 OR1-58 CMIP; KIAA1694 NEI1; hFPG1; FLJ22402 MGC138182; DKFZP434G099 GRH; GNRH; LHRH; LNRH PDZK7 Pa MAJN; MYO18A; MYSPDZ; SPR210	NM_147195 NM_001033 516 NM_001033 516 NM_024826 NM_014070 NM_031962 NM_001142 NM_012475 NM_020863 NM_016541 NM_197975 NM_001772 NM_015425 NM_0016132 NM_016132 NM_016132 NM_016132 NM_024939 NM_01264 NM_199350 NM_01264 NM_199350 NM_015202	FLJ35740 protein hypothetical LOC613266 chromosome 6 open reading frame 15 keratin associated protein 9-3 amelogenin (amelogenesis imperfecta 1, X-linked) ubiquitin specific peptidase 21 zinc finger protein 406 guanine nucleotide binding protein (G protein), gamma 13 butyrophilin-like 3 CD33 molecule polymerase (RNA) I polypeptide A, 194kDa collagen, type XVII, alpha 1 chromosome 18 open reading frame 1 MAP/microtubule affinity-regulating kinase 2 myelin expression factor 2 F-box and WD-40 domain protein 12 RNA binding motif protein 35B corneodesmosin chromosome 9 open reading frame 50 KIAA0556 olfactory receptor, family 2, subfamily M, member 7 c-Maf-inducing protein nei endonuclease VIII-like 1 (E. coli) RAB33B, member RAS oncogene family gonadotropin-releasing hormone 1 (luteinizing-releasing hormone) PDZ domain containing 7 proline-rich protein HaeIII subfamily 1 TGFB1-induced anti-apoptotic factor 1

				-
KIF3A	1.075	KIF21A	NM_007054	kinesin family member 3A
FLJ4542	1.075	FLJ45422	NM_001004	FLJ45422 protein
USP16	1.073	TIDD 14	349	1: '2' '8' 21 16
USPIO	1.0/3	UBP-M	NM_001032 410	ubiquitin specific peptidase 16
ARPP-	1.073	ARPP-21	NM 198399	cyclic AMP-regulated phosphoprotein, 21 kD
21	1.073	AKI 1-21	INIVI_190399	cyclic Aivir -regulated phosphoprotein, 21 kD
ABCG1	1.072	ABC8; WHITE1; MGC34313	NM 004915	ATP-binding cassette, sub-family G (WHITE), member 1
AIM2	1.071	PYHIN4	NM 004833	absent in melanoma 2
CDH7	1.071	CDH7L1	NM 033646	cadherin 7, type 2
LOC442	1.07	FLJ44005	NM 001013	family with sequence similarity 47, member C
444			736	
BIRC8	1.07	ILP2; ILP-2; hILP2	NM_033341	baculoviral IAP repeat-containing 8
C5ORF4	1.07	FLJ13758	NM_032385	chromosome 5 open reading frame 4
TRIM54	1.069	MURF; RNF30; MURF-3	NM_187841	tripartite motif-containing 54
RXRG	1.069	RXRC; NR2B3	NM_001009	retinoid X receptor, gamma
			598	
IFNA10	1.068	MGC119878; MGC119879	NM_002171	interferon, alpha 10
AICDA	1.068	AID; ARP2; CDA2; HIGM2	NM_020661	activation-induced cytidine deaminase
ZYG11	1.068		NM_001004	
A CYP4A2	1.066	BCAS4	339 NM 001010	cytochrome P450, family 4, subfamily A, polypeptide 22
2 1 P4A2	1.000	BCA54	969	Cytochrome P450, family 4, subtainity A, porypeptide 22
SEC24B	1.066	SEC24; MGC48822	NM 006323	SEC24 related gene family, member B (S. cerevisiae)
CCNB3	1.066	CCNB3	NM 033031	cyclin B3
NTN1	1.065	NTNIL	NM 004822	netrin 1
FLJ3837	1.065	FLJ38377	NM 152698	hypothetical protein FLJ38377
7	1.005	- 230377	1132076	Type metical protein 1 200011
CABP2	1.064	CABP2	NM 031204	calcium binding protein 2
KIAA07	1.059	KIAA0703; SPCA2; ATP2C2; DKFZp686H22230	NM_014861	KIAA0703 gene product
03		*	_	
TRPM2	1.058	KNP3; EREG1; TRPC7; LTRPC2; NUDT9H;	NM_001001	transient receptor potential cation channel, subfamily M, member
		NUDT9L1; MGC133383	188	2
DLGAP	1.058	GKAP; DAP-1; hGKAP; SAPAP1; MGC88156;	NM_001003	discs, large (Drosophila) homolog-associated protein 1
1		DAP-1-BETA; DAP-1-ALPHA	809	
OR4F5	1.057	OR2T3	NM_001005	olfactory receptor, family 4, subfamily F, member 5
000000	1055	FI 185000	484	
CCDC67	1.055	FLJ25393	NM_181645	coiled-coil domain containing 67
NDUFC	1.055	B14.5b; NADHDH2	NM_004549	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2,
POU2F1	1.054	OCT1; OTF1	NM 002697	14.5kDa POU domain, class 2, transcription factor 1
KCTD2	1.034	KIAA0176	NM 015353	potassium channel tetramerisation domain containing 2
KIAA17	1.049	KIAA0176 KIAA1754L	NM 178495	KIAA1754-like
54L	1.049	KHUU1/54E	1414_170495	KH II II J J J IKC
COL14A	1.048	UND	NM 021110	collagen, type XIV, alpha 1 (undulin)
1	1.0.0	C.LD	021110	conagen, type 111 v, aipha 1 (andann)
C3ORF3	1.039		NM 178343	
5			_	
AAK1	1.035	KIAA1048; MGC138170	NM_014911	AP2 associated kinase 1
HCN4	1.033	HCN4	NM_005477	hyperpolarization activated cyclic nucleotide-gated potassium
				channel 4
APBB1	1.032	RIR; FE65; MGC:9072	NM_001164	amyloid beta (A4) precursor protein-binding, family B, member 1
LOPID	1.022	1 004	NIN 6 1702.52	(Fe65)
LCE1D IL17C	1.032 1.025	LEP4 CX2; IL-21; IL-17C; MGC126884; MGC138401	NM_178352 NM_013278	late cornified envelope 1D interleukin 17C
TCEAL4	1.023	NPD017; FLJ21174; DKFZp686M0279	NM 024863	transcription elongation factor A (SII)-like 4
TBC1D1	0.97	FLJ00332; MGC46488	NM 198517	TBC1 domain family, member 10C
OC	0.57	1 L300332, WIGC40400	14141_176517	The I domain laining, member 100
BPESC1	0.968		NM 021812	
TMEM1	0.967	FLJ42643; DKFZp761L1417	NM 152913	transmembrane protein 130
30				The state of the s
WNT2B	0.964			
FLJ9057		WNT13; XWNT2	NM_004185	wingless-type MMTV integration site family, member 2B
	0.96	WNT13; XWNT2 FLJ90575; MGC138479	NM_004185 NM_153376	wingless-type MMTV integration site family, member 2B coiled-coil domain containing 96
5			NM_153376	
5 KLK9	0.96 0.954	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3		coiled-coil domain containing 96 kallikrein 9
5	0.96	FLJ90575; MGC138479	NM_153376	coiled-coil domain containing 96 kallikrein 9 KRRI, small subunit (SSU) processome component, homolog
5 KLK9 HRB2	0.96 0.954 0.948	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1	NM_153376 NM_012315 NM_007043	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast)
5 KLK9	0.96 0.954	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3	NM_153376 NM_012315	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase
5 KLK9 HRB2 CDIPT	0.96 0.954 0.948 0.947	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328	NM_153376 NM_012315 NM_007043 NM_006319	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase)
5 KLK9 HRB2 CDIPT	0.96 0.954 0.948 0.947	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII
5 KLK9 HRB2 CDIPT	0.96 0.954 0.948 0.947	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152;	NM_153376 NM_012315 NM_007043 NM_006319	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase)
5 KLK9 HRB2 CDIPT SYT12 SENP3	0.96 0.954 0.948 0.947 0.942 0.942	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3
KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667	0.96 0.954 0.948 0.947 0.942 0.942 0.94	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667
SYT12 SENP3 ZNF667 IPO7	0.96 0.954 0.948 0.947 0.942 0.942 0.94 0.939	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptolagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA	0.96 0.954 0.948 0.947 0.942 0.942 0.94	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667
SYT12 SENP3 ZNF667 IPO7	0.96 0.954 0.948 0.947 0.942 0.942 0.94 0.939	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptolagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1	0.96 0.954 0.948 0.947 0.942 0.942 0.94 0.939 0.938	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA MI KIAA19	0.96 0.954 0.948 0.947 0.942 0.942 0.94 0.939 0.938	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1;	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C60RF8	0.96 0.954 0.948 0.947 0.942 0.942 0.94 0.939 0.938 0.938	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760 NM_052904 NM_145028	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C60RF8 1 ACYP1	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.94 0.939 0.938 0.933 0.933	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_06391 NM_130760 NM_052904 NM_145028 NM_03488	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C6ORF8 1 ACYP1 GMCL1	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.939 0.938 0.938 0.933 0.932 0.931	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760 NM_052904 NM_145028 NM_145028 NM_178439	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila)
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C6ORF8 1 ACYP1 GMCL1 TDRKH	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.94 0.939 0.938 0.938 0.933 0.931	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAMI BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_0391 NM_130760 NM_052904 NM_145028 NM_203488 NM_178439 NM_006862	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C6ORF8 1 ACYP1 GMCL1	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.939 0.938 0.938 0.933 0.932 0.931	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760 NM_052904 NM_145028 NM_145028 NM_178439	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member
SKLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA MI KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.939 0.938 0.938 0.933 0.932 0.931 0.928	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760 NM_052904 NM_145028 NM_178439 NM_008862 NM_004621	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C6ORF8 1 ACYP1 GMCL1 TDRKH	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.94 0.939 0.938 0.938 0.933 0.931	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAMI BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760 NM_052904 NM_145028 NM_178439 NM_006862 NM_004621 NM_001032	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member
S KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1	0.96 0.954 0.948 0.947 0.942 0.942 0.94 0.939 0.938 0.938 0.933 0.931 0.928	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_0391 NM_130760 NM_052904 NM_145028 NM_03488 NM_178439 NM_008862 NM_004621 NM_001032 287	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.939 0.938 0.938 0.933 0.932 0.931 0.928	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb;	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760 NM_052904 NM_145028 NM_178439 NM_006862 NM_004621 NM_001032	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMOI/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C6ORF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL B	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.939 0.938 0.938 0.933 0.931 0.931 0.928 0.927	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_006391 NM_130760 NM_052904 NM_145028 NM_178439 NM_006862 NM_004621 NM_001032 287 NM_032579	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1 resistin like beta
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL B PON3	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.938 0.938 0.938 0.933 0.931 0.931 0.928 0.927	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta PON3	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_032103 NM_052904 NM_145028 NM_052904 NM_145028 NM_006862 NM_006862 NM_004621 NM_001032 287 NM_001032 287 NM_000940	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1 resistin like beta paraoxonase 3
S KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA MI KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL B PON3 CDON	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.939 0.938 0.938 0.933 0.932 0.931 0.928 0.927 0.927	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta PON3 CD0; ORCAM; MGC111524	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_06391 NM_130760 NM_052904 NM_145028 NM_145028 NM_004621 NM_001032 287 NM_001032 NM_0032579 NM_000940 NM_009940 NM_016952	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1 resistin like beta paraoxonase 3 Cdon homolog (mouse)
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL B PON3	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.938 0.938 0.938 0.933 0.931 0.931 0.928 0.927	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta PON3	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_032103 NM_052904 NM_145028 NM_052904 NM_145028 NM_006862 NM_006862 NM_004621 NM_001032 287 NM_001032 287 NM_000940	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1 resistin like beta paraoxonase 3
S KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA MI KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL B PON3 CDON	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.939 0.938 0.938 0.933 0.932 0.931 0.928 0.927 0.927	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta PON3 CD0; ORCAM; MGC111524	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_06391 NM_130760 NM_052904 NM_145028 NM_145028 NM_004621 NM_001032 287 NM_001032 NM_0032579 NM_000940 NM_009940 NM_016952	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1 resistin like beta paraoxonase 3 Cdon homolog (mouse) potassium voltage-gated channel, subfamily H (eag-related),
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C6ORF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL B PON3 CDON KCNH2 PARVB	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.938 0.938 0.938 0.938 0.931 0.928 0.927 0.927 0.922 0.922	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta PON3 CD0; ORCAM; MGC111524 ERG1; HERG; LQT2; SQT1; HERG1; Kv11.1	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_03391 NM_130760 NM_052904 NM_145028 NM_03488 NM_178439 NM_008862 NM_004621 NM_001032 287 NM_0032579 NM_00940 NM_016952 NM_172057	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1 resistin like beta paraoxonase 3 Cdon homolog (mouse) potassium voltage-gated channel, subfamily H (eag-related), member 2 parvin, beta
5 KLK9 HRB2 CDIPT SYT12 SENP3 ZNF667 IPO7 MADCA M1 KIAA19 00 C60RF8 1 ACYP1 GMCL1 TDRKH TRPC6 NR2C1 RETNL B PON3 CDON KCNH2	0.96 0.954 0.948 0.947 0.942 0.942 0.942 0.948 0.938 0.938 0.938 0.938 0.931 0.931 0.928 0.927 0.927 0.925 0.922	FLJ90575; MGC138479 KLK8; KLKL3; KLK-L3 HRB2; RIP-1 PIS; PIS1; MGC1328 SRG1; SYT11 SSP3; SMT3IP1; DKFZp762A152; DKFZP586K0919 FLJ14011; DKFZp686O111 RANBP7; MGC138673 MACAM1 BKLHD5; MGC51280; MGC87753; dJ21F7.1; UG0030H05; RP1-39B17.1 FLJ25390 ACYPE GCL; GCL1; BTBD13 TDRD2 TRP6; FSGS2; FLJ11098; FLJ14863 TR2; TR2-11 XCP2; FIZZ1; FIZZ2; HXCP2; RELMb; RELMbeta; RELM-beta PON3 CD0; ORCAM; MGC111524 ERG1; HERG; LQT2; SQT1; HERG1; Kv11.1	NM_153376 NM_012315 NM_007043 NM_006319 NM_177963 NM_015670 NM_022103 NM_03210 NM_130760 NM_052904 NM_145028 NM_004621 NM_006862 NM_004621 NM_001032 287 NM_001032 287 NM_032579 NM_000940 NM_016952 NM_172057	coiled-coil domain containing 96 kallikrein 9 KRR1, small subunit (SSU) processome component, homolog (yeast) CDP-diacylglycerolinositol 3-phosphatidyltransferase (phosphatidylinositol synthase) synaptotagmin XII SUMO1/sentrin/SMT3 specific peptidase 3 zinc finger protein 667 importin 7 mucosal vascular addressin cell adhesion molecule 1 KIAA1900 chromosome 6 open reading frame 81 acylphosphatase 1, erythrocyte (common) type germ cell-less homolog 1 (Drosophila) tudor and KH domain containing transient receptor potential cation channel, subfamily C, member 6 nuclear receptor subfamily 2, group C, member 1 resistin like beta paraoxonase 3 Cdon homolog (mouse) potassium voltage-gated channel, subfamily H (eag-related), member 2

GIMAP8	0.917	IANT; hIAN6; MGC129545; DKFZp667I133	NM_175571	GTPase, IMAP family member 8
MCOLN	0.913	TRPML3; FLJ11006; MGC71509	NM_018298	mucolipin 3
3	0.012	GIP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	377.4.20200	2000
CLYBL	0.912	CLB; bA134O15.1	NM_138280	citrate lyase beta like
C1S	0.911	MSR1	NM_201442	complement component 1, s subcomponent
PRDM1	0.909	PFM7; KIAA1231; MGC131802	NM_020228	PR domain containing 10
0 MATNIA	0.909	EL HAA17, HEGWCD54	NIM 020500	moduliin 4
MATN4		FLJ14417; HE6WCR54	NM_030590	matrilin 4
ZNF347	0.905	ZNF1111	NM_032584	zinc finger protein 347
ATXN3	0.904	AT3; JOS; MJD; ATX3; MJD1; SCA3	NM_030660	ataxin 3
TPM4	0.903	TPM4	NM_003290	tropomyosin 4
C1ORF1	0.902	MGC111002; DKFZP564D0478; RP11-4K3A.4	NM_032125	chromosome 1 open reading frame 160
60	0.000	THE ME AND COMMON AND	277 6 00 50 51	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SLC1A6	0.902	EAAT4; MGC33092; MGC43671	NM_005071	solute carrier family 1 (high affinity aspartate/glutamate
A CTD A	0.002	ATD AD. MCC20CAC	NIM 020250	transporter), member 6
AGTRA P	0.902	ATRAP; MGC29646	NM_020350	angiotensin II receptor-associated protein
	0.002	ADC2: ADC C: I DM190: MCC72201:	NIM 001000	ATD binding county and family A (ADCI) manufactor
ABCA3	0.902	ABC3; ABC-C; LBM180; MGC72201;	NM_001089	ATP-binding cassette, sub-family A (ABC1), member 3
CACNG	0.902	EST111653 MGC126656; MGC126682	NIM 014404	-1-1
5	0.902	WGC120030, WGC120082	NM_014404	calcium channel, voltage-dependent, gamma subunit 5
CCDC74	0.901	FLJ40345	NM_138770	coiled-coil domain containing 74A
A	0.501	1 1340343	14141_136770	conca-con domain containing 74A
CABP7	0.901	MGC57793	NM 182527	calcium binding protein 7
DRD4	0.899	D4DR	NM 000797	dopamine receptor D4
GRHL1	0.899	MGR; LBP32; LBP-32; TFCP2L2	NM 198182	grainyhead-like 1 (Drosophila)
		TOK-1		
BCCIP	0.898		NM_078469	BRCA2 and CDKN1A interacting protein
Sep-06	0.897	SEP2; KIAA0128; MGC16619; MGC20339; RP5-	NM_145802	septin 6
CALCE	0.907	876A24.2	NIM 005705	ooloitamin maaantan liba
CALCR	0.897	CRLR; CGRPR	NM_005795	calcitonin receptor-like
L	0.905	<u> </u>	NIM 001014	
HSP90A	0.895		NM_001014	
B6P TRAK1	0.894	OIP106	441 NM 014065	trofficking meetain king-in kingling 1
		OIP106	NM_014965	trafficking protein, kinesin binding 1
BCL2L1	0.892		NM_138625	
1	0.007	MCMD AGENT AGENTA	NIN 6 002 47 4	4D4M (II (I 1 1 1 12 (I(11 1 1)
ADAM1	0.887	MCMP; MLTN; MLTNA; MCMPMltna	NM_003474	ADAM metallopeptidase domain 12 (meltrin alpha)
2 IOCD	0.007	4933433C09Rik	NIM 120451	IO
IQCD	0.886		NM_138451	IQ motif containing D
DGCR1	0.886	ES2; DGSI; DGS-I; Ese2el	NM_022719	DiGeorge syndrome critical region gene 14
4	0.002	TD A A IZ, TD A A IZ 1	NIM 022210	material and from the World A
KCNK4	0.883	TRAAK; TRAAK1	NM_033310	potassium channel, subfamily K, member 4
PSCD3	0.882	GRP1; ARNO3	NM_004227	pleckstrin homology, Sec7 and coiled-coil domains 3
CARD4	0.88	NOD1	NM_006092	caspase recruitment domain family, member 4
LOC116	0.88	LOC116236	NM_198147	hypothetical protein LOC116236
236	0.050	DIMIL DIMIL	277 6 00 5044	1 1/00 - 0 - 0 - 14
GDF11	0.879	BMP11; BMP-11	NM_005811	growth differentiation factor 11
PPWD1	0.878	KIAA0073	NM_015342	peptidylprolyl isomerase domain and WD repeat containing 1
TAC1	0.874	NK2; NKNA; TAC2; Hs.2563	NM_013998	tachykinin, precursor 1 (substance K, substance P, neurokinin 1,
				neurokinin 2, neuromedin L, neurokinin alpha, neuropeptide K,
SAMD1	0.873	RP11-376N17.1	NM 001010	neuropeptide gamma) sterile alpha motif domain containing 13
3 3	0.673	KF11-3/0N1/.1	971	sterne alpha moth domain containing 15
TBC1D1	0.873	TBC; TBC1; KIAA1108	NM 015173	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1
TCF19	0.873	SC1; SC1-1	NM 007109	transcription factor 19 (SC1)
FAHD2	0.873	CGI-105; MGC131995	NM 016044	fumarylacetoacetate hydrolase domain containing 2A
A	0.073	CGI-105, MGC151775	14141_010044	rumai yiaccioacciaic nyuroiasc domain containing 2A
SULT1C	0.871	ST1C1; ST1C2; SULT1C#1; humSULTC2	NM_001056	sulfotransferase family, cytosolic, 1C, member 1
1	0.071	STICI, STIC2, SOLTIC#1, numSoLTC2	14141_001030	sunotiansiciase family, cytosofic, 1C, memoer i
ZYX	0.871	ESP-2; HED-2	NM 003461	zyxin
SYCP1	0.871	SCP1; MGC104417; HOM-TES-14	NM_003176	synaptonemal complex protein 1
SYNE2	0.87	NUA; NUANCE; SYNE-2; FLJ11014; FLJ43727;	NM_015180	1 1 1
SINEZ	0.67	FLJ45710; FLJ46790; KIAA1011; Nesprin-2;	NWI_013180	spectrin repeat containing, nuclear envelope 2
		DKFZP434H2235; DKFZp686H1931		
MME	0.87	NEP; CD10; CALLA; MGC126681; MGC126707;	NM 007287	membrane metallo-endopeptidase (neutral endopeptidase,
WINE	0.07	DKFZp686O16152	1414_007207	enkephalinase, CALLA, CD10)
LOC285	0.87	LOC285382	NM 001025	hypothetical gene supported by AK091454
382			266	71 O
SNTG2	0.869	SYN5; G2SYN	NM 018968	syntrophin, gamma 2
FLJ3977	0.869	FLJ39779	NM 207442	FLJ39779 protein
9	1			· ·
CEP68	0.869	KIAA0582	NM 015147	centrosomal protein 68kDa
MTMR9	0.868	MTMR8; C8orf9; LIP-STYX; MGC126672;	NM 015458	myotubularin related protein 9
		DKFZp434K171		,
CASP3	0.868	CPP32; SCA-1; CPP32B	NM 004346	caspase 3, apoptosis-related cysteine peptidase
SCAP2	0.867	PRAP; RA70; SAPS; SKAP55R; MGC10411;	NM 003930	src family associated phosphoprotein 2
		MGC33304; SKAP-HOM		
MC1R	0.867	MSH-R; MGC14337	NM_002386	melanocortin 1 receptor (alpha melanocyte stimulating hormone
	Ī			receptor)
EVA1	0.866	EVA; MPZL2	NM 144765	epithelial V-like antigen 1
TTLL5	0.866	KIAA0998; MGC117189	NM 015072	tubulin tyrosine ligase-like family, member 5
KLHL18	0.866	FLJ13703; KIAA0795	NM 025010	kelch-like 18 (Drosophila)
SMARC	0.865	HLTF; ZBU1; HLTF1; RNF80; HIP116; SNF2L3;	NM 003071	SWI/SNF related, matrix associated, actin dependent regulator of
A3	1	HIP116A		chromatin, subfamily a, member 3
VMD2	0.864	BMD; BEST; TU15B	NM 004183	vitelliform macular dystrophy 2 (Best disease, bestrophin)
CNFN	0.864	PLAC8L2	NM 032488	cornifelin
CBFA2T	0.863	ETO2; MTG16; MTGR2; ZMYND4	NM 005187	core-binding factor, runt domain, alpha subunit 2; translocated to,
3	1	, , , , , , , , , , , , , , , , , , , ,		3
CDC91L	0.863	PIGU; MGC40420	NM 080476	CDC91 cell division cycle 91-like 1 (S. cerevisiae)
1		-,		
FSIP1	0.862	HSD10; FLJ35989	NM 152597	fibrous sheath interacting protein 1
CSTF2T	0.862	CstF-64T; KIAA0689; DKFZp434C1013	NM 015235	cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau
		, , , , , , , , , , , , , , , , , , , ,		variant
KIAA18	0.86	PGCC1; KIAA0183; KIAA1838; dJ894D12.1	NM 032448	family with sequence similarity 120B
38		, , , , , , , , , , , , , , , , , , , ,	-=====	y
			1	1
MRPS23	0.86	CGI-138; HSPC329; MRP-S23	NM 016070	mitochondrial ribosomal protein S23

NUBP2	0.859	CFD1; NUBP1	NM_012225	nucleotide binding protein 2 (MinD homolog, E. coli)
A2ML1	0.858	CPAMD9; FLJ16045; FLJ25179; FLJ39129;	NM 144670	alpha-2-macroglobulin-like 1
		FLJ41597; FLJ41598; FLJ41607;		
		DKFZp686C1729; DKFZp686D2011;		
		DKFZp686G1812; DKFZp686L1821;		
		DKFZp686O1010		
PAQR4	0.857	FLJ30002	NM_152341	progestin and adipoQ receptor family member IV
WAS	0.857	THC; IMD2; WASP	NM_000377	Wiskott-Aldrich syndrome (eczema-thrombocytopenia)
POLM	0.856	Tdt-N	NM_013284	polymerase (DNA directed), mu
NKX3-1	0.854	NKX3A; NKX3.1	NM_006167	NK3 transcription factor related, locus 1 (Drosophila)
SMARC	0.853	Rsc6p; BAF60A; CRACD1	NM_003076	SWI/SNF related, matrix associated, actin dependent regulator of
D1 VPS53	0.853	hVps53L; pp13624; FLJ10979; MGC39512	NM 018289	chromatin, subfamily d, member 1 vacuolar protein sorting 53 (S. cerevisiae)
TES	0.852	TESS; TESS-2; TESTIN; MGC1146;	NM 015641	testis derived transcript (3 LIM domains)
IES	0.832	DKFZP586B2022	NWI_013041	testis derived transcript (3 LTM domains)
DOK5	0.851	MGC16926; C20orf180	NM 018431	docking protein 5
SPTBN1	0.851	ELF; SPTB2; betaSpII	NM 003128	spectrin, beta, non-erythrocytic 1
RND1	0.85	ARHS; RHO6; FLJ42294	NM 014470	Rho family GTPase 1
WDR45	0.849	JM5; WDRX1; WIPI4; WIPI-4	NM 001029	WD repeat domain 45
			896	•
PLOD2	0.849	LH2; TLH	NM_182943	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2
GRIK5	0.849	KA2; EAA2; GRIK2	NM_002088	glutamate receptor, ionotropic, kainate 5
SDCCA	0.849	TSH1; NY-CO-33; SDCCAG33	NM_005786	teashirt family zinc finger 1
G33				
IQSEC1	0.846	KIAA0763	NM_014869	IQ motif and Sec7 domain 1
GIMAP4	0.846	IAN1; IMAP4; hIAN1; HIMAP4; MSTP062;	NM_018326	GTPase, IMAP family member 4
. mean	0.045	FLJ11110	373.6 00.400m	
ATF7IP	0.845	MCAF2; FLJ12668	NM_024997	activating transcription factor 7 interacting protein 2
CVD104	0.044	APO: APOI: CDVI: CVAD: CVD10.	NM 021226	autochromo PASO, family 10, sub-family A1
CYP19A	0.844	ARO; ARO1; CPV1; CYAR; CYP19; MGC104309; P-450AROM	NM_031226	cytochrome P450, family 19, subfamily A, polypeptide 1
TMEM6	0.844	FLJ23375	NM 024956	transmembrane protein 62
2	0.077	100000000000000000000000000000000000000	1111_024930	dansinomorano protein 02
C10ORF	0.844	MGC35062	NM 198515	chromosome 10 open reading frame 96
96			1 1,0010	
CPNE4	0.843	CPN4; COPN4; MGC15604	NM_130808	copine IV
ADAM2	0.842	MDC2	NM 004194	ADAM metallopeptidase domain 22
2			_	
TGFB2	0.842	MGC116892; TGF-beta2	NM_003238	transforming growth factor, beta 2
YIF1B	0.841	FinGER8	NM_033557	Yip1 interacting factor homolog B (S. cerevisiae)
SMCY	0.841	HY; HYA; JARID1D; KIAA0234	NM_004653	Smcy homolog, Y-linked (mouse)
CLTCL1	0.84	CLTD; CHC22; CLH22; CLTCL	NM_007098	clathrin, heavy polypeptide-like 1
C1ORF1	0.84	FLJ20508	NM_017850	chromosome 1 open reading frame 109
09				
IMPAC	0.839	MGC33718	NM_018439	Impact homolog (mouse)
T	0.020	7NE. 7 ADI. EL 122052	NIM 152404	-i 5
ZNF569	0.839	ZNF; ZAP1; FLJ32053	NM_152484	zinc finger protein 569
FLT1	0.839	FLT; VEGFR1	NM_002019	fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)
GPR63	0.838	PSP24B; PSP24(beta)	NM 030784	G protein-coupled receptor 63
PAK2	0.838	PAK65; PAKgamma	NM 002577	p21 (CDKN1A)-activated kinase 2
ULBP1	0.837	RAETII	NM 025218	UL16 binding protein 1
MGC19	0.837	MGC19604; MGC74760	NM 001031	similar to RIKEN cDNA B230118G17 gene
604	0.057	MGC17004, MGC74700	734	Shintar to Kikeli Celivi B250110017 gene
NPM3	0.835	PORMIN; TMEM123	NM 006993	nucleophosmin/nucleoplasmin, 3
PRKCE	0.835	PKCE; MGC125656; MGC125657; nPKC-epsilon	NM 005400	protein kinase C, epsilon
NOL6	0.835	NRAP; UTP22; FLJ21959; MGC14896;	NM_022917	nucleolar protein family 6 (RNA-associated)
		MGC14921; MGC20838; bA311H10.1	_	
SPARC	0.835	SC1; PIG33	NM_004684	SPARC-like 1 (mast9, hevin)
L1				
KIAA13	0.834	FLJ20333	NM_017769	KIAA1333
33	0.555	DOLOD LINGTO		1 1:
NBEA	0.832	BCL8B; LYST2	NM_015678	neurobeachin
HOXC8	0.83	HOX3; HOX3A	NM_022658	homeobox C8
HNMT	0.83	HMT; HNMT-S1; HNMT-S2	NM_001024	histamine N-methyltransferase
CDI V1	0.02	CPX1; CPX-I	074 NM 006651	complexin 1
CPLX1 NGEF	0.83 0.83	CPX1; CPX-I EPHEXIN	NM_006651 NM_019850	complexin 1 neuronal guanine nucleotide exchange factor
GMIP	0.83	GMIP	NM_019850 NM_016573	GEM interacting protein
CA11	0.829	CARP2; CA-RP XI	NM_0165/3 NM_001217	carbonic anhydrase XI
HMGN2	0.829	HMG17; MGC5629; MGC88718	NM 005517	high-mobility group nucleosomal binding domain 2
CXORF	0.828	IGL@	NM_198279	chromosome X open reading frame 23
23	0.020		1170217	same of the state
FLJ1361	0.828	FLJ13611; MGC48585	NM 024941	hypothetical protein FLJ13611
1		,		
MAP3K	0.827	ASK2; MAPKKK6; MGC20114; MGC125653	NM_004672	mitogen-activated protein kinase kinase kinase 6
6			_	
JPH4	0.826	JPHL1; hJP-4; KIAA1831	NM_032452	junctophilin 4
CXXC4	0.826	IDAX; MGC149872	NM_025212	CXXC finger 4
THAP9	0.825	FLJ23320; FLJ34093	NM_024672	THAP domain containing 9
BSN	0.825	ZNF231	NM_003458	bassoon (presynaptic cytomatrix protein)
B3GAT1	0.825	CD57; LEU7; NK-1; HNK-1; GLCATP; GlcAT-P;	NM_054025	beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P)
LIOD: 2	0.001	GlcUAT-P	ND 4 602045	11: 22: 25: 21: 12:5: 21: 72:2
USP13	0.824	ISOT3; IsoT-3	NM_003940	ubiquitin specific peptidase 13 (isopeptidase T-3)
TMEM1	0.824	FLJ11273; MGC33727	NM_018374	transmembrane protein 106B
	0.824	2 COP, EL 111791	NIM 012122	acatamas matain aamulay ayby:::2
06B		2-COP; FLJ11781 FLJ23066	NM_012133 NM_015378	coatomer protein complex, subunit gamma 2
06B COPG2			NM_015378	vacuolar protein sorting 13 homolog D (S. cerevisiae) contactin associated protein-like 3
06B COPG2 VPS13D	0.824			
06B COPG2 VPS13D CNTNA		CASPR3; CNTNAP3A; RP11-290L7.1; RP11-	NM_033655	contactin associated protein-like 5
06B COPG2 VPS13D CNTNA P3	0.824 0.823	CASPR3; CNTNAP3A; RP11-290L7.1; RP11- 138L21.1	_	-
O6B COPG2 VPS13D CNTNA P3 SALL3	0.824 0.823 0.823	CASPR3; CNTNAP3A; RP11-290L7.1; RP11- 138L21.1 ZNF796	NM_171999	sal-like 3 (Drosophila)
06B COPG2 VPS13D CNTNA P3 SALL3 SCARA	0.824 0.823	CASPR3; CNTNAP3A; RP11-290L7.1; RP11- 138L21.1	_	-
O6B COPG2 VPS13D CNTNA P3 SALL3	0.824 0.823 0.823	CASPR3; CNTNAP3A; RP11-290L7.1; RP11- 138L21.1 ZNF796 CSR; APC7; CSR1; MSLR1; MSRL1	NM_171999	sal-like 3 (Drosophila)
O6B COPG2 VPS13D CNTNA P3 SALL3 SCARA 3	0.824 0.823 0.823 0.822	CASPR3; CNTNAP3A; RP11-290L7.1; RP11- 138L21.1 ZNF796	NM_171999 NM_182826	sal-like 3 (Drosophila) scavenger receptor class A, member 3

NANOS 1	0.821	HMGB4	NM_199461	nanos homolog 1 (Drosophila)
LRRN3	0.821	NI DD2, NI DD 2, EL 111120	NIM 019224	lavaina niah namaat maynamal 2
		NLRR3; NLRR-3; FLJ11129	NM_018334	leucine rich repeat neuronal 3
EZH2	0.821	EZH1; ENX-1; MGC9169	NM 152998	enhancer of zeste homolog 2 (Drosophila)
LSAMP PIAS3	0.82	LAMP FLJ14651	NM_002338 NM_006099	limbic system-associated membrane protein
	0.82			protein inhibitor of activated STAT, 3
TNRC6 A	0.82	GW182; TNRC6; CAGH26; FLJ22043; KIAA1460; MGC75384; DKFZp666E117	NM_014494	trinucleotide repeat containing 6A
MED25	0.82	P78; ACID1; ARC92; MGC70671; TCBAP0758;	NM_030973	mediator of RNA polymerase II transcription, subunit 25
C10ORF	0.819	DKFZp434K0512 FLJ11218	NM_001031	homolog (S. cerevisiae) chromosome 10 open reading frame 59
59 MAST1	0.010	CACT, CACTITO, VIA A0072	709 NM 014075	microtubule associated serine/threonine kinase 1
MAST1 DNAJA	0.818 0.818	SAST; SAST170; KIAA0973 DNAJA5	NM_014975 NM_194283	DnaJ homology subfamily A member 5
5			_	
TAF15	0.817	Npl3; RBP56; TAF2N; TAFII68; hTAFII68	NM_003487	TAF15 RNA polymerase II, TATA box binding protein (TBP)- associated factor, 68kDa
SPINK2	0.816	HUSI-II	NM_021114	serine peptidase inhibitor, Kazal type 2 (acrosin-trypsin inhibitor)
TRIM5	0.815	RNF88; TRIM5alpha	NM_033092	tripartite motif-containing 5
ZMYND	0.815	DKFZp434N2435	NM_032257	zinc finger, MYND-type containing 12
RFC2	0.814	A1; RFC40; MGC3665	NM 002914	replication factor C (activator 1) 2, 40kDa
SH3GL1	0.813		NM 003025	SH3-domain GRB2-like 1
SLC35A	0.813	EEN; CNSA1; SH3P8; SH3D2B; MGC111371 FLJ11130; FLJ20730; FLJ25973; DKFZp434E102		solute carrier family 35, member A5
5 5	0.813	FLJ11130, FLJ20/30, FLJ239/3, DKFZp434E102	NM_017945	solute carrier family 33, member A3
TMF1	0.813	ARA160	NM_007114	TATA element modulatory factor 1
C6ORF2	0.813	PRED31; HSPC230; RP11-59I9.1	NM_016487	chromosome 6 open reading frame 203
03	ļ			
SLC32A 1	0.812	VGAT; VIAAT	NM_080552	solute carrier family 32 (GABA vesicular transporter), member 1
LRRC8E	0.811	FLJ23420	NM_025061	leucine rich repeat containing 8 family, member E
C16ORF	0.808	CLP24; FLJ20898; MGC111564	NM_024600	chromosome 16 open reading frame 30
30 PET112	0.808	PET112; HSPC199	NM_004564	PET112-like (yeast)
L		·	_	
PROM2	0.808	PROM-2; MGC138714	NM_144707	prominin 2
CYP2U1	0.805	P450TEC	NM_183075	cytochrome P450, family 2, subfamily U, polypeptide 1
SULT1A	0.804	SULT1A4	NM_001017	sulfotransferase family, cytosolic, 1A, phenol-preferring, member
POLR3	0.804	RPC1; RPC155; hRPC155	389 NM_007055	polymerase (RNA) III (DNA directed) polypeptide A, 155kDa
A TSPAN7	0.804	A15; MXS1; CD231; MRX58; CCG-B7; TM4SF2;	NM 004615	tetraspanin 7
TECA	0.004	TALLA-1; TM4SF2b; DXS1692E	2016217	
HECA KIAA10	0.804 0.804	HDC; HDCL; HHDC; dJ225E12.1 DKFZp451H236; DKFZp686K16147	NM_016217 NM_014967	headcase homolog (Drosophila) KIAA1018
18	0.004	BR12543111230, BR125000R10147	1411_014507	Kiritioio
CCK	0.803	MGC117187	NM 000729	cholecystokinin
WDR69	0.802	FLJ25955	NM 178821	WD repeat domain 69
CD8A	0.801	CD8; MAL; p32; Leu2	NM 001768	CD8a molecule
C9ORF2	0.801	CBE1; MGC32921; MGC33614; NYD-SP22; bA573M23.4	NM_147168	chromosome 9 open reading frame 24
ABHD9	0.799	FLJ22408; MGC131519	NM 024794	abhydrolase domain containing 9
TRAIP	0.798	TRIP; RNF206	NM 005879	TRAF interacting protein
GALNT	0.798	GalNAc-T2	NM 004481	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-
2	0.700	Myon	-	acetylgalactosaminyltransferase 2 (GalNAc-T2)
FLJ1443 7	0.798	МҮОР	NM_032578	myopalladin
TNPO3	0.797	IPO12; TRNSR; MTR10A; TRN-SR; TRN-SR2	NM_012470	transportin 3
MTUS1	0.797	ATIP; MP44; MTSG1; FLJ14295; KIAA1288; DKFZp586D1519; DKFZp686F20243	NM_020749	mitochondrial tumor suppressor 1
FRMD5	0.797	FRMD5	NM_001031	synonyms: FLJ41022, MGC14161; isoform 2 is encoded by
			729	transcript variant 2; Homo sapiens FERM domain containing 5
RUSC2	0.797	KIAA0375	NM 014806	(FRMD5), transcript variant 2, mRNA. RUN and SH3 domain containing 2
PCP4	0.797	PEP-19	NM_014806 NM_006198	Purkinje cell protein 4
BAALC	0.796	FLJ12015	NM_006198 NM_024812	brain and acute leukemia, cytoplasmic
MRE11	0.793	ATLD; HNGS1; MRE11; MRE11B	NM_024812 NM_005590	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)
A		, , , , , , , , , , , , , , , , , , , ,		(S. Colonidae)
F2R	0.793	TR; HTR; CF2R; PAR1	NM_001992	coagulation factor II (thrombin) receptor
KEAP1	0.793	INrf2; KLHL19; MGC1114; MGC4407;	NM_012289	kelch-like ECH-associated protein 1
FLJ1084	0.793	MGC9454; KIAA0132; MGC10630; MGC20887 FLJ10847; MATE1; MATE2; MGC64822	NM 018242	hypothetical protein FLJ10847
7		, , , , , , , , , , , , , , , , , , , ,		7r
FBXO4	0.793	FBX4; FLJ10141; DKFZp547N213	NM_012176	F-box protein 4
E2F4	0.793	E2F-4	NM_001950	E2F transcription factor 4, p107/p130-binding
LCE2B	0.793	XP5; LEP10; SPRL1B	NM_014357	late cornified envelope 2B
KIRREL 2	0.793	NLG1; NEPH3; FILTRIN; MGC15718; DKFZP564A1164	NM_199180	kin of IRRE like 2 (Drosophila)
	0.792		NM 153188	transportin 1
TNPO1 AP1M1	0.792	MIP; TRN; IPO2; MIP1; KPNB2	NM 153188 NM 032493	transportin 1 adaptor-related protein complex 1 mu 1 subunit
AP1M1	0.792 0.792 0.791		NM_032493	adaptor-related protein complex 1, mu 1 subunit
AP1M1 RARRE S1	0.792 0.791	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1	NM_032493 NM_002888	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1
AP1M1 RARRE S1 BCL2A1	0.792 0.791 0.791	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5	NM_032493 NM_002888 NM_004049	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BCL2-related protein A1
AP1M1 RARRE S1 BCL2A1 SLC25A	0.792 0.791	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1	NM_032493 NM_002888	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BC12-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal
APIMI RARRE S1 BCL2A1 SLC25A 17	0.792 0.791 0.791 0.79	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34	NM_032493 NM_002888 NM_004049 NM_006358	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BCL2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17
APIM1 RARRE S1 BCL2A1 SLC25A 17 RNPEP	0.792 0.791 0.791 0.79 0.79	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084	NM_032493 NM_002888 NM_004049 NM_006358 NM_020216	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BCL2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B)
APIMI RARRE S1 BCL2A1 SLC25A 17	0.792 0.791 0.791 0.79	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34	NM_032493 NM_002888 NM_004049 NM_006358	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BCL2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17
APIM1 RARRE S1 BCL2A1 SLC25A 17 RNPEP	0.792 0.791 0.791 0.79 0.79	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084 FBH1; Fbx18; FLJ14590; MGC131916;	NM_032493 NM_002888 NM_004049 NM_006358 NM_020216	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BCL2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B)
APIM1 RARRE S1 BCL2A1 SLC25A 17 RNPEP FBXO18	0.792 0.791 0.791 0.79 0.79 0.79	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084 FBH1; Fbx18; FLJ14590; MGC131916; MGC141935; MGC141937 RS1 SGD; DAGD; 35DAG; CMD1L; SGCDP;	NM_032493 NM_002888 NM_004049 NM_006358 NM_020216 NM_032807	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BC1.2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B) F-box protein, helicase, 18
APIMI RARRE SI BCL2AI SLC25A 17 RNPEP FBXO18	0.792 0.791 0.791 0.79 0.79 0.79 0.79 0.789	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084 FBH1; Fbx18; FLJ14590; MGC131916; MGC141935; MGC141937 RS1 SGD; DAGD; 35DAG; CMD1L; SGCDP; MGC22567; SG-delta	NM 032493 NM_002888 NM_004049 NM_006358 NM_020216 NM_032807 NM_006511 NM_172244	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BC1.2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B) F-box protein, helicase, 18 regulatory solute carrier protein, family 1, member 1 sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
APIMI RARRE SI BCL2AI SLC25A 17 RNPEP FBXO18 RSC1AI SGCD	0.792 0.791 0.791 0.79 0.79 0.79 0.79 0.789 0.789	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084 FBH1; Fbx18; FLJ14590; MGC131916; MGC141935; MGC141937 RS1 SGD; DAGD; 35DAG; CMD1L; SGCDP; MGC22567; SG-delta MGC45223; DKFZp313G0615	NM 032493 NM_002888 NM_004049 NM_006358 NM_020216 NM_032807 NM_006511 NM_172244 NM_006090	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BC1.2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B) F-box protein, helicase, 18 regulatory solute carrier protein, family 1, member 1 sarcoglycan, delta (35kDa dystrophin-associated glycoprotein) choline/ethanolamine phosphotransferase 1
APIMI RARRE SI BCL2AI SLC25A 17 RNPEP FBXO18 RSC1AI SGCD	0.792 0.791 0.791 0.79 0.79 0.79 0.79 0.789	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084 FBH1; Fbx18; FLJ14590; MGC131916; MGC141935; MGC141937 RS1 SGD; DAGD; 35DAG; CMD1L; SGCDP; MGC22567; SG-delta	NM 032493 NM_002888 NM_004049 NM_006358 NM_020216 NM_032807 NM_006511 NM_172244	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BC1.2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B) F-box protein, helicase, 18 regulatory solute carrier protein, family 1, member 1 sarcoglycan, delta (35kDa dystrophin-associated glycoprotein)
APIMI RARRE S1 BCL2A1 SLC25A 17 RNPEP FBX018 RSC1A1 SGCD CEPT1 ZRANB	0.792 0.791 0.791 0.79 0.79 0.79 0.79 0.789 0.789 0.789	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084 FBH1; Fbx18; FLJ14590; MGC131916; MGC141935; MGC141937 RS1 SGD; DAGD; 35DAG; CMD1L; SGCDP; MGC22567; SG-delta MGC45223; DKFZp313G0615 MGC75012; MGC105033	NM 032493 NM_002888 NM_004049 NM_006358 NM_020216 NM_032807 NM_006511 NM_172244 NM_006090 NM_032143	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BCL2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B) F-box protein, helicase, 18 regulatory solute carrier protein, family 1, member 1 sarcoglycan, delta (35kDa dystrophin-associated glycoprotein) choline/ethanolamine phosphotransferase 1 zinc finger, RAN-binding domain containing 3
APIMI RARRE SI BCL2A1 SLC25A 17 RNPEP FBXO18 RSC1A1 SGCD	0.792 0.791 0.791 0.79 0.79 0.79 0.79 0.789 0.789	MIP; TRN; IPO2; MIP1; KPNB2 AP47; CLTNM; MU-1A; CLAPM2 TIG1 GRS; BFL1; ACC-1; ACC-2; HBPA1; BCL2L5 PMP34 DKFZP547H084 FBH1; Fbx18; FLJ14590; MGC131916; MGC141935; MGC141937 RS1 SGD; DAGD; 35DAG; CMD1L; SGCDP; MGC22567; SG-delta MGC45223; DKFZp313G0615	NM 032493 NM_002888 NM_004049 NM_006358 NM_020216 NM_032807 NM_006511 NM_172244 NM_006090	adaptor-related protein complex 1, mu 1 subunit retinoic acid receptor responder (tazarotene induced) 1 BC1.2-related protein A1 solute carrier family 25 (mitochondrial carrier; peroxisomal membrane protein, 34kDa), member 17 arginyl aminopeptidase (aminopeptidase B) F-box protein, helicase, 18 regulatory solute carrier protein, family 1, member 1 sarcoglycan, delta (35kDa dystrophin-associated glycoprotein) choline/ethanolamine phosphotransferase 1

	,	1		
64J102 EFHC2	0.787	FLJ22601; FLJ22843; dJ1158H2.1;	NM 025184	EF-hand domain (C-terminal) containing 2
LITICZ	0.767	DKFZp686G08235	14141_023104	E1 -hand domain (C-terminar) containing 2
CDON	0.787	CDO; ORCAM; MGC111524	NM_016952	Cdon homolog (mouse)
ZNF215	0.787	BAZ2	NM_013250	zinc finger protein 215
ZBTB24	0.786	BIF1; ZNF450	NM_014797	zinc finger and BTB domain containing 24
NAALA D2	0.786	MGC26353; MGC116996; NAADALASE2; NAALADASE2	NM_005467	N-acetylated alpha-linked acidic dipeptidase 2
TCERG 1L	0.786	MGC126584	NM_174937	transcription elongation regulator 1-like
LETM1 HCN1	0.786 0.785	LETM1 BCNG1; HAC-2; BCNG-1	NM_012318 NM_021072	leucine zipper-EF-hand containing transmembrane protein 1 hyperpolarization activated cyclic nucleotide-gated potassium channel 1
POLD1	0.785	POLD	NM 002691	polymerase (DNA directed), delta 1, catalytic subunit 125kDa
CHD5	0.785	KIAA0444; DKFZp434N231	NM 015557	chromodomain helicase DNA binding protein 5
PLAC1	0.784	RPL41	NM_021796	placenta-specific 1
A2M	0.784	CPAMD5; FWP007; S863-7; alpha 2M; DKFZp779B086	NM_000014	alpha-2-macroglobulin
SRP72	0.783	SRP72	NM_006947	signal recognition particle 72kDa
PSMD5 LOC388	0.783 0.782	S5B; KIAA0072; MGC23145 LOC388799; C20orf107; MGC104273	NM_005047	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5
799	0.782	LOC388/99; C200ff10/; MGC1042/3	NM_001013 646	similar to dJ1153D9.4 (novel protein)
AMPD3	0.781	DUT	NM_001025 389	adenosine monophosphate deaminase (isoform E)
SOX13	0.781	ICA12; Sox-13; MGC117216; SRY-box 13	NM_005686	SRY (sex determining region Y)-box 13
NOVA2	0.781	ANOVA; NOVA3	NM_002516	neuro-oncological ventral antigen 2
CEP63	0.781	FLJ13386; MGC78416	NM_025180	centrosomal protein 63kDa
WDR62	0.781	C19orf14; FLJ33298; DKFZP434J046; DKFZp686G1024	NM_173636	WD repeat domain 62
ZHX3	0.781	TIX1; KIAA0395	NM_015035	zinc fingers and homeoboxes 3
SYNJ2	0.781	INPP5H; KIAA0348; MGC44422	NM_003898	synaptojanin 2
PLCL3	0.781	PLCL3; PLCeta1; MGC117152; DKFZp434C1372	NM_014996	phospholipase C, eta 1
GALK2 ATP6V0	0.78	GK2; MGC1745 a1; Stv1; VPP1; Vph1; ATP6N1; ATP6N1A;	NM_002044	galactokinase 2
ATP6V0 A1	0.78	al; Stv1; VPP1; Vph1; A1P6N1; A1P6N1A; DKFZp781J1951	NM_005177	ATPase, H+ transporting, lysosomal V0 subunit a1
STK17B	0.78	DRAK2	NM_004226	serine/threonine kinase 17b (apoptosis-inducing)
TOR1AI	0.779	LULL1; MGC126581; MGC138430; RP11-	NM_145034	torsin A interacting protein 2
P2 2'-PDE	0.779	12M5.5 2'-PDE	NM 177966	21 mh camha diastanasa
CCDC76	0.779	FLJ10287; FLJ11219	NM_17/966 NM_019083	2'-phosphodiesterase coiled-coil domain containing 76
FLJ2268	0.778	FY; FLJ22688	NM 025129	fuzzy homolog (Drosophila)
8 WNT10	0.778	WNT-12	NM_003394	wingless-type MMTV integration site family, member 10B
B SLC35E	0.778	BLOV1	NM 018656	solute carrier family 35, member E3
3 ABCA4	0.778	FFM; RMP; ABCR; RP19; STGD; ABC10;	NM 000350	ATP-binding cassette, sub-family A (ABC1), member 4
FAM26	0.777	CORD3; STGD1; DKFZp781N1972 bA225H22.7	- NM 182494	family with sequence similarity 26, member A
A CREB5	0.777	CRE-BPA	NM 001011	cAMP responsive element binding protein 5
FLJ1066	0.777	FLJ10661; FLJ27199; MGC45068	666 NM 152563	
1 GART	0.777	AIRS; GARS; PAIS; PGFT; PRGS; GARTF;	NM_132363 NM_175085	family with sequence similarity 86, member C phosphoribosylglycinamide formyltransferase,
OAKI	0.777	MGC47764	NW_175085	phosphoribosylglycinamide synthetase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase
PLAA	0.777	PLAP; PLA2P; FLJ11281; FLJ12699	NM_001031 689	phospholipase A2-activating protein
ZNF651 DAAM2	0.777 0.776	KIAA1190; DKFZp434N0615 KIAA0381; MGC90515; dJ90A20A.1; RP1-	NM_145166 NM_015345	zinc finger protein 651 dishevelled associated activator of morphogenesis 2
MYCBP 2	0.776	278E11.1 PAM; FLJ10106; FLJ13826; FLJ21597; FLJ21646; KIAA0916; DKFZp686M08244	NM_015057	MYC binding protein 2
PRKAC B	0.775	PKACB; MGC9320; MGC41879; DKFZp78112452	NM_207578	protein kinase, cAMP-dependent, catalytic, beta
RP1- 32F7.2	0.775	RP1-32F7.2	NM_173698	hypothetical protein FLJ37659
SRGAP1	0.774	ARHGAP13; FLJ22166; KIAA1304	NM_020762	SLIT-ROBO Rho GTPase activating protein 1
ZNF691	0.773	Zfp691; RP11-342M1.5	NM_015911	zinc finger protein 691
RAB3G AP1	0.772	P130; WARBM1; RAB3GAP; KIAA0066; RAB3GAP130; DKFZp434A012	NM_012233	RAB3 GTPase activating protein subunit 1 (catalytic)
PRKDC	0.772	HYRC; p350; DNAPK; DNPK1; HYRC1; XRCC7	NM_006904	protein kinase, DNA-activated, catalytic polypeptide
PIK4CB	0.772	PI4Kbeta; PI4K-BETA; PI4KIIIbeta	NM_002651	phosphatidylinositol 4-kinase, catalytic, beta polypeptide
CASC4	0.772	H63; MGC74708; DKFZp459F1927	NM_138423	cancer susceptibility candidate 4
NFKBIL 2	0.772	IKBR	NM_013432	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2
BAIAP2	0.772	BAP2; IRSP53	NM 006340	BAI1-associated protein 2
NPR3	0.772	NPRC; ANPRC	NM_000908	natriuretic peptide receptor C/guanylate cyclase C
CHDM2	0.772	UM2	NIM 000740	(atrionatriuretic peptide receptor C)
CHRM3 CDC26	0.772 0.771	HM3 C9orf17	NM_000740 NM_139286	cholinergic receptor, muscarinic 3 cell division cycle 26
FLJ2202	0.771	FLJ22028	NM_024854	hypothetical protein FLJ22028
FDPS	0.771	FPS	NM_002004	farnesyl diphosphate synthase (farnesyl pyrophosphate
C3ORF6	0.77	RAP140; se89-1; KIAA1105; DKFZp686C2456	NM_015224	synthetase, dimethylallyltranstransferase, geranyltranstransferase) chromosome 3 open reading frame 63
3 HELB	0.769	HELB	NM 033647	helicase (DNA) B
CSDE1	0.769	UNR; D1S155E; FLJ26882; DKFZp779B0247;	NM 001007	cold shock domain containing E1, RNA-binding
CCNB1I	0.769	DKFZp779J1455; RP5-1000E10.3 HEI10; C14orf18	553 NM 182852	cyclin B1 interacting protein 1
P1		•	_	
THAP4 SHQ1	0.768 0.768	CGI-36 FLJ10539; DKFZp686H07226	NM_015963 NM_018130	THAP domain containing 4 SHQ1 homolog (S. cerevisiae)
PIB5PA	0.768	PIPP; INPP5; MGC129984	NM 014422	phosphatidylinositol (4,5) bisphosphate 5-phosphatase, A
		.,,	0. 1722	F F (-,0) orophosphate o phosphatase, 11

PLEK2	0.768	FMNL2	NM_016445	pleckstrin 2
LYPLA3	0.767	ACS; LLPL; LPLA2; DKFZp564A0122	NM_012320	lysophospholipase 3 (lysosomal phospholipase A2)
CALD1	0.767	CDM; H-CAD; L-CAD; NAG22; MGC21352	NM_033138	caldesmon 1
ABHD2 SLC27A	0.767	HS1-2; LABH2; PHPS1-2; MGC26249; MGC111112 VLCS; FATP2; VLACS; ACSVL1; FACVL1;	NM_007011 NM_003645	abhydrolase domain containing 2 solute carrier family 27 (fatty acid transporter), member 2
SLC2/A 2	0.767	hFACVL1; HsT17226	NM_003645	solute carrier family 27 (fatty acid transporter), member 2
KCNJ8	0.766	KIR6.1; uKATP-1	NM_004982	potassium inwardly-rectifying channel, subfamily J, member 8
GALNA CAS 6ST	0.765	GALNAC4S-6ST; BRAG; KIAA0598;	NM_015892	B cell RAG associated protein
C4S-6ST FKBP3	0.765	MGC34346; RP11-47G11.1; DKFZp781H1369 PPIase; FKBP-25	NM 002013	FK506 binding protein 3, 25kDa
IFT80	0.765	WDR56; KIAA1374; MGC126543	NM_020800	intraflagellar transport 80 homolog (Chlamydomonas)
RELB	0.764	I-REL	NM_006509	v-rel reticuloendotheliosis viral oncogene homolog B, nuclear
				factor of kappa light polypeptide gene enhancer in B-cells 3 (avian)
AKAP12	0.764	AKAP250; DKFZp686M0430; DKFZp686O0331	NM_005100	A kinase (PRKA) anchor protein (gravin) 12
ZNF451	0.764	COASTER; FLJ90693; KIAA0576; MGC26701; dJ41711.1	NM_001031 623	zinc finger protein 451
LOC400 566	0.764	LOC400566	NM_001013 672	hypothetical gene supported by AK128660
LOC441	0.764	LOC441168	NM_001010	hypothetical protein LOC441168
168	0.762	GD210 TD 4 GV GD (4125	919	CUD 1
CDCP1 MDM2	0.763 0.763	CD318; TRASK; SIMA135 hdm2; MGC71221	NM_178181 NM_002392	CUB domain containing protein 1 Mdm2, transformed 3T3 cell double minute 2, p53 binding
WIDWIZ	0.703	numz, wioc/1221	NWI_002392	protein (mouse)
PRAC	0.762	PRAC; MGC32520	NM_032391	small nuclear protein PRAC
TMEM6	0.762	FLJ32370; MGC87778	NM_152417	transmembrane protein 68
8 RAD1	0.762	REC1; HRAD1	NM 133377	RAD1 homolog (S. pombe)
LGP1	0.762	LGP1; D11LGP1	NM 032484	GH3 domain containing
FBXO27	0.761	FBG5; Fbx27	NM_178820	F-box protein 27
DENND	0.761	FAM31A; FLJ38464; KIAA1608; RP11-230L22.3	NM_024820	DENN/MADD domain containing 1A
1A SH3KBP	0.761	CIN85; GIG10; MIG18	NM 031892	SH3-domain kinase binding protein 1
1		NFBP; ALG-4; KIAA0185	_	programmed cell death 11
PDCD11 MON1A	0.758 0.758	NFBP; ALG-4; KIAA0185 SAND1; MGC13272	NM_014976 NM_032355	moni bomolog A (yeast)
SDCCA	0.758	NY-CO-1; FLJ10051	NM_004713	serologically defined colon cancer antigen 1
G1			_	
FGD1	0.758	AAS; FGDY; ZFYVE3	NM_004463	FYVE, RhoGEF and PH domain containing 1 (faciogenital dysplasia)
TSPAN1 8	0.757	TSPAN	NM_130783	tetraspanin 18
C21ORF 51	0.757	C21orf51	NM_058182	chromosome 21 open reading frame 51
ARHGA	0.756	MacGAP; FLJ25728; MGC126757; MGC138145;	NM_033515	Rho GTPase activating protein 18
P18 ATP5S	0.756	bA307O14.2 ATPW; HSU79253	NM 015684	ATP synthase, H+ transporting, mitochondrial F0 complex,
		,	_	subunit s (factor B)
FAM105 A	0.755	FLJ11127	NM_019018	family with sequence similarity 105, member A
SLC13A 4	0.755	SUT1; SUT-1	NM_012450	solute carrier family 13 (sodium/sulfate symporters), member 4
LOC387 921	0.755	LOC387921; DKFZp313M1221; DKFZp686E1140	NM_001012 754	similar to RIKEN cDNA 8030451K01
CD79B	0.755	B29; IGB	NM_000626	CD79b molecule, immunoglobulin-associated beta
WDR77	0.754	MEP50; MGC2722; HKMT1069; Nbla10071; RP11-552M11.3	NM_024102	WD repeat domain 77
NFX1	0.754	NFX2; MGC20369	NM_147134	nuclear transcription factor, X-box binding 1
DZIP3	0.753	DZIP3; UURF2; FLJ13327; KIAA0675	NM_014648	zinc finger DAZ interacting protein 3
RPL34	0.753	MGC111005	NM_000995	ribosomal protein L34
RALBP1	0.752	RIP; RIP1; RLIP76	NM_006788	ralA binding protein 1
BAG4 NAT9	0.752	SODD; BAG-4	NM_004874	BCL2-associated athanogene 4 N-acetyltransferase 9
RNF10	0.752 0.752	EBSP; DKFZP564C103 RIE2; KIAA0262; MGC126758; MGC126764	NM_015654 NM_014868	N-acetyltransterase 9 ring finger protein 10
SLC16A	0.752	MCT4; MCT5	NM_014868 NM_004696	solute carrier family 16, member 4 (monocarboxylic acid
4				transporter 5)
DDX25	0.751	GRTH	NM_013264	DEAD (Asp-Glu-Ala-Asp) box polypeptide 25
KIAA17 94	0.751	FLJ10719	NM_018193	KIAA1794
FAM107 A	0.75	DRR1; TU3A; FLJ45473	NM_007177	family with sequence similarity 107, member A
TBC1D1 6	0.75	FLJ20748; MGC25062	NM_019020	TBC1 domain family, member 16
SLC27A	0.749	ACSB; FATP5; ACSVL6; FACVL3; VLACSR; VLCSH2; VLCS-H2; FLJ22987	NM_012254	solute carrier family 27 (fatty acid transporter), member 5
DONSO	0.749	B17; C21orf60; DKFZP434M035	NM_017613	downstream neighbor of SON
N HS6ST2	0.749	MGC130022; MGC130023	NM_147175	heparan sulfate 6-O-sulfotransferase 2
NR4A1	0.749	HMR; N10; TR3; NP10; GFRP1; NAK-1; NGFIB;	NM_173158	nuclear receptor subfamily 4, group A, member 1
		NUR77; MGC9485	_	
CHCHD 1	0.748	C2360; C10orf34; FLJ25854	NM_203298	coiled-coil-helix-coiled-coil-helix domain containing 1
ST3GAL 4	0.747	STZ; SAT3; CGS23; SIAT4; NANTA3; SIAT4C; FLJ11867; ST3GalIV; ST3Gal IV	NM_006278	ST3 beta-galactoside alpha-2,3-sialyltransferase 4
LSG1	0.747	FLJ11301	NM_018385	large subunit GTPase 1 homolog (S. cerevisiae)
PCDHA C2	0.747	MGC71598; PCDH-ALPHA-C2	NM_031883	protocadherin alpha subfamily C, 2
NDUFS	0.747	DCTN2	NM_004550	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa
ABI1	0.747	E3B1; ABI-1; NAP1BP; SSH3BP; SSH3BP1	NM_001012	(NADH-coenzyme Q reductase) abl-interactor 1
DCV	0.746	DC: DDCN: LISV: SCLII: VLIS	752 NM 179151	daublacartay: liceanaanhaly V limbad (daublacartin)
DCX ANK3	0.746 0.746	DC; DBCN; LISX; SCLH; XLIS FLJ45464; ANKYRIN-G	NM_178151 NM_001149	doublecortex; lissencephaly, X-linked (doublecortin) ankyrin 3, node of Ranvier (ankyrin G)
HIRIP3	0.746	CYP2U1	NM 003609	HIRA interacting protein 3
SUMF1	0.746	FGE; MGC131853	NM_182760	sulfatase modifying factor 1

FAM86	0.745	MGC16279; MGC104828	NM_032916	family with sequence similarity 86, member B1
B1 ZFP36L	0.745	BRF1; ERF1; cMG1; ERF-1; Berg36; TIS11B;	NM 004926	zinc finger protein 36, C3H type-like 1
1		RNF162B	_	
CDC42B	0.744	MRCK; MRCKA; PK428; FLJ23347; KIAA0451;	NM_014826	CDC42 binding protein kinase alpha (DMPK-like)
PA PSMD13	0.744	DKFZp686L1738; DKFZp686P1738 p40.5; HSPC027	NM 002817	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13
FTSJ3	0.744	EPCS3; FLJ20062	NM 017647	FtsJ homolog 3 (E. coli)
NEF3	0.744	NFM; NEFM; NF-M	NM 005382	neurofilament 3 (150kDa medium)
BOC	0.744	BOC	NM 033254	Boc homolog (mouse)
NFIC	0.744	CTF; NFI; CTF5; NF-I; MGC20153	NM 205843	nuclear factor I/C (CCAAT-binding transcription factor)
C8ORF5	0.744	MGC14595	NM 032334	chromosome 8 open reading frame 53
3			_	
ABCA2	0.742	ABC2	NM_001606	ATP-binding cassette, sub-family A (ABC1), member 2
UHRF1	0.742	Np95; ICBP90; RNF106; huNp95; FLJ21925; MGC138707	NM_013282	ubiquitin-like, containing PHD and RING finger domains, 1
BAT4	0.742	G5; D6S54E	NM 033177	HLA-B associated transcript 4
LOC126	0.742	ZNF424	NM 173480	zinc finger protein 57
295	***			
CENPF	0.741	CENF; PRO1779	NM_016343	centromere protein F, 350/400ka (mitosin)
GFRA2	0.741	NTNRA; RETL2; TRNR2; GDNFRB; NRTNR-	NM_001495	GDNF family receptor alpha 2
TDIADI	0.74	ALPHA	ND 6 01 6200	TDC2 1 1 1 1 1 1 2 C 1 1 1
TRIAP1 CPEB1	0.74 0.74	WF-1; P53CSV; HSPC132 CPEB; FLJ13203	NM_016399 NM_030594	TP53 regulated inhibitor of apoptosis 1 cytoplasmic polyadenylation element binding protein 1
KIAA17	0.739	KIAA1727	NM 033393	KIAA1727 protein
27				
RHBDL	0.739	RRP; RHBDL	NM_003961	rhomboid, veinlet-like 1 (Drosophila)
1	0.777		100	
ZMYM1	0.739	MYM; FLJ23151; FLJ43753; RP11-181E22.4	NM_024772	zinc finger, MYM-type 1
MRPL19	0.739	RLX1; RPML15; MRP-L15; KIAA0104;	NM_014763	mitochondrial ribosomal protein L19
FAM29	0.738	MGC20675 MGC102696; MGC138798; MGC138799; RP11-	NM 017645	family with sequence similarity 29, member A
FAM29 A	0.736	MGC102696; MGC138/98; MGC138/99; RP11- 296P7.3	11111_01/043	ranning with sequence similarity 29, member A
TPARL	0.738	TPARL; TMPT27	NM 018475	transmembrane protein 165
PRKG2	0.738	cGKII; PRKGR2	NM 006259	protein kinase, cGMP-dependent, type II
FSD1	0.737	MIR1; GLFND; MGC3213	NM 024333	fibronectin type III and SPRY domain containing 1
YPEL4	0.737	FLJ30213; MGC102723; MGC138324	NM 145008	yippee-like 4 (Drosophila)
MINA	0.737	MDIG; NO52; MINA53; FLJ14393;	NM 032778	MYC induced nuclear antigen
		DKFZp762O1912	_	Ţ.
DNMT3	0.737	ICF; M.HsaIIIB	NM_006892	DNA (cytosine-5-)-methyltransferase 3 beta
B GRHL2	0.736	BOM; DFNA28; TFCP2L3; FLJ11172; FLJ13782	NM 024915	grainyhead-like 2 (Drosophila)
NSMAF	0.736	FAN	NM 003580	neutral sphingomyelinase (N-SMase) activation associated factor
TAF9	0.735	AK6; CIP; CINAP; TAF2G; AD-004; CGI-137;	NM 016283	TAF9 RNA polymerase II, TATA box binding protein (TBP)-
		MGC1603; MGC3647; MGC5067; TAFII31; TAFII32; MGC:1603; MGC:3647; MGC:5067; TAFIID32	_	associated factor, 32kDa
PTCD2	0.735	FLJ12598	NM_024754	pentatricopeptide repeat domain 2
FLJ4385	0.735 0.735	FLJ12598	NM_024754 NM_198857	pentatricopeptide repeat domain 2
FLJ4385 5	0.735		NM_198857	
FLJ4385 5 PDZK3	0.735 0.735	AIPC; PIN1; PAPIN; PDZK3; KIAA0300	NM_198857 NM_178140	PDZ domain containing 2
FLJ4385 5 PDZK3 ZBTB20	0.735 0.735 0.734	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123	NM_198857 NM_178140 NM_015642	PDZ domain containing 2 zinc finger and BTB domain containing 20
FLJ4385 5 PDZK3 ZBTB20 URG4	0.735 0.735 0.734 0.733	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457	NM_198857 NM_178140 NM_015642 NM_017920	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2	0.735 0.735 0.734 0.733 0.733	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2
FLJ4385 5 PDZK3 ZBTB20 URG4	0.735 0.735 0.734 0.733	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457	NM_198857 NM_178140 NM_015642 NM_017920	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2	0.735 0.735 0.734 0.733 0.733	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F	0.735 0.735 0.734 0.733 0.733 0.732 0.731	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URC4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1	0.735 0.735 0.734 0.733 0.733 0.732 0.731	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1	NM_178857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22	0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123	0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_02317 NM_022064	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22	0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC;	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter,
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317 NM_022064 NM_003759	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_0012245 NM_007317 NM_022064 NM_003759 NM_002196	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSMI	0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.73 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317 NM_003759 NM_002196 NM_002196 NM_199420	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta
FLJ4385 5 7DZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8	0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317 NM_022064 NM_003759 NM_002196 NM_092304 NM_032348	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSMI	0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.73 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317 NM_003759 NM_002196 NM_002196 NM_199420	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL	0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317 NM_022064 NM_003759 NM_002196 NM_199420 NM_032348 NM_001009	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B	0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_002964 NM_003759 NM_02196 NM_199420 NM_033348 NM_001009 568	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2	0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_002196 NM_002196 NM_032348 NM_001009 568 NM_000251	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7	0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.72 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FPH477; FLJ12565; DKFZp686C2222 KNBC; RNBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_002830 NM_021245 NM_021245 NM_00317 NM_022064 NM_003759 NM_002196 NM_199420 NM_032348 NM_001009 568 NM_000251 NM_013379	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21	0.735 0.735 0.734 0.733 0.732 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73 0.73	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VE-	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_007317 NM_022064 NM_003759 NM_002196 NM_199420 NM_032348 NM_001009 568 NM_001009 568 NM_000251 NM_003206	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2	0.735 0.735 0.735 0.734 0.733 0.732 0.731 0.731 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PR00327; DKFZp781A0112 MGC3047; DKFZp786E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VE-JAM; C210rf43	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_001029 858 NM_021245 NM_00317 NM_00251 NM_0032348 NM_001029 NM_003251 NM_003296 NM_003296 NM_003299 NM_003219	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZI KIF22 RNF123 SLC4A4 INSMI POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.731 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727 0.727	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPP11 POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VE-JAM; C21orf43 H6L; Nkx5-2	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_002196 NM_199420 NM_032348 NM_001009 568 NM_001009 568 NM_000251 NM_003296 NM_003296 NM_004299 NM_004299 NM_005519	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK	0.735 0.735 0.735 0.734 0.733 0.732 0.731 0.731 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PR00327; DKFZp781A0112 MGC3047; DKFZp786E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VE-JAM; C210rf43	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_022064 NM_003759 NM_002196 NM_032348 NM_001009 568 NM_000251 NM_003251 NM_004299 NM_021219 NM_005519 NM_005519 NM_001013	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZI KIF22 RNF123 SLC4A4 INSMI POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.731 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727 0.727	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPP11 POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VE-JAM; C21orf43 H6L; Nkx5-2	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_002196 NM_199420 NM_032348 NM_001009 568 NM_001009 568 NM_000251 NM_003296 NM_003296 NM_004299 NM_004299 NM_005519	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNQ943	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.726 0.726	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C21orf43 H6L; Nkx5-2 GCN2; KIAA1338	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858- NM_021245 NM_002196 NM_003206 NM_003230 NM_003206 NM_003219 NM_003206 NM_004299 NM_021219 NM_005519 NM_005519 NM_005519 NM_001013 NM_001013 NM_001013 NM_001013 NM_005519 NM_001013 NM_001013 NM_001013 NM_001013 NM_001013 NM_001013 NM_001013	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZI KIF22 RNF123 SLC4A4 INSMI POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNQ943 3	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.731 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.726 0.726 0.725	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; CD322; JAM-B; VEJAM; PRO245; VEJAM; CD322; JAM-B; VEJAM; PRO245; VEJAM; CD322; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_022064 NM_033348 NM_021040 NM_00251 NM_00251 NM_002121 NM_0021009 S68 NM_001009 S68 NM_001010 NM_0021219 NM_003206 NM_001009 NM_0010109	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNQ943 3 ADAMT	0.735 0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.728 0.727 0.727 0.727 0.727	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; PP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C210rf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2;	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_003759 NM_002196 NM_001009 568 NM_001009 568 NM_001009 568 NM_00251 NM_0021219 NM_001013 703 NM_0010156	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C UNQ943 3 ADAMT S2	0.735 0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.727 0.726 0.725 0.724	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C21orf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_002964 NM_032348 NM_001009 568 NM_000251 NM_003206 NM_004299 NM_021219 NM_005519 NM_005519 NM_005519 NM_001013 703 NM_001056 NM_001056 NM_001056	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433 ADAM metallopeptidase with thrombospondin type 1 motif, 2
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNQ943 3 ADAMT	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.731 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.726 0.726 0.725	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; PP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C210rf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2;	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_022064 NM_033348 NM_021040 NM_00251 NM_00251 NM_002121 NM_0021009 S68 NM_001009 S68 NM_001010 NM_0021219 NM_003206 NM_001009 NM_0010109	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433
FLJ4385 5 PDZK3 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNQ943 3 ADAMT S2 PLK1	0.735 0.735 0.735 0.734 0.733 0.733 0.732 0.731 0.731 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.726 0.726 0.726 0.726 0.724 0.724	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C21orf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 PLK; STPK13	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_002830 NM_021245 NM_021245 NM_022064 NM_003759 NM_032348 NM_001009 568 NM_001037 NM_00251 NM_003206 NM_004299 NM_021219 NM_005519 NM_005519 NM_001013 NM_001013 NM_001056 NM_001056 NM_001056 NM_0010264 NM_001030	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433 ADAM metallopeptidase with thrombospondin type 1 motif, 2 polo-like kinase 1 (Drosophila)
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 UNQ943 3 ADAMT S2 PLK1 LOC966 10 PGF	0.735 0.735 0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.727 0.727 0.727 0.724 0.724 0.724 0.723	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII PODII ABC7; ASAT; Atmlp; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C210rf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 PLK; STPK13 LOC96610 PLGF; PIGF-2	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_003759 NM_003296 NM_003296 NM_003296 NM_001009 568 NM_001009 568 NM_001009 NM_0021219 NM_0021219 NM_001013 703 NM_001013 703 NM_001056 NM_001030 NM_0010330 NM_0010330 NM_0010330	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type I (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433 ADAM metallopeptidase with thrombospondin type I motif, 2 polo-like kinase I (Drosophila) hypothetical protein similar to KIAAO187 gene product placental growth factor, vascular endothelial growth factor- related protein
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNQ943 3 ADAMT S2 PLK1 LOC966 10 PGF	0.735 0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.727 0.727 0.727 0.727 0.726 0.726 0.724 0.724 0.724 0.723 0.723	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII PODI ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C21orf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 PLK; STPK13 LOC96610 PLGF; PIGF-2 LYKS; STRAD; FLJ90524	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_022064 NM_003759 NM_022064 NM_032348 NM_001009 S68 NM_001009 S68 NM_0010251 NM_003206 NM_001037 NM_005030 NM_002632 NM_001003 NM_001003 NM_001003 NM_001003 NM_001003 NM_001003 NM_001003	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433 ADAM metallopeptidase with thrombospondin type 1 motif, 2 polo-like kinase 1 (Drosophila) hypothetical protein similar to KIAAO187 gene product placental growth factor, vascular endothelial growth factor- related protein protein kinase LYK5
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 UNQ943 3 ADAMT S2 PLK1 LOC966 10 PGF	0.735 0.735 0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.727 0.727 0.727 0.724 0.724 0.724 0.723	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII PODII ABC7; ASAT; Atmlp; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C210rf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 PLK; STPK13 LOC96610 PLGF; PIGF-2	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_003759 NM_002196 NM_032348 NM_001009 568 NM_00251 NM_00251 NM_00251 NM_0021219 NM_005519 NM_001056 NM_004299 NM_001013 703 NM_001056 NM_001056 NM_0014244 NM_005030 NM_080926 NM_002632 NM_001003	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433 ADAM metallopeptidase with thrombospondin type 1 motif, 2 polo-like kinase 1 (Drosophila) hypothetical protein similar to KIAAO187 gene product placental growth factor, vascular endothelial growth factor- related protein
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNQ943 3 ADAMT S2 PLK1 LOC966 10 PGF	0.735 0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.727 0.727 0.727 0.727 0.726 0.726 0.724 0.724 0.724 0.723 0.723	AIPC; PIN1; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ23013.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C21orf43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 PLK; STPK13 LOC96610 PLGF; PIGF-2 LYK5; STRAD; FLJ90524 Scml3 RNF160; C21orf10; C21orf98; FLJ11053;	NM_198857 NM_178140 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_003759 NM_003348 NM_001009 568 NM_001009 568 NM_0021219 NM_0021219 NM_001013 NM_0010103 NM_001031	PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433 ADAM metallopeptidase with thrombospondin type 1 motif, 2 polo-like kinase 1 (Drosophila) hypothetical protein similar to KIAAO187 gene product placental growth factor, vascular endothelial growth factor- related protein protein kinase LYK5
FLJ4385 5 ZBTB20 URG4 TESK2 PTPN4 SLC35F 1 MYOZ1 KIF22 RNF123 SLC4A4 INSM1 POLQ MXRA8 SMPDL 3B MSH2 DPP7 TCF21 ABCB7 JAM2 HMX2 EIF2AK 4 SULT1C 1 UNG943 ADAMT S2 PLK1 LOC966 10 PGF LYKS SCMH1	0.735 0.735 0.735 0.735 0.734 0.733 0.733 0.733 0.731 0.731 0.73 0.73 0.73 0.73 0.73 0.73 0.729 0.728 0.728 0.728 0.728 0.727 0.727 0.727 0.727 0.727 0.727 0.727 0.725 0.724 0.724 0.723 0.723 0.723 0.723	AIPC; PINI; PAPIN; PDZK3; KIAA0300 HOF; DPZF; ODA-8S; ZNF288; DKFZp566F123 URG4; DKFZp666G166; DKFZp686O0457 TESK2 PTPMEG; PTPMEG1 C6orf169; FLJ13018; dJ230I3.1 CS-2; FATZ; MYOZ KID; OBP; KNSL4; OBP-1; OBP-2 KPC1; FP1477; FLJ12565; DKFZp686C2222 KNBC; NBC1; NBC2; pNBC; HNBC1; hhNMC; SLC4A5; DKFZp781H1314 IA1; IA-1 POLH; PRO0327; DKFZp781A0112 MGC3047; DKFZp586E2023 ASML3B FCC1; COCA1; HNPCC; HNPCC1 QPP; DPP2; DPPII POD1 ABC7; ASAT; Atm1p; EST140535 JAMB; CD322; JAM-B; VEJAM; PRO245; VEJAM; C210rt43 H6L; Nkx5-2 GCN2; KIAA1338 ST1C1; ST1C2; SULT1C#1; humSULTC2 UNQ9433 NPI; PCINP; PCPNI; hPCPNI; ADAM-TS2; ADAMTS-3 PLK; STPK13 LOC96610 PLGF; PIGF-2 LYK5; STRAD; FLJ90524 Scml3	NM_198857 NM_178140 NM_015642 NM_015642 NM_017920 NM_007170 NM_002830 NM_001029 858 NM_021245 NM_003759 NM_003759 NM_003248 NM_001009 568 NM_00251 NM_00251 NM_00251 NM_0021219 NM_001056 NM_004299 NM_021219 NM_001056 NM_001056 NM_001056 NM_001056 NM_001031 NM_0002632 NM_001003 NM_001003 NM_001003 NM_001003 NM_001003 NM_001003 NM_00100103 NM_00100103 NM_00100103 NM_00100103 NM_0010010116 PDZ domain containing 2 zinc finger and BTB domain containing 20 up-regulated gene 4 testis-specific kinase 2 protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) solute carrier family 35, member F1 myozenin 1 kinesin family member 22 ring finger protein 123 solute carrier family 4, sodium bicarbonate cotransporter, member 4 insulinoma-associated 1 polymerase (DNA directed), theta matrix-remodelling associated 8 sphingomyelin phosphodiesterase, acid-like 3B mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli) dipeptidyl-peptidase 7 transcription factor 21 ATP-binding cassette, sub-family B (MDR/TAP), member 7 junctional adhesion molecule 2 homeobox (H6 family) 2 eukaryotic translation initiation factor 2 alpha kinase 4 sulfotransferase family, cytosolic, 1C, member 1 RPLK9433 ADAM metallopeptidase with thrombospondin type 1 motif, 2 polo-like kinase 1 (Drosophila) hypothetical protein similar to KIAA0187 gene product placental growth factor, vascular endothelial growth factor- related protein protein kinase LYK5 sex comb on midleg homolog I (Drosophila)	

L	0.723	MGC40612; RP11-396A22.1	NM_018527	NMDA receptor regulated 1-like
PAP2	0.722	PAP2D; PAP2	NM_001010 861	phosphatidic acid phosphatase type 2
GOT1	0.722	GIG18	NM_002079	glutamic-oxaloacetic transaminase 1, soluble (aspartate
HBQ1	0.72	HBG1	NM 005331	aminotransferase 1) hemoglobin, theta 1
NAGLU	0.72	NAG; MPS3B; UFHSD; MPS IIIB	NM 000263	N-acetylglucosaminidase, alpha- (Sanfilippo disease IIIB)
C1ORF1	0.719	FLJ14525; FLJ16283; FLJ38847; MGC10710;	NM 032800	chromosome 1 open reading frame 198
98	*****	DKFZp667D152		
AMBP	0.719	HCP; ITI; UTI; ITIL	NM_001633	alpha-1-microglobulin/bikunin precursor
CRYBB	0.719	CRYBB1	NM_001887	crystallin, beta B1
EIF3S10	0.718	EIF3; P167; p180; p185; EIF3A; KIAA0139; eIF3-	NM 003750	eukaryotic translation initiation factor 3, subunit 10 theta,
EH-3310	0.716	p170; eIF3-theta	INIVI_003730	150/170kDa
SHMT1	0.718	SHMT; CSHMT; MGC15229; MGC24556	NM 148918	serine hydroxymethyltransferase 1 (soluble)
MAP2K	0.717	MEK3; MKK3; MAPKK3; PRKMK3	NM_145110	mitogen-activated protein kinase kinase 3
3				
BFSP1	0.717 0.717	CP94; CP115; LIFL-H; FILENSIN CPAMD7; FLJ38569; FLJ41966; RP11-525G3.1;	NM_001195 NM_133493	beaded filament structural protein 1, filensin CD109 molecule
CD109	0.717	DKFZp762L1111	INIVI_155495	CD109 molecule
KIAA04	0.717	KIAA0404; MGC117153	NM 015104	hypothetical protein LOC23130
04			_	31 1
MYOZ3	0.716	CS3; CS-3; FRP3	NM_133371	myozenin 3
C13ORF	0.716	FLJ12661; FLJ23780; bA50D16.2; RP11-50D16.2	NM_025138	chromosome 13 open reading frame 23
23 BAIAP2	0.716	IRTKS	NM 018842	BAI1-associated protein 2-like 1
L1	0.710	IKIKS	1111_010042	DATT-associated protein 2-like 1
C20ORF	0.715	FLJ23412	NM_022082	chromosome 20 open reading frame 59
59	0		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
SYT11	0.715	SYT12; KIAA0080; MGC10881; MGC17226;	NM_152280	synaptotagmin XI
B4GAL	0.714	DKFZp781D015 B4Gal-T6; beta4Gal-T6	NM 004775	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase,
T6	0.717	2.541 10,0044541 10	1111_004//3	polypeptide 6
DHFRL	0.714	DHFRP4; FLJ16119	NM_176815	dihydrofolate reductase-like 1
1			L	
ESM1	0.714	endocan	NM_007036	endothelial cell-specific molecule 1
OPRS1 NOVA1	0.714 0.714	No. 1	NM_147160 NM_006491	1
ETHE1	0.714	Nova-1 HSCO; YF13H12	NM_006491 NM_014297	neuro-oncological ventral antigen 1 ethylmalonic encephalopathy 1
MDS028	0.714	MDS028	NM 018463	integrin alpha FG-GAP repeat containing 2
SORCS2	0.713	WFDC2	NM 020777	sortilin-related VPS10 domain containing 2
ADH5	0.713	FDH; ADHX; ADH-3	NM 000671	alcohol dehydrogenase 5 (class III), chi polypeptide
ACTN1	0.713	FLJ40884	NM_001102	actinin, alpha 1
GNL3L	0.713	FLJ10613; RP11-353K22.1	NM_019067	guanine nucleotide binding protein-like 3 (nucleolar)-like
KIAA08	0.713	KIAA0863	NM_014913	zinc finger protein 508
63	0.712	H2 BLVH2 1 4 12 D24 1 1 1 4 12 D24 1 2	NA 005050	1 : 2
RLN2 IRAK1B	0.712 0.712	H2; RLXH2; bA12D24.1.1; bA12D24.1.2 AIP70; SIMPL; MGC138458; MGC138460	NM_005059 NM_001010	relaxin 2 interleukin-1 receptor-associated kinase 1 binding protein 1
P1	0.712	AIP /0, SIMPL, MGC138438, MGC138400	844	interieukin-1 receptor-associated kinase 1 binding protein 1
DNAPT	0.712	DNAPTP6; DKFZp564A2416	NM 015535	DNA polymerase-transactivated protein 6
P6		•	_	
MSH3	0.712	DUP; MRP1	NM_002439	mutS homolog 3 (E. coli)
ARL4 KCNAB	0.711 0.711	ARL4	NM_212460 NM_172159	ADP-ribosylation factor-like 4A
1	0.711	hKvb3; AKR6A3; KCNA1B; Kvb1.3; hKvBeta3; KV-BETA-1	NWI_1/2139	potassium voltage-gated channel, shaker-related subfamily, beta member 1
PAGE5	0.711	GAGEE1; PAGE-5	NM 130467	P antigen family, member 5 (prostate associated)
DCLRE	0.711	PSO2; SNM1; KIAA0086	NM_014881	DNA cross-link repair 1A (PSO2 homolog, S. cerevisiae)
1A				
	0.71	VTI1; VTI2; VTI1L	NM_006370	vesicle transport through interaction with t-SNAREs homolog 11
VTI1B	0.71		NM 007257	(yeast)
VTI1B PNMA2	0.71	MA2; MM2; RGAG2; KIAA0883	NM_007257 NM_017827	paraneoplastic antigen MA2
VTI1B PNMA2	0.71 0.71		NM_007257 NM_017827	
VTI1B PNMA2 SARS2	0.71	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES	NM_017827 NM_014303	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish)
PNMA2 SARS2 PES1 FJX1	0.71 0.709 0.709	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416	NM_017827 NM_014303 NM_014344	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila)
PNMA2 SARS2 PES1 FJX1 WDR4	0.71 0.709 0.709 0.709	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82	NM_017827 NM_014303 NM_014344 NM_033661	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4
PNMA2 SARS2 PES1 FJX1 WDR4 C3ORF1	0.71 0.709 0.709	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416	NM_017827 NM_014303 NM_014344	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila)
PNMA2 SARS2 PES1 FJX1 WDR4 C3ORF1	0.71 0.709 0.709 0.709 0.709	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14
PNMA2 SARS2 PES1 FJX1 WDR4 C3ORF1 4	0.71 0.709 0.709 0.709	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4
PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65	0.71 0.709 0.709 0.709 0.709 0.709	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C3ORF1 4 IPO4 SC65 WDR53 RAMP2	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_006455 NM_182627 NM_005854	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.708 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSP0 TOSO	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005449	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IP04 SC65 WDR53 RAMP2 FAIM3 BMS1L	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.708 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_006455 NM_182627 NM_005854 NM_005449 NM_014753	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast)
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IP04 SC65 WDR53 RAMP2 FAIM3 BMS1L	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.708 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE;	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005449	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.708 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSP0 TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005449 NM_014753 NM_003701	paraneoplastic antigen MA2 seryl-tRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 I TGOLN	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.708 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE;	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_006455 NM_182627 NM_005854 NM_005449 NM_014753	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast)
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C3ORF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.708 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2;	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005449 NM_014753 NM_003701	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta)	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005449 NM_014753 NM_003701 NM_006464 NM_133263	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599;	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_06455 NM_182627 NM_005449 NM_014753 NM_003701 NM_006464	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C3ORF1 4 IPO4 SC65 SC65 RAMP2 FAIM3 BMS1L TTNFSF1 1 TGOLN 2 PPARG C1B ROBO1	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSP0 TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_006455 NM_182627 NM_005854 NM_005449 NM_014753 NM_003701 NM_006464 NM_133263 NM_133631	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila)
PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IP04 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROBO1	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599;	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005449 NM_014753 NM_003701 NM_006464 NM_133263	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IP04 SC65 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROBO1	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRN82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; SOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA1313; DKFZp686P1843	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_006455 NM_182627 NM_005854 NM_005449 NM_014753 NM_003701 NM_006464 NM_133263 NM_133631	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila)
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROBO1	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA1313; DKFZp686P1843 RIC; IWUI; KCTI; OIT2; IWU-1; dysad;	NM_017827 NM_014303 NM_014304 NM_014344 NM_033661 NM_020685 NM_024658 NM_06455 NM_182627 NM_005854 NM_005854 NM_005854 NM_005701 NM_006464 NM_133263 NM_133631 NM_002913	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila) replication factor C (activator 1) 1, 145kDa
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROBO1 RFC1 PCDH19 FXYD5	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA1313; DKFZp686P1843 RIC; IWU1; KCT1; OIT2; IWU-1; dysad; HSPC113; PRO6241	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005849 NM_014753 NM_003701 NM_006464 NM_133263 NM_133631 NM_020766 NM_144779	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila) replication factor C (activator 1) 1, 145kDa protocadherin 19 FXYD domain containing ion transport regulator 5
VTI1B PNMA2 SARS2 PES1 FIX1 WDR4 CASH 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROBO1 RFC1 PCDH19 FXYDS FLJ2062	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA1313; DKFZp686P1843 RIC; IWUI; KCTI; OIT2; IWU-1; dysad;	NM_017827 NM_014303 NM_014304 NM_014304 NM_033661 NM_020685 NM_024658 NM_006455 NM_182627 NM_005854 NM_005449 NM_014753 NM_003701 NM_006464 NM_133263 NM_133631 NM_002913 NM_0020766	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila) replication factor C (activator 1) 1, 145kDa protocadherin 19
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 SC65 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROB01 RFC1 PCDH19 FXYD5 FIJ2062	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.706 0.706 0.706	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSP0 TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC18; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA113; DKFZp686P1843 RIC; IWU1; KCT1; OIT2; IWU-1; dysad; HSPC113; PRO6241 FLJ20628; DKFZp56412178	NM_017827 NM_014303 NM_014304 NM_014344 NM_033661 NM_020685 NM_024658 NM_005455 NM_05449 NM_014753 NM_003701 NM_006464 NM_133263 NM_133631 NM_002913 NM_020766 NM_144779 NM_017910	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila) replication factor C (activator 1) 1, 145kDa protocadherin 19 FXYD domain containing ion transport regulator 5 hypothetical protein FLJ20628
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROBO1 RFC1 PCDH19 FXYD5 8 ABHD8	0.71 0.709 0.709 0.709 0.709 0.708 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA1313; DKFZp686P1843 RIC; IWU1; KCT1; OIT2; IWU-1; dysad; HSPC113; PRO6241	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_182627 NM_005854 NM_005849 NM_014753 NM_003701 NM_006464 NM_133263 NM_133631 NM_020766 NM_144779	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila) replication factor C (activator 1) 1, 145kDa protocadherin 19 FXYD domain containing ion transport regulator 5 hypothetical protein FLJ20628 abhydrolase domain containing 8
VTI1B PNMA2 SARS2 PES1 FJX1 WDR4 C30RF1 4 IPO4 SC65 WWDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TG0LN 2 PPARG C1B ROB01 RFC1 PCDH19 FXYD5 FIJ2062	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SYS; SARS; SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSP0 TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA113; DKFZp686P1843 RIC; IWU1; KCT1; OIT2; IWU-1; dysad; HSPC113; PRO6241 FLJ20628; DKFZp65412178 MGC2512; FLJ11743; MGC14280 humL7-1 VGR; VGR1	NM_017827 NM_014303 NM_014344 NM_033661 NM_020685 NM_024658 NM_004455 NM_08854 NM_005849 NM_014753 NM_003701 NM_006464 NM_133263 NM_133631 NM_020766 NM_144779 NM_017910 NM_024527	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila) replication factor C (activator 1) 1, 145kDa protocadherin 19 FXYD domain containing ion transport regulator 5 hypothetical protein FLJ20628
VTI1B PNMA2 SARS2 PES1 FIX1 WDR4 C30RF1 4 IPO4 SC65 WDR53 RAMP2 FAIM3 BMS1L TNFSF1 1 TGOLN 2 PPARG C1B ROBO1 RFC1 PCDH19 FXYDS FLJ2062 8 ABHD8 RPL7	0.71 0.709 0.709 0.709 0.709 0.709 0.708 0.708 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707 0.707	MA2; MM2; RGAG2; KIAA0883 SVS; SARS, SERS; SARSM; SerRSmt; mtSerRS; FLJ20450 PES FLJ22416 TRM82 HT021 Imp4; FLJ23338; MGC131665 SC65; NOL55 MGC64882 TSPO TOSO KIAA0187 ODF; OPGL; sOdf; CD254; RANKL; TRANCE; hRANKL2 TGN38; TGN46; TGN48; TGN51; TTGN2; MGC14722 PERC; PGC1B; PGC-1(beta) SAX3; DUTT1; FLJ21882; MGC131599; MGC133277 A1; RFC; PO-GA; RECC1; MHCBFB; RFC140; MGC51786 KIAA1313; DKFZp686P1843 RIC; IWU1; KCT1; OIT2; IWU-1; dysad; HSPC113; PRO6241 FLJ20628; DKFZp564I2178 MGC2512; FLJ11743; MGC14280 humL7-1	NM_017827 NM_014303 NM_014304 NM_014304 NM_033661 NM_020685 NM_024658 NM_08455 NM_182627 NM_005449 NM_003701 NM_006464 NM_133263 NM_133631 NM_002913 NM_002913 NM_017910 NM_017910 NM_024527 NM_009971	paraneoplastic antigen MA2 seryl-IRNA synthetase 2 pescadillo homolog 1, containing BRCT domain (zebrafish) four jointed box 1 (Drosophila) WD repeat domain 4 chromosome 3 open reading frame 14 importin 4 synaptonemal complex protein SC65 WD repeat domain 53 receptor (calcitonin) activity modifying protein 2 Fas apoptotic inhibitory molecule 3 BMS1-like, ribosome assembly protein (yeast) tumor necrosis factor (ligand) superfamily, member 11 trans-golgi network protein 2 peroxisome proliferative activated receptor, gamma, coactivator 1, beta roundabout, axon guidance receptor, homolog 1 (Drosophila) replication factor C (activator 1) 1, 145kDa protocadherin 19 FXYD domain containing ion transport regulator 5 hypothetical protein FLJ20628 abhydrolase domain containing 8 ribosomal protein L7

SSBP2 0.704 HSPC116; DKFZp686F03273 NM 012446 single-stranded DNA binding protein TMEM8 0.702 DKFZP564G2022 NM_015497 transmembrane protein 87A	ger protein)
TA	
KIAA08 0.702 CGI-01; FLJ10310; 5630401D24Rik NM_015935 KIAA0859	
December 2015 Section	
BCL11A 0.702 EVI9; CTIP1; BCL11A-L; BCL11A-S; FLJ10173; FLJ34997; KIAA1809; BCL11A-XL NM_138559 B-cell CLL/lymphoma 11A (zinc fin FLJ34997; KIAA1809; BCL11A-XL GPATC 4 0.702 RPIA NM_182679 G patch domain containing 4 OGFRL 0.701 FLJ21079; MGC102783; dJ331H24.1 NM_024576 opioid growth factor receptor-like 1 NUDT2 0.7 MGC13045 NM_032344 nudix (nucleoside diphosphate linked) 2 LRRC34 0.699 FLJ27346; MGC27085 NM_153353 leucine rich repeat containing 34 HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; bA37915-3; bA555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	
FLJ34997; KIAA1809; BCL11A-XL	
GPATC 4 0.702 RPIA NM_182679 G patch domain containing 4 OGFRL 0.701 FLJ21079; MGC102783; dJ331H24.1 NM_024576 opioid growth factor receptor-like 1 NUDT2 0.7 MGC13045 NM_032344 nudix (nucleoside diphosphate linked 2 LRRC34 0.699 FLJ27346; MGC27085 NM_153353 leucine rich repeat containing 34 HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; bA379J5.3; bA555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	I moiety X)-type motif 22
Correct	I moiety X)-type motif 22
OGFRL 1 0.701 FLJ21079; MGC102783; dJ331H24.1 NM_024576 opioid growth factor receptor-like 1 NUDT2 2 0.7 MGC13045 NM_032344 nudix (nucleoside diphosphate linked 2 LRRC34 0.699 FLJ27346; MGC27085 NM_153353 leucine rich repeat containing 34 HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; bA379J5.3; bA579J5.3; bA555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	I moiety X)-type motif 22
1 NUDT2 0.7 MGC13045 NM_032344 nudix (nucleoside diphosphate linked 2 LRRC34 0.699 FLJ27346; MGC27085 NM_153353 leucine rich repeat containing 34 HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; NM_080820 histidyl-tRNA synthetase 2 bA379J5.3; bA555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	l moiety X)-type motif 22
2 - . . LRRC34 0.699 FLJ27346; MGC27085 NM_153353 leucine rich repeat containing 34 HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; bA379J5.3; bA3555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	I moiety X)-type motif 22
2 - . . LRRC34 0.699 FLJ27346; MGC27085 NM_153353 leucine rich repeat containing 34 HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; bA379J5.3; bA3555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	I moiety X)-type motif 22
LRRC34 0.699 FLJ27346; MGC27085 NM_153353 leucine rich repeat containing 34 HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; NM_080820 histidyl-tRNA synthetase 2 bA379J5.3; bA555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	
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HARS2 0.699 DUEB; C20orf88; MGC41905; MGC119131; bA379J5.3; bA555E18.1 NM_080820 histidyl-tRNA synthetase 2 MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	
bA379J5.3; bA555E18.1 — MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	
MKKS 0.699 KMS; MKS; BBS6; HMCS NM_018848 McKusick-Kaufman syndrome	
SRI 0.699 SCN; FLJ26259 NM 003130 sorcin	
SLC9A1 0.698 APNH; NHE1; FLJ42224 NM 003047 solute carrier family 9 (sodium/hydro	agan ayahangar) mambar 1
SEC5AT 0.056 AFMT, MTE1, PE342224 Solute carrier family 9 (Solutionly) and (antiporter, Na+/H+, amiloride sensit	
SLC13A 0.698 NADC3; SDCT2 NM 001011 solute carrier family 13 (sodium-dep	
3 Solution Solution Solution (See See See See See See See See See Se	endent dicarboxylate
EIF5A2 0.698 EIF-5A2; eIF5AII NM 020390 eukaryotic translation initiation factor	- 5 A 2
	1 3A2
SLC35D 0.697 FRCL1; MGC102873; bA55K22.3 NM_001008 solute carrier family 35, member D3	
783	
BPNT1 0.697 PIP NM 006085 3'(2'), 5'-bisphosphate nucleotidase 1	
LOC906 0.697 FLJ20796; MGC24679 NM_181705 chromosome 5 open reading frame 3	I
24	
ATRN 0.697 MGCA; DPPT-L; KIAA0548; MGC126754 NM 139322 attractin	
HHLA1 0.697 UTS2 NM_005712 Urotensin 2	
CCRL1 0.696 PPR1; CCBP2; CCR10; CCR11; VSHK1; CKR- NM_178445 chemokine (C-C motif) receptor-like	1
11; CCX-CKR; CC-CKR-11	
MSTO1 0.696 MST; LST005; FLJ10504; RP11-29H23.3; NM_018116 misato homolog 1 (Drosophila)	
DKFZp686B1757; DKFZp686I01261	
FLJ4184 0.696 FLJ41841 NM_207499 FLJ41841 protein	
C9ORF1 0.696 C9orf140 NM_178448 chromosome 9 open reading frame 1-	40
40	
FKBP9 0.696 FKBP63; PPIase; MGC126772; NM 007270 FK506 binding protein 9, 63 kDa	
MGC138258; DKFZp586B1723	
DPEP3 0.696 MBD3 NM 022357 dipeptidase 3	
PLEKH 0.696 FLJ14156 NM 015899 pleckstrin homology domain contain	ing, family A
A9 (phosphoinositide binding specific) r	
WDFY1 0.695 WDF1; FENS-1; ZFYVE17 NM 020830 WD repeat and FYVE domain contain	
HHLA3 0.694 ARL4A NM 001031 HERV-H LTR-associating 3	ming 1
1 603	
TSEN2 0.694 SEN2: SEN21: MGC2776: MGC4440 NM 025265 tRNA splicing endonuclease 2 homo	log (S. cerevisiae)
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo	
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF3S8 0.694 eIF3-p110 NM_003752 eukaryotic translation initiation factor	r 3, subunit 8, 110kDa
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF3S8 0.694 elF3-p110 NM_003752 eukaryotic translation initiation factor C20ORF 0.694 TWA1 NM_017896 chromosome 20 open reading frame	r 3, subunit 8, 110kDa
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF358 0.694 elF3-p110 NM_003752 eukaryotic translation initiation facto C200RF 0.694 TWA1 NM_017896 chromosome 20 open reading frame	r 3, subunit 8, 110kDa 11
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF358 0.694 elF3-p110 NM_003752 eukaryotic translation initiation factor C200RF 0.694 TWA1 NM_017896 chromosome 20 open reading frame HAPLN 0.694 EXLD1; HsT19883 NM_178232 hyaluronan and proteoglycan link pro	r 3, subunit 8, 110kDa 11
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF388 0.694 eIF3-p110 NM_003752 eukaryotic translation initiation factor C200RF 0.694 TWA1 NM_017896 chromosome 20 open reading frame HAPLN 0.694 EXLD1; HsT19883 NM_178232 hyaluronan and proteoglycan link pro	r 3, subunit 8, 110kDa 11 otein 3
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo	r 3, subunit 8, 110kDa 11 otein 3
TSEN2	r 3, subunit 8, 110kDa 11 otein 3
TSEN2	r 3, subunit 8, 110kDa 11 otein 3
TSEN2	r 3, subunit 8, 110kDa 11 otein 3
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF358 0.694 elF3-p110 NM_003752 eukaryotic translation initiation factor C200RF 0.694 TWA1 NM_017896 chromosome 20 open reading frame HAPLN 0.694 EXLD1; HsT19883 NM_178232 hyaluronan and proteoglycan link p	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF358 0.694 elF3-p110 NM_003752 eukaryotic translation initiation facto C200RF 0.694 TWA1 NM_017896 chromosome 20 open reading frame HAPLN 0.694 EXLD1; HsT19883 NM_178232 hyaluronan and proteoglycan link pro ARHGE 0.694 WGEF; FLJ33962; RP4-733M16.1 NM_153213 Rho guanine nucleotide exchange factor F19 KLF10 0.694 EGRA; TIEG; TIEG1 NM_005655 Kruppel-like factor 10 MTCP1 0.693 C6.1B NM_001018 mature T-cell proliferation 1 C5ORF1 0.693 FLJ90583 NM_173828 chromosome 5 open reading frame 1 KIAA066 0.693 KIAA0672 NM_014859 KIAA0672 gene product ARHGA 0.693 RHOGAP; RHOGAP1; CDC42GAP; p50rhoGAP NM_004308 Rho GTPase activating protein 1 KIAA15 0.692 FLJ12850 NM_020890 KIAA1524	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF358 0.694 elF3-p110 NM_003752 eukaryotic translation initiation facto C200RF 0.694 TWA1 NM_017896 chromosome 20 open reading frame HAPLN 0.694 EXLD1; HsT19883 NM_178232 hyaluronan and proteoglycan link pro ARHGE 0.694 WGEF; FLJ33962; RP4-733M16.1 NM_153213 Rho guanine nucleotide exchange factor F19 KLF10 0.694 EGRA; TIEG; TIEG1 NM_005655 Kruppel-like factor 10 MTCP1 0.693 C6.1B NM_001018 mature T-cell proliferation 1 C5ORF1 0.693 FLJ90583 NM_173828 chromosome 5 open reading frame 1 KIAA066 0.693 KIAA0672 NM_014859 KIAA0672 gene product ARHGA 0.693 RHOGAP; RHOGAP1; CDC42GAP; p50rhoGAP NM_004308 Rho GTPase activating protein 1 KIAA15 0.692 FLJ12850 NM_020890 KIAA1524	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2 0.694 SEN2; SEN2L; MGC2776; MGC4440 NM_025265 tRNA splicing endonuclease 2 homo EIF3588 0.694 elF3-p110 NM_003752 eukaryotic translation initiation facto C200RF 0.694 TWA1 NM_017896 chromosome 20 open reading frame HAPLN 0.694 EXLD1; HsT19883 NM_178232 hyaluronan and proteoglycan link pro ARHGE 0.694 WGEF; FLJ33962; RP4-733M16.1 NM_153213 Rho guanine nucleotide exchange factor F19 KLF10 0.694 EGRA; TIEG; TIEG1 NM_0005655 Kruppel-like factor 10 MTCP1 0.693 C6.1B NM_001018 mature T-cell proliferation 1 C50RF1 0.693 FLJ90583 NM_173828 chromosome 5 open reading frame 1 6 KIAA066 0.693 KIAA0672 NM_014859 KIAA0672 gene product ARHGA 0.693 RHOGAP; RHOGAP1; CDC42GAP; p50rhoGAP NM_004308 Rho GTPase activating protein 1 KIAA15 0.692 FLJ12850 NM_0020890 KIAA1524 MID1 0.692 OS; FXY; OSX; OGS1; XPRF; BBBG1;	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ettor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ettor (GEF) 19 6
TSEN2	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like,
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6 115 conate transporter-like, 117 7 mily, member 8
TSEN2	r 3, subunit 8, 110kDa 11 otein 3 ctor (GEF) 19 6 115 conate transporter-like, 117 7 mily, member 8
TSEN2	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, a 7 mily, member 8 base 6
TSEN2	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, a 7 mily, member 8 base 6
TSENZ	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, a 7 mily, member 8 base 6
TSENZ 0.694 SENZ; SENZL; MGC2776; MGC4440 NM 025265 tRNA splicing endonuclease 2 homo EIF388 0.694 eIF3-p110 NM 007522 eukaryotic translation initiation facto C200RF 1	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, a 7 mily, member 8 base 6
TSENZ 0.694 SENZ; SENZL; MGC2776; MGC4440 NM 025265 tRNA splicing endonuclease 2 homo EIF381 0.694 eIF3-p110 NM 003752 eukaryotic translation initiation facto C200RF TWA1 NM_017896 chromosome 20 open reading frame 1 NM_0178932 hyaluronan and proteoglycan link programs NM_178232 hyaluronan and proteoglycan link programs NM_182321 hyaluronan and proteoglycan link programs nM_1823	r 3, subunit 8, 110kDa 111 otein 3 ettor (GEF) 19 6 6 115 conate transporter-like, 11 7 mily, member 8 tase 6 ntaining kelch motifs
TSENZ 0.694 SENZ; SENZL; MGC2776; MGC4440 NM 025265 tRNA splicing endonuclease 2 homo EIF381 0.694 eIF3-p110 NM 003752 eukaryotic translation initiation facto C200RF 11	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, 117 mily, member 8 asse 6 ntaining kelch motifs
SENZ 0.694 cliF3-p110 NM 025265 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03752 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03775 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03775 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03774 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03774 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03774 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03774 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03774 IRNA 03293 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 03774 IRNA 032034 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 032784 IRNA 032166 IRNA splicing endonuclease 2 homo claracytic translation initiation factor NM 032784 IRNA 032166 IRNA 1822 IRNA 18	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, 117 mily, member 8 asse 6 ntaining kelch motifs
TSENZ	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, 117 mily, member 8 asse 6 ntaining kelch motifs
TSENZ 0.694 SENZ, SENZI, MGC2776; MGC4440 NM 025265 IRNA splicing endonuclease 2 homo cukaryotic translation initiation factor (200RF 0.694 IWA1 NM 03752 NM 0	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 conate transporter-like, 117 mily, member 8 asse 6 ntaining kelch motifs
TSENZ 0.694 SENZ, SENZI; MGC2776; MGC4440 NM 025265 IRNAs splicing endonuclease 2 homo cukaryotic translation initiation factor (200RF 0.694 TWA1 NM 03752 NM 03752 Cukaryotic translation initiation factor (200RF 0.694 TWA1 NM 017896 Cukaryotic translation initiation factor (200RF 0.694 TWA1 NM 017896 Cukaryotic translation initiation factor (200RF 0.694 EXLDI; HsT19883 NM_178232 hyaluronan and proteoglycan link produced from the protein of the protein o	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 onate transporter-like, 117 mily, member 8 hase 6 ntaining kelch motifs yYES rosophila)
SENZ 0.694 SENZ; SENZ; MGC2776; MGC4440 NM 025265 tRNA splicing endousclease 2 homo care countries of the countries	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 onate transporter-like, 117 mily, member 8 hase 6 ntaining kelch motifs yYES rosophila)
SENZ; SENZ; MGC2776; MGC4440	r 3, subunit 8, 110kDa 111 otein 3 ctor (GEF) 19 6 115 onate transporter-like, 117 mily, member 8 hase 6 ntaining kelch motifs yYES rosophila)

	1			
C10ORF	0.687	FLJ41960; bA373N18.1; RP11-373N18.1	NM 145247	chromosome 10 open reading frame 78
78	0.007	1 L341700, 0A3731016.1, KI 11-3731016.1	1401_143247	cironosome to open reading traine 78
ZC3H12	0.687	MCPIP; FLJ23231; dJ423B22.1; RP3-423B22.1	NM_025079	zinc finger CCCH-type containing 12A
A	0.607	G2 D07 TD 4 D2 A CC 1 4274	313.6.002000) 2(G 1 3 4TP 2
PSMD2 OPCTL	0.687 0.687	S2; P97; TRAP2; MGC14274 FLJ20084	NM_002808 NM_017659	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2 glutaminyl-peptide cyclotransferase-like
CXORF	0.686	11320004	NM 024810	giutammyi-peptide eyelottanisterase-nke
45				
CHST10	0.686	HNK1ST; HNK-1ST; MGC17148	NM_004854	carbohydrate sulfotransferase 10
RPUSD2	0.686	C18B11; C15orf19; FLJ31409	NM_152260	RNA pseudouridylate synthase domain containing 2
ATM	0.686	AT1; ATA; ATC; ATD; ATE; ATDC; TEL1;	NM_000051	ataxia telangiectasia mutated (includes complementation groups A, C and D)
LHX6	0.686	MGC74674; DKFZp781A0353 LHX6.1; MGC119542; MGC119544;	NM 199160	LIM homeobox 6
Lilito	0.000	MGC119545	1111_155100	ZIM HOMEGOOM V
JSRP1	0.686	JP-45; FLJ32416	NM_144616	junctional sarcoplasmic reticulum protein 1
CDC25	0.686	CDC25A2	NM_001789	cell division cycle 25A
C8A	0.686	C8A	NM 000562	complement component 8, alpha polypeptide
C1ORF3	0.685	RPL10A	NM 001012	chromosome 1 open reading frame 31
1	******		985	
MFSD2	0.685	FP1147; PP10484; FLJ14490; FLJ35904;	NM_032793	major facilitator superfamily domain containing 2
NACC	0.605	HMFN0656; RP3-342P20.1	NIM 022742	home short in a north in DVET-424C15C
NAG6 POR	0.685 0.684	NAG6; MGC129657; DKFZP434G156 CPR; CYPOR; P450R; FLJ26468;	NM_022742 NM_000941	hypothetical protein DKFZp434G156 P450 (cytochrome) oxidoreductase
TOK	0.064	DKFZp686G04235	NWI_000941	1430 (Cytochrollie) oxidoreductase
TRUB2	0.684	CLONE24922; RP11-339B21.1	NM_015679	TruB pseudouridine (psi) synthase homolog 2 (E. coli)
YPEL3	0.684	MGC10500	NM_031477	yippee-like 3 (Drosophila)
ARSG	0.683	KIAA1001	NM_014960	arylsulfatase G
DNASE 2	0.683	DNL; DNL2; DNASE2A	NM_001375	deoxyribonuclease II, lysosomal
ACAA1	0.683	ACAA; THIO; PTHIO	NM 001607	acetyl-Coenzyme A acyltransferase 1 (peroxisomal 3-oxoacyl-
	5.005	,,	11_001007	Coenzyme A thiolase)
HSPC17	0.683	HSPC171	NM_014187	HSPC171 protein
1	0.655	W. 120000	100000000000000000000000000000000000000	10 11 1 1 1 1 1
ECHDC 3	0.683	FLJ20909	NM_024693	enoyl Coenzyme A hydratase domain containing 3
ATAD3	0.682	FLJ10709	NM_018188	ATPase family, AAA domain containing 3A
A	0.002			Jamiy, And Committee on the state of th
LPHN3	0.682	LEC3; CIRL3	NM_015236	latrophilin 3
MRPL47	0.682	NCM1; CGI-204; MGC45403	NM_020409	mitochondrial ribosomal protein L47
WDR3	0.681	FLJ12796	NM_006784	WD repeat domain 3
CHST6 FAM72	0.681	MCDC1 GCUD2; MGC57827; RP11-31207.1	NM_021615 NM_207418	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 6 family with sequence similarity 72, member A
A	0.08	GC0D2, MGC3/82/, KF11-3120/.1	NWI_207418	lamily with sequence similarity 72, member A
C12ORF	0.68	MGC14817; MGC104302	NM_032338	chromosome 12 open reading frame 31
31				
R3HDM	0.68	R3HDM; FLJ23334; KIAA0029	NM_015361	R3H domain containing 1
APTX	0.68	AOA; AOA1; AXA1; EAOH; EOAHA; FHA-HIT;	NM 175073	aprataxin
ALIA	0.00	MGC1072; FLJ20157	NWI_1/30/3	aprataxiii
NUDCD	0.68	CML66; FLJ14991	NM_032869	NudC domain containing 1
1				
CSPG5 HAS3	0.68	NGC; MGC44034 HAS3	NM_006574 NM_005329	chondroitin sulfate proteoglycan 5 (neuroglycan C) hyaluronan synthase 3
FLJ3236	0.679	FLJ32363; MGC46448	NM 198566	FLJ32363 protein
3	0.077	1 L332303, MGC40440	1414_190300	11352505 protein
SLC25A	0.679	MRS4L; MRS3/4; NPD016; DKFZp547C109	NM_031212	solute carrier family 25, member 28
28				
C12ORF	0.678	FLJ13089; DKFZp667K2112	NM_024953	chromosome 12 open reading frame 30
30 SNX8	0.678	SNX8	NM 013321	sorting nexin 8
BTN3A3	0.678	BTF3	NM 006994	butyrophilin, subfamily 3, member A3
CDC45L	0.677	CDC45; CDC45L2; PORC-PI-1	NM_003504	CDC45 cell division cycle 45-like (S. cerevisiae)
AIM1	0.676	ST4	NM_001624	absent in melanoma 1
KCTD17	0.676	FLJ12242	NM_024681	potassium channel tetramerisation domain containing 17
PPIAL4	0.675	COAS2 DNEOL SPRING: VIA A 0282	NM_178230	peptidylprolyl isomerase A (cyclophilin A)-like 4
TRIM9 ACTR3	0.675 0.675	RNF91; SPRING; KIAA0282 ARP11; ARP3BETA; DKFZp686O24114	NM_015163 NM_020445	tripartite motif-containing 9 ARP3 actin-related protein 3 homolog B (yeast)
B	5.075		11_020443	would remote protein 5 nomorog D (yeast)
ADAMT	0.675	ADAMTSR1; MGC40193	NM_052866	ADAMTS-like 1
SL1	0.555	WIA 4 0021	ND (01	DIT I
PHLPPL	0.675	KIAA0931	NM_015020	PH domain and leucine rich repeat protein phosphatase-like
TSC22D 1	0.675	TSC22; TGFB1I4; MGC17597; RP11-269C23.2; DKFZp686O19206	NM_183422	TSC22 domain family, member 1
MAN2B	0.674	KIAA0935	NM_015274	mannosidase, alpha, class 2B, member 2
2				, 1 , , ,
KIAA05	0.674	KIAA0564; FLJ21779	NM_001009	KIAA0564 protein
64 A POM	0.674	G20: NG20: HSBC224: MCC22400	814 NM 010101	analinanratain M
APOM VDAC1	0.674 0.673	G3a; NG20; HSPC336; MGC22400 PORIN; MGC111064; PORIN-31-HL	NM_019101 NM_003374	apolipoprotein M voltage-dependent anion channel 1
NARG1	0.673	MGC40612; RP11-396A22.1	NM 024561	NMDA receptor regulated 1-like
L			_	1 0
VKORC	0.672	DKFZp762H0113	NM_173517	vitamin K epoxide reductase complex, subunit 1-like 1
1L1	0.672	MCC25450	NIM 152500	
RTP1 BCL2L1	0.672 0.672	MGC35450 MGC120313; MGC120314; MGC120315	NM_153708 NM_138639	receptor transporter protein 1 BCL2-like 12 (proline rich)
2	0.072	WIGG120313, WIGG120314, WIGG120313	19191_136039	DCL2-like 12 (profile from)
UBL7	0.672	TCBA1; BMSC-UbP; MGC14421	NM_201265	ubiquitin-like 7 (bone marrow stromal cell-derived)
OLFM1	0.671	AMY; NOE1; OlfA; NOELIN; NOELIN1;	NM_006334	olfactomedin 1
OLIMI	•	NOELIN1_V1; NOELIN1_V2; NOELIN1_V4;	1	
021				
	0.671	NOELIN1_V5	NM 152710	von Willehrend feeter C and ECE demain-
VWCE	0.671	NOELIN1_V5 VWC1; URG11; FLJ32009	NM_152718 NM_006467	von Willebrand factor C and EGF domains polymerase (RNA) III (DNA directed) polymeride G (32kD)
	0.671 0.671	NOELIN1_V5	NM_152718 NM_006467	von Willebrand factor C and EGF domains polymerase (RNA) III (DNA directed) polypeptide G (32kD)
VWCE POLR3		NOELIN1_V5 VWC1; URG11; FLJ32009		

GNLY				
J. 1.2.1	0.671	519; LAG2; NKG5; LAG-2; D2S69E; TLA519;	NM_006433	granulysin
CCDD	0.67	lymphokine	313.6.000.402	
G6PD	0.67	G6PD1	NM_000402	glucose-6-phosphate dehydrogenase
FBP1	0.67	FBP	NM_000507	fructose-1,6-bisphosphatase 1
CAPN11	0.669	calpain11	NM_007058	calpain 11
BNC1	0.669	BNC; BSN1; HsT19447	NM_001717	basonuclin 1
NUP35	0.668	MP44; NP44	NM_138285	nucleoporin 35kDa
C14ORF	0.668	MGC9518; FLJ10483	NM_018108	chromosome 14 open reading frame 130
130	0.660	DADRA DADRA	277.6.0200.000	
PABPC3	0.668	PABP3; PABPL3	NM_030979	poly(A) binding protein, cytoplasmic 3
DUT	0.667	dUTPase; FLJ20622	NM_001025	dUTP pyrophosphatase
			248	
C15ORF	0.667	FLJ41618; MGC45866	NM_152259	chromosome 15 open reading frame 42
42				
FVT1	0.667	FVT1	NM_002035	follicular lymphoma variant translocation 1
GLRX2	0.666	GRX2; bA101E13.1	NM_197962	glutaredoxin 2
HLA-G	0.666	MHC-G	NM_002127	HLA-G histocompatibility antigen, class I, G
FAM46	0.666	XTP11; C6orf37; FLJ20037; FLJ31495	NM_017633	family with sequence similarity 46, member A
A				
OACT5	0.666	C3F; OACT5; nessy	NM_005768	membrane bound O-acyltransferase domain containing 5
C1ORF1	0.666	MGC2603; FLJ14264	NM_024037	chromosome 1 open reading frame 135
35				
C12ORF	0.665	HKMT1188; MGC13204	NM_031465	chromosome 12 open reading frame 32
32				
FAM98	0.665	FLJ44669	NM_174905	family with sequence similarity 98, member C
C				
IFIH1	0.665	Hlcd; MDA5; MDA-5; IDDM19; MGC133047	NM_022168	interferon induced with helicase C domain 1
KIAA19	0.664	KIAA1904; dJ63G5.3	NM_052906	KIAA1904 protein
04			_	•
MPP2	0.664	DLG2; DKFZp686J2189; DKFZp761D0712;	NM_005374	membrane protein, palmitoylated 2 (MAGUK p55 subfamily
<u> </u>	<u></u>	DKFZp686A06252		member 2)
CCNA2	0.664	CCN1; CCNA	NM_001237	cyclin A2
GCN1L1	0.664	GCN1; GCN1L; KIAA0219	NM_006836	GCN1 general control of amino-acid synthesis 1-like 1 (yeast)
TPX2	0.664	DIL2; p100; DIL-2; HCTP4; FLS353; HCA519;	NM 012112	TPX2, microtubule-associated, homolog (Xenopus laevis)
		REPP86; C20orf1; C20orf2; GD:C20orf1		,
MBNL2	0.663	MBLL; MBLL39; PRO2032; MGC120625;	NM 144778	muscleblind-like 2 (Drosophila)
		MGC120626; MGC120628; DKFZp781H1296;	1	
Ì		RP11-128N14.1		
SART2	0.663	SART2	NM 013352	squamous cell carcinoma antigen recognized by T cells 2
RIMS3	0.663	NIM3; RIM3; KIAA0237	NM 014747	regulating synaptic membrane exocytosis 3
OLIG2	0.662	BHLHB1; OLIGO2; RACK17; PRKCBP2	NM 005806	oligodendrocyte lineage transcription factor 2
ZNF226	0.662	ZNF226	NM 001032	zinc finger protein 226
ZINF220	0.002	ZINF220	374	Zinc Hilger protein 226
BTN2A2	0.662	BTF2; BT2.2	NM 181531	butyrophilin, subfamily 2, member A2
			NM 016641	
MIR16	0.662	MIR16; GDE1; 363E6.2		membrane interacting protein of RGS16
WDR67	0.661	Gm85; MGC21654; MGC104222; MGC126773;	NM_145647	WD repeat domain 67
ADI2DD	0.661	MGC138159	NIM 015420	ADI Cil 2 (AIDGID bin din in
ABI3BP	0.661	TARSH; NESHBP; FLJ41743; FLJ41754	NM_015429	ABI gene family, member 3 (NESH) binding protein
PDXK	0.66	PKH; PNK; C21orf97	NM_003681	pyridoxal (pyridoxine, vitamin B6) kinase
CCDC25	0.66	CCDC25	NM_001031	synonym: FLJ10853; Homo sapiens coiled-coil domain
CCDC25			708	containing 25 (CCDC25), mRNA.
CCDC25 C1ORF1	0.66	FLJ10706; FLJ13470; MGC130018; MGC130019;		
CCDC25 C1ORF1 12	0.66	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1	708 NM_018186	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112
CCDC25 C1ORF1 12 OSTAL		FLJ10706; FLJ13470; MGC130018; MGC130019;	708	containing 25 (CCDC25), mRNA.
CCDC25 C1ORF1 12 OSTAL PHA	0.66	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807	708 NM_018186 NM_152672	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A	0.66 0.66	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142	708 NM_018186 NM_152672 NM_000947	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3	0.66 0.66 0.66 0.659	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1	708 NM_018186 NM_152672 NM_000947 NM_000228	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A	0.66 0.66	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC	0.66 0.66 0.659 0.659	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC	0.66 0.66 0.66 0.659 0.659 0.659	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1	0.66 0.66 0.659 0.659 0.659 0.659	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB	0.66 0.66 0.66 0.659 0.659 0.659	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4;	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122	0.66 0.66 0.659 0.659 0.659 0.659 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1	0.66 0.66 0.659 0.659 0.659 0.659	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4;	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0	0.66 0.66 0.659 0.659 0.659 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ122637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_018319 NM_138632 NM_014550 NM_014550 NM_014550 NM_014550 NM_014550 NM_014550 NM_01818632 NM_014550 NM_014550 NM_014550 NM_01818632 NM_014550 NM_014550 NM_01818632 NM_014550 NM_014550 NM_01818632 NM_014550 NM_014550 NM_0181864 NM_014550 NM_0	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyi-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49	0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_017691	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK	0.66 0.66 0.65 0.659 0.659 0.658 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2	0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK	0.66 0.66 0.65 0.659 0.659 0.658 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2	0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH	0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ12637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021245 NM_014362 NM_014366 NM_018186 NM_014366 NM_014	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH	0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3;	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021245 NM_014362 NM_014366 NM_018186 NM_014366 NM_014	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2	0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3;	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220 NM_014362 NM_057159	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, Iysophosphatidic acid G-protein-
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2	0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.658	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ12637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P;	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220 NM_014362 NM_057159	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.658 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_017691 NM_012120 NM_013162 NM_057159 NM_018482	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.658 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_017691 NM_012120 NM_013162 NM_057159 NM_018482	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.658 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_012145 NM_021220 NM_014362 NM_057159 NM_018482 NM_018482	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like 1 (bacterial)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.657 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ122637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_018319 NM_138632 NM_014550 NM_014550 NM_012120 NM_01220 NM_013462 NM_057159 NM_018482 NM_006055 NM_014363 NM_0143	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like 1 (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.657 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ122637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_018319 NM_138632 NM_014550 NM_014550 NM_012120 NM_01220 NM_013462 NM_057159 NM_018482 NM_006055 NM_014363 NM_0143	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like 1 (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.658 0.657 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_012145 NM_021220 NM_012145 NM_021220 NM_018482 NM_006055 NM_014363 NM_006147	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like 1 (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.658 0.658 0.657 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_012145 NM_021220 NM_012145 NM_021220 NM_018482 NM_006055 NM_014363 NM_006147	containing 25 (CCDC25), mRNA. chromosome 1 open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like 1 (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_005147 NM_012415 NM_012	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_012145 NM_021220 NM_013462 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343;	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_005147 NM_012415 NM_012	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_017691 NM_012145 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_017975	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like 1 (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343;	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_012145 NM_021220 NM_013462 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A	0.66 0.66 0.66 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656 0.656	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_012120 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_017975 NM_017975	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_017691 NM_012145 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_017975	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa,
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HHIFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_017691 NM_012145 NM_021220 NM_014362 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_017975 NM_017975 NM_015426 NM_015426 NM_006750	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2 ABL1	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E ABL; JTK7; p150; c-ABL; v-abl	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_012120 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_015426 NM_015426 NM_015426 NM_015426 NM_006750 NM_0168486	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) v-abl Abelson murine leukemia viral oncogene homolog 1
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2 ABL1 IRX4	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656 0.655 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E ABL; JTK7; p150; c-ABL; v-abl MGC131996	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_014362 NM_012145 NM_021220 NM_01318482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_01591 NM_01591 NM_01591 NM_01591 NM_01591 NM_01591 NM_01591 NM_01591 NM_01595 NM_014363 NM_005147 NM_01595 NM_01595 NM_01595 NM_01595 NM_015955 NM_015955 NM_017975 NM_015426 NM_006750 NM_007313 NM_016358	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) v-abl Abelson murine leukemia viral oncogene homolog 1 iroquois homeobox protein 4
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2 ABL1 IRX4 ZSCAN	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E ABL; JTK7; p150; c-ABL; v-abl	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_017691 NM_012145 NM_057159 NM_018482 NM_06055 NM_014363 NM_005147 NM_012415 NM_017975 NM_017975 NM_015426 NM_006750 NM_016358 NM_016358 NM_01001007	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) v-abl Abelson murine leukemia viral oncogene homolog 1
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2 ABL1 IRX4 ZSCAN 2	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.657 0.656 0.656 0.656 0.655 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrcc1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZP686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E ABL; JTK7; p150; c-ABL; v-abl MGC131996 ZFP29; FLJ20595	708 NM_018186 NM_152672 NM_000947 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_017691 NM_012145 NM_021220 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_015426 NM_015426 NM_015426 NM_006750 NM_016358 NM_007313 NM_007313 NM_007313 NM_001007 072	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 Lanc lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) v-abl Abelson murine leukemia viral oncogene homolog 1 iroquois homeobox protein 4 zinc finger and SCAN domain containing 2
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2 ABL1 IRX4 ZSCAN 2 CRIM1	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656 0.655 0.655 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS: DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E ABL; JTK7; p150; c-ABL; v-abl MGC131996 ZFP29; FLJ20595 S52; MGC138194	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220 NM_01313 NM_057159 NM_014363 NM_006055 NM_014363 NM_005147 NM_012415 NM_015426 NM_01592 NM_015426 NM_016358 NM_016358 NM_007313 NM_016358 NM_010070 072 NM_016441	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) v-abl Abelson murine leukemia viral oncogene homolog 1 iroquois homeobox protein 4 zine finger and SCAN domain containing 2 cysteine rich transmembrane BMP regulator 1 (chordin-like)
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 LRRC49 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2 ABL1 IRX4 ZSCAN 2	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.657 0.656 0.656 0.656 0.655 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS; DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E ABL; JTK7; p150; c-ABL; v-abl MGC131996 ZFP29; FLJ20595 S52; MGC138194 DNMT; MCMT; CXXC9; FLJ16293;	708 NM_018186 NM_152672 NM_000947 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_014550 NM_017691 NM_012145 NM_021220 NM_057159 NM_018482 NM_006055 NM_014363 NM_005147 NM_012415 NM_012415 NM_015426 NM_015426 NM_015426 NM_006750 NM_016358 NM_007313 NM_007313 NM_007313 NM_001007 072	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase I TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2 development and differentiation enhancing factor 1 Lanc lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) v-abl Abelson murine leukemia viral oncogene homolog 1 iroquois homeobox protein 4 zinc finger and SCAN domain containing 2
CCDC25 C1ORF1 12 OSTAL PHA PRIM2A LAMB3 AURKC ELL3 TDP1 HRIHFB 2122 CARD1 0 DTYMK OVOL2 HIBCH EDG2 DDEF1 LANCL 1 SACS DNAJA 3 RAD54 B UNQ194 0 ZWILC H WDR51 A SNTB2 ABL1 IRX4 ZSCAN 2 CRIM1	0.66 0.66 0.66 0.659 0.659 0.659 0.658 0.658 0.658 0.658 0.658 0.657 0.657 0.657 0.656 0.656 0.656 0.655 0.655 0.655 0.655	FLJ10706; FLJ13470; MGC130018; MGC130019; RP1-97P20.1 OSTalpha; MGC39807 p58; PRIM2; MGC75142 LAMNB1 AIE2; AIK3; AurC; STK13; aurora-C FLJ22637 FLJ11090; MGC104252 TARA; DFNB28; KIAA1662; dJ37E16.4; HRIHFB2122 BIMP1; CARMA3; MGC142219 FLJ20156 CDC8; TMPK; TYMK ZNF339; EUROIMAGE566589 HIBYL-COA-H LPA1; LPAR1; edg-2; vzg-1; Gpcr26; Mrec1.3; rec.1.3 PAP; PAG2; AMAP1; ASAP1; ZG14P; KIAA1249 p40; GPR69A ARSACS: DKFZp686B15167 TID1; hTid-1 FSBP UNQ1940 KNTC1AP; hZwilch; FLJ10036; FLJ16343; MGC111034 MGC131902; DKFZP434C245 SNT3; SNTL; SNT2B2; EST25263; D16S2531E ABL; JTK7; p150; c-ABL; v-abl MGC131996 ZFP29; FLJ20595 S52; MGC138194	708 NM_018186 NM_152672 NM_000947 NM_000228 NM_001015 878 NM_025165 NM_018319 NM_138632 NM_014550 NM_017691 NM_012145 NM_021220 NM_01313 NM_057159 NM_014363 NM_006055 NM_014363 NM_005147 NM_012415 NM_015426 NM_01592 NM_015426 NM_016358 NM_016358 NM_007313 NM_016358 NM_010070 072 NM_016441	containing 25 (CCDC25), mRNA. chromosome I open reading frame 112 organic solute transporter alpha primase, polypeptide 2A, 58kDa laminin, beta 3 aurora kinase C elongation factor RNA polymerase II-like 3 tyrosyl-DNA phosphodiesterase 1 TRIO and F-actin binding protein caspase recruitment domain family, member 10 leucine rich repeat containing 49 deoxythymidylate kinase (thymidylate kinase) ovo-like 2 (Drosophila) 3-hydroxyisobutyryl-Coenzyme A hydrolase endothelial differentiation, lysophosphatidic acid G-protein- coupled receptor, 2 development and differentiation enhancing factor 1 LanC lantibiotic synthetase component C-like I (bacterial) spastic ataxia of Charlevoix-Saguenay (sacsin) DnaJ (Hsp40) homolog, subfamily A, member 3 RAD54 homolog B (S. cerevisiae) HWKM1940 Zwilch, kinetochore associated, homolog (Drosophila) WD repeat domain 51A syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) v-abl Abelson murine leukemia viral oncogene homolog 1 iroquois homeobox protein 4 zine finger and SCAN domain containing 2 cysteine rich transmembrane BMP regulator 1 (chordin-like)

C9ORF7	0.654	CGI-67; RP11-409O11.2	NM_001025	chromosome 9 open reading frame 77
7 CD83	0.653	BL11; HB15	780 NM 004233	CD83 molecule
ATG4C	0.653	APG4C; AUTL1; AUTL3; APG4-C; FLJ14867	NM 032852	ATG4 autophagy related 4 homolog C (S. cerevisiae)
DUSP23	0.653	VHZ; LDP-3; DUSP25; FLJ20442; RP11-	NM_017823	dual specificity phosphatase 23
ANKRD	0.653	190A12.1 PITK; KIAA0379	NM 015199	ankyrin repeat domain 28
28		,	_	
RAC1	0.653	MIG5; TC-25; p21-Rac1; MGC111543	NM_018890	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
CTH SPON1	0.653 0.652	MGC9471 KIAA0762; MGC10724; f-spondin	NM_153742 NM_006108	cystathionase (cystathionine gamma-lyase) spondin 1, extracellular matrix protein
TPP1	0.652	CLN2; GIG1; LINCL; TPP I; TPP-I	NM 000391	tripeptidyl peptidase I
EIF2S1	0.652	EIF2; EIF-2; EIF2A; EIF-2A; EIF-2alpha	NM 004094	eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa
SORT1	0.651	NT3; Gp95	NM_002959	sortilin 1
HADHA	0.651	GBP; HADH; MTPA; LCHAD; MGC1728; TP- ALPHA	NM_000182	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit
GALK2	0.651	GK2; MGC1745	NM_001001	galactokinase 2
TSPAN4	0.651	NAG2; NAG-2; TM4SF7; TSPAN-4;	556 NM_001025	tetraspanin 4
ASAH1	0.65	TETRASPAN	235 NM 177924	N-acylsphingosine amidohydrolase (acid ceramidase) 1
PVRL1	0.65	AC; PHP; ASAH; PHP32; FLJ21558; FLJ22079 ED4; PRR; HIgR; HVEC; OFC7; PRR1; PVRR;	NM 203286	poliovirus receptor-related 1 (herpesvirus entry mediator C;
PVKLI	0.63	CD111; PVRR1; SK-12; CLPED1; MGC16207; nectin-1; MGC142031	NM_203280	nectin)
BTN3A1	0.65	BTF5; BT3.1; CD277	NM_007048	butyrophilin, subfamily 3, member A1
AP3B1	0.65	PE; HPS; HPS2; ADTB3; ADTB3A	NM_003664	adaptor-related protein complex 3, beta 1 subunit
SCARA 3	0.649	CSR; APC7; CSR1; MSLR1; MSRL1	NM_182826	scavenger receptor class A, member 3
SYDE1	0.649	7h3; FLJ13511	NM_033025	synapse defective 1, Rho GTPase, homolog 1 (C. elegans)
JPH1	0.649	JP1; JP-1; DKFZp762L0313	NM_020647	junctophilin 1
CD164	0.649	MGC-24; MUC-24; endolyn	NM_006016	CD164 molecule, sialomucin
ALDH1 A1	0.649	ALDC; ALDH1; PUMB1; ALDH11; RALDH1; ALDH-E1; MGC2318	NM_000689	aldehyde dehydrogenase 1 family, member A1
PLK4 PVRL1	0.648 0.648	SAK; STK18 ED4; PRR; HIgR; HVEC; OFC7; PRR1; PVRR;	NM_014264 NM_203285	polo-like kinase 4 (Drosophila) poliovirus receptor-related 1 (herpesvirus entry mediator C;
		CD111; PVRR1; SK-12; CLPED1; MGC16207; nectin-1; MGC142031	NM_203285	nectin)
ANKRD 29	0.647	FLJ25053	NM_173505	ankyrin repeat domain 29
SNAPC5	0.647	SNAP19	NM_006049	small nuclear RNA activating complex, polypeptide 5, 19kDa
FOXRE D1	0.646	H17; FP634	NM_017547	FAD-dependent oxidoreductase domain containing 1
HERC6	0.645	FLJ20637	NM_001013 005	heet domain and RLD 6
KLF10	0.645	EGRA; TIEG; TIEG1	NM_005655	Kruppel-like factor 10
FLJ1128 6	0.645	FLJ11286; FLJ40743	NM_018381	hypothetical protein FLJ11286
MCM6	0.644	Mis5; P105MCM; MCG40308	NM_005915	MCM6 minichromosome maintenance deficient 6 (MIS5 homolog, S. pombe) (S. cerevisiae)
TRMT1	0.644	FLJ20244	NM_017722	TRM1 tRNA methyltransferase 1 homolog (S. cerevisiae)
PLA2G3	0.644	GIII-SPLA2	NM_015715	phospholipase A2, group III
MANSC 1 UNC5D	0.644	FLJ10298; LOH12CR3; 9130403P13Rik Unc5h4; FLJ16019; KIAA1777; PRO34692	NM_018050 NM_080872	MANSC domain containing 1 unc-5 homolog D (C. elegans)
LRRC15	0.644	LIB	NM 130830	leucine rich repeat containing 15
PUS1	0.643	MLASA; MGC11268	NM_025215	pseudouridylate synthase 1
PXN	0.643	FLJ16691	NM_002859	paxillin
C18ORF 54	0.642	MGC33382	NM_173529	chromosome 18 open reading frame 54
BCOR	0.642	MAA2; ANOP2; MCOPS2; FLJ20285; FLJ38041; KIAA1575; MGC71031; MGC131961	NM_017745	BCL6 co-repressor
OSAP	0.642	OSAP; MGC125827; MGC125828	NM_032623	ovary-specific acidic protein
KIAA09 71	0.642	KIAA0971	NM_014929	FAST kinase domains 2
ETV5	0.641	ERM	NM 004454	ets variant gene 5 (ets-related molecule)
RIN1	0.641	RIN1	NM_004292	Ras and Rab interactor 1
CCNE1	0.641	CCNE	NM_001238	cyclin E1
SYNGR 1	0.641	MGC:1939	NM_145738	synaptogyrin 1
SLC41A	0.641	MgtE	NM_173854	solute carrier family 41, member 1
PPM1G	0.64	PP2CG; PPP2CG; MGC1675; MGC2870;	NM_002707	protein phosphatase 1G (formerly 2C), magnesium-dependent,
FBL	0.64	PP2CGAMMA FIB; FLRN; RNU3IP1	NM 001436	gamma isoform fibrillarin
GPR23	0.64	P2Y9; LPAR4; P2RY9; P2Y5-LIKE	NM 005296	G protein-coupled receptor 23
LIAS	0.64	LAS; LIP1; HUSSY-01; MGC23245	NM_006859	lipoic acid synthetase
HLA- DMB	0.639	RING7; D6S221E	NM_002118	major histocompatibility complex, class II, DM beta
SNX5	0.639	FLJ10931	NM_014426	sorting nexin 5
DNAJC1 2	0.639	JDP1; RP11-57G10.2	NM_021800	DnaJ (Hsp40) homolog, subfamily C, member 12
SLITL2	0.638	SLITL2	NM_138440	vasorin
STK4 NOP5/N	0.638	KRS2; MST1; YSK3; DKFZp686A2068 NOP5/NOP58; HSPC120	NM_006282 NM_015934	serine/threonine kinase 4 nucleolar protein NOP5/NOP58
OP58 PLAC9	0.638	MGC104710	NM_001012	placenta-specific 9
LARS	0.638	LRS; LEUS; LARS1; LEURS; PIG44; RNTLS;	973 NM 020117	leucyl-tRNA synthetase
		HSPC192; hr025Cl; FLJ10595; FLJ21788	_	
MMP25 IGSF21	0.638 0.638	MMP20; MT-MMP6; MT6-MMP MGC15730; RP11-121A23.1	NM_022718 NM_032880	matrix metallopeptidase 25 immunoglobin superfamily, member 21
SRP46	0.637	SRP46	NM_032102	splicing factor, arginine/serine-rich 2B
C16ORF	0.637	FLJ13868	NM_022744	chromosome 16 open reading frame 58
58			_	

DENND	0.636	FAM31D; KIAA1277	NM_015689	DENN/MADD domain containing 2A
ZA RHEBL	0.636	RHEBL1c; FLJ25797; MGC34869	NM_144593	Ras homolog enriched in brain like 1
SPIB	0.635	SPI-B	NM 003121	Spi-B transcription factor (Spi-1/PU.1 related)
RNF175	0.635	FLJ34190	NM 173662	ring finger protein 175
NS3	0.634	TEM6; TENS1; FLJ13732; FLJ35545; MGC88434; H_NH049123.2; DKFZp686M1045	NM_022748	tensin 3
IGS	0.634	FLJ45226; DKFZp686K20216	NM_033198	phosphatidylinositol glycan anchor biosynthesis, class S
FOD1	0.634	C6orf114	NM_018988	glucose-fructose oxidoreductase domain containing 1
XYD1	0.633	PLM; MGC44983	NM_005031	FXYD domain containing ion transport regulator 1 (phospholemman)
21ORF 5	0.633	TMEM24L; MGC71445; C21orf258; DKFZp686O198; DKFZP586F0422	NM_199050	chromosome 21 open reading frame 25
QCRH PRC1	0.633	MGC111572 PRC; KIAA0595; MGC74642; RP11-302K17.6	NM_006004 NM_015062	ubiquinol-cytochrome c reductase hinge protein peroxisome proliferative activated receptor, gamma, coactivate related 1
PIL1	0.632	CYPL1; hCyPX; MGC678; PPIase; CGI-124	NM_016059	peptidylprolyl isomerase (cyclophilin)-like 1
GA	0.632	GA; AGU; ASRG	NM_000027	aspartylglucosaminidase
IAA05 6	0.632	Talpid3	NM_014749	KIAA0586
CT4	0.632	SRB; Cctd; MGC126164; MGC126165	NM_006430	chaperonin containing TCP1, subunit 4 (delta)
SMF1 ELP1	0.631	PI31 HMX3; MNAR; P160	NM_178578 NM_014389	proteasome (prosome, macropain) inhibitor subunit 1 (PI31) proline, glutamic acid and leucine rich protein 1
NKRA	0.631	ANKRA	NM_023039	ankyrin repeat, family A (RFXANK-like), 2
LC27A	0.631	FATP; FATP1; ACSVL5; FLJ00336; MGC71751	NM_198580	solute carrier family 27 (fatty acid transporter), member 1
2F2	0.63	E2F-2	NM 004091	E2F transcription factor 2
IF15	0.63	HKLP2; KNSL7; FLJ25667; NY-BR-62	NM_020242	kinesin family member 15
IF5B	0.63	IF2; FLJ10524; KIAA0741; DKFZp434I036	NM_015904	eukaryotic translation initiation factor 5B
1ETAP	0.63	KIAA0094; DKFZp781C0419	NM_015143	methionyl aminopeptidase 1
RRC17	0.63	P37NB	NM_001031 692	leucine rich repeat containing 17
ARS	0.63	G7A; VARS2	NM_006295	valyl-tRNA synthetase
6ORF1	0.629	MGC2817; dJ273F20	NM_032511	chromosome 6 open reading frame 168
8 LJ1171	0.629	AGS2; DLEU8; FLJ11712	NM_024570	ribonuclease H2, subunit B
1ETTL	0.629	M6A; Spo8; MT-A70; MGC4336	NM_019852	methyltransferase like 3
TGB1B	0.629	ICAP1; ICAP1A; ICAP1B; ICAP-1A; ICAP-1B; DKFZp686K08158	NM_022334	integrin beta 1 binding protein 1
IAA12	0.628	PALD	NM_014431	KIAA1274
RKCH	0.628	PKCL; PKC-L; PRKCL; MGC5363; MGC26269;	NM_006255	protein kinase C, eta
ATDN	0.628	nPKC-eta CDA11	NM_032026	TatD DNase domain containing 1
RMCX	0.628	ALEX2; MGC8742; KIAA0512; MGC13343	NM_177949	armadillo repeat containing, X-linked 2
C12ORF	0.627	FLJ14827	NM_032848	chromosome 12 open reading frame 52
CEAL1	0.627	p21; SIIR; pp21	NM 004780	transcription elongation factor A (SII)-like 1
ACNA F	0.627	JM8; JMC8; CSNB2; CSNBX2	NM_005183	calcium channel, voltage-dependent, alpha 1F subunit
OC342 97	0.627	LOC342897	NM_001001 414	similar to F-box only protein 2
NG	0.626	DGU; UDG; UNG1; HIGM4; UNG15; DKFZp781L1143	NM_080911	uracil-DNA glycosylase
МЕМ9	0.624	C11orf15	NM_020644	TMEM9 domain family, member B
RIM47	0.624	GOA; RNF100	NM_033452	tripartite motif-containing 47
IGC13 14 LJ4298	0.624	MGC13114; JFP2	NM_032366 NM_207403	hypothetical protein MGC13114
		CL (40 FL I2) OF		001
OQ2	0.623	CL640; FLJ26072 SMRT; CTG26; SMRTE; TRAC1; TNRC14;	NM_015697	coenzyme Q2 homolog, prenyltransferase (yeast)
COR2	0.623	TRAC-1; SMRTE-tau	NM_006312	nuclear receptor co-repressor 2
PIL5 OC571	0.623 0.623	LRR-1; 4-1BBLRR; MGC20689 TMEM159	NM_152329 NM_020422	peptidylprolyl isomerase (cyclophilin)-like 5 transmembrane protein 159
6 IFNG	0.622	MENG:	NM 002405	manic fringe homolog (Drosophila)
NAJC1	0.622 0.622	MFNG JDP1; RP11-57G10.2	NM_002405 NM_201262	DnaJ (Hsp40) homolog, subfamily C, member 12
EBPA	0.622	CEBP; C/EBP-alpha	NM 004364	CCAAT/enhancer binding protein (C/EBP), alpha
UT4	0.622	CD15; ELFT; FCT3A; FUC-TIV	NM_002033	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid- specific)
DCD2	0.621	RP8; ZMYND7; MGC12347	NM_144781	programmed cell death 2
AB38	0.621	rrGTPbp; NY-MEL-1	NM_022337	RAB38, member RAS oncogene family
DX4	0.62	CDX4	NM_005193	caudal type homeobox transcription factor 4
IYLIP NDD2	0.62	MIR ATV: NDD2: ATV V: DDND2: LycaDLD:	NM_013262	myosin regulatory light chain interacting protein
NPP2	0.619	ATX; NPP2; ATX-X; PDNP2; LysoPLD; FLJ26803; PD-IALPHA	NM_006209	ectonucleotide pyrophosphatase/phosphodiesterase 2 (autotaxi
14ORF	0.619	IRF2BPL; KIAA1865	NM_024496	chromosome 14 open reading frame 4
PB41L B	0.619	CG1; EHM2; FLJ21596; DKFZp761N1814	NM_018424	erythrocyte membrane protein band 4.1 like 4B
OD2	0.619	IPO-B; MNSOD; Mn-SOD	NM_000636	superoxide dismutase 2, mitochondrial
C1ORF7	0.617	FLJ32001; MGC18089; RP11-452J6.1	NM_152609	chromosome 1 open reading frame 71
NAP23	0.617	SNAP23A; SNAP23B; HsT17016	NM_003825	synaptosomal-associated protein, 23kDa
CDC77	0.617	MGC13183	NM_032358	coiled-coil domain containing 77
4ST150	0.617	MST150; NID67; MGC117221; MGC126887;	NM_032947	MSTP150

	1	T	1	I
DD III.	0.616	MGC126889	373.6.022.600	POTENTIAL AND A STATE OF THE ST
PINK1	0.616	BRPK; PARK6; FLJ27236	NM_032409	PTEN induced putative kinase 1
ZNF323	0.616	ZNF310P; FLJ23407; ZNF20-Lp; dJ874C20.2	NM_145909	zinc finger protein 323
LAMC2	0.616	B2T; EBR2; BM600; EBR2A; LAMB2T;	NM_018891	laminin, gamma 2
		LAMNB2; MGC138491; MGC141938		
FLJ2194	0.616	PP384; FLJ21945	NM_025203	chromosome 2 open reading frame 44
5	0.616	EL 199590 1 1 10111 0 PD11 10111 0	373.6.00.4500	10 10 77
C10ORF	0.616	FLJ22529; bA18I14.8; RP11-18I14.8	NM_024789	chromosome 10 open reading frame 77
77	0.64.5	PODANI BODINI BODILI V BODILI	373.6.0000.00	
PCDH11	0.615	PCDHX; PCDHY; PCDH-X; PCDH11	NM_032967	protocadherin 11 X-linked
X				
PODXL	0.615	PODLX2	NM_015720	podocalyxin-like 2
2				
ATP6V1	0.614	VMA4; ATP6E1; ATP6EL2; MGC9341;	NM_080653	ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E2
E2		ATP6V1EL2		
CCNH	0.613	CAK; p34; p37	NM_001239	cyclin H
EXT2	0.613	SOTV	NM_000401	exostoses (multiple) 2
OCRL	0.613	LOCR; NPHL2; OCRL1; INPP5F	NM_000276	oculocerebrorenal syndrome of Lowe
SURF6	0.613	FLJ30322	NM_006753	surfeit 6
ELP3	0.612	FLJ10422	NM_018091	elongation protein 3 homolog (S. cerevisiae)
ANGEL	0.612	KIAA0759	NM_015305	angel homolog 1 (Drosophila)
1				
SLC25A	0.612	ODC; ODC1; MGC126570	NM_030631	solute carrier family 25 (mitochondrial oxodicarboxylate carrier),
21				member 21
DIXDC1	0.611	CCD1; KIAA1735	NM_033425	DIX domain containing 1
STC2	0.611	STC-2; STCRP	NM_003714	stanniocalcin 2
ADCY9	0.611	HLA-DRB1	NM_001116	adenylate cyclase 9
PIGB	0.61	MGC21236	NM_004855	phosphatidylinositol glycan anchor biosynthesis, class B
ST8SIA	0.61	SIAT8E; ST8Sia V; MGC119670; MGC119671	NM_013305	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 5
5	<u></u>			
LOC221	0.61	DAGLBETA; KCCR13L	NM_139179	diacylglycerol lipase beta
955	<u></u>			
MRPL4	0.61	L4mt; CGI-28; MGC2681; MGC16367	NM_015956	mitochondrial ribosomal protein L4
TXLNA	0.609	TXLN; MGC118870; MGC118871; RP4-622L5.4;	NM_175852	taxilin alpha
		DKFZp451J0118		·
DEF6	0.609	IBP	NM 022047	differentially expressed in FDCP 6 homolog (mouse)
FAM43	0.609	FLJ44952	NM 207334	family with sequence similarity 43, member B
В			_	
CENTD	0.609	ARAP3; DRAG1; FLJ21065	NM 022481	centaurin, delta 3
3			_	, and the second
LARGE	0.609	MDC1D; KIAA0609	NM 004737	like-glycosyltransferase
C1ORF1	0.609	UNQ3119; AGPA3119; FLJ34999; MGC117222	NM 198545	chromosome 1 open reading frame 187
87			_	
SVIL	0.609	DKFZp686A17191	NM 003174	supervillin
CHAC1	0.608	MGC4504	NM 024111	ChaC, cation transport regulator-like 1 (E. coli)
SFRS10	0.608	TRA2B; SRFS10; TRA2-BETA; Htra2-beta;	NM 004593	splicing factor, arginine/serine-rich 10 (transformer 2 homolog,
		DKFZp686F18120		Drosophila)
TFF3	0.608	ITF; TFI; HITF; hP1.B	NM 003226	trefoil factor 3 (intestinal)
ARHGA	0.608	KIAA0013; MGC70740; GAP (1-12)	NM 199357	Rho GTPase activating protein 11A
P11A				grammagrammagramma
FLJ1398	0.608	TIP; FLJ13984; FLJ42098	NM 024770	methyltransferase like 8
4		, ,		,
MPDZ	0.608	MUPP1; FLJ25909; FLJ34626; FLJ90240;	NM 003829	multiple PDZ domain protein
		DKFZp781P216	_	
IMP3	0.608	BRMS2; MRPS4; C15orf12; FLJ10968;	NM 018285	IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast)
		DKFZp586L0118	_	
USP9X	0.608	•	NM 004652	
RRM1	0.607	R1; RR1; RIR1	NM 001033	ribonucleotide reductase M1 polypeptide
C12ORF	0.607	MGC14288	NM 032901	chromosome 12 open reading frame 62
62			_	
LSM6	0.607	YDR378C	313.4 007000	
M6PR	0.607		NM_007080	LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae)
WRN		SMPR; MPR46; CD-MPR	NM_007080 NM_002355	
AURKA	0.606		NM_002355	mannose-6-phosphate receptor (cation dependent)
AUKKA	0.606	SMPR; MPR46; CD-MPR RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608		mannose-6-phosphate receptor (cation dependent) Werner syndrome
AURKA IP1	0.606	RECQ3; RECQL2; RECQL3; DKFZp686C2056	NM_002355 NM_000553	mannose-6-phosphate receptor (cation dependent)
IP1	0.606	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608	NM_002355 NM_000553 NM_017900	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1
		RECQ3; RECQL2; RECQL3; DKFZp686C2056	NM_002355 NM_000553	mannose-6-phosphate receptor (cation dependent) Werner syndrome
IP1 CCDC34 NXT2	0.606 0.606 0.606	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP, AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2	NM_002355 NM_000553 NM_017900 NM_030771 NM_018698	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2
IP1 CCDC34 NXT2 ULBP2	0.606 0.606 0.606	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H	NM 002355 NM 000553 NM 017900 NM 030771 NM 018698 NM 025217	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2
IP1 CCDC34 NXT2	0.606 0.606 0.606	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP, AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2	NM_002355 NM_000553 NM_017900 NM_030771 NM_018698	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-
IP1 CCDC34 NXT2 ULBP2 DLST	0.606 0.606 0.606 0.606	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 NZDL2; RAET1H DLTS	NM 002355 NM 000553 NM 017900 NM 030771 NM 018698 NM 025217 NM 001933	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex)
IP1 CCDC34 NXT2 ULBP2	0.606 0.606 0.606	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H	NM 002355 NM 000553 NM 017900 NM 030771 NM 018698 NM 025217	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B	0.606 0.606 0.606 0.606 0.606 0.605	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 NZDL2; RAET1H DLTS	NM_002355 NM_000553 NM_017900 NM_030771 NM_018698 NM_025217 NM_001933 NM_018157	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans)
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A	0.606 0.606 0.606 0.606 0.606 0.605	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal)
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B	0.606 0.606 0.606 0.606 0.606 0.605	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476	NM_002355 NM_000553 NM_017900 NM_030771 NM_018698 NM_025217 NM_001933 NM_018157	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans)
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A	0.606 0.606 0.606 0.606 0.606 0.605	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 NZDL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849;	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal)
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK	0.606 0.606 0.606 0.606 0.605 0.605 0.605	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP, AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 NZDL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109	NM 002355 NM 000553 NM_017900 NM_030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923 NM_198465	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155	0.606 0.606 0.606 0.606 0.605 0.605 0.605 0.604 0.604	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM 148923 NM_198465 NM_004298	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1	0.606 0.606 0.606 0.606 0.605 0.605 0.605 0.604	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1	NM 002355 NM 000553 NM_017900 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_148923 NM_148923 NM_198465 NM 004298 NM 001177 NM 018297	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1	0.606 0.606 0.606 0.606 0.605 0.605 0.605 0.604 0.604 0.603 0.602	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 NZDL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923 NM_198465 NM 004298 NM 001177	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1	0.606 0.606 0.606 0.606 0.605 0.605 0.605 0.604 0.604 0.603 0.602	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364;	NM 002355 NM 000553 NM_017900 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_148923 NM_148923 NM_198465 NM 004298 NM 001177 NM 018297	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1
IP1 CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490	NM 002355 NM 000553 NM_017900 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923 NM_198465 NM 004298 NM 001177 NM 018297 NM_205833	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutrate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490	NM 002355 NM 000553 NM_017900 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923 NM_198465 NM 004298 NM 001177 NM 018297 NM_205833	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutrate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 IGSF1 ACAD1 0	0.606 0.606 0.606 0.606 0.605 0.605 0.605 0.604 0.604 0.603 0.602 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601	NM 002355 NM 000553 NM_017900 NM_017900 NM_018698 NM 025217 NM_018157 NM_1848923 NM_198465 NM 004298 NM 001177 NM 018297 NM_205833 NM_025247	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 0 UAP1	0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; K1AA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923 NM_198465 NM 001177 NM 018297 NM_205833 NM_025247 NM_003115	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutrate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 0 UAP1	0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 NZDL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_018157 NM_148923 NM_198465 NM 001177 NM 018297 NM_205833 NM_025247 NM_003115	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1
IPI CCDC34 NXT2 ULBP2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.603 0.602 0.601 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364;	NM 002355 NM 000553 NM_017900 NM_017900 NM_018098 NM 025217 NM_018157 NM_148923 NM_198465 NM 001177 NM 004298 NM 001177 NM_018297 NM_205833 NM_025247 NM_003115 NM_001555	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutrate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C140RF 29	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 c14_5314; MGC129926; MGC129927	NM 002355 NM 000553 NM_017900 NM_017900 NM_030771 NM_018698 NM_025217 NM_001933 NM_018157 NM_148923 NM_198465 NM_004298 NM_001177 NM_018297 NM_205833 NM_025247 NM_003115 NM_001555 NM_0181533	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C140RF 29 TBC1D8	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601 0.6	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGCS601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 c14_5314; MGC129926; MGC129927 AD3; VRP, HBLP1	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_018157 NM_148923 NM_198465 NM 004298 NM 004298 NM 003115 NM_001555 NM_001555 NM_181533 NM_181533	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29 TBC1 domain family, member 8 (with GRAM domain)
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C140RF 29	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 c14_5314; MGC129926; MGC129927	NM 002355 NM 000553 NM_017900 NM_030771 NM 018698 NM 025217 NM_018157 NM_18923 NM_198465 NM 004298 NM 001177 NM 018297 NM_025247 NM_025247 NM_003115 NM_001555 NM_181533 NM_07063 NM_07063	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C14ORF 29 TBC1D8 WDR35	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601 0.601 0.6	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 c14_5314; MGC129926; MGC129927 AD3; VRP; HBLP1 KIAA1336; MGC33196	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM_025217 NM_001933 NM_018157 NM_148923 NM_198465 NM_004298 NM_001177 NM_018297 NM_205833 NM_025247 NM_003115 NM_001555 NM_181533 NM_007063 NM_001006 657	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutrate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29 TBC1 domain family, member 8 (with GRAM domain) WD repeat domain 35
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C140RF 29 TBC1D8	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601 0.6	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGCS601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 c14_5314; MGC129926; MGC129927 AD3; VRP, HBLP1	NM 002355 NM 000553 NM_017900 NM_030771 NM 018698 NM 025217 NM_018157 NM_18923 NM_198465 NM 004298 NM 001177 NM 018297 NM_025247 NM_025247 NM_003115 NM_001555 NM_181533 NM_07063 NM_07063	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29 TBC1 domain family, member 8 (with GRAM domain)
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C140RF 29 TBC1D8 WDR35 CRYBA 4	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.603 0.602 0.601 0.601 0.60 0.6 0.6 0.6 0.6	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 c14_5314; MGC129926; MGC129927 AD3; VRP; HBLP1 KIAA1336; MGC33196 KLK4	NM 002355 NM 000553 NM_017900 NM_030771 NM 018698 NM 025217 NM_018157 NM_18923 NM_198465 NM 004298 NM 001177 NM 018297 NM_205833 NM_025247 NM_001555 NM_181533 NM_07063 NM_001006 657 NM_001886	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29 TBC1 domain family, member 8 (with GRAM domain) WD repeat domain 35 crystallin, beta A4
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C14ORF 29 TBC1D8 WDR35 CRYBA 4 PCSKIN	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601 0.6 0.6 0.6 0.	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 C14_5314; MGC129926; MGC129927 AD3; VRP, HBLP1 KIAA1336; MGC33196 KLK4 SAAS; PROSAAS	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_01933 NM_198465 NM 004298 NM 001177 NM 018297 NM_205833 NM_025247 NM_001555 NM_001555 NM_181533 NM_007063 NM_001006 657 NM_001886 NM 0013271	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxoglutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29 TBC1 domain family, member 8 (with GRAM domain) WD repeat domain 35 crystallin, beta A4 proprotein convertase subtilisin/kexin type 1 inhibitor
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 TBC1D8 WDR35 CT4ORF 29 TBC1D8 CRYBA 4 CRYBA 4 RAB3C	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601 0.6 0.6 0.6 0.	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 c14_5314; MGC129926; MGC129927 AD3; VRP; HBLP1 KIAA1336; MGC33196 KLK4 SAAS; PROSAAS RAB3C	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_001933 NM_148923 NM_198465 NM 004298 NM 004298 NM 001177 NM 018297 NM_205833 NM_00555 NM_181533 NM_001555 NM_181533 NM_001006 657 NM_001886 NM_001886	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) eytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29 TBC1 domain family, member 8 (with GRAM domain) WD repeat domain 35 crystallin, beta A4 proprotein convertase subtilisin/kexin type 1 inhibitor RAB3C, member RAS oncogene family
IPI CCDC34 NXT2 ULBP2 DLST RIC8B CYB5A NRK NUP155 ARL1 NGLY1 IGSF1 ACAD1 0 UAP1 IGSF1 C14ORF 29 TBC1D8 WDR35 CRYBA 4 PCSKIN	0.606 0.606 0.606 0.606 0.606 0.605 0.605 0.604 0.604 0.603 0.602 0.601 0.601 0.601 0.6 0.6 0.6 0.	RECQ3; RECQL2; RECQL3; DKFZp686C2056 AIP; AKIP; FLJ20608 L15; RAMA3; NY-REN-41 P15-2 N2DL2; RAET1H DLTS RIC8; hSyn; FLJ10620; MGC39476 CYB5; MCB5 NESK; FLJ16788; MGC131849; DKFZp686A17109 N155; KIAA0791 ARFL1 PNG1; FLJ11005; FLJ12409 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 MGC5601 AgX; AGX1; SPAG2 IGCD1; IGDC1; INHBP; PGSF2; KIAA0364; MGC75490 C14_5314; MGC129926; MGC129927 AD3; VRP, HBLP1 KIAA1336; MGC33196 KLK4 SAAS; PROSAAS	NM 002355 NM 000553 NM_017900 NM 030771 NM 018698 NM 025217 NM_01933 NM_198465 NM 004298 NM 001177 NM 018297 NM_205833 NM_025247 NM_001555 NM_001555 NM_181533 NM_007063 NM_001006 657 NM_001886 NM 0013271	mannose-6-phosphate receptor (cation dependent) Werner syndrome aurora kinase A interacting protein 1 coiled-coil domain containing 34 nuclear transport factor 2-like export factor 2 UL16 binding protein 2 dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) resistance to inhibitors of cholinesterase 8 homolog B (C. elegans) cytochrome b5 type A (microsomal) Nik related kinase nucleoporin 155kDa ADP-ribosylation factor-like 1 N-glycanase 1 immunoglobulin superfamily, member 1 acyl-Coenzyme A dehydrogenase family, member 10 UDP-N-acteylglucosamine pyrophosphorylase 1 immunoglobulin superfamily, member 1 chromosome 14 open reading frame 29 TBC1 domain family, member 8 (with GRAM domain) WD repeat domain 35 crystallin, beta A4 proprotein convertase subtilisin/kexin type 1 inhibitor

A CDD(0.500	DKFZp686D16130	NIM 022260	and Community A binding demain containing (
ACBD6 DPH2	0.598	MGC2404 DPH2L2	NM_032360 NM_001384	acyl-Coenzyme A binding domain containing 6 DPH2 homolog (S. cerevisiae)
PCMTD	0.597 0.597	FLJ10883	NM_052937	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain
1	0.397	11210003	INIVI_032937	containing 1
GFM1	0.597	EFG; GFM; EFG1; EFGM; EGF1; hEFG1;	NM 024996	G elongation factor, mitochondrial 1
		FLJ12662; FLJ13632; FLJ20773	_	,
TOR1B	0.597	DQ1; MGC4386	NM_014506	torsin family 1, member B (torsin B)
GCNT2	0.596	II; IGNT; ULG3; GCNT5; GCNT2C; NACGT1;	NM_001491	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme (I
		NAGCT1; bA421M1.1; bA360O19.2		blood group)
SPATA1	0.595	FLJ32906	NM_145263	spermatogenesis associated 18 homolog (rat)
8 NIP7	0.595	KD93; CGI-37; HSPC031; FLJ10296	NM 016101	nuclear import 7 homolog (S. cerevisiae)
KIAA04	0.595	ABHD2	NM 014657	KIAA0406
06	0.575	ABIID2	1411_014037	KIAA0400
SIAE	0.595	LSE; YSG2; CSE-C; MGC87009	NM 170601	sialic acid acetylesterase
KDELC	0.595	EP58; KDEL1; MGC5302	NM 024089	KDEL (Lys-Asp-Glu-Leu) containing 1
1			_	
POPDC3	0.594	POP3; MGC22671; bA355M14.1	NM_022361	popeye domain containing 3
IKIP	0.593	IKIP; FLJ31051	NM_201612	IKK interacting protein
ETV5	0.593	ERM	NM_004454	ets variant gene 5 (ets-related molecule)
TBPL1	0.593	TLF; TLP; STUD; TRF2; MGC:8389; MGC:9620	NM_004865	TBP-like 1
CDCA5	0.592	MGC16386	NM_080668	cell division cycle associated 5
PTP4A1	0.592	HH72; PRL1; PRL-1; PTPCAAX1; PTP(CAAX1); DKFZp779M0721	NM_003463	protein tyrosine phosphatase type IVA, member 1
EDG7	0.592	GPCR; LPA3; Edg-7; LP-A3; LPAR3; HOFNH30;	NM 012152	endothelial differentiation, lysophosphatidic acid G-protein-
LDU	0.374	RP4-678I3	1111_012132	coupled receptor, 7
STAT1	0.592	ISGF-3; STAT91; DKFZp686B04100	NM 007315	signal transducer and activator of transcription 1, 91kDa
FAM54	0.592	DUFD1	NM_138419	family with sequence similarity 54, member A
A			_	
PEMT	0.592	PNMT; PEAMT; PEMPT; PEMT2; MGC2483	NM_148173	phosphatidylethanolamine N-methyltransferase
HSPC19	0.591	HSPC196	NM_016464	transmembrane protein 138
6 CDVCD	0.501	GAGA: CGA2: CBVG4:	NIM COCCOS	Lamostallia assuma D
CRYGD PTRH1	0.591	CACA; CCA3; CRYG4; cry-g-D PTH1; C9orf115; MGC51999	NM_006891	crystallin, gamma D
riKHl	0.591	r 1111, C9011113, MGC31999	NM_001002 913	peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae)
EBI2	0.59	SGCE	NM 004951	Epstein-Barr virus induced gene 2 (lymphocyte-specific G
LDIZ	0.57	SGCE	1111_004931	protein-coupled receptor)
RPL13	0.59	BBC1; D16S444E; FLJ27453; FLJ27454;	NM 033251	ribosomal protein L13
		MGC71373; MGC117342	_	•
AIF1	0.59	IBA1; AIF-1; IRT-1	NM_001623	allograft inflammatory factor 1
WDR42	0.59	H326; FLJ35857; MGC99640; MGC117276;	NM_015726	WD repeat domain 42A
A	0.50	MGC118891; DKFZp781G1096	NIA 022206	1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TNKS1 BP1	0.59	TAB182; FLJ45975; KIAA1741	NM_033396	tankyrase 1 binding protein 1, 182kDa
MARVE	0.589	MARVD3; MRVLDC3; FLJ32280	NM_052858	MARVEL domain containing 3
LD3	0.367	WAR VD5, WIR VEDC5, 1 L552260	14141_032838	WARVEL domain containing 5
RFWD3	0.588	RNF201; FLJ10520	NM 018124	ring finger and WD repeat domain 3
TTLL12	0.588	FLJ41795; KIAA0153; dJ526I14.2	NM 015140	tubulin tyrosine ligase-like family, member 12
MLKL	0.588	FLJ34389	NM_152649	mixed lineage kinase domain-like
CTSL	0.588	MEP; CATL; FLJ31037	NM_001912	cathepsin L
ASS	0.588	ASS; CTLN1	NM_054012	argininosuccinate synthetase 1
FRAG1	0.588	FRAG1; PGAP2; MGC799	NM_014489	FGF receptor activating protein 1
TCP1	0.588	CCT1; CCTa; D6S230E; CCT-alpha; TCP-1-alpha	NM_030752	t-complex 1
C6ORF7 2	0.587	dJ12G14.2	NM_138785	chromosome 6 open reading frame 72
RASAL	0.587	nGAP; MGC129919	NM 170692	RAS protein activator like 2
2	0.507	norti, meetzyyty	1111_170022	10 to protein denvator like 2
IRF1	0.587	MAR; IRF-1	NM 002198	interferon regulatory factor 1
NPAS1	0.586	MOP5; PASD5	NM_002517	neuronal PAS domain protein 1
C20ORF	0.585	C20orf103	NM_012261	chromosome 20 open reading frame 103
103				
RNF150	0.585	MGC125502	NM_020724	ring finger protein 150
SCRL	0.585	SCRL; MGC33947; PLAL6978; PRO21961	NM_152358	chromosome 19 open reading frame 41
PPAP2C	0.584	LPP2; PAP-2c; PAP2-g	NM_177543	phosphatidic acid phosphatase type 2C
LGP2	0.584	LGP2; D11lgp2e B7DC; Btdc; PDL2; CD273; PD-L2; PDCD1L2;	NM_024119	likely ortholog of mouse D11lgp2
PDCD1 LG2	0.584	MGC142238; MGC142240; bA574F11.2	NM_025239	programmed cell death 1 ligand 2
NOMO2	0.584	PM5; Nomo	NM_173614	NODAL modulator 2
FAM8A	0.584	AHCP; FLJ23721	NM 016255	family with sequence similarity 8, member A1
1_	<u> </u>	,		
C19ORF	0.583	FLJ40059; MGC129962; MGC129963	NM_182577	chromosome 19 open reading frame 19
19			ļ	
MARVE	0.583	MARVD3; MRVLDC3; FLJ32280	NM_001017	MARVEL domain containing 3
LD3	0.502	DCP2: CD264: TRUNDD, TRAUDA	967 NM 003840	tumor poorgoin footor reconten augustomili
TNFRSF 10D	0.583	DCR2; CD264; TRUNDD; TRAILR4	NWI_003840	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain
IFI30	0.583	GILT; IP30; IFI-30; MGC32056	NM 006332	interferon, gamma-inducible protein 30
C14ORF	0.582	FLJ20424	NM_017815	chromosome 14 open reading frame 94
94				
THBD	0.582	TM; THRM; CD141	NM_000361	thrombomodulin
LRP16	0.582	LRP16	NM_014067	LRP16 protein
PPA1	0.581	PP; PP1; IOPPP; MGC111556; SID6-8061	NM_021129	pyrophosphatase (inorganic) 1
AP3M2	0.581	P47B; AP47B; CLA20	NM_006803	adaptor-related protein complex 3, mu 2 subunit
MGC17	0.581	MGC17624	NM_206967	chromosome 16 open reading frame 74
624 WDP 26	0.501	GLC1C-LITD21- TAWDDD, TA WDDD.	NM 120201	WD rapast damain 26
WDR36	0.581	GLC1G; UTP21; TAWDRP; TA-WDRP;	NM_139281	WD repeat domain 36
ENPP5	0.58	DKFZp686I1650 KIAA0879	NM_021572	ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative
LINEES	0.56	KII (TOO)	13171_021372	function) function
EYA3	0.58	<u> </u>	NM 172098	
C9ORF4	0.58		NM 030814	
5				<u> </u>
LRRFIP	0.58	HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035	NM_017724	leucine rich repeat (in FLII) interacting protein 2
2				
BACE2	0.579	ASP1; BAE2; DRAP; AEPLC; ALP56; ASP21;	NM_012105	beta-site APP-cleaving enzyme 2

	ı	CDA12: CEAD1	1	Т
TAP2	0.578	CDA13; CEAP1 APT2; PSF2; ABC18; ABCB3; RING11;	NM_018833	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
C14ORF	0.578	D6S217E FLJ12154	NM 021944	chromosome 14 open reading frame 93
93 C21ORF	0.578	B18; SUE21; PRED34	NM 058187	chromosome 21 open reading frame 63
63		, ,	_	
TNFRSF 12A	0.577	FN14; CD266; TWEAKR	NM_016639	tumor necrosis factor receptor superfamily, member 12A
ATP6V0 E2L	0.577	C7orf32	NM_145230	ATPase, H+ transporting V0 subunit E2-like (rat)
CSPG2 CHRNA	0.577 0.577	VERSICAN; DKFZp686K06110 CHRNA5	NM_004385 NM_000745	chondroitin sulfate proteoglycan 2 (versican) cholinergic receptor, nicotinic, alpha 5
5			_	
EXOSC 7	0.576	p8; EAP1; RRP42; Rrp42p; hRrp42p; FLJ26543; KIAA0116	NM_015004	exosome component 7
MULK	0.576	AGK; FLJ10842	NM_018238	multiple substrate lipid kinase
VAV1 APP	0.576 0.576	VAV AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA;	NM_005428 NM_000484	vav 1 oncogene amyloid beta (A4) precursor protein (peptidase nexin-II,
		CTFgamma	_	Alzheimer disease)
RRS1 MRPL3	0.576 0.575	KIAA0112 MRL3; RPML3	NM_015169 NM_007208	RRS1 ribosome biogenesis regulator homolog (S. cerevisiae) mitochondrial ribosomal protein L3
DKC1	0.575	DKC; NAP57; NOLA4; XAP101; dyskerin	NM 001363	dyskeratosis congenita 1, dyskerin
LOC112	0.574		NM_138416	2,0000000000000000000000000000000000000
937 TTF2	0.573	HuF2	NM 003594	transcription termination factor, RNA polymerase II
TACC2	0.573	AZU-1; ECTACC	NM_006997	transforming, acidic coiled-coil containing protein 2
KCNQ2	0.573	EBN; BFNC; EBN1; ENB1; HNSPC; KV7.2; KCNA11; KVEBN1	NM_172109	potassium voltage-gated channel, KQT-like subfamily, member 2
BCL11A	0.573	EVI9; CTIP1; BCL11A-L; BCL11A-S; FLJ10173; FLJ34997; KIAA1809; BCL11A-XL	NM_022893	B-cell CLL/lymphoma 11A (zinc finger protein)
GCDH	0.573	GCD; ACAD5	NM_013976	glutaryl-Coenzyme A dehydrogenase
KIAA18 04	0.573	KIAA1804; MLK4; dJ862P8.3; RP5-862P8.2	NM_032435	mixed lineage kinase 4
FUCA1	0.573	G6PD	NM_000147	fucosidase, alpha-L- 1, tissue
KATNB 1	0.571	KAT	NM_005886	katanin p80 (WD repeat containing) subunit B 1
CLIC4	0.571	H1; huH1; p64H1; CLIC4L; FLJ38640; DKFZP566G223	NM_013943	chloride intracellular channel 4
FAT	0.571	ME5; FAT1; CDHF7; hFat1	NM_005245	FAT tumor suppressor homolog 1 (Drosophila)
MRPS35	0.571	MDS023; MRPS28; MRP-S28; HDCMD11P; MGC104278; DKFZp762P093	NM_021821	mitochondrial ribosomal protein S35
HNRPD L	0.571	HNRNP; JKTBP; JKTBP2; laAUF1	NM_031372	heterogeneous nuclear ribonucleoprotein D-like
CLN5 PSD3	0.571 0.571	NCL; FLJ90628 EFA6R; HCA67; DKFZp761K1423	NM_006493 NM_206909	ceroid-lipofuscinosis, neuronal 5 pleckstrin and Sec7 domain containing 3
COQ3	0.571	bA9819.1; UG0215E05	NM 017421	coenzyme Q3 homolog, methyltransferase (S. cerevisiae)
PARP14	0.571	BAL2; KIAA1268	NM 017554	poly (ADP-ribose) polymerase family, member 14
MLLT7	0.571	AFX; AFX1; FOXO4; MGC120490	NM_005938	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 7
SDF4	0.571	Cab45; RP5-902P8.6	NM_016547	stromal cell derived factor 4
FLJ1098 6	0.571	FLJ10986; RP11-242B9.1	NM_018291	hypothetical protein FLJ10986
HADHS C	0.57	HAD; HHF4; HADH1; SCHAD; HADHSC; M/SCHAD; MGC8392	NM_005327	hydroxyacyl-Coenzyme A dehydrogenase
FLJ4590 9	0.57	FLJ45909; FLJ44131	NM_198445	FLJ45909 protein
BUB3 MGC32	0.569 0.568	BUB3L; hBUB3 MGC3207	NM_004725 NM_032285	BUB3 budding uninhibited by benzimidazoles 3 homolog (yeast) hypothetical protein MGC3207
07			_	*
COQ9 SEMA4	0.568 0.568	C16orf49; DKFZP434K046 SemC; SEMAC; KIAA1745; MGC131831	NM_020312 NM_020210	coenzyme Q9 homolog (S. cerevisiae) sema domain, immunoglobulin domain (Ig), transmembrane
B	0.508	Schie, SEWAC, KIAA1743, WIGC131631	14141_020210	domain (TM) and short cytoplasmic domain, (semaphorin) 4B
OXCT2	0.568	FKSG25; SCOT-T; FLJ00030	NM_022120	3-oxoacid CoA transferase 2
MGC32 65	0.567	MGC3265	NM_024028	prenylcysteine oxidase 1 like
HIST1H 2BE	0.567	H2B.h; H2B/h; H2BFH; H2BFN; dJ221C16.8	NM_003523	histone 1, H2be
NEFH	0.567	NFH	NM_021076	neurofilament, heavy polypeptide 200kDa
EXOSC 2	0.566	p7; RRP4; Rrp4p; hRrp4p	NM_014285	exosome component 2
AGPAT	0.566	LPAAT-e; 1-AGPAT5; LPAAT-epsilon	NM_018361	1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic
5 MRPL12	0.566	5c5-2; L12mt; MRPL7; RPML12; MGC8610;	NM_002949	acid acyltransferase, epsilon) mitochondrial ribosomal protein L12
CDT1	0.566	MRPL7/L12; MRP-L31/34 DUP; RIS2	NM 030928	chromatin licensing and DNA replication factor 1
BLM	0.565	BS; RECQ2; RECQL2; RECQL3; MGC126616; MGC131618; MGC131620	NM_000057	Bloom syndrome
ITPR2	0.565	IP3R2	NM_002223	inositol 1,4,5-triphosphate receptor, type 2
OGDHL	0.565	IARS	NM_018245	oxoglutarate dehydrogenase-like
GAL3ST 3	0.565	GAL3ST2; MGC142112; MGC142114	NM_033036	galactose-3-O-sulfotransferase 3
CSDA MTHFD	0.565 0.564	DBPA; CSDA1; ZONAB NMDMC	NM_003651 NM_006636	cold shock domain protein A methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2,
2			_	methenyltetrahydrofolate cyclohydrolase
MRS2L PRP2	0.564 0.564	HPT; MRS2; MGC78523 PRP2	NM_020662 NM_173490	MRS2-like, magnesium homeostasis factor (S. cerevisiae) transmembrane protein 171
ZCCHC	0.564	AIR1; HSPC086; FLJ22611; RP11-397D12.1	NM_032226	zinc finger, CCHC domain containing 7
SUV420 H1	0.564	CGI-85; MGC703; MGC21161; MGC118906; MGC118909	NM_016028	suppressor of variegation 4-20 homolog 1 (Drosophila)
GNS	0.564	G6S; MGC21274	NM_002076	glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID)
MET	0.563	HGFR; RCCP2	NM_000245	met proto-oncogene (hepatocyte growth factor receptor)
WBSCR	0.563	MGC40131	NM_152559	Williams Beuren syndrome chromosome region 27
MYBBP	0.563	P160; PAP2; FLJ37886	NM 014520	MYB binding protein (P160) 1a

NAMED 0.661 Cash NATE NATE FIDNING NAME 87977 NAME recoper regulated 1	1A				
18	NARG1	0.561	Ga19; NAT1; NATH; TBDN100	NM_057175	
SERTIA 1501 1509		0.561	XTP1; FLJ11252	NM_018369	DEP domain containing 1B
19					
TIPP		0.561	DJ667H12.2	NM_019605	SERTA domain containing 4
ILBNN 1.559 Ilbnn 1.55		0.56	I mpp.	373.6.000.600	
CHAPT 0.559			II.		
PMMIS 1599 PPCK, MCC 160; PPCSBF LA; PPCSBF LA; No. 200103 PPCK, MCC 160; PPCSBF LA; PPCSBF					
PMME 1976 PPCC, MICC 1677, PPCCRE A. PPCCRETAX No. 1900 PPCC, Color 1900 PP		0.559		NM_005441	chromatin assembly factor 1, subunit B (p60)
PP2C-648-2		0.550		NIM 001022	mustain mhaamhatasa 1D (fammanly 2C) maamaaiyun danandant
ACKAL 0.559	Privito	0.339			
BPCS	ADCV1	0.550			
MRPLIG					
URL U. U. U. U. U. U. U. U					
PPFIRE 0.558					
PEPPIR	UBEI	0.558	A159, A151, GAP1, A1591, UBE1A, MGC4/81	NWI_133280	
ACA	DDD1D1	0.558	KEDI: NV-BR-81: CDI17-like	NM 030040	protein phoenhatase 1 regulatory (inhihitor) subunit 14C
AAAPT2 0.558		0.550	KEI I, IVI BR 61, CI II / IRC	1111_030747	protein phosphatase 1, regulatory (minoror) subtaint 140
PP/ROURS 0.558 MPRIS_LINDEN_CORGES_FELS_2525_FELACODE NNL 201629 Inplication protein? Jornan celluloms 2)		0.558	AKAP250: DKFZp686M0430: DKFZp686O0331	NM 005100	A kinase (PRKA) anchor protein (gravin) 12
PAORE S.SS					
MILTIP 0.575 CINPIN, KIJPI; CINNP-15; CINNP-15; CINNP-15; CINNP-16; CINNP-15; CINNP-16; CI	PAQR8			NM 133367	
MEFINE 9.555 CEPRU-KLIPI-(CENP-50 FL)22468 NM, 014629 MICE Interacting protein					
CEPP-US09					
FIG.					
MCM10	ARHGE	0.556		NM 014629	Rho guanine nucleotide exchange factor (GEF) 10
Company Comp	F10		, , , ,	_	
Company	MCM10	0.556	CNA43; PRO2249; MGC126776	NM_018518	MCM10 minichromosome maintenance deficient 10 (S.
ATTILL 0.556				_	cerevisiae)
AFTILE 0.556		0.556	KIAA0523	NM_015253	KIAA0523 protein
Month Content Conten					
HOOKE					
BAIAP2					
National					
NM_01345 Submy-HRNA synthetase 2 (mitochondrial)(patality)		0.555	FLJ22582	NM_025045	BAI1-associated protein 2-like 2
No.					
No.	0.555	MSE1; KIAA1970	NM_133451	glutamyl-tRNA synthetase 2 (mitochondrial)(putative)	
No.					
IMPA		0.555	NDUFV2	NM_021074	NADH dehydrogenase (ubiquinone) flavoprotein 2, 24kDa
FYN					
PENK 0.554					
FAM86					
NM_144736 NM_1					
PRO185 0.554 PRO1853 NM_144736 Nypothetical protein PRO1853		0.554	SB155; MGC19050	NM_201400	ramily with sequence similarity 86, member A
SNXS 0.553		0.554	DDO1952	NM 144726	hymothetical protein DDO1952
SNXS 0.553 FLI10931		0.554	1 KO1833	INIVI_144/30	hypothetical protein FKO1833
CCDC25		0.553	FI 110031	NM 152227	corting payin 5
LRCH					
FLJ40101; FLJ46315					
FLJ32549 STB1, VAMP-1, DKFZp686H12131 NM _ 152440 Nm	Literi.	0.555		1111_002319	
YMMP 0.552	FLJ3254	0.552		NM 152440	
RASDI 0.552	9				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
RASDI 0.552	VAMP1	0.552	SYB1; VAMP-1; DKFZp686H12131	NM 016830	vesicle-associated membrane protein 1 (synaptobrevin 1)
PRMTI3	RASD1	0.552	AGS1; DEXRAS1; MGC:26290	NM_016084	RAS, dexamethasone-induced 1
CSPG4 0.55		0.552			cirrhosis autosomal recessive 1A (cirhin)
TTK	CIRH1A	0.552	NAIC; CIRHIN; TEX292; FLJ14728; KIAA1988	NM_032830	
DOCS16 0.55 LOCS1691; DKFZp434J0315 NM_030941 exonuclease NEF-sp			HRMT1L3		
PNPLA2	PRMT3	0.551	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG	NM_005788	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated)
PNPLA2 0.55	PRMT3 CSPG4 TTK	0.551 0.55 0.55	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280	NM_005788 NM_001897 NM_003318	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase
HERC4	PRMT3 CSPG4 TTK LOC816	0.551 0.55 0.55	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280	NM_005788 NM_001897 NM_003318	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase
IBERC4 0.549	PRMT3 CSPG4 TTK LOC816 91	0.551 0.55 0.55 0.55	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315	NM_005788 NM_001897 NM_003318 NM_030941	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp
IMPDH1	PRMT3 CSPG4 TTK LOC816 91	0.551 0.55 0.55 0.55	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109;	NM_005788 NM_001897 NM_003318 NM_030941	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp
DKFZP78N0678	PRMT3 CSPG4 TTK LOC816 91 PNPLA2	0.551 0.55 0.55 0.55 0.55	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik	NM_005788 NM_001897 NM_003318 NM_030941 NM_020376	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2
CLYBL 0.549 CLB; bA134015.1 NM 206808 citrate lyase beta like	PRMT3 CSPG4 TTK LOC816 91 PNPLA2	0.551 0.55 0.55 0.55 0.55 0.55	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092	NM_005788 NM_001897 NM_003318 NM_030941 NM_020376 NM_015601	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4
CBR1 0.548 CBR; hCBR1 NM 001757 carbonyl reductase 1	PRMT3 CSPG4 TTK LOC816 91 PNPLA2	0.551 0.55 0.55 0.55 0.55 0.55	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608;	NM_005788 NM_001897 NM_003318 NM_030941 NM_020376 NM_015601	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4
MICAL2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1	0.551 0.55 0.55 0.55 0.55 0.55 0.549 0.549	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678	NM_005788 NM_001897 NM_003318 NM_030941 NM_020376 NM_015601 NM_000883	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1
DKFZp686H2469; DKFZp686H03148	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134015.1	NM_005788 NM_001897 NM_003318 NM_030941 NM_020376 NM_015601 NM_000883	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like
Sep-02 0.548 DIFF6; NEDD5; hNedd5; KIAA0158 NM_001008 491	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.549	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; MPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM_001757	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1
TGFBR3	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.549	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2;	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM_001757	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain
TGFBR3	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.549 0.548	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2
ARG2 0.547 ARG2 NM 001172 arginase, type II HNRPA 0.547 HNRNPA1; MGC102835 NM_002136 heterogeneous nuclear ribonucleoprotein A1 KIAA09 0.547 FLJ10592; TMEM131L; DKFZp586H1322 NM_015196 KIAA0922 22 CGORF8 0.547 FLJ22174; DKFZP434F011 NM_021945 chromosome 6 open reading frame 85 C1ORF1 0.547 FLJ20729; FLJ20760; NY-BR-75; MGC131963 NM_017953 chromosome 1 open reading frame 181 CDC42E 0.547 CEP2; BORG1 NM_006779 CDC42 effector protein (Rho GTPase binding) 2 EVA1 0.547 EVA; MPZL2 NM_005797 epithelial V-like antigen 1 ANKRD 0.546 SIP; MXRA3; FLJ20004; KIAA1518; NM_015493 ankyrin repeat domain 25 RHOU 0.546 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616; DM_021205 ras homolog gene family, member U D1646B12.2; f1646B12.2 CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.549 0.548	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2
ARG2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM 015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2
HNRPA	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM 015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan,
NM_015196 KIAA0922	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 TGFBR3	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM_001757 NM_014632 NM_001008 491 NM_003243	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa)
Clorr CDC42E 0.547 FLJ22174; DKFZP434F011 NM_021945 Chromosome 6 open reading frame 85	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 001757 NM_014632 NM_001008 491 NM_003243 NM 001172	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II
Clorr CDC42E 0.547 FLJ22174; DKFZP434F011 NM_021945 Chromosome 6 open reading frame 85	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 001757 NM_014632 NM_001008 491 NM_003243 NM 001172	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II
C6ORF8 5 0.547 5 FLJ22174; DKFZP434F011 NM_021945 chromosome 6 open reading frame 85 NM_021945 chromosome 6 open reading frame 85 C1ORF1 81 0.547 FLJ20729; FLJ20760; NY-BR-75; MGC131963 NM_017953 chromosome 1 open reading frame 181 CDC42E 0.547 CEP2; BORG1 NM_006779 P2 CDC42 effector protein (Rho GTPase binding) 2 EVA1 0.547 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 NM_015493 MGC119707; DKFZp434N161 NM_015493 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616; DJ646B12.2; II646B12.2 NM_015493 NM_021205 NM_021205 ras homolog gene family, member U CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule NM_0022356 leucine proline-enriched proteoglycan (leprecan) 1 LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_006644 ACACA 0.544 LRFIP 0.543 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1	0.551 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1
5 CONTRIL No.547 FLJ20729; FLJ20760; NY-BR-75; MGC131963 NM_017953 chromosome 1 open reading frame 181 CDC42E P2 0.547 CEP2; BORG1 NM_006779 CDC42 effector protein (Rho GTPase binding) 2 EVA1 0.547 EVA; MPZL2 NM_005797 epithelial V-like antigen 1 ANKRD 0.546 SIP; MXRA3; FLJ20004; KIAA1518; NM_015493 nkyrin repeat domain 25 25 MGC119707; DKFZp434N161 NM_015493 ankyrin repeat domain 25 RHOU 0.546 ARHU; WRCHI; hG28R; CDC42L1; FLJ10616; DJ646B12.2; fl646B12.2 NM_001770 CD19 molecule CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09	0.551 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1
81 CDC42E 0.547 CEP2; BORG1 NM_006779 CDC42 effector protein (Rho GTPase binding) 2 EVA1 0.547 EVA; MPZL2 NM_005797 epithelial V-like antigen 1 ANKRD 0.546 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 NM_015493 ankyrin repeat domain 25 RHOU 0.546 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616; DI646B12.2; fl646B12.2 NM_021205 ras homolog gene family, member U CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006649 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.548	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922
CDC42E P2 0.547 P2 CEP2; BORG1 NM_006779 NM_006779 CDC42 effector protein (Rho GTPase binding) 2 EVA1 0.547 ANKRD EVA; MPZL2 NM_005797 epithelial V-like antigen 1 ANKRD 0.546 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 NM_015493 NM_015493 ankyrin repeat domain 25 RHOU 0.546 DJ646B12; JI646B12; JI646B12.2 NM_021205 NM_001770 ras homolog gene family, member U CD19 0.545 B4; MGC12802 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 NM_000664 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.543 PMFIFP HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 C60RF8 5	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.548	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM_001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_015196	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85
P2 EVA; MPZL2 NM_005797 epithelial V-like antigen 1 ANKRD 0.546 SIP; MXRA3; FLJ20004; KIAA1518; NM_015493 ankyrin repeat domain 25 25 MGC119707; DKFZp434N161 NM_015493 ankyrin repeat domain 25 RHOU 0.546 ARHU; WRCHI; hG28K; CDC42L1; FLJ10616; DJ646B12.2; fl646B12.2; fl646B12.2 NM_001770 ras homolog gene family, member U CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPREI 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 C60RF8 5 C10RF1	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.548	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM_001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_015196	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85
EVA1 0.547 EVA; MPZL2 NM_005797 epithelial V-like antigen 1 ANKRD 0.546 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 NM_015493 ankyrin repeat domain 25 RHOU 0.546 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616; DJ646B12.2; IJ646B12.2; IJ646B12.2; IJ646B12.2; IJ646B12.2; IJ646B12.2 NM_021205 ras homolog gene family, member U CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006644 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 C6ORF8 5 C1ORF1 81	0.551 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ2174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_002136 NM_015196 NM_015196 NM_017953	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181
ANKRD 0.546 SIP; MXRA3; FLJ20004; KIAA1518; NM_015493 ankyrin repeat domain 25	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORF8 5 CIORF1 81 CDC42E	0.551 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ2174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_002136 NM_015196 NM_015196 NM_017953	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181
25 MGC119707; DKFZp434N161 Fraction of the protein protein 2 RHOU 0.546 ARHU; WRCHI; hG28R; CDC42L1; FLJ10616; DJ646B12.2 NM_021205 ras homolog gene family, member U CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2 2 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 C60RF8 5 C10RF1 81 CDC42E P2	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.547 0.547 0.547	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; SWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2369; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_021945 NM_017953 NM_006779	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2
RHOU 0.546 ARHU; WRCH; hG28K; CDC42L1; FLJ10616; DJ646B12.2 NM_021205 ras homolog gene family, member U CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 NM_00664 NM_00664 LRRFIP 0.543 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORF8 5 CIORF1 81 CDC42E P2 EVA1	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548 0.547 0.547 0.547	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2	NM 005788 NM 001897 NM 003318 NM_030941 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_002136 NM_015196 NM_017953 NM_017953 NM_006779 NM_005797	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1
DJ646B12.2; fJ646B12.2 CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPREI 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 ACACA 0.544 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006649 LRRFIP 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORF8 5 CIOGFI 81 CDC42E P2 EVA1 ANKRD	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548 0.547 0.547 0.547	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134015.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP; MXRA3; FLJ20004; KIAA1518;	NM 005788 NM 001897 NM 003318 NM_030941 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_002136 NM_015196 NM_017953 NM_017953 NM_006779 NM_005797	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1
CD19 0.545 B4; MGC12802 NM_001770 CD19 molecule LEPRE1 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 NM_000664 NM_000664 LRRFIP 0.543 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2 2 1	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 C6ORF8 5 C1ORF1 81 CDC42E P2 EVA1 ANKRD 25	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547 0.547 0.547 0.547	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134015.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP, MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_015196 NM_017953 NM_017953 NM_006779 NM_005797 NM_015493	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1 ankyrin repeat domain 25
LEPREI 0.544 P3H1; GROS1; MGC117314 NM_022356 leucine proline-enriched proteoglycan (leprecan) 1 ACACA 0.544 NM_000664 LRRFIP 0.543 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2 2 1	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 C6ORF8 5 C1ORF1 81 CDC42E P2 EVA1 ANKRD 25	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547 0.547 0.547 0.547	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPSIL1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616;	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_015196 NM_017953 NM_017953 NM_006779 NM_005797 NM_015493	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1 ankyrin repeat domain 25
ACACA 0.544 NM 000664 LRRFIP 0.543 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORF8 5 CIOGFI 81 CDC42E P2 EVA1 ANKRD 25 RHOU	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547 0.547 0.547 0.547	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616; DJ646B12.2; fl646B12.2	NM 005788 NM 001897 NM 003318 NM_030941 NM_030941 NM_020376 NM 015601 NM_000883 NM 001757 NM_014632 NM_001008 491 NM_003243 NM_002136 NM_015196 NM_015196 NM_017953 NM_017953 NM_006779 NM_005797 NM_015493 NM_021205	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1 ankyrin repeat domain 25 ras homolog gene family, member U
LRRFIP 0.543 HUFI-2; FLJ20248; FLJ22683; DKFZp434H2035 NM_006309 leucine rich repeat (in FLII) interacting protein 2	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORF1 81 CDC42E P2 EVA1 ANKRD 25 RHOU	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547 0.547 0.547 0.547 0.547	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 ARHU; WRCH1; MG28K; CDC42L1; FLJ10616; DJ646B12.2; fl646B12.2 B4; MGC12802	NM 005788 NM 001897 NM 003318 NM_030941 NM_020376 NM_015601 NM_000883 NM_001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_015196 NM_017953 NM_017953 NM_017953 NM_005797 NM_015493 NM_021205 NM_001770	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1 ankyrin repeat domain 25 ras homolog gene family, member U CD19 molecule
	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORFS 5 CIORF1 81 CDC42E P2 EVA1 ANKRD 25 RHOU CD19 LEPRE1	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.547 0.547 0.547 0.547 0.547 0.547 0.547	HRMT1L3 NG2; MCSP, MCSPG; MSK16; MEL-CSPG ESK; PYT; MPS1L1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; hCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 ARHU; WRCH1; MG28K; CDC42L1; FLJ10616; DJ646B12.2; fl646B12.2 B4; MGC12802	NM 005788 NM 001897 NM 003318 NM_030941 NM_030941 NM_020376 NM_015601 NM_000883 NM 206808 NM 001757 NM_014632 NM_001008 491 NM_002136 NM_02136 NM_021945 NM_017953 NM_017953 NM_006779 NM_005797 NM_015493 NM_021205 NM_001770 NM_022356	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1 ankyrin repeat domain 25 ras homolog gene family, member U CD19 molecule
	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORF8 5 CIORF1 81 CDC42E P2 EVA1 ANKRD 25 RHOU CD19 LEPREI ACACA	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.546	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPSIL1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616; DJ646B12.2; fJ646B12.2 B4; MGC12802 P3H1; GROS1; MGC117314	NM 005788 NM 001897 NM 003318 NM_030941 NM_030941 NM_020376 NM 015601 NM_000883 NM_001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_017953 NM_017953 NM_015493 NM_005797 NM_015493 NM_005797 NM_015493 NM_001770 NM_0021366 NM_001770 NM_0021366 NM_001770 NM_0021366 NM_001770	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1 ankyrin repeat domain 25 ras homolog gene family, member U CD19 molecule leucine proline-enriched proteoglycan (leprecan) 1
	PRMT3 CSPG4 TTK LOC816 91 PNPLA2 HERC4 IMPDH1 CLYBL CBR1 MICAL2 Sep-02 TGFBR3 ARG2 HNRPA 1 KIAA09 22 CGORF8 5 CIOCHS 81 CDC42E P2 EVA1 ANKRD 25 RHOU CD19 LEPRE1 ACACA LRRFIP	0.551 0.55 0.55 0.55 0.55 0.55 0.55 0.549 0.549 0.548 0.548 0.548 0.548 0.548 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.547 0.546	HRMT1L3 NG2; MCSP; MCSPG; MSK16; MEL-CSPG ESK; PYT; MPSIL1; FLJ38280 LOC81691; DKFZp434J0315 ATGL; FP17548; TTS-2.2; DKFZp667M109; 1110001C14Rik KIAA1593; DKFZP564G092 IMPD; RP10; IMPD1; sWSS2608; DKFZp781N0678 CLB; bA134O15.1 CBR; bCBR1 KIAA0750; MICAL2PV1; MICAL2PV2; DKFZp686H2469; DKFZp686H03148 DIFF6; NEDD5; hNedd5; KIAA0158 TGFBR3 ARG2 HNRNPA1; MGC102835 FLJ10592; TMEM131L; DKFZp586H1322 FLJ22174; DKFZP434F011 FLJ20729; FLJ20760; NY-BR-75; MGC131963 CEP2; BORG1 EVA; MPZL2 SIP; MXRA3; FLJ20004; KIAA1518; MGC119707; DKFZp434N161 ARHU; WRCH1; hG28K; CDC42L1; FLJ10616; DJ646B12.2; fJ646B12.2 B4; MGC12802 P3H1; GROS1; MGC117314	NM 005788 NM 001897 NM 003318 NM_030941 NM_030941 NM_020376 NM 015601 NM_000883 NM_001757 NM_014632 NM_001008 491 NM_003243 NM_001172 NM_002136 NM_015196 NM_017953 NM_017953 NM_015493 NM_005797 NM_015493 NM_005797 NM_015493 NM_001770 NM_0021366 NM_001770 NM_0021366 NM_001770 NM_0021366 NM_001770	protein arginine methyltransferase 3 chondroitin sulfate proteoglycan 4 (melanoma-associated) TTK protein kinase exonuclease NEF-sp patatin-like phospholipase domain containing 2 hect domain and RLD 4 IMP (inosine monophosphate) dehydrogenase 1 citrate lyase beta like carbonyl reductase 1 microtubule associated monoxygenase, calponin and LIM domain containing 2 septin 2 transforming growth factor, beta receptor III (betaglycan, 300kDa) arginase, type II heterogeneous nuclear ribonucleoprotein A1 KIAA0922 chromosome 6 open reading frame 85 chromosome 1 open reading frame 181 CDC42 effector protein (Rho GTPase binding) 2 epithelial V-like antigen 1 ankyrin repeat domain 25 ras homolog gene family, member U CD19 molecule leucine proline-enriched proteoglycan (leprecan) 1

CDO1	0.542	CDO1	NM_001801	cysteine dioxygenase, type I
C18ORF	0.542	FLJ36208	NM_001012	chromosome 18 open reading frame 56
56			716	
TCP1	0.542	CCT1; CCTa; D6S230E; CCT-alpha; TCP-1-alpha	NM_030752	t-complex 1
WDHD1	0.542	AND-1	NM_001008	WD repeat and HMG-box DNA binding protein 1
			396	
RAB3B	0.541	RAB3B	NM_002867	RAB3B, member RAS oncogene family
PIK3CD	0.541	p110D	NM_005026	phosphoinositide-3-kinase, catalytic, delta polypeptide
CPT1C	0.541	CATL1; CPTIC; FLJ23809	NM_152359	carnitine palmitoyltransferase 1C
SEMA3	0.54	SemD; SEMA1; SEMAD; SEMAL; coll-1;	NM_006080	sema domain, immunoglobulin domain (Ig), short basic domain,
A	0.520	Hsema-I; SEMAIII; sema III; Hsema-III	NIN 6 020000	secreted, (semaphorin) 3A
ZNF323	0.539	ZNF310P; FLJ23407; ZNF20-Lp; dJ874C20.2	NM_030899	zinc finger protein 323
ICA1	0.538 0.538	KIAA1515	NM_022308 NM_020886	ubiquitin specific peptidase 28
USP28 EREG	0.537	ER ER	NM 001432	epiregulin
HEATR	0.537	BAP28; FLJ10359; MGC72083; RP11-385F5.3	NM 018072	HEAT repeat containing 1
1 1	0.557	BAF 26, FL310339, MGC / 2083, RF 11-363F3.3	NWI_018072	TIEAT Tepeat Containing T
MRPS12	0.537	RPS12; RPMS12; RPSM12; MPR-S12; MT-	NM 033363	mitochondrial ribosomal protein S12
	0.557	RPS12	1111_033303	mitorional air ricocomai protein 512
RFC3	0.537	RFC38; MGC5276	NM 002915	replication factor C (activator 1) 3, 38kDa
IL27RA	0.536	CRL1; TCCR; WSX1; IL27R; zcytor1	NM 004843	interleukin 27 receptor, alpha
C20ORF	0.536		NM_017874	
27			_	
SAC3D1	0.536	SHD1; HSU79266	NM_013299	SAC3 domain containing 1
TFPI	0.536	EPI; TFI; LACI	NM_001032	tissue factor pathway inhibitor (lipoprotein-associated
			281	coagulation inhibitor)
PELI2	0.535	PELI2	NM_021255	pellino homolog 2 (Drosophila)
KRTCA	0.535	KCP3; MRV222; PRO9898; MGC126736;	NM_173853	keratinocyte associated protein 3
P3	<u> </u>	MGC126738		
CACNG	0.535	CACNG7	NM_031897	calcium channel, voltage-dependent, gamma subunit 6
6 FAM111	0.534	EL 199704, IVIA A 1905, DVEZ, COCA 96175	NIM 022071	Constitution of the consti
	0.534	FLJ22794; KIAA1895; DKFZp686A06175	NM_022074	family with sequence similarity 111, member A
A STOX2	0.534	DKFZp762K222	NM 020225	storkhead box 2
STOX2 STOM	0.534	BND7; EPB7; EPB72	NM_020225 NM_004099	storkhead box 2 stomatin
PHF19	0.534	PCL3; MGC23929; MGC131698	NM_004099 NM_015651	PHD finger protein 19
SLC43A	0.534	LAT3; PB39; POV1; R00504	NM_013631 NM_003627	solute carrier family 43, member 1
1 1	0.554	LA13, FB39, FOV1, R00304	INIVI_003027	solute carrier family 43, member 1
RNASE	0.533	RNASE6PL; bA514O12.3; RP11-514O12.3	NM 003730	ribonuclease T2
T2		, , , , , , , , , , , , , , , , , , , ,		
TRIM8	0.533	GERP; RNF27	NM 030912	tripartite motif-containing 8
SEC24D	0.532	FLJ43974; KIAA0755	NM_014822	SEC24 related gene family, member D (S. cerevisiae)
SERBP1	0.532	CGI-55; CHD3IP; HABP4L; PAIRBP1;	NM_001018	SERPINE1 mRNA binding protein 1
		FLJ90489; PAI-RBP1; DKFZp564M2423	068	
GEMIN	0.532	FLJ23459	NM_024775	gem (nuclear organelle) associated protein 6
6	0.522	W 42 M 1 M 2 M 1 M 1 M 1 M 1 M 1 M 1 M 1 M) II (0202mo	
MAN1C	0.532	HMIC; MAN1C; MAN1A3; pp6318	NM_020379	mannosidase, alpha, class 1C, member 1
ST7	0.532	HELG; RAY1; SEN4; TSG7; ETS7q; FAM4A1;	NM 018412	suppression of tumorigenicity 7
517	0.552	DKFZp762O2113	14WI_010412	suppression of tumorigementy /
TSPAN9	0.531	NET-5; PP1057	NM 006675	tetraspanin 9
ZSCAN	0.531	ZFP29; FLJ20595	NM 181877	zinc finger and SCAN domain containing 2
2				
LARP6	0.531	FLJ11196	NM_197958	La ribonucleoprotein domain family, member 6
C19ORF	0.531	BSMAP	NM_012109	chromosome 19 open reading frame 4
4				
SHC1	0.529	SHC; p66; SHCA; p52SHC; p66SHC; FLJ26504	NM_003029	SHC (Src homology 2 domain containing) transforming protein 1
RPP40	0.529	RNASEP1; bA428J1.3	NM_006638	ribonuclease P 40kDa subunit
IMPA2	0.529	CDK6	NM_014214	inositol(myo)-1(or 4)-monophosphatase 2
ZSCAN	0.528	ZFP29; FLJ20595	NM_001007	zinc finger and SCAN domain containing 2
2			072	
SLC16A	0.527	MCT9; C10orf36; FLJ43803	NM_194298	solute carrier family 16, member 9 (monocarboxylic acid
9	0.527	LUDD, MCC117351, MCC143193 MCG143131	NIM 022126	transporter 9)
LHPP	0.526	LHPP; MGC117251; MGC142189; MGC142191	NM_022126	phospholysine phosphohistidine inorganic pyrophosphate
C20ORF	0.526	FLJ43600; dJ310O13.5	NM 080625	phosphatase chromosome 20 open reading frame 160
160	0.520	1 L0-10000, W0 100 10.0	11111_000023	emomosome 20 open reading frame 100
CABLE	0.526	HsT2563; FLJ35924	NM 138375	Cdk5 and Abl enzyme substrate 1
S1	<u> </u>	<u> </u>		•
PYCAR	0.526	ASC; TMS1; CARD5; MGC10332	NM_145183	PYD and CARD domain containing
D				
CD82	0.526	R2; 4F9; C33; IA4; ST6; GR15; KAI1; SAR2;	NM_002231	CD82 molecule
TCEA1	ļ	TSPAN27	171 6 00 6 m 5 6	
	0.526	SII; TCEA; TF2S; GTF2S; TFIIS	NM_006756	transcription elongation factor A (SII), 1
PPP3CA	0.526 0.526	CALN; CCN1; CNA1; CALNA; PPP2B;	NM_006756 NM_000944	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha
PPP3CA	0.526	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1	NM_000944	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha)
		CALN; CCN1; CNA1; CALNA; PPP2B;		protein phosphatase 3 (formerly 2B), catalytic subunit, alpha
PPP3CA FLJ2067	0.526	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1	NM_000944	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha)
PPP3CA FLJ2067 4	0.526 0.525	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674	NM_000944 NM_019086	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4
PPP3CA FLJ2067 4 FZD9	0.526 0.525 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3	NM_000944 NM_019086 NM_003508	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency,
PPP3CA FLJ2067 4 FZD9 TCF4	0.526 0.525 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B	NM_000944 NM_019086 NM_003508 NM_003199	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum,
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5	0.526 0.525 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome))
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5	0.526 0.525 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5	0.526 0.525 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3	0.526 0.525 0.524 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_020244 NM_005789	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3 NAT5	0.526 0.525 0.524 0.524 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_020244 NM_005789 NM_181528	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) N-acetyltransferase 5
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3	0.526 0.525 0.524 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1 PIP1; MAK11; WDR84; hPIP1; FLJ20624;	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_020244 NM_005789	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki)
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3 NAT5	0.526 0.525 0.524 0.524 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_020244 NM_005789 NM_181528	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) N-acetyltransferase 5
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3 NAT5 PAK1IP 1	0.526 0.525 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1 PIP1; MAK11; WDR84; hPIP1; FLJ20624; bA421M1.5; RP11-421M1.5	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_0002244 NM_005789 NM_181528 NM_017906	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) N-acetyltransferase 5 PAK1 interacting protein 1
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3 NAT5 PAK1IP 1 TMEM1	0.526 0.525 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.524	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1 PIP1; MAK11; WDR84; hPIP1; FLJ20624; bA421M1.5; RP11-421M1.5	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_0002244 NM_005789 NM_181528 NM_017906	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) N-acetyltransferase 5 PAK1 interacting protein 1
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3 NAT5 PAK1IP 1 TMEM1 08 ANAPC	0.526 0.525 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.523 0.523	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1 PIP1; MAK11; WDR84; hPIP1; FLJ20624; bA421M1.5; RP11-421M1.5 MGC3040 APC1; MCPR; TSG24	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_020244 NM_005789 NM_181528 NM_017906 NM_023943 NM_022662	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) N-acetyltransferase 5 PAK1 interacting protein 1 transmembrane protein 108 anaphase promoting complex subunit 1
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3 NAT5 PAK1IP 1 TMEM1 08 ANAPC 1 SAR1B	0.526 0.525 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.523 0.523	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1 PIP1; MAK11; WDR84; hPIP1; FLJ20624; bA421M1.5; RP11-421M1.5 MGC3040 APC1; MCPR; TSG24 CMRD; GTBPB; SARA2	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_020244 NM_005789 NM_181528 NM_017906 NM_023943 NM_022662 NM_016103	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) N-acetyltransferase 5 PAK1 interacting protein 1 transmembrane protein 108 anaphase promoting complex subunit 1 SAR1 gene homolog B (S. cerevisiae)
PPP3CA FLJ2067 4 FZD9 TCF4 ERCC5 CHPT1 PSME3 NAT5 PAK1IP 1 TMEM1 08 ANAPC	0.526 0.525 0.524 0.524 0.524 0.524 0.524 0.524 0.524 0.523 0.523	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1 FLJ20674 FZD3 E2-2; ITF2; SEF2; SEF2-1; SEF2-1A; SEF2-1B XPG; UVDR; XPGC; ERCM2 CPT; CPT1 Ki; PA28G; REG-GAMMA; PA28-gamma ARD1; NAT3; dJ1002M8.1 PIP1; MAK11; WDR84; hPIP1; FLJ20624; bA421M1.5; RP11-421M1.5 MGC3040 APC1; MCPR; TSG24	NM_000944 NM_019086 NM_003508 NM_003199 NM_000123 NM_020244 NM_005789 NM_181528 NM_017906 NM_023943 NM_022662	protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha) hypothetical protein FLJ20674 frizzled homolog 9 (Drosophila) transcription factor 4 excision repair cross-complementing rodent repair deficiency, complementation group 5 (xeroderma pigmentosum, complementation group G (Cockayne syndrome)) choline phosphotransferase 1 proteasome (prosome, macropain) activator subunit 3 (PA28 gamma; Ki) N-acetyltransferase 5 PAK1 interacting protein 1 transmembrane protein 108 anaphase promoting complex subunit 1

AZPIN 0.52	PRIA S.25 PRIACKIN	PKIA	0.52	OAZLOAZDI ODGIL MGGGGI MGGGGG	NIN 6 01 50 70	
MANCAN COLD MANACA MANIE	MANCA MARCH MARC		0.52	OAZI; OAZIN; ODC1L; MGC691; MGC3832	NM_015878 NM_006823	antizyme inhibitor 1
CHACT C519	CHAC U.S.					
1796	No. 1976	1	0.52	MANA2; MANII	NM_002372	mannosidase, alpha, class 2A, member 1
TVV	No. 1976	CHAC2	0.510	LMDDD2	NIM 001000	ChaC action transport records to like 2 (F. coli)
STOCK STATE STAT	MoCS19 1518 MoCS1926 MoCS	CHAC2	0.519	LMBRD2		ChaC, cation transport regulator-like 2 (E. coll)
Moderate	Moderate	ETV6	0.519	TEI		ate variant cana 6 (TEL anaggana)
200	15/10					
ACPT 0.516	ACP 1.516		0.518	MGC33926	NM_152390	nypotneticai protein MGC33926
IJNG	LINBS 0.515 CRF84 CRF24, D21SS; D21S6; CDW2108; NM, 006120 major histocompathility complex, class II, DM alpha		0.516	TD AD, MCC117270	NIM 001611	
H. H. H. H. H. H. H. H.	March Marc			TRAP; MGC11/3/8		acid phosphatase 5, tartrate resistant
III. 1082	II.1.002					
HAA	H.A. 0.515	IL10RB	0.516		NM_000628	interleukin 10 receptor, beta
DMA	DAM					
EXPLISION 0.515	SAMIN S.15		0.515	DMA; HLADM; RING6; D6S222E	NM_006120	major histocompatibility complex, class II, DM alpha
SMTN	SMTN 0.515		ļ			
	Detail					
FIFLID 0.515	PHILDB 0.515 LLS, FLEJOHA T. JUNE 2608 (1909)					
New College	MoCC11831_DKEZgo8684199					
TRIP1	DRYCAPSSOC24210 NN 04217 OS94 OS97	PHLDB	0.515		NM_015157	pleckstrin homology-like domain, family B, member 1
CREPT 0.515	TRIPT 0.515	1				
CDC14B	OTRITI	L			L	
CDC14B	Control Cont					
EDCVL	EIOVL 0.514	QTRT1	0.514	TGT; FP3235	NM_031209	
ELOYL 0.514	ELOVE		ļ			
A	## STR/#EI3 year-like 4 **New 2014 **New					
RPF41	RPF41		0.514	ADMD; STGD2; STGD3	NM_022726	
MPP 0.513	MPF4					
Timp2	member 4 member 5 member 6 memb					
TIMP2	TIMPE	MPP4	0.513	DLG6; ALS2CR5	NM_033066	
AKRIA 0.511	AREAL O.511					
NHROS 0.511 MPP1; KRMP1; MPP-1; DKF2p434B0435; NM_016195 M-phase phosphoprotein 1 M-phase phosphoprotein 2 M-phase phosphoprotein 3 M-phase ph	MPHONCE 0.51					
MPHOS 0.511 MPP1; KRMP1; MPP1; DKIZp434B0455; NM_016195 M-phase phesphoprotein	MPPICAL MPPI KMPP1 MPP1 DKFZp434B0435; NM_016195 M-phase plosphoprotein DKTZp434P0810 DKTZp4344P0810 DKTZp4344P0810 DKTZp434P0810 DKTZp434P0810 DKTZ	AKR1A	0.511	ALR; ALDR1; MGC1380; MGC12529	NM_006066	aldo-keto reductase family 1, member A1 (aldehyde reductase)
PHI	Description	1				
PHI	PHI		0.511		NM_016195	M-phase phosphoprotein 1
RBPSU 0.51	REPSU 0.51 est. CBF1; RBF2; RBP3; RBP1K; IGKJRB; NM_025243 SIC19A O.51 SIC19A O.51 SIC19A O.51 SIC19A SIC19A O.51 O.51 SIC19A O.51 O.51 SIC19A O.51 O.51 SIC19A O.51 O.51 O.51 SIC19A O.51 O	PH1		DKFZp434P0810		
RBPSU	REPSU 0.51 est. CBF1; RBF2; RBP3; RBP1K; IGKJRB; NM_025243 SIC19A O.51 SIC19A O.51 SIC19A O.51 SIC19A SIC19A O.51 O.51 SIC19A O.51 O.51 SIC19A O.51 O.51 SIC19A O.51 O.51 O.51 SIC19A O.51 O		0.51	CP25; HOX3; HOX3C; HHO.C8		
SLC19A 0.51 SLC19A3	SLC19A 0.51 SLC19A3 SLC19A3 Solute carrier family 19, member 3	RBPSU	0.51	csl; CBF1; KBF2; RBP-J; RBPJK; IGKJRB;	NM 203284	recombining binding protein suppressor of hairless (Drosophila)
RBPSU 0.51	Second	Н			_	
RBPSU 0.51 est. CBF1; KBF2; RBPJ; RBPJK; RGKJRB; NM_203284 recombining binding protein suppressor of hairless (Drosophila)	September Sept	SLC19A	0.51	SLC19A3	NM 025243	solute carrier family 19, member 3
H	H	3			_	
H	H	RBPSU	0.51	csl: CBF1: KBF2: RBP-J: RBPJK: IGKJRB:	NM 203284	recombining binding protein suppressor of hairless (Drosophila)
MGC248 MGC2408 MGC24	MGC24 0.51 MGC2408 NM G02331 Nm					5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
OS	0.5 0.5	MGC24	0.51		NM 032331	hypothetical protein MGC2408
TXNDC 0.508	TXNDC 0.508					
TXNDC 0.508	TXNDC 0.508	GMNN	0.509	Gem: RP3-369A17 3	NM 015895	geminin DNA replication inhibitor
PSRCI 0.508	PSRCI 0.508					
CMTM7 0.507 CKLFSF7; FLJ30992 NM 138410 CKLF-like MARVEL transmembrane domain containing 7	290					
CMTIM7 0.507	CMTM7 0.507	I Sitte I	0.500	5515,113211, MGC1700, Id 11 2770 1.2		promision non-coned con 1
UNG 0.507 DGU; UDG; UNG1; HIGM4; UNG15; NM_080911 uracil-DNA glycosylase	NM_080911	CMTM7	0.507	CKLESE7: FLI30992		CKLF-like MARVEL transmembrane domain containing 7
NR DKFZ/PRILI143	DKF2/P8ILI143					
KIFAC 0.506	KIP2C 0.507	0110	0.507		14141_0005111	unden Divit grycosynasc
KIAA05 Color Col	NM_014802 NM_014802 KIAA0528	KIF2C	0.507		NM 006845	kinesin family member 2C
RSU1	RSUI					
RSUI	RSUI 0.506 RSP-1; FLI31034 NM 152724 Ras suppressor protein 1		0.500	DKI 2017	1414_014002	Kii (10520
SKP2	SKP2		0.506	PSP-1- EL 131034	NM 152724	Pac cumpracear protein 1
IVD	VID 0.505					
FAM113	BA BA BA BA BA BA BA BA					
METRN 0.505 MGC99788 NM_001004 meteorin, glial cell differentiation regulator-like 431	METRN 0.505					
METRN	MGC99788		0.303	MGC16044	NWI_1363/1	family with sequence similarity 115, member B
L	Lange	D	0.505		313.4.001.004	
PLA2G4	PLA2G4	METDM	0.505	MCC00799		
CENTB 0.505 ACAPI; KIAA0050 NM_014716 centaurin, beta	CENTB 0.505			MGC99788		meteorii, gilai een arretentation regalator inte
CENTB	CENTB	L	0.505		431	
RBPMS 0.504 HERMES	RBPMS	L PLA2G4	0.505		431	
NDE1 0.504	NDE1	L PLA2G4 C		CPLA2-gamma; DKFZp586C0423	431 NM_003706	phospholipase A2, group IVC (cytosolic, calcium-independent)
NDE1 0.504	NDE1	L PLA2G4 C		CPLA2-gamma; DKFZp586C0423	431 NM_003706	phospholipase A2, group IVC (cytosolic, calcium-independent)
NDE1 0.504	NDE1	L PLA2G4 C CENTB	0.505	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050	431 NM_003706 NM_014716	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1
LIAS 0.503	LIAS 0.503	L PLA2G4 C CENTB	0.505	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050	431 NM_003706 NM_014716 NM_001008	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1
PRIMI 0.503	PRIMI 0.503	L PLA2G4 C CENTB 1 RBPMS	0.505	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES	431 NM_003706 NM_014716 NM_0101008 712	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing
RPL29	RPL29	L PLA2G4 C CENTB 1 RBPMS	0.505 0.504 0.504	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87	431 NM_003706 NM_014716 NM_01008 712 NM_017668	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans)
KPNA2 0.502 QIP2; RCH1; IPOA1; SRP1alpha NM_002266 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) SCG2 0.502 SN; CHGC; SgII NM_003469 secretogranin II (chromogranin C) DCC1 0.502 DC1; MGC5528 NM_024094 defective in sister chromatid cohesion homolog 1 (S. cerevisiae) GOLPH 0.502 GP73; PSEC0257 NM_016548 golgi phosphoprotein 2 2 RPUSD3 0.502 FLJ34707; MGC29784 NM_0173659 RNA pseudouridylate synthase domain containing 3 TFB2M 0.501 Hkp1; FLJ22661; FLJ23182 NM_022366 transcription factor B2, mitochondrial CENPH 0.501 C12orf52 NM_0022909 centromere protein H EIF2S2 0.5 EIF2; EIF2B; MGC8508; EIF2beta; NM_003908 eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa SLCO4 0.5 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; NM_016354 solute carrier organic anion transporter family, member 4A1 A1 SLC21A12 NM_000504 cD55 molecule, decay accelerating factor for complement (Cromer blood group) CD55 0.499 CR; TC; DAF NM_000	KPNA2 0.502 QIP2; RCH1; IPOA1; SRP1alpha NM_002266 karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS	0.505 0.504 0.504 0.503	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245	431 NM_003706 NM_014716 NM_0101008 712 NM_017668 NM_006859	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase
SCG2 0.502 SN; CHGC; SgII NM_003469 secretogranin II (chromogranin C)	SCG2 0.502 SN; CHGC; SgII NM 003469 secretogranin II (chromogranin C)	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1	0.505 0.504 0.504 0.503 0.503	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308	MM_003706 NM_014716 NM_01008 712 NM_017668 NM_006859 NM_000946	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa
DCC1 0.502 DCC1; MGC5528 NM 024094 defective in sister chromatid cohesion homolog 1 (S. cerevisiae)	DCC1 0.502 DCC1; MGC5528 NM 024094 defective in sister chromatid cohesion homolog 1 (S. cerevisiae)	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29	0.505 0.504 0.504 0.503 0.503 0.503	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589	431 NM_003706 NM_014716 NM_01008 712 NM_017668 NM_006859 NM_000946 NM_000992	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29
GOLPH 0.502 GP73; PSEC0257 NM_016548 golgi phosphoprotein 2	GOLPH 0.502 GP73; PSEC0257 NM_016548 golgi phosphoprotein 2	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2	0.505 0.504 0.504 0.503 0.503 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha	431 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_006859 NM_000946 NM_000992 NM_002266	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1)
RPUSD3 0.502 FLJ34707; MGC29784 NM_173659 RNA pseudouridylate synthase domain containing 3 TFB2M 0.501 Hkp1; FLJ22661; FLJ23182 NM_022366 transcription factor B2, mitochondrial CENPH 0.501 C12orf52 NM_022909 centromere protein H EIF2S2 0.5 EIF2; EIF2B; MGC8508; EIF2beta; NM_003908 eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa DKFZp686L18198 SLC04 0.5 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; NM_016354 solute carrier organic anion transporter family, member 4A1 SLC21A12 RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	RPUSD3 0.502 FLJ34707; MGC29784 NM_02366 NM_02366 transcription factor B2, mitochondrial	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL9; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII	431 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_006859 NM_000946 NM_000992 NM_002266 NM_003469	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C)
RPUSD3 0.502 FLJ34707; MGC29784 NM_173659 RNA pseudouridylate synthase domain containing 3 TFB2M 0.501 Hkpl; FLJ22661; FLJ23182 NM_022366 transcription factor B2, mitochondrial CENPH 0.501 C12orf52 NM_022909 centromere protein H EIF252 0.5 EIF2; EIF2B; MGC8508; EIF2beta; NM_003908 eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa SLC04 0.5 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; NM_016354 solute carrier organic anion transporter family, member 4A1 RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; DKFZp686F2182 NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	RPUSD3 0.502 FLJ34707; MGC29784 NM_173659 RNA pseudouridylate synthase domain containing 3	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528	A31 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_00859 NM_009946 NM_00296 NM_002409 NM_024094	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae)
TFB2M 0.501 Hkp1; FLJ22661; FLJ23182 NM_022366 transcription factor B2, mitochondrial CENPH 0.501 C12orf52 NM_022909 centromere protein H EIF2S2 0.5 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 SLC04 0.5 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; NM_016354 solute carrier organic anion transporter family, member 4A1 SLC21A12 NM_003908 eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa NM_016354 solute carrier organic anion transporter family, member 4A1 SLC21A12 NM_016354 Solute carrier organic anion transporter family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDE1/B; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	TFB2M 0.501	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528	A31 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_00859 NM_009946 NM_00296 NM_002409 NM_024094	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae)
CENPH 0.501 C12orf52 NM_022909 centromere protein H	CENPH 0.501 C12orf52 NM_022909 centromere protein H	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257	A31 NM_003706 NM_014716 NM_0114716 NM_011008 712 NM_017668 NM_006859 NM_00992 NM_002266 NM_003469 NM_003469 NM_024094 NM_016548	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2
EIF2S2 0.5 EIF2; EIF2B; MGC8508; EIF2beta; NM_003908 eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa DKFZp686L18198 SLC04 0.5 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; NM_016354 solute carrier organic anion transporter family, member 4A1 SLC21A12 RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	EIF2S2	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784	A31 NM_003706 NM_014716 NM_01108 712 NM_017668 NM_006859 NM_009946 NM_002266 NM_0024094 NM_016548 NM_173659	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3
EIF2S2 0.5 EIF2; EIF2B; MGC8508; EIF2beta; NM_003908 eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa DKFZp686L18198 SLC04 0.5 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; NM_016354 solute carrier organic anion transporter family, member 4A1 SLC21A12 RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	EIF2S2	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182	431 NM_003706 NM_014716 NM_014716 NM_01008 712 NM_017668 NM_009859 NM_00992 NM_002266 NM_003469 NM_024094 NM_016548 NM_173659 NM_022366	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial
SLC04 0.5 POAT; OATP1; OATP4A1; OATPRP1; NM_016354 solute carrier organic anion transporter family, member 4A1 SLC21A12 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	DKFZp686L18198	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orf52	431 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_000992 NM_000992 NM_002266 NM_003469 NM_016548 NM_173659 NM_022366 NM_022366 NM_022909	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H
Al SLC21A12 RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; DKFZp686F2182 COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	A1	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.502 0.502 0.502	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rf52 EIF2; EIF2B; MGC8508; EIF2beta;	431 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_000992 NM_000992 NM_002266 NM_003469 NM_016548 NM_173659 NM_022366 NM_022366 NM_022909	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H
A1 SLC21A12 RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; DKFZp686F2182 COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	A1	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGCS528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orfS2 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198	MM_003706 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_00992 NM_00296 NM_00296 NM_024094 NM_016548 NM_016548 NM_022909 NM_003908 NM_003908 NM_003908 NM_003908 NM_003908 NM_003706 NM_003908 NM_003706 NM_003708 NM_003706 NM_0003706	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H
RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	RHOQ 0.5 ARHQ; TC10; TC10A; RASL7A NM_012249 ras homolog gene family, member Q CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; DKFZp686F2182 NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) TYSND 0.498 MGC34695; MGC131934 NM_173555 trypsin domain containing 1 C200RF 0.498 FLJ14597; bA504H3.4 NM_052865 chromosome 20 open reading frame 72 LYPLAI 0.498 LPL1; APT-1; LYSOPLA NM_06330 lysophospholipase I	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGCS528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orfS2 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198	MM_003706 NM_003706 NM_014716 NM_001008 712 NM_017668 NM_00992 NM_00296 NM_00296 NM_024094 NM_016548 NM_016548 NM_022909 NM_003908 NM_003908 NM_003908 NM_003908 NM_003908 NM_003706 NM_003908 NM_003706 NM_003708 NM_003706 NM_0003706	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa
CD55 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group) PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	DPDE4B 0.499 CR; TC; DAF NM_000574 CD55 molecule, decay accelerating factor for complement (Cromer blood group)	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12	A31 NM_003706 NM_014716 NM_011008 712 NM_017668 NM_006859 NM_00992 NM_00246 NM_003469 NM_024094 NM_016548 NM_173659 NM_022366 NM_022366 NM_022366 NM_022366 NM_02306	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1
PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	PDE4B 0.499 DPDE4; PDEIVB; MGC126529; DKFZp686F2182 NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila)	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12	A31 NM_003706 NM_014716 NM_011008 712 NM_017668 NM_006859 NM_00992 NM_00246 NM_003469 NM_024094 NM_016548 NM_173659 NM_022366 NM_022366 NM_022366 NM_022366 NM_02306	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1
PDE4B 0.499 DPDE4; PDEIVB; MGC126529; NM_002600 phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	PDE4B 0.499	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rfS2 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A	A31 NM_003706 NM_014716 NM_0114716 NM_01108 712 NM_017668 NM_00994 NM_00992 NM_002266 NM_024094 NM_016548 NM_173659 NM_022366 NM_022909 NM_003908 NM_016354 NM_016354	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q
DKFZp686F2182 dunce homolog, Drosophila) COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	DKFZp686F2182	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rfS2 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A	A31 NM_003706 NM_014716 NM_0114716 NM_01108 712 NM_017668 NM_00994 NM_00992 NM_002266 NM_024094 NM_016548 NM_173659 NM_022366 NM_022909 NM_003908 NM_016354 NM_016354	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement
COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)	COPS7A 0.499 MGC110877 NM_016319 COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) TYSND 0.498 MGC34695; MGC131934 NM_173555 trypsin domain containing 1 C200RF 0.498 FLJ14597; bA504H3.4 NM_052865 chromosome 20 open reading frame 72 72 LYPLA1 0.498 LPL1; APT-1; LYSOPLA NM_006330 lysophospholipase I	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5 0.5 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF	431 NM_003706 NM_014716 NM_0114716 NM_01108 712 NM_017668 NM_00859 NM_000992 NM_002266 NM_003469 NM_016548 NM_016548 NM_022366 NM_022909 NM_003908 NM_016354 NM_016354	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group)
(Arabidopsis)	Carabidopsis Cara	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5 0.5 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529;	431 NM_003706 NM_014716 NM_0114716 NM_01108 712 NM_017668 NM_00859 NM_000992 NM_002266 NM_003469 NM_016548 NM_016548 NM_022366 NM_022909 NM_003908 NM_016354 NM_016354	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4
	TYSND 1 0.498 MGC34695; MGC131934 NM_173555 trypsin domain containing 1 C200RF 2 0.498 FLJ14597; bA504H3.4 NM_052865 chromosome 20 open reading frame 72 LYPLAI 0.498 LPLI; APT-1; LYSOPLA NM_06330 lysophospholipase I	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5 0.5 0.5 0.5 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182	431 NM_003706 NM_014716 NM_014716 NM_01008 712 NM_017668 NM_00992 NM_00290 NM_003469 NM_02266 NM_022366 NM_022909 NM_003908 NM_016354 NM_012249 NM_012249 NM_000574	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila)
and the state of t	C20ORF	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.502 0.501 0.501 0.5 0.5 0.5 0.5 0.5	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12orf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182	431 NM_003706 NM_014716 NM_014716 NM_01008 712 NM_017668 NM_00992 NM_00290 NM_003469 NM_02266 NM_022366 NM_022909 NM_003908 NM_016354 NM_012249 NM_012249 NM_000574	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A
	72	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B COPS7A	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.5 0.5 0.5 0.5 0.499 0.499	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12c1f52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182 MGC110877	431 NM_003706 NM_014716 NM_0114716 NM_011008 712 NM_017668 NM_00859 NM_002902 NM_002266 NM_024094 NM_016548 NM_173659 NM_022366 NM_022909 NM_003908 NM_016354 NM_016354 NM_016354 NM_016354 NM_016319	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)
COORE 0.400 FI 114507, 1-450412.4 NR4 052055 1 20 15 0 70	72	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B COPS7A	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.5 0.5 0.5 0.5 0.499 0.499	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C12c1f52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182 MGC110877	431 NM_003706 NM_014716 NM_0114716 NM_011008 712 NM_017668 NM_00859 NM_002902 NM_002266 NM_024094 NM_016548 NM_173659 NM_022366 NM_022909 NM_003908 NM_016354 NM_016354 NM_016354 NM_016354 NM_016319	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis)
I CZUUKF U.498 FLJ14597: DA5U4H3.4 I NM 052865 I chromosome 70 onen reading trame 72	LYPLA1 0.498 LPL1; APT-1; LYSOPLA NM_006330 lysophospholipase I	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIMI RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B COPS7A	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.5 0.5 0.5 0.499 0.499 0.498	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182 MGC110877 MGC34695; MGC131934	431 NM_003706 NM_014716 NM_014716 NM_011008 712 NM_017668 NM_00992 NM_00290 NM_02266 NM_024094 NM_016548 NM_023909 NM_023908 NM_016354 NM_016354 NM_016354 NM_000574 NM_002600 NM_016319	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) trypsin domain containing 1
		L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B COPS7A TYSND 1 C200RF	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.5 0.5 0.5 0.499 0.499 0.498	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182 MGC110877 MGC34695; MGC131934	431 NM_003706 NM_014716 NM_014716 NM_011008 712 NM_017668 NM_00992 NM_00290 NM_02266 NM_024094 NM_016548 NM_023909 NM_023908 NM_016354 NM_016354 NM_016354 NM_000574 NM_002600 NM_016319	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) trypsin domain containing 1
72		L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B COPS7A TYSND 1 C200RF 72	0.505 0.504 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.501 0.5 0.5 0.5 0.5 0.5 0.499 0.499 0.498	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGCS528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rfS2 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182 MGC110877 MGC34695; MGC131934 FLJ14597; bA504H3.4	431 NM_003706 NM_014716 NM_014716 NM_011008 712 NM_017668 NM_00992 NM_002909 NM_02266 NM_024094 NM_02366 NM_022909 NM_003908 NM_016354 NM_012249 NM_016354 NM_012491 NM_016354 NM_016354 NM_0125865	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) trypsin domain containing 1 chromosome 20 open reading frame 72
C20OKF 0.498 FLJ14597; DA504H3.4 NM_052865 chromosome 20 open reading frame 72		L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIMI RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B COPS7A	0.505 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.502 0.501 0.5 0.5 0.5 0.499 0.499 0.498	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGC5528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rf52 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182 MGC110877 MGC34695; MGC131934	431 NM_003706 NM_014716 NM_014716 NM_011008 712 NM_017668 NM_00992 NM_00290 NM_02266 NM_024094 NM_016548 NM_023909 NM_023908 NM_016354 NM_016354 NM_016354 NM_000574 NM_002600 NM_016319	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) trypsin domain containing 1
72	1.11/4 1.11/48 1.1.11/4A 1.11/4A 1.11/4A 1.11/4A 1.11/4A 1.11/4A 1.11/4A 1.11/4A 1.11/	L PLA2G4 C CENTB 1 RBPMS NDE1 LIAS PRIM1 RPL29 KPNA2 SCG2 DCC1 GOLPH 2 RPUSD3 TFB2M CENPH EIF2S2 SLCO4 A1 RHOQ CD55 PDE4B COPS7A TYSND 1 C200RF 72	0.505 0.504 0.504 0.504 0.503 0.503 0.502 0.502 0.502 0.502 0.501 0.5 0.5 0.5 0.5 0.5 0.499 0.499 0.498	CPLA2-gamma; DKFZp586C0423 ACAP1; KIAA0050 HERMES NUDE; NUDE1; FLJ20101; HOM-TES-87 LAS; LIP1; HUSSY-01; MGC23245 p49; MGC12308 HIP; HUMRPL29; MGC88589 QIP2; RCH1; IPOA1; SRP1alpha SN; CHGC; SgII DCC1; MGCS528 GP73; PSEC0257 FLJ34707; MGC29784 Hkp1; FLJ22661; FLJ23182 C120rfS2 EIF2; EIF2B; MGC8508; EIF2beta; DKFZp686L18198 POAT; OATP1; OATP-E; OATP4A1; OATPRP1; SLC21A12 ARHQ; TC10; TC10A; RASL7A CR; TC; DAF DPDE4; PDEIVB; MGC126529; DKFZp686F2182 MGC110877 MGC34695; MGC131934 FLJ14597; bA504H3.4	431 NM_003706 NM_014716 NM_014716 NM_011008 712 NM_017668 NM_00992 NM_002909 NM_02266 NM_024094 NM_02366 NM_022909 NM_003908 NM_016354 NM_012249 NM_016354 NM_012491 NM_016354 NM_016354 NM_0125865	phospholipase A2, group IVC (cytosolic, calcium-independent) centaurin, beta 1 RNA binding protein with multiple splicing nudE nuclear distribution gene E homolog 1 (A. nidulans) lipoic acid synthetase primase, polypeptide 1, 49kDa ribosomal protein L29 karyopherin alpha 2 (RAG cohort 1, importin alpha 1) secretogranin II (chromogranin C) defective in sister chromatid cohesion homolog 1 (S. cerevisiae) golgi phosphoprotein 2 RNA pseudouridylate synthase domain containing 3 transcription factor B2, mitochondrial centromere protein H eukaryotic translation initiation factor 2, subunit 2 beta, 38kDa solute carrier organic anion transporter family, member 4A1 ras homolog gene family, member Q CD55 molecule, decay accelerating factor for complement (Cromer blood group) phosphodiesterase 4B, cAMP-specific (phosphodiesterase E4 dunce homolog, Drosophila) COP9 constitutive photomorphogenic homolog subunit 7A (Arabidopsis) trypsin domain containing 1 chromosome 20 open reading frame 72

TMEM3	0.498	CDC50B; MGC126775	NM_001017	transmembrane protein 30B
0B	0.400	TAR DEDG TARES	970	
LAP3 PHYH2	0.498	LAP; PEPS; LAPEP HPCL; HPCL2; PHYH2; 2-HPCL	NM_015907	leucine aminopeptidase 3
PHYH2 PAPSS2	0.498 0.497	SK2; ATPSK2	NM_012260 NM_001015	2-hydroxyacyl-CoA lyase 1 3'-phosphoadenosine 5'-phosphosulfate synthase 2
PAP332	0.497	SKZ, ATPSKZ	880	3 -phosphoadenostne 3 -phosphosurfate synthase 2
CUL1	0.497	CDK6	NM 003592	cullin 1
PHF17	0.497	JADE1; FLJ22479; KIAA1807	NM 024900	PHD finger protein 17
KCNG3	0.496	KV6.3; KV10.1	NM_172344	potassium voltage-gated channel, subfamily G, member 3
SNCA	0.496	PD1; NACP; PARK1; PARK4; MGC110988	NM_007308	synuclein, alpha (non A4 component of amyloid precursor)
KLHL3	0.496	KIAA1129; MGC44594	NM_017415	kelch-like 3 (Drosophila)
AKNA	0.496	KIAA1968; RP11-82I1.4	NM_030767	AT-hook transcription factor
SRI	0.496	SCN; FLJ26259	NM_003130	sorcin
PACSIN 1	0.494	SDPI; KIAA1379	NM_020804	protein kinase C and casein kinase substrate in neurons 1
NFKB1	0.494	KBF1; EBP-1; MGC54151; NFKB-p50; NFKB-	NM 003998	nuclear factor of kappa light polypeptide gene enhancer in B-cells
- 1.2	****	p105; NF-kappa-B; DKFZp686C01211		1 (p105)
GMDS	0.493	GMD	NM_001500	GDP-mannose 4,6-dehydratase
LOC571	0.492	A211C6.1	NM_020424	LYR motif containing 1
49	0.402	any a nymen any ay	377.64044.6	
CBLC LTBP3	0.492 0.492	CBL-3; RNF57; CBL-SL	NM_012116	Cas-Br-M (murine) ecotropic retroviral transforming sequence c
LIBP3	0.492	LTBP2; LTBP-3; pp6425; FLJ33431; FLJ39893; DKFZP586M2123	NM_021070	latent transforming growth factor beta binding protein 3
PIAS2	0.492	miz; MIZ1; SIZ2; MGC102682; PIASX-BETA;	NM 173206	protein inhibitor of activated STAT, 2
11102	0.172	PIASX-ALPHA	1111_173200	protein immonor of deditated 51111, 2
LEPREL	0.49	GRCB; P3H3; HSU47926	NM_014262	leprecan-like 2
2				
SPRYD3	0.49	FLJ14800	NM_032840	SPRY domain containing 3
RASIP1	0.49	RAIN; FLJ20401	NM_017805	Ras interacting protein 1
MTHFD 1	0.49	MTHFC; MTHFD	NM_005956	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 1, methenyltetrahydrofolate cyclohydrolase, formyltetrahydrofolate
1	1			synthetase
LOC139	0.49	LOC139886; MGC133224	NM_001012	hypothetical protein LOC139886
886			968	7
C9ORF1	0.489	C9orf10; DNAPTP1; DNAPTP5; MGC111527;	NM_014612	family with sequence similarity 120A
0		MGC133257		
HSPA4L	0.489	APG-1; Osp94	NM_014278 NM_001006	heat shock 70kDa protein 4-like
ALG3	0.489		NM_001006 940	
ALDH9	0.488	E3; ALDH4; ALDH7; ALDH9; TMABADH	NM 000696	aldehyde dehydrogenase 9 family, member A1
A1	0.400	ES, REBIT, REBIT, REBIT, TWINDING	1414_000000	aldenyde denydrogenase 7 family, memoer 141
RGMB	0.488	DRAGON; FLJ90406; MGC86970	NM_001012	RGM domain family, member B
			761	·
CYTL1	0.488	C17	NM_018659	cytokine-like 1
EPDR1	0.487	UCC1; MERP1; MERP-1	NM_017549	ependymin related protein 1 (zebrafish)
MCM7	0.487	MCM2; CDC47; P85MCM; P1CDC47; PNAS- 146; CDABP0042; P1.1-MCM3	NM_182776	MCM7 minichromosome maintenance deficient 7 (S. cerevisiae)
FLJ2541	0.487	FLJ25416; FLJ13936	NM 145018	hypothetical protein FLJ25416
6		, , , , , , , , , , , , , , , , , , , ,		5F F
TM7SF3	0.486	TM7SF3	NM_016551	transmembrane 7 superfamily member 3
STXBP6	0.486	amisyn; HSPC156; FLJ39638	NM_014178	syntaxin binding protein 6 (amisyn)
MGC45	0.485	MGC45840; MGC88858	NM_173584	EF-hand calcium binding domain 4A
HSPC11	0.485	HSPC111; HSPC185	NM 016391	hypothetical protein HSPC111
1	0.463	nsrc111, nsrc183	NWI_010391	nypotneticai protein HSPC111
UST	0.485	2OST	NM 005715	uronyl-2-sulfotransferase
EBNA1	0.484	P40; EBP2; NOBP	NM_006824	EBNA1 binding protein 2
BP2				
WDR12	0.484	YTM1; FLJ10881; FLJ12719; FLJ12720	NM_018256	WD repeat domain 12
PCDH18	0.483	PCDH68L; KIAA1562; DKFZP434B0923	NM_019035	protocadherin 18
NCLN EDNRB	0.483 0.483	SCARB1	NM_020170 NM_003991	nicalin homolog (zebrafish)
VKORC	0.483	ETB; ETRB; HSCR; ABCDS; HSCR2 VKOR; MST134; MST576; VKCFD2; EDTP308;	NM 024006	endothelin receptor type B vitamin K epoxide reductase complex, subunit 1
1	0.702	MGC2694; FLJ00289; IMAGE3455200	1111_024000	Tamini is oponiae readetase complex, subunit i
MGST1	0.482	MGST; GST12; MGST-I; MGC14525	NM_020300	microsomal glutathione S-transferase 1
C1GAL	0.481	COSMC; C1GALT2; HSPC067; C1Gal-T2;	NM_001011	C1GALT1-specific chaperone 1
T1C1	L	MGC19947; c38h2-l1	551	
SSPN	0.481	KRAG; SPN1; SPN2	NM_005086	sarcospan (Kras oncogene-associated gene)
SDHA SERPIN	0.481 0.481	FP; SDH2; SDHF PI8; CAP2	NM_004168 NM_001031	succinate dehydrogenase complex, subunit A, flavoprotein (Fp) serpin peptidase inhibitor, clade B (ovalbumin), member 8
B8	0.401	110, CA12	848	scipiii popudase minorior, ciade 13 (ovarodinini), member 8
NLN	0.48	AGTBP; KIAA1226; DKFZp564F123	NM_020726	neurolysin (metallopeptidase M3 family)
SORBS1	0.479	CAP; FLAF2; R85FL; SH3D5; SORB1; SH3P12;	NM_015385	sorbin and SH3 domain containing 1
		FLJ12406; KIAA1296; DKFZp451C066;	_	_
	0.455	DKFZp586P1422	122.5	B (01.40) 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1
ARHGE	0.479	PIXA; COOL2; MRX46; Cool-2; KIAA0006;	NM_004840	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6
F6 CHAF1	0.477	alphaPIX; alpha-PIX CAF1; P150; CAF-1; CAF1B; CAF1P150;	NM 005483	chromatin assembly factor 1, subunit A (p150)
A	0.7//	MGC71229	1111_003403	c
EIF4E3	0.476	MGC39820; MGC86971	NM_173359	eukaryotic translation initiation factor 4E member 3
HMMR	0.476	CD168; IHABP; RHAMM; MGC119494;	NM_012485	hyaluronan-mediated motility receptor (RHAMM)
L	<u> </u>	MGC119495	1	
KIAA19	0.476	XB130; FLJ14564	NM_001001	KIAA1914
EXOSC	0.476	n12D: DDD46: DDD41D: Dam46m: kDam46m:	936 NM 020158	avacama aamnanant 5
5	0.476	p12B; RRP46; RRP41B; Rrp46p; hRrp46p; MGC12901; MGC111224	NM_020158	exosome component 5
UGT3A	0.476	MGC119426; MGC119429	NM 174914	UDP glycosyltransferase 3 family, polypeptide A2
2	L			5 5 5
CDR2	0.475	Yo; CDR62	NM_001802	cerebellar degeneration-related protein 2, 62kDa
DYNLT	0.475	RP3; TCTE1L; TCTEX1L	NM_006520	dynein, light chain, Tctex-type 3
3 A D1C1	0.477	ADIO, CLADGI, CICALLI	NIM OFFICE	-destant advantage of the second seco
APIS1 MGST1	0.474 0.474	AP19; CLAPS1; SIGMA1A	NM_057089 NM_020300	adaptor-related protein complex 1, sigma 1 subunit microsomal glutathione S-transferase 1
MGST1 TNNC2	0.474	MGST; GST12; MGST-I; MGC14525 TNNC2	NM_020300 NM_003279	troponin C type 2 (fast)
BID	0.473	MGC15319; MGC42355	NM 001196	BH3 interacting domain death agonist
THYN1	0.473	MY105; THY28; MDS012; HSPC144;	NM 199298	thymocyte nuclear protein 1

		THY28KD; MGC12187		
TPST2	0.473	TPST2	NM_001008	tyrosylprotein sulfotransferase 2
PBK	0.471	SPK; TOPK; Nori-3; FLJ14385	566 NM 018492	DDZ bir fire birees
GAJ	0.471	GAJ	NM 032117	PDZ binding kinase meiotic nuclear divisions 1 homolog (S. cerevisiae)
GRAMD	0.47	NS3TP2; FLJ21313	NM_023927	GRAM domain containing 3
3				
IRS1 RASL11	0.47 0.47	HIRS-1 MGC2827; MGC4499	NM_005544 NM_023940	insulin receptor substrate 1 RAS-like, family 11, member B
B	0.47	MGC2827, MGC4499	NM_023940	RAS-like, family 11, member B
TYK2	0.469	JTK1	NM_003331	tyrosine kinase 2
HEXB	0.469	ENC-1AS	NM_000521	hexosaminidase B (beta polypeptide)
SRPK1	0.469	SFRSK1	NM_003137	SFRS protein kinase 1
TEAD4	0.468	RTEF1; TEF-3; EFTR-2; RTEF-1; TEFR-1; MGC9014; TCF13L1; hRTEF-1B	NM_201441	TEA domain family member 4
HSD17B	0.468	KE6; FABG; HKE6; FABGL; RING2; H2-KE6;	NM_014234	hydroxysteroid (17-beta) dehydrogenase 8
SLC6A1 5	0.467	D6S2245E; dJ1033B10.9 V7-3; NTT73; hv7-3; FLJ10316; MGC87066; DKFZp76110921	NM_182767	solute carrier family 6, member 15
GMPS	0.467	CFB	NM 003875	guanine monphosphate synthetase
ZNF483	0.466	ZNF483	NM_001007	zinc finger protein 483
			169	
PSAT1	0.465	PSA; MGC1460	NM_021154	phosphoserine aminotransferase 1
ST7	0.465	HELG; RAY1; SEN4; TSG7; ETS7q; FAM4A1; DKFZp762O2113	NM_018412	suppression of tumorigenicity 7
BXDC1	0.465	RPF2; FLJ21087; bA397G5.4	NM_032194	brix domain containing 1
ALDH4	0.465	P5CD; ALDH4; P5CDh; P5CDhL; P5CDhS	NM_170726	aldehyde dehydrogenase 4 family, member A1
A1 MCM7	0.464	MCM2; CDC47; P85MCM; P1CDC47; PNAS-	NIM 005016	MCM7
	0.464	146; CDABP0042; P1.1-MCM3	NM_005916	MCM7 minichromosome maintenance deficient 7 (S. cerevisiae)
FRAT2	0.464	MGC10562	NM_012083	frequently rearranged in advanced T-cell lymphomas 2
INPP5D	0.464	SHIP; SHIP1; hp51CN; SIP-145; MGC104855; MGC142140; MGC142142	NM_001017 915	inositol polyphosphate-5-phosphatase, 145kDa
ACYP1	0.464	ACYPE	NM 203488	acylphosphatase 1, erythrocyte (common) type
KATNA	0.462	MGC33211; DKFZP667C165	NM_031303	katanin p60 subunit A-like 2
L2				
PARP9	0.462	BAL; BAL1; FLJ26637; MGC:7868; DKFZp666B0810; DKFZp686M15238	NM_031458	poly (ADP-ribose) polymerase family, member 9
XPC	0.461	XP3; XPCC	NM 004628	xeroderma pigmentosum, complementation group C
CXORF	0.461	ITBA1; DXS9878E	NM_003492	chromosome X open reading frame 12
12				
MCCC2	0.461	MCCB	NM_022132	methylcrotonoyl-Coenzyme A carboxylase 2 (beta)
DKK3 STRBP	0.461 0.46	REIC SPNR; MGC3405; FLJ11307; FLJ14223;	NM_013253 NM_018387	dickkopf homolog 3 (Xenopus laevis) spermatid perinuclear RNA binding protein
SIKBI	0.40	FLJ14984; MGC21529; DKFZp434N214	NWI_018387	spermatid permuciear KNA binding protein
LMO4	0.46	LMO4	NM 006769	LIM domain only 4
MFSD1	0.459	FLJ14153; UG0581B09	NM_022736	major facilitator superfamily domain containing 1
NME1	0.457	AWD; GAAD; NM23; NDPKA; NM23-H1	NM_198175	non-metastatic cells 1, protein (NM23A) expressed in
ABLIM1	0.457	ABLIM; LIMAB1; LIMATIN; MGC1224; FLJ14564; KIAA0059; DKFZp781D0148	NM_006720	actin binding LIM protein 1
PHB	0.457	PHB	NM 002634	prohibitin
POLE2	0.456	DPE2	NM_002692	polymerase (DNA directed), epsilon 2 (p59 subunit)
SATB2	0.456	FLJ21474; FLJ32076; KIAA1034; MGC119474;	NM_015265	SATB family member 2
EPB41L	0.455	MGC119477 CG1; EHM2; FLJ21596; DKFZp761N1814	NM_018424	erythrocyte membrane protein band 4.1 like 4B
PARP1	0.454	PARP; PPOL; ADPRT; ADPRT1; PARP-1;	NM_001618	poly (ADP-ribose) polymerase family, member 1
TRAF3I	0.453	pADPRT-1 ACT1; CIKS; C6orf4; C6orf5; C6orf6; MGC3581;	NM_147200	TRAF3 interacting protein 2
P2 DAZAP	0.452	DKFZP586G0522 MGC19907	NM_018959	DAZ associated protein 1
1				•
TMEM5	0.452	HP10481	NM_014254	transmembrane protein 5
CD74	0.452	DHLAG; HLADG; Ia-GAMMA; protein 41	NM_001025 158	CD74 molecule, major histocompatibility complex, class II invariant chain
CSRP2	0.451	CRP2; LMO5; SmLIM	NM 001321	cysteine and glycine-rich protein 2
GPR160	0.449	GPCR1; GPCR150	NM_014373	G protein-coupled receptor 160
TRAP1	0.449	HSP75; HSP90L	NM_016292	TNF receptor-associated protein 1
NPFFR2	0.447	GPR74; NPFF2; NPGPR	NM_053036	neuropeptide FF receptor 2
ACAT1	0.447	T2; MAT; ACAT; THIL	NM_000019	acetyl-Coenzyme A acetyltransferase 1 (acetoacetyl Coenzyme A thiolase)
TXNDC	0.446	ERP18; ERP19; TLP19	NM_015913	thioredoxin domain containing 12 (endoplasmic reticulum)
12			- NIM 022217	and also makin for it. (CDM)
NOL6	0.446	NRAP; UTP22; FLJ21959; MGC14896; MGC14921; MGC20838; bA311H10.1	NM_022917	nucleolar protein family 6 (RNA-associated)
VRK1	0.446	MGC117401; MGC138280; MGC142070	NM_003384	vaccinia related kinase 1
REEP5	0.446	DP1; TB2; D5S346; C5orf18; MGC70440	NM_005669	receptor accessory protein 5
WDSOF	0.446	Gm83; HSPC064; MGC126859; MGC138247; DKFZP564O0463	NM_015420	WD repeats and SOF1 domain containing
SYT1	0.445	P65; SYT; SVP65; DKFZp781D2042	NM 005639	synaptotagmin I
NOX4	0.442	KOX; KOX-1; RENOX	NM_016931	NADPH oxidase 4
PHGDH	0.44	PDG; PGD; PGAD; PGDH; SERA; 3PGDH; 3-	NM_006623	phosphoglycerate dehydrogenase
CTAT1	0.44	PGDH; MGC3017	NM 120266	cional transducer and activator of transactivities 1 011-D-
STAT1 PYGL	0.44 0.438	ISGF-3; STAT91; DKFZp686B04100 RB1	NM_139266 NM_002863	signal transducer and activator of transcription 1, 91kDa phosphorylase, glycogen; liver (Hers disease, glycogen storage
. I OL	0.436	ND1	14141_002803	disease type VI)
SLC7A1	0.436	ERR; ATRC1; CAT-1; HCAT1; REC1L	NM_003045	solute carrier family 7 (cationic amino acid transporter, y+ system), member 1
F12	0.435	HAF	NM 000505	coagulation factor XII (Hageman factor)
LYAR	0.434	LYAR; FLJ20425	NM_017816	hypothetical protein FLJ20425
CEBPD	0.433	CELF; CRP3; C/EBP-delta; NF-IL6-beta	NM_005195	CCAAT/enhancer binding protein (C/EBP), delta
CHGA	0.432	CGA	NM_001275	chromogranin A (parathyroid secretory protein 1)
	0.432	HARP; HBNF; HBGF8; NEGF1	NM_002825	pleiotrophin (heparin binding growth factor 8, neurite growth-
PTN	0.432			promoting factor 1)
PTN TIMM8	0.431	DDP; MTS; DDP1; DFN1; MGC12262	NM_004085	promoting factor 1) translocase of inner mitochondrial membrane 8 homolog A

			•	
SF3A3	0.431	PRP9; PRPF9; SAP61; SF3a60	NM_006802	splicing factor 3a, subunit 3, 60kDa
EFNB2	0.431	HTKL; EPLG5; Htk-L; LERK5; MGC126226;	NM_004093	ephrin-B2
HHLA2	0.431	MGC126227; MGC126228 CERK	NM 007072	HERV-H LTR-associating 2
NES	0.431	FLJ21841; Nbla00170	NM 00/0/2 NM 006617	nestin
ITGA2B	0.43	GTA; CD41; GP2B; HPA3; CD41B; GPIIb	NM 000419	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex,
110A2B	0.43	GTA, CD41, GT2B, III A3, CD41B, GT1B	14M_000417	antigen CD41)
C18ORF	0.43	FLJ39106	NM 173629	chromosome 18 open reading frame 26
26			_	
LAD1	0.43	LadA; MGC10355	NM_005558	ladinin 1
DPYSL2	0.43	DRP2; CRMP2; DRP-2; DHPRP2	NM_001386	dihydropyrimidinase-like 2
WIPI1	0.428	Atg18; WIPI49; FLJ10055	NM_017983	WD repeat domain, phosphoinositide interacting 1
OLFM1	0.427	AMY; NOE1; OlfA; NOELIN; NOELIN1;	NM_014279	olfactomedin 1
		NOELIN1_V1; NOELIN1_V2; NOELIN1_V4;		
COROS	0.426	NOELIN1_V5	ND 6 00 600 1	
CORO2 B	0.426	CLIPINC; KIAA0925	NM_006091	coronin, actin binding protein, 2B
FBXO22	0.426	FBX22; FLJ13986	NM 012170	F-box protein 22
MCM5	0.426	CDC46; MGC5315; P1-CDC46	NM 006739	MCM5 minichromosome maintenance deficient 5, cell division
MCMS	0.420	CDC+0, MGC5515, 11-CDC+0	14M_000/37	cycle 46 (S. cerevisiae)
ISOC2	0.425	TMEM101	NM 024710	isochorismatase domain containing 2
NAP1L3	0.425	MB20; NPL3; MGC26312	NM 004538	nucleosome assembly protein 1-like 3
SEMA4	0.425	CD100; SEMAJ; coll-4; M-sema G; M-sema-G	NM 006378	sema domain, immunoglobulin domain (Ig), transmembrane
D	****	, ,		domain (TM) and short cytoplasmic domain, (semaphorin) 4D
BUB1B	0.424	SSK1; BUBR1; Bub1A; MAD3L; hBUBR1;	NM 001211	BUB1 budding uninhibited by benzimidazoles 1 homolog beta
		BUB1beta	_	(yeast)
HSD11B	0.424	HDL; 11-DH; HSD11; HSD11B; HSD11L;	NM_181755	hydroxysteroid (11-beta) dehydrogenase 1
1		MGC13539; 11-beta-HSD1	1	
AP1S1	0.424	AP19; CLAPS1; SIGMA1A	NM_001283	adaptor-related protein complex 1, sigma 1 subunit
C12ORF	0.424	HSU79274	NM_013300	chromosome 12 open reading frame 24
24	0.422	DDC7	NIM CONTRACT	all and a second section C7
RPS7	0.423	RPS7	NM_001011	ribosomal protein S7
FLJ3120	0.423	FLJ31204; RP11-479E16.1	NM_174912	amidase domain containing
RAI14	0.422	DAILS: NODDEC: VIA A 1224: DVEZ-564C012	NM 015577	retinoic acid induced 14
F2RL1	0.422	RAI13; NORPEG; KIAA1334; DKFZp564G013 PAR2; GPR11	NM 005242	coagulation factor II (thrombin) receptor-like 1
VAMP4	0.422	VAMP24	NM 003762	vesicle-associated membrane protein 4
SLC24A	0.422	NCLX; NCKX6; FLJ22233	NM 024959	solute carrier family 24 (sodium/potassium/calcium exchanger),
6 6	0.421	NCLA, NCRAO, FLJ22233	NWI_024939	member 6
ATP5G1	0.421	ATP5A; ATP5G	NM 001002	ATP synthase, H+ transporting, mitochondrial F0 complex,
	0.121		027	subunit C1 (subunit 9)
PANX1	0.421	MRS1; UNQ2529; MGC21309	NM 015368	pannexin 1
EXTL3	0.419	REG; RPR; REGR; botv; EXTR1; KIAA0519;	NM 001440	exostoses (multiple)-like 3
		DKFZp686C2342	_	
MRPL24	0.419	MGC9831; MRP-L18; FLJ20917; MGC22737	NM_024540	mitochondrial ribosomal protein L24
ASPH	0.419	BAH; HAAH; JCTN; junctin; CASQ2BP1	NM_020164	aspartate beta-hydroxylase
ACO1	0.419	IRP1; IREB1; IREBP	NM_002197	aconitase 1, soluble
RIN2	0.419	RASSF4	NM_018993	Ras and Rab interactor 2
HBA1	0.419	CD31; MGC126895; MGC126897	NM_000558	hemoglobin, alpha 1
DBC1	0.419	FAM5A; DBCCR1	NM_014618	deleted in bladder cancer 1
ZNF206	0.418	ZSCAN10; FLJ14549	NM_032805	zinc finger protein 206
LYN	0.418	JTK8; FLJ26625	NM_002350	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog
ARIH2	0.417	ARI2; TRIAD1; FLJ10938; FLJ33921	NM_006321	ariadne homolog 2 (Drosophila)
ASCC3	0.416	RNAH; HELIC1; ASC1p200; MGC26074;	NM_006828	activating signal cointegrator 1 complex subunit 3
		DJ467N11.1; dJ121G13.4		
MICB	0.416	PERB11.2	NM_005931	MHC class I polypeptide-related sequence B
GLTP	0.415	GLTP	NM_016433	glycolipid transfer protein
ASPHD	0.414	ASPHD1	NM_181718	aspartate beta-hydroxylase domain containing 1
CART	0.414	AIRS; GARS; PAIS; PGFT; PRGS; GARTF;	NIM 000010	
GART	0.414	MGC47764	NM_000819	phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,
		MGC47704		phosphoribosylaminoimidazole synthetase
DNAJB6	0.413	MRJ; HSJ2; HHDJ1; HSJ-2; MSJ-1; MGC1152;	NM 005494	DnaJ (Hsp40) homolog, subfamily B, member 6
		FLJ42837; MGC117297; DKFZp566D0824		(
RAB7L1	0.413	RAB7L; DKFZp686P1051	NM 003929	RAB7, member RAS oncogene family-like 1
SMS	0.412	SRS; SpS; MRSR; SPMSY	NM 004595	spermine synthase
NQO1	0.412	DTD; QR1; DHQU; DIA4; NMOR1; NMORI	NM 000903	NAD(P)H dehydrogenase, quinone 1
LOXL3	0.412	LOXL	NM_032603	lysyl oxidase-like 3
ISG20L1	0.412	AEN; pp12744; FLJ12484; FLJ12562	NM_022767	interferon stimulated exonuclease gene 20kDa-like 1
HK1	0.412	HKI; HXK1; HK1-ta; HK1-tb	NM_033500	hexokinase 1
LCK	0.411	YT16; p56lck; pp58lck	NM_005356	lymphocyte-specific protein tyrosine kinase
BCAS4	0.41	FLJ20495	NM_017843	breast carcinoma amplified sequence 4
CMTM8	0.41	CKLFSF8	NM_178868	CKLF-like MARVEL transmembrane domain containing 8
RARRE	0.41	TIG2; HP10433	NM_002889	retinoic acid receptor responder (tazarotene induced) 2
S2			1	·
FLJ9023	0.41		NM_173581	
1	0.463	DDOGGA ALKANOGO NEGGOCOS	ND (15055	
MGC26	0.409	PRO7434; ALKN2972; MGC26856	NM_152779	GLI pathogenesis-related 1 like 1
856 MGC41	0.400	MGC4173: ADDC926: EL 120222	NM 024208	short shain dahudraganasa/radustasa
MGC41 72	0.409	MGC4172; ARPG836; FLJ39232	NM_024308	short-chain dehydrogenase/reductase
CYP2S1	0.408	CYP2S1	NM 030622	cytochrome P450, family 2, subfamily S, polypeptide 1
FKBP11	0.406	FKBP19; MGC54182	NM 016594	FK506 binding protein 11, 19 kDa
C3ORF2	0.406	MGC4308	NM 032359	chromosome 3 open reading frame 26
6	0.400		11111_032339	omonosome 5 open reading nume 20
PDGFR	0.406	JTK12; PDGFR; CD140B; PDGFR1; PDGF-R-	NM 002609	platelet-derived growth factor receptor, beta polypeptide
В		beta		, som porjpopudo
ANK3	0.406	FLJ45464; ANKYRIN-G	NM_001149	ankyrin 3, node of Ranvier (ankyrin G)
RPL8	0.406	RPL8	NM_033301	ribosomal protein L8
CCRN4	0.405	NOC; CCR4L; MGC78549; MGC142054;	NM_012118	CCR4 carbon catabolite repression 4-like (S. cerevisiae)
L		MGC142060; MGC4120817	_	•
RAB31	0.403	Rab22B	NM_006868	RAB31, member RAS oncogene family
PFS2	0.403	PSF2; Pfs2; HSPC037	NM_016095	GINS complex subunit 2 (Psf2 homolog)
TPM2	0.402	DA1; TMSB; AMCD1	NM_213674	tropomyosin 2 (beta)
GNG4	0.402	VPS13B	NM_004485	guanine nucleotide binding protein (G protein), gamma 4
NSBP1	0.4	NSBP1	NM_030763	nucleosomal binding protein 1
THOBIT	•			

LAMC1	0.4	LAMB2; MGC87297	NM_002293	laminin, gamma 1 (formerly LAMB2)
RNMTL	0.399	HC90; FLJ10581	NM_018146	RNA methyltransferase like 1
1				
ORC1L	0.398	ORC1; PARC1; HSORC1	NM_004153	origin recognition complex, subunit 1-like (yeast)
SULF1	0.398	SULF-1; HSULF-1; FLJ38022; FLJ41750;	NM_015170	sulfatase 1
		KIAA1077		
TFPI	0.397	EPI; TFI; LACI	NM_006287	tissue factor pathway inhibitor (lipoprotein-associated
				coagulation inhibitor)
SESN1	0.395	PA26; SEST1; MGC138241; MGC142129; RP11-	NM_014454	sestrin 1
		787122.1		
MAD2L	0.394	REV7; MAD2B	NM_006341	MAD2 mitotic arrest deficient-like 2 (yeast)
2				
DTL	0.393	RAMP; L2DTL	NM_016448	denticleless homolog (Drosophila)
TNC	0.392	TN; HXB	NM_002160	tenascin C (hexabrachion)
SLC17A	0.392	SD; AST; NSD; SLD; ISSD; SIASD; SIALIN;	NM 012434	solute carrier family 17 (anion/sugar transporter), member 5
5		FLJ22227; FLJ23268	_	
GRM4	0.391	mGlu4; GPRC1D; MGLUR4	NM 000841	glutamate receptor, metabotropic 4
RPS15	0.391	RIG; MGC111130	NM_001018	ribosomal protein S15
FLJ2070	0.391	FLJ20701; HMFN2073	NM 017933	hypothetical protein FLJ20701
1			_	
REXO2	0.39	RFN; SFN; CGI-114; MGC111570;	NM_015523	REX2, RNA exonuclease 2 homolog (S. cerevisiae)
		DKFZP566E144		
GULP1	0.39	CED6; GULP; CED-6; FLJ31156	NM_016315	GULP, engulfment adaptor PTB domain containing 1
IDH3A	0.39	PXDN	NM 005530	isocitrate dehydrogenase 3 (NAD+) alpha
SIX4	0.39	AREC3; MGC119450; MGC119452; MGC119453	NM 017420	sine oculis homeobox homolog 4 (Drosophila)
FKBP4	0.389	HBI; p52; Hsp56; FKBP52; FKBP59; PPIase	NM 002014	FK506 binding protein 4, 59kDa
CALD1	0.388	CDM; H-CAD; L-CAD; NAG22; MGC21352	NM 004342	caldesmon 1
MCEE	0.388	RPL12	NM 032601	methylmalonyl CoA epimerase
AP1S1	0.387	AP19; CLAPS1; SIGMA1A	NM 001283	adaptor-related protein complex 1, sigma 1 subunit
PCNXL	0.387	FLJ11383; KIAA0435	NM 024938	pecanex-like 2 (Drosophila)
2	0.307	12,11303, KH 110733	1111_027730	ресшел пке 2 (Бтозорина)
C3ORF5	0.387	MGC20416	NM 203370	chromosome 3 open reading frame 54
4	0.307	1415020410	11112_2033/0	emomosome 5 open reading frame 54
SLC7A8	0.386	LAT2; LPI-PC1	NM 012244	solute carrier family 7 (cationic amino acid transporter, y+
SLC/A8	0.360	LA12, LFI-FCI	NWI_012244	solute carrier family / (cationic amino acid transporter, y+ system), member 8
BRP44	0.385	MGC125752: MGC125752: DVE7D5(4D177	NM 015415	brain protein 44
		MGC125752; MGC125753; DKFZP564B167	NM_015415	
HNT	0.384	HNT; NTM; MGC60329	NM_016522	neurotrimin
CDCP1	0.382	CD318; TRASK; SIMA135	NM_178181	CUB domain containing protein 1
WWC1	0.382	KIBRA; FLJ10865; FLJ23369; KIAA0869	NM_015238	WW, C2 and coiled-coil domain containing 1
TRAM2	0.382	KIAA0057	NM_012288	translocation associated membrane protein 2
TNFRSF	0.381	CD30; KI-1; D1S166E	NM_001243	tumor necrosis factor receptor superfamily, member 8
8				
MAPRE	0.379	EB1; EB2; RP1	NM_014268	microtubule-associated protein, RP/EB family, member 2
2				
JARID2	0.378	JMJ	NM_004973	Jumonji, AT rich interactive domain 2
FAM98	0.378	DKFZP564F0522; DKFZp686O03192	NM_015475	family with sequence similarity 98, member A
A				
SLC25A	0.376	DNC; MUP1; MCPHA	NM_021734	solute carrier family 25 (mitochondrial deoxynucleotide carrier),
19				member 19
LRRC8	0.376	LRRC5; FLJ10470; FLJ20403	NM_018103	leucine rich repeat containing 8 family, member D
D				
PRPS1	0.375	PRSI; PRS I; KIAA0967	NM_002764	phosphoribosyl pyrophosphate synthetase 1
SLC6A1	0.375	V7-3; NTT73; hv7-3; FLJ10316; MGC87066;	NM 018057	solute carrier family 6, member 15
5		DKFZp761I0921		·
ADCY3	0.375	AC3; KIAA0511	NM_004036	adenylate cyclase 3
LNK	0.372	LNK	NM 005475	SH2B adaptor protein 3
H2AFJ	0.37	MGC921; FLJ10903	NM 177925	H2A histone family, member J
IGSF1	0.368	IGCD1; IGDC1; INHBP; PGSF2; KIAA0364;	NM 205833	immunoglobulin superfamily, member 1
		MGC75490		, , , , , , , , , , , , , , , , , , ,
FXYD5	0.368	RIC; IWU1; KCT1; OIT2; IWU-1; dysad;	NM 014164	FXYD domain containing ion transport regulator 5
1111111		HSPC113; PRO6241		
BTBD11	0.367	FLJ33957; FLJ42845	NM 152322	BTB (POZ) domain containing 11
LRP11	0.367	MANSC3; FLJ14735; MGC39092; bA350J20.3	NM 032832	low density lipoprotein receptor-related protein 11
TIMP2	0.366	CSC-21K	NM 003255	TIMP metallopeptidase inhibitor 2
CIT	0.366	CRIK; STK21; KIAA0949	NM 007174	citron (rho-interacting, serine/threonine kinase 21)
TSPAN5	0.366	NET-4; TM4SF9; TSPAN-5	NM 005723	tetraspanin 5
HRASL	0.366	HREV107; HREV107-3; MGC118754; H-	NM 007069	HRAS-like suppressor 3
	0.300	REV107; HREV107-3; MGC118754; H- REV107-1	14141_00/009	TIKAS-IIKE Supplessor 3
S3	0.266	FLJ23617	NIM 120000	aarbayymathylanahytanalidasa lika (Daaydamanaa)
LOC134	0.366	FL3/2501/	NM_138809	carboxymethylenebutenolidase-like (Pseudomonas)
147 MCM4	0.264	CDC21, CDC54, bC4-21, MCC22210, B1 CDC21	NIM 005014	MCM4 minishromosomo mointo 1-6 4 /6 · · · ·
MCM4	0.364	CDC21; CDC54; hCdc21; MGC33310; P1-CDC21	NM_005914	MCM4 minichromosome maintenance deficient 4 (S. cerevisiae)
LOC387	0.363	LOC387882	NM_207376	hypothetical protein
882	0.262	HDDT, HCDDT	NIM 000104	hymographics absorbanitt
HPRT1	0.363	HPRT; HGPRT	NM_000194	hypoxanthine phosphoribosyltransferase 1 (Lesch-Nyhan
FOG	0.262	- Fr-	NIM COSOSS	syndrome)
FOS	0.362	c-fos	NM_005252	v-fos FBJ murine osteosarcoma viral oncogene homolog
L2HGD	0.362	FLJ12618; C14orf160	NM_024884	L-2-hydroxyglutarate dehydrogenase
H	0.26	GVTC	NIN 6 00 50 45	
SYT6	0.36	SYT6	NM_205848	synaptotagmin VI
CEBPZ	0.359	CBF2; HSP-CBF	NM_005760	CCAAT/enhancer binding protein zeta
MIMITI	0.357	MMTN; B17.2L; mimitin	NM_174889	NDUFA12-like
N	ļ.,			
FHL2	0.357	DRAL; AAG11; SLIM3	NM_001450	four and a half LIM domains 2
PLEKH	0.355	APPD; MGC4090; PHAFIN1; ZFYVE15	NM_024310	pleckstrin homology domain containing, family F (with FYVE
F1				domain) member 1
PARD6	0.352	PAR6; PAR6C; TAX40; PAR-6A; TIP-40;	NM_016948	par-6 partitioning defective 6 homolog alpha (C.elegans)
A		PAR6alpha		
C13ORF	0.352	RAMA1; MGC4832	NM_145061	chromosome 13 open reading frame 3
3				
SLC39A	0.35	LZT-Hs2; MGC126565; MGC138428;	NM_020342	solute carrier family 39 (zinc transporter), member 10
10		DKFZp781L10106		
	0.25	BV8; PK2; MIT1	NM_021935	prokineticin 2
PROK2	0.35			
PROK2 NASP	0.35	FLB7527; MGC2297; PRO1999; FLJ31599;	NM_002482	nuclear autoantigenic sperm protein (histone-binding)
			NM_002482	nuclear autoantigenic sperm protein (histone-binding)
NASP	0.349	FLB7527; MGC2297; PRO1999; FLJ31599; FLJ35510; MGC19722; MGC20372; DKFZp547F162	_	nuclear autoantigenic sperm protein (histone-binding)
		FLB7527; MGC2297; PRO1999; FLJ31599; FLJ35510; MGC19722; MGC20372;	NM_002482 NM_006117	nuclear autoantigenic sperm protein (histone-binding) peroxisomal D3,D2-enoyl-CoA isomerase

1,75MD
LRRNS
A
P2RYS 0.344
CRASP 0.343
Times
PUNC 0.341 InST18880 NM 0.04884 putative neuronal cell adhesion molecule FDXR 0.34 ADXR NM 0.0414 Forredox in reductase FDXR 0.34 ADXR NM 0.0414 Forredox in reductase FDXR 0.34 ADXR NM 0.0414 Forredox in reductase FDXR 0.34 FDXR 0.35 FD
FDXR
SASHI
SCGI
FZD10
NM 03147 NM 03256
NM 03147 NM 03256
TIMPA
IBEELE 0.332
PCOLC 0.332
FFTKIK 0.331
PFTKI
TMMSFI 0.331
Section Content Cont
DPPAS 0.331
290
SCNN2 0.33
Cananal, subfamily N, member 2 transmembrane BAX inhibitor motif containing 4
MBM
FGF19
MGC24
MGC2465 MGC24665 NM_152308 Chromosome 16 open reading frame 75
665 STOM 0.324 BND7; EPB7; EPB72 NM 004099 stomatin SOX8 0.324 MGC24837 NM 014587 SRY (sex determining region Y)-box 8 PHCI 0.323 EDR1; HPH1; RAE28 NM 004426 polyhomeotic-like I (Drosophila) STEAPI 0.323 STEAP, PRSS24; MGC19484 NM 012449 six transmembrane epithelial antigen of the prostate I DCAMK 0.323 DCLK; KIAA0369 NM_004734 doublecortin and CaM kinase-like I L1 HEY2 0.321 GRL; CHFI; HRT2; HERPI; HESR2; MGC10720 NM 012259 hairy/enhancer-of-split related with YRPW motif 2 DUT 0.321 dUTPase; FLJ20622 NM 001025 dUTP pyrophosphatase ALG9 0.319 DIBDI; FLJ21845; DKFZp586M2420 NM 004409 saparagin-linked glycosylation 9 homolog (S. cerevisia Jamanosyltransferase) PPP2R2 0.319 SCA12; MGC24888; PRS5-BETA; PP2A-PR55B; PR2A-PR55B; PR2A-PR55-BETA; PR2APS5-BETA; PR2APS5-BET
STOM 0.324 BND7; EPB7 EPB7 NM 004409 Stomatin
SOX8 0.324 MGC24837 NM 014887 SRY (sex determining region Y)-box 8
PHCI 0.323 SERI; HPHI; RAE28 NM 004426 Dolyhomeotic-like I (Drosophila)
STEAP 0.323 STEAP; PRSS24; MGC19484 NM 012449 six transmembrane epithelial antigen of the prostate 1
DCAMK 0.323 DCLK; KIAA0369 NM_004734 doublecortin and CaM kinase-like 1
L1
HEY2
DUT 0.321 dUTPase; FLJ20622 NM_ 001025 248 ALG9 0.319 DIBD1; FLJ21845; DKFZp586M2420 NM_ 0024740 asparagine-linked glycosylation 9 homolog (S. cerevisia 1,2-mannosyltransferase) PPP2R2 B SCA12; MGC24888; PR55-BETA; PP2A-PR55B; PR2AB-BETA; PR2AB55-BETA; PR2APR55-BETA PR2AB-BETA; PR2ABFS5-BETA; PR2APR55-BETA PR2AB-BETA; PR2ABFS5-BETA; PR2APR55-BETA PR2AB-BETA; PR2ABFS5-BETA; PR2APR55-BETA; PR2ABFS5-BETA; PR2APR55-BETA PR2AB-BETA; PR2ABFS5-BETA; PR2APR55-BETA; PR2ABFS5-BETA; PR2APR55-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2APR55-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2APR55-BETA; PR2ABFS5-BETA; PR2AFS5-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2ABFS5-BETA; PR2AFS5-BETA; PR2ABFS5-BETA; PR2
ALG9 0.319 DIBD1; FLJ21845; DKFZp586M2420 NM_024740 asparagine-linked glycosylation 9 homolog (S. cerevisia 1,2-mannosyltransferase) PPP2R2 0.319 SCA12; MGC24888; PR55-BETA; PP2A-PR55B; PR2AB-BETA; PR2AB5-BETA; PR2AB75-BETA; PR2APR55-BETA; PR2AB75-BETA;
ALG9
PPP2R2
PPP2R2
B
SEPHS1 0.315 SPS; SELD; SPS1; MGC4980 NM_012247 selenophosphate synthetase 1
SEPHSI 0.315 SPS; SELD; SPS1; MGC4980 NM_012247 selenophosphate synthetase 1
FLJ2580
PSMB8
CABC1 0.312 COQ8; ADCK3; MGC4849 NM 020247 chaperone, ABC1 activity of bc1 complex like (S. pomb OCIAD2 0.312 MGC45416; DKFZp686C03164 NM 001014 446 OCIA domain containing 2
CABC1 0.312 COQ8; ADCK3; MGC4849 NM 020247 chaperone, ABC1 activity of bc1 complex like (S. pomb OCIAD2 0.312 MGC45416; DKFZp686C03164 NM 001014 446 OCIA domain containing 2
CABC1 0.312 COQ8; ADCK3; MGC4849 NM_ 020247 chaperone, ABC1 activity of bc1 complex like (S. pomb OCIAD2 0.312 MGC45416; DKFZp686C03164 NM_ 001014 446 AUG
OCIAD2 0.312 MGC45416; DKFZp686C03164 NM_0101014 446 OCIA domain containing 2 4446 KCND2 0.309 RK5; KV4.2; KIAA1044; MGC119702; MGC119703 NM_012281 potassium voltage-gated channel, Shal-related subfamily 2 potassium voltage-gat
OCIAD2 0.312 MGC45416; DKFZp686C03164 NM_0101014 446 OCIA domain containing 2 4446 KCND2 0.309 RK5; KV4.2; KIAA1044; MGC119702; MGC119703 NM_012281 potassium voltage-gated channel, Shal-related subfamily 2 potassium voltage-gat
KCND2
MGC119703 2 2
MGC119703 2 2 2 2 2 2 2 2 2
2
GFPT2 0.306 GFAT2; FLJ10380 NM_005110 glutamine-fructose-6-phosphate transaminase 2
FGD5 0.306 ZFYVE23 NM_152536 FYVE, RhoGEF and PH domain containing 5 PAK1 0.305 PAKalpha; MGC130000; MGC130001 NM 002576 p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, y integrin beta 1 binding protein 3 P3 NM_170678 integrin beta 1 binding protein 3 OAZ2 0.303 OAZ2 NM 002537 ornithine decarboxylase antizyme 2 AKAP7 0.3 AKAP18 NM 016377 A kinase (PRKA) anchor protein 7 APCDD 0.296 B7323; DRAPC1; FP7019 NM_153000 adenomatosis polyposis coli down-regulated 1 1 CTGF 0.294 CCN2; NOV2; HCS24; IGFBP8; MGC102839 NM_001901 connective tissue growth factor PRDM1 0.292 PFM11; MGC59730 NM_024504 PR domain containing 14
PAK1 0.305 PAKalpha; MGC130000; MGC130001 NM_002576 p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, y integrin beta 1 binding protein 3 P3 NM_170678 integrin beta 1 binding protein 3 P3 NM_002537 omithine decarboxylase antizyme 2 AKAP7 0.3 AKAP18 NM_016377 A kinase (PRKA) anchor protein 7 APCDD 0.296 B7323; DRAPC1; FP7019 NM_153000 adenomatosis polyposis coli down-regulated 1 CTGF 0.294 CCN2; NOV2; HCS24; IGFBP8; MGC102839 NM_001901 connective tissue growth factor PRDM1 0.292 PFM11; MGC59730 NM_024504 PR domain containing 14
PAK1 0.305 PAKalpha; MGC130000; MGC130001 NM_002576 p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, y integrin beta 1 binding protein 3 protein
TIGB1B 0.304 MIBP; NRK2; MGC126624 NM_170678 integrin beta 1 binding protein 3
P3 DAZ2 NM 002537 omithine decarboxylase antizyme 2 AKAP7 0.3 AKAP18 NM 016377 A kinase (PRKA) anchor protein 7 APCDD 0.296 B7323; DRAPC1; FP7019 NM 153000 adenomatosis polyposis coli down-regulated 1 CTGF 0.294 CCN2; NOV2; HCS24; IGFBP8; MGC102839 NM 001901 connective tissue growth factor PRDM1 0.292 PFM11; MGC59730 NM 024504 PR domain containing 14
OAZ2 0.303 OAZ2 NM 002537 omithine decarboxylase antizyme 2 AKAP7 0.3 AKAP18 NM 016377 A kinase (PRKA) anchor protein 7 APCDD 0.296 B7323; DRAPC1; FP7019 NM_153000 adenomatosis polyposis coli down-regulated 1 CTGF 0.294 CCN2; NOV2; HCS24; IGFBP8; MGC102839 NM 001901 connective tissue growth factor PRDM1 0.292 PFM11; MGC59730 NM_024504 PR domain containing 14
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CTGF 0.294 CCN2; NOV2; HCS24; IGFBP8; MGC102839 NM_001901 connective tissue growth factor PRDM1 0.292 PFM11; MGC59730 NM_024504 PR domain containing 14
PRDM1 0.292 PFM11; MGC59730 NM_024504 PR domain containing 14
PRDM1 0.292 PFM11; MGC59730 NM_024504 PR domain containing 14
4
C70PE2 0.20 MGC3077: FI II1717 NM 024051 sharmasama 7 anan madina frama 24
A COUNTY TO A CONTROL OF THE PROPERTY OF THE P
C/ORF2 0.29 MOC-5077, PL311717 NWI_024031 Cilioniosome 7 open reading frame 24
** NELL2 0.289 NRP2 NM 006159 NEL-like 2 (chicken)
NELL2 0.269 NRF2 NM 000139 NEL-IIRE 2 (CIIICREII)
SMTDL 0.289 ASMLSB Springomyenii piiospiiodiesterase, actu-inc 5B
3D
10
SCGB 0.288 LUT05; PNSP1; UGRP1 NM_054025 secretogiotin, Tamily 3A, member 2 A2
ICAM3 0.286 CD50; CDW50; ICAM-R NM_002162 intercellular adhesion molecule 3
UGP2 0.284 UDPG; UGPP2; UDPGP2; pHC379 NM 006759 UDP-glucose pyrophosphorylase 2
CHST7 0.281 C6ST-2 NM 019886 carbohydrate (N-acetylglucosamine 6-O) sulfotransferas
OCIAD2 0.277 MGC45416; DKFZp688C03164 NM 152398 OCIA domain containing 2
CXCL12 0.275 PBSF; SDF1; SDF1A; SDF1B; TPAR1; SCYB12; NM, 001033 chemokine (C-X-C motif) ligand 12 (stromal cell-derive
SDF-1a; SDF-1b; TLSF-a; TLSF-b 886 1)
FAM57 0.269 FP1188; DKFZP434I2117 NM_031478 family with sequence similarity 57, member B
B NM 014474 ankinganyalin phagphaliataran asid lika 2D
SMPDL 0.268 ASML3B NM_014474 sphingomyelin phosphodiesterase, acid-like 3B NM_015 NM_015 NM_016474 sphingomyelin phosphodiesterase, acid-like 3B NM_016474 sphingomyelin phosphodiesterase, acid-like
38
SEMA6 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytople
SEMA6 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytople domain, (semaphorin) 6A
SEMA6 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytopl. domain, (semaphorin) 6A FABP5 0.264 EFABP; E-FABP; PAFABP; PA-FABP NM_001444 fatty acid binding protein 5 (psoriasis-associated)
SEMA6 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytople domain, (semaphorin) 6A
SEMA6 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytople domain, (semaphorin) 6A FABP5 0.264 EFABP; E-FABP; PA-FABP NM_001444 fatty acid binding protein 5 (psoriasis-associated) RTN4IP 0.264 NIMP; MGC12934 NM_032730 reticulon 4 interacting protein 1
SEMA6 A 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytople domain, (semaphorin) 6A FABP5 0.264 EFABP; E-FABP; PA-FABP NM 001444 fatty acid binding protein 5 (psoriasis-associated) RTN4IP 0.264 NIMP; MGC12934 reticulon 4 interacting protein 1 KIAA07 0.264 KIAA0746; FLJ21629; DKFZp781J1697 NM_015187 KIAA0746 protein
SEMA6 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytopl. domain, (semaphorin) 6A FABP5 0.264 EFABP; E-FABP; PAFABP NM_01444 fatty acid binding protein 5 (psoriasis-associated) RTN4IP 0.264 NIMP; MGC12934 NM_032730 reticulon 4 interacting protein 1 KIAA07 0.264 KIAA0746; FLJ21629; DKFZp78IJ1697 NM_015187 KIAA0746 protein
SEMA6 A 0.265 LA (SEMA; HT018; SEMAQ; SEMAGA1; AND 020796) NM 020796 sema domain, transmembrane domain (TM), and cytople domain, (semaphorin) 6A FABP5 (SABP) 0.264 (SEABP; E-FABP; PAFABP; PAFABP) NM 001444 (SEABP) fatty acid binding protein 5 (psoriasis-associated) RTN4IP (SEABP) 0.264 (SEABP; E-FABP; PAFABP) NM 032730 (SEABP) RTN4IP (SEABP) 0.264 (SEABP; E-FABP; PAFABP) NM 032730 (SEABP) RTN4IP (SEABP) 0.264 (SEABP; E-FABP; PAFABP) NM 032730 (SEABP) RTN4IP (SEABP) NM 005187 (SEABP) KIAA0746 (SEABP) RT1A (SEABP) NT1 (SEABP) NM 005946 (SEABP) RT1A (SEABP) NT1 (SEABP) NM 005946 (SEABP)
SEMA6 0.265 VIA; SEMA; HT018; SEMAQ; SEMA6A1; NM_020796 sema domain, transmembrane domain (TM), and cytople domain, (semaphorin) 6A
SEMA6 A 0.265 A VIA; SEMA; HT018; SEMAQ; SEMA6A1; KIAA1368; sema Vla NM_020796 domain, (semaphorin) 6A sema domain, transmembrane domain (TM), and cytople domain, (semaphorin) 6A FABP5 0.264 EFABP; EFABP; PAFABP; PA-FABP NM_001444 fatty acid binding protein 5 (psoriasis-associated) RTN4IP 0.264 NIMP; MGC12934 NM_032730 reticulon 4 interacting protein 1 KIAA07 0.264 KIAA0746; FLJ21629; DKFZp781J1697 NM_015187 KIAA0746 protein MT1A 0.261 MT1; MTC; MT1S; MGC32848 NM_005946 metallothionein 1A (functional)

В				
NANOG	0.255	FGA	NM_024865	Nanog homeobox
IQGAP2	0.25	ARIH2	NM 006633	IQ motif containing GTPase activating protein 2
CYP2S1	0.249	CYP2S1	NM 030622	cytochrome P450, family 2, subfamily S, polypeptide 1
NFE2L3	0.243	NRF3	NM 004289	nuclear factor (erythroid-derived 2)-like 3
ADAM1	0.241	MDC15	NM_207195	ADAM metallopeptidase domain 15 (metargidin)
5			_	
MT1X	0.241	MT1; MT-11	NM_005952	metallothionein 1X
DPPA2	0.237	PESCRG1	NM_138815	developmental pluripotency associated 2
DPPA4	0.234	FLJ10713; 2410091M23Rik	NM_018189	developmental pluripotency associated 4
ITGB1B	0.23	MIBP; NRK2; MGC126624	NM_014446	integrin beta 1 binding protein 3
P3				
MMP9	0.228	GELB; CLG4B	NM_004994	matrix metallopeptidase 9 (gelatinase B, 92kDa gelatinase, 92kDa
				type IV collagenase)
HPCAL 1	0.227	BDR1; HLP2; VILIP-3	NM_002149	hippocalcin-like 1
GLDC	0.226	GCE; NKH; GCSP; HYGN1; MGC138198;	NM 000170	glycine dehydrogenase (decarboxylating)
		MGC138200	_	
CKMT1	0.225	CKMT; CKMT1; UMTCK	NM_020990	creatine kinase, mitochondrial 1B
В				
TERF1	0.223	TRF; PIN2; TRF1; TRBF1; t-TRF1; hTRF1-AS	NM_017489	telomeric repeat binding factor (NIMA-interacting) 1
CDCA7	0.223	R1; RAM2; DKFZp762L0311	NM_018719	cell division cycle associated 7-like
L				
AASS	0.22	LKRSDH; LORSDH; LKR/SDH	NM_005763	aminoadipate-semialdehyde synthase
DACT1	0.217	DPR1; FRODO; HDPR1; DAPPER; THYEX3; DAPPER1	NM_016651	dapper, antagonist of beta-catenin, homolog 1 (Xenopus laevis)
SILV	0.21	SI; SIL; ME20; gp100; PMEL17; D12S53E	NM_006928	silver homolog (mouse)
UBE2L6	0.204	RIG-B; UBCH8; MGC40331	NM_004223	ubiquitin-conjugating enzyme E2L 6
PDPN	0.204	T1A; GP36; GP40; Gp38; OTS8; T1A-2; HT1A-1;	NM_001006	podoplanin
		PA2.26	625	
CH25H	0.204	C25H	NM_003956	cholesterol 25-hydroxylase
SCNN1	0.201	ENaCa; SCNEA; SCNN1; FLJ21883; ENaCalpha	NM_001038	sodium channel, nonvoltage-gated 1 alpha
A				
FLJ1250 5	0.199	FLJ12505; RP11-275G3.1	NM_024749	vasohibin 2
FAH	0.191	FAH	NM 000137	fumarylacetoacetate hydrolase (fumarylacetoacetase)
POU5F1	0.187	OCT3; OTF3; OTF4; Oct4; MGC22487	NM 203289	POU domain, class 5, transcription factor 1
PTPRZ1	0.175	PTPZ; HPTPZ; PTP18; PTPRZ; RPTPB;	NM 002851	protein tyrosine phosphatase, receptor-type, Z polypeptide 1
		HPTPzeta; RPTPbeta		
FAM46	0.175	MGC16491; MGC20845; RP11-344H11.8	NM 052943	family with sequence similarity 46, member B
В		,		, , , , , , , , , , , , , , , , , , ,
HAS3	0.164	HAS3	NM 005329	hyaluronan synthase 3
USP44	0.158	FLJ14528; DKFZP434D0127	NM_032147	ubiquitin specific peptidase 44
POU5F1	0.147	OCT3; OTF3; OTF4; Oct4; MGC22487	NM_002701	POU domain, class 5, transcription factor 1
VSNL1	0.146	HLP3; VILIP; HPCAL3; HUVISL1; VILIP-1	NM_003385	visinin-like 1
CKMT1	0.139	CKMT1; UMTCK	NM_001015	creatine kinase, mitochondrial 1A
A			001	
SFRP2	0.136	FRP-2; SARP1; SDF-5	NM_003013	secreted frizzled-related protein 2

d4AA only

Gene Name	Fold Change	Common	Genbank	Description
CD1D	2.844	R3; CD1A; MGC34622	NM_001766	CD1d molecule
C2ORF34 PPP2R2C	2.622	FLJ23451 PR52; IMYPNO; IMYPNO1;	NM_024766 NM_181876	chromosome 2 open reading frame 34 protein phosphatase 2 (formerly 2A),
MANGE 1	2.240	MGC33570	NIM 120050	regulatory subunit B (PR 52), gamma isoform
VANGL1 IFRD1	2.349 2.203	LPP2; STB2; MGC5338 PC4; TIS7	NM_138959 NM_001550	vang-like 1 (van gogh, Drosophila) interferon-related developmental regulator 1
HES1	2.203	HHL; HRY; HES-1; FLJ20408	NM 005524	hairy and enhancer of split 1, (Drosophila)
SLC2A1	2.088	GLUT; GLUT1; MGC141895;	NM 006516	solute carrier family 2 (facilitated glucose
BECZITI	2.000	MGC141896	1111_000510	transporter), member 1
TMEPAI	2.024	STAG1; PMEPA1	NM_020182	transmembrane, prostate androgen induced RNA
NTS	2.005	NN; NT; NT/N; NTS1; NMN-125	NM 006183	neurotensin
IL17RD	1.974	SEF; IL-17RD; IL17RLM; FLJ35755; MGC133309; DKFZp434N1928	NM_017563	interleukin 17 receptor D
GPR64	1.974	HE6; TM7LN2; FLJ00282; MGC104454; MGC138738; MGC138739	NM_005756	G protein-coupled receptor 64
PPT2	1.917	G14; NG3; C6orf8; DKFZp564P1516	NM_138717	palmitoyl-protein thioesterase 2
KAL1	1.902	HHA; KAL; KMS; ADMLX; KALIG-1	NM_000216	Kallmann syndrome 1 sequence
ADAMTS18	1.9	ADAMTS21	NM_199355	ADAM metallopeptidase with thrombospondin type 1 motif, 18
SLC36A2	1.875	PAT2; TRAMD1; FLJ16051; MGC119658; MGC119660	NM_181776	solute carrier family 36 (proton/amino acid symporter), member 2
SHB	1.873	bA3J10.2; RP11-3J10.8	NM_003028	Src homology 2 domain containing adaptor protein B
SON	1.866		NM_138926	
ZNF278	1.861	ZSG; MAZR; PATZ; RIAZ; ZBTB19; dJ400N23	NM_032051	zinc finger protein 278
ANGPT1	1.854	AGP1; AGPT; ANG1	NM 001146	angiopoietin 1
KLF5	1.84	CKLF; IKLF; BTEB2	NM_001730	Kruppel-like factor 5 (intestinal)
GDF3	1.786	GDF3	NM_020634	growth differentiation factor 3
CHRD	1.751		NM_177978	
C17ORF39	1.738	MGC3048	NM_024052	chromosome 17 open reading frame 39
CROP	1.725	CROP; LUC7A; OA48-18	NM_016424	cisplatin resistance-associated overexpressed protein
KIAA1944	1.704	MOLT; KIAA1944; MGC138770; MGC138771	NM_133448	transmembrane protein 132D
NEBL	1.701	LNEBL; bA56H7.1; MGC119746; MGC119747	NM_006393	nebulette
JOSD3	1.697	MGC5306	NM_024116	Josephin domain containing 3
RNF44	1.692	KIAA1100	NM_014901	ring finger protein 44
GAD1	1.68	GAD	NM_000817	glutamate decarboxylase 1 (brain, 67kDa)
CLK2	1.673	hCLK2; MGC61500	NM_001291	CDC-like kinase 2
SS18L1	1.66	CREST; LP2261; KIAA0693; MGC26711; MGC78386	NM_015558	synovial sarcoma translocation gene on chromosome 18-like 1
MATR3	1.628	MGC9105; KIAA0723; DKFZp686K0542; DKFZp686K23100	NM_018834	matrin 3
RBM35A	1.615	FLJ20171	NM_017697	RNA binding motif protein 35A
BCOR	1.612	MAA2; ANOP2; MCOPS2; FLJ20285; FLJ38041; KIAA1575; MGC71031; MGC131961	NM_020926	BCL6 co-repressor
C10ORF47	1.609	MGC35403	NM_153256	chromosome 10 open reading frame 47
C9ORF77	1.607	CGI-67; RP11-409O11.2	NM_016014	chromosome 9 open reading frame 77
CCNG2	1.606	SCOTIN ZNE202	NM_004354 NM_003455	cyclin G2
ZNF202 BTBD6	1.605 1.604	ZNF202 BDPL	NM_003455 NM_033271	zinc finger protein 202 BTB (POZ) domain containing 6
ZNF498	1.603	ZNF498	NM 145115	zinc finger protein 498
ANK2	1.601	LQT4; FLJ38277; DKFZp686P0948; DKFZp686M09125	NM_020977	ankyrin 2, neuronal
EGLN1	1.591	PHD2; SM20; ECYT3; SM-20; HIFPH2; ZMYND6; Clorf12; DKFZp761F179	NM_022051	egl nine homolog 1 (C. elegans)
NRIP1	1.582	RIP140	NM_003489	nuclear receptor interacting protein 1
NPY5R	1.568	NPYR5	NM_006174	neuropeptide Y receptor Y5
PPARGC1A	1.56	LEM6; PGC1; PGC1A; PGC-1v; PPARGC1; PGC-1(alpha)	NM_013261	peroxisome proliferative activated receptor, gamma, coactivator 1, alpha
TNMD	1.553	TEM; CHM1L; BRICD4; tendin; myodulin; CHM1-LIKE	NM_022144	tenomodulin
NUDT10	1.541	DIPP3a; hDIPP3alpha	NM_153183	nudix (nucleoside diphosphate linked moiety X)-type motif 10
ZNF435	1.54	ZNF392; ZSCAN16; FLJ22191; dJ265C24.3	NM_025231	zinc finger protein 435
ANP32C	1.505	PP32R1	NM_012403	acidic (leucine-rich) nuclear phosphoprotein 32 family, member C
GABBR1	1.492	hGB1a; GPRC3A; GABABR1; GABBR1-3; GABAB(1e);	NM_021905	gamma-aminobutyric acid (GABA) B receptor, 1

****		dJ271M21.1.1; dJ271M21.1.2	377.0	TVA 14460
KIAA1468	1.491	HsT885; HsT3308; FLJ33841	NM_020854	KIAA1468
ATF4	1.487	CREB2; TXREB; CREB-2;	NM_001675	activating transcription factor 4 (tax-
		TAXREB67		responsive enhancer element B67)
DOCK1	1.48	ced5; DOCK180	NM_001380	dedicator of cytokinesis 1
RYR2	1.478	ARVC2; ARVD2; VTSIP	NM_001035	ryanodine receptor 2 (cardiac)
ZSWIM3	1.472	C20orf164	NM_080752	zinc finger, SWIM-type containing 3
TP53RK	1.472	PRPK; Nori-2; Nori-2p; C20orf64	NM_033550	TP53 regulating kinase
ZNF350	1.466	ZFQR; ZBRK1	NM_021632	zinc finger protein 350
C20ORF10	1.465	CLG01; TP53TG5	NM_014477	chromosome 20 open reading frame 10
FUT11	1.462	MGC33202; MGC119338;	NM_173540	fucosyltransferase 11 (alpha (1,3)
		MGC119339	_	fucosyltransferase)
ATP7B	1.454	WD; PWD; WC1; WND	NM_000053	ATPase, Cu++ transporting, beta polypeptide
SIAH1	1.454	Siah-1; hSIAH1; HUMSIAH;	NM_001006610	seven in absentia homolog 1 (Drosophila)
		Siah-1a		
NR2C1	1.443	TR2; TR2-11	NM_001032287	nuclear receptor subfamily 2, group C,
				member 1
ANKHD1	1.43	MASK	NM_017747	ankyrin repeat and KH domain containing 1
SNTB1	1.427	A1B; SNT2; BSYN2; 59-DAP;	NM_021021	syntrophin, beta 1 (dystrophin-associated
		DAPA1B; SNT2B1; TIP-43;		protein A1, 59kDa, basic component 1)
EGE12	1 407	FLJ22442; MGC111389	ND 6 004112	C1 11 4 4 C 4 12
FGF12	1.427	FHF1; FGF12B	NM_004113	fibroblast growth factor 12
C1ORF84	1.42	FLJ34502; RP11-506B15.1	NM_001012960	chromosome 1 open reading frame 84
ZBED4	1.42	GON4L	NM_014838	zinc finger, BED-type containing 4
SCAND2	1.417	SCAND2	NM_033640	SCAN domain containing 2
CRY1	1.415	PHLL1	NM_004075	cryptochrome 1 (photolyase-like)
FLJ22639	1.401		NM_024796	
WDR19	1.399	ORF26; PWDMP; FLJ23127;	NM_025132	WD repeat domain 19
001444	1.000	KIAA1638	NA 000000	11
COL4A4	1.396	CA44	NM_000092	collagen, type IV, alpha 4
KIAA1434	1.394	KIAA1434; FLJ11085;	NM_019593	hypothetical protein KIAA1434
EDMD 4	1.205	MGC26147; RP5-1022P6.2	ND 6 001055	1.4.1
EDNRA	1.388	ETA; ETRA	NM_001957	endothelin receptor type A
JRK	1.387	JH8; FLJ45729;	NM_003724	jerky homolog (mouse)
PATER	4.006	DKFZp686C24207	277.6.04.482.5	DVID G
PHF16	1.386	JADE3; KIAA0215; MGC138748;	NM_014735	PHD finger protein 16
D.CE.I	1.206	MGC138749	ND 6 001022270	POPUL 1 1 (1 (C
RCE1	1.386	FACE2; RCE1A; RCE1B	NM_001032279	RCE1 homolog, prenyl protein peptidase (S. cerevisiae)
CSAC2	1 202	TD 4 C2: MCC140951.	NIM 004000	
CSAG2	1.382	TRAG3; MGC149851; MGC149852	NM_004909	CSAG family, member 2
PCF11	1.379	KIAA0824	NIM 015005	DCE11 alsoys as and nalvadamylation factor
PCFII	1.379	KIAA0824	NM_015885	PCF11, cleavage and polyadenylation factor subunit, homolog (S. cerevisiae)
GMEB1	1.373	PIF96; P96PIF	NM 006582	glucocorticoid modulatory element binding
GWEBI	1.5/5	F1F90, F90F1F	NWI_000382	protein 1
FLJ14768	1.365	ZNF798; FLJ14768	NM 032836	FLT3-interacting zinc finger 1
1 LJ 1 T / UU				1 L 1 3-interacting zine ringer 1
MARS2	1.365	MetRS; mtMetRS	NM_138395	methionine-tRNA synthetase 2
MARS2	1.365	MetRS; mtMetRS	NM_138395	methionine-tRNA synthetase 2 (mitochondrial)
MARS2 MAN1A2	1.365 1.359	MetRS; mtMetRS MAN1B	NM_138395 NM_006699	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2
MARS2	1.365	MetRS; mtMetRS	NM_138395	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis
MARS2 MAN1A2 THAP1	1.365 1.359 1.343	MetRS; mtMetRS MAN1B FLJ10477; MGC33014	NM_138395 NM_006699 NM_199003	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1
MARS2 MAN1A2	1.365 1.359	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904;	NM_138395 NM_006699	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain
MARS2 MANIA2 THAP1 HDHD3	1.365 1.359 1.343 1.34	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik	NM_138395 NM_006699 NM_199003 NM_031219	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3	1.365 1.359 1.343 1.34	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27	1.365 1.359 1.343 1.34 1.338 1.337	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH1; ALDH1A6 C15orf25; FLJ10460; HsT17025	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2	1.365 1.359 1.343 1.34 1.338 1.337 1.332	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27	1.365 1.359 1.343 1.34 1.338 1.337	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH1; ALDH1A6 C15orf25; FLJ10460; HsT17025	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2	1.365 1.359 1.343 1.34 1.338 1.337 1.332	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331	MetRS; mtMetRS MAN1B FL10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FL110460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007;	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15ort25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081;	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; M5AC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773;	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331	MetRS; mtMetRS MAN1B FL110477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FL110460; HsT17025 SAD1; STK29; PEN11B; C110rf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HST17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182640 NM_182640 NM_182640 NM_182640	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET- ELEI KOX9	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.331 1.323	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182640 NM_182640 NM_182640 NM_182640	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.319	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RETS1; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_03957 NM_182642 NM_148571 NM_198330 NM_020630 NM_001029976 NM_0011880	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.311 1.323 1.319 1.314 1.309 1.307	MetRS; mtMetRS MAN1B FL110477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FL110460; HsT17025 SAD1; STK29; PEN11B; C110rf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_148571 NM_198330 NM_020630 NM_020630	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zine finger protein 16
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.307 1.304	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15ort25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_03957 NM_182642 NM_148571 NM_198330 NM_020630 NM_001029976 NM_0011880	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 93 ring finger protein 170
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.311 1.323 1.319 1.314 1.309 1.307	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_198330 NM_020630 NM_001029976 NM_001880 NM_001004126	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 193 ring finger protein 170 zinc finger protein 133
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.307 1.304	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orl25; FLJ10460; HST17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET- ELEI KOX9 HB16; CREB2; TREB7; CRE- BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38032 FOR; WOX1; FRA16D;	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_018097 NM_018097 NM_182642 NM_182642 NM_182642 NM_100109976 NM_001029976 NM_001080 NM_00104126 NM_030954	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 93 ring finger protein 170
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.314 1.309 1.304 1.304	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15ort25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPE34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX	NM_138395 NM_006699 NM_199003 NM_031219 NM_001093 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_198330 NM_001029976 NM_001029976 NM_001880 NM_001004126 NM_0180954 NM_181756	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 193 ring finger protein 170 zinc finger protein 1233
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CCP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.304	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ383032 FOR; WOX1; FRA16D; HHCMA56; PR00128; WWOX v8; D16S432E	NM_138395 NM_006699 NM_199003 NM_031219 NM_001093 NM_018097 NM_018097 NM_03957 NM_182642 NM_182642 NM_182630 NM_01001029976 NM_001029976 NM_001880 NM_001004126 NM_01004126 NM_0130954 NM_130844	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zine finger protein 16 activating transcription factor 2 zine finger protein 170 zine finger protein 170 zine finger protein 233 WW domain containing oxidoreductase
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.314 1.309 1.304 1.304	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP;	NM_138395 NM_006699 NM_199003 NM_031219 NM_001093 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_198330 NM_01001029976 NM_001029976 NM_001880 NM_001004126 NM_0130954 NM_181756	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 193 ring finger protein 170 zinc finger protein 133
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CCP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.304	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15ort25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC11558 TF34; HPE34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBW1A; bTrCP; MGC4643;	NM_138395 NM_006699 NM_199003 NM_031219 NM_001093 NM_018097 NM_018097 NM_03957 NM_182642 NM_182642 NM_182630 NM_01001029976 NM_001029976 NM_001880 NM_001004126 NM_01004126 NM_0130954 NM_130844	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zine finger protein 16 activating transcription factor 2 zine finger protein 170 zine finger protein 170 zine finger protein 233 WW domain containing oxidoreductase
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELF1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC11558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP	NM_138395 NM_006699 NM_199003 NM_031219 NM_001693 NM_018097 NM_018097 NM_03957 NM_182642 NM_182642 NM_182642 NM_182642 NM_018830 NM_001029976 NM_001880 NM_00104126 NM_00104126 NM_0180954 NM_181756 NM_130844 NM_003939	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.319 1.314 1.309 1.304 1.304 1.304 1.302 1.302	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15ort25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; N5AC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_148571 NM_198330 NM_020630 NM_01029976 NM_0010880 NM_001084126 NM_030954 NM_030954 NM_130844 NM_130844 NM_030939	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELF1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC11558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP	NM_138395 NM_006699 NM_199003 NM_031219 NM_001693 NM_018097 NM_018097 NM_03957 NM_182642 NM_182642 NM_182642 NM_182642 NM_018830 NM_001029976 NM_001880 NM_00104126 NM_00104126 NM_0180954 NM_181756 NM_130844 NM_003939	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C,
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.302	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1	NM_138395 NM_006699 NM_199003 NM_0199003 NM_018997 NM_018097 NM_018097 NM_182642 NM_182642 NM_182642 NM_182642 NM_182650 NM_01003957 NM_01003957 NM_01004126 NM_001004126 NM_001004126 NM_0130954 NM_130954 NM_130954 NM_130954 NM_130954 NM_130954 NM_001004126 NM_003939 NM_003939	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.319 1.314 1.309 1.304 1.304 1.304 1.302 1.302	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ383032 FOR; WOX1; FRA16D; HHCMA56; PR00128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP; HSCW1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB;	NM_138395 NM_006699 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_148571 NM_198330 NM_020630 NM_01029976 NM_0010880 NM_001084126 NM_030954 NM_030954 NM_130844 NM_130844 NM_030939	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zine finger protein 16 activating transcription factor 2 zine finger protein 170 zine finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II,
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.314 1.309 1.307 1.304 1.302 1.302 1.302 1.302	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC11558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP; BTW1A; bTrCP; BTW1A; bTrCP; MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_188571 NM_198330 NM_010029976 NM_001029976 NM_001880 NM_00104126 NM_030954 NM_130844 NM_130844 NM_130844 NM_003939 NM_003939 NM_0032566 NM_003298 NM_002123	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.302	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC11558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5;	NM_138395 NM_006699 NM_199003 NM_0199003 NM_018997 NM_018097 NM_018097 NM_182642 NM_182642 NM_182642 NM_182642 NM_182650 NM_01003957 NM_01003957 NM_01004126 NM_001004126 NM_001004126 NM_0130954 NM_130954 NM_130954 NM_130954 NM_130954 NM_130954 NM_001004126 NM_003939 NM_003939	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zine finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II,
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.319 1.314 1.309 1.304 1.304 1.304 1.302 1.302 1.301 1.298 1.298 1.298	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C110rf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PR00128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZP781B0249	NM_138395 NM_006699 NM_199003 NM_031219 NM_001693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_188571 NM_198330 NM_001029976 NM_001880 NM_0010880 NM_01880 methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zinc finger 5 (Pegasus)	
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.319 1.314 1.309 1.307 1.304 1.302 1.302 1.302 1.302 1.302 1.298 1.298 1.297	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZp781B0249 CSBP; TUNP; HNRNPK	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_03957 NM_182642 NM_148571 NM_198330 NM_01003957 NM_010800 NM_01029976 NM_001880 NM_01004126 NM_030954 NM_130844 NM_131756 NM_130844 NM_130844 NM_0030954 NM_0030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030956 NM_030956 NM_030956 NM_030956 NM_030956 NM_030956 NM_030956 NM_031266 NM_031263	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zinc finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK IFRD1	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.302 1.302 1.298 1.298 1.297 1.296 1.293	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSTC29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELF1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZp781B0249 CSBP, TUNP; HNRNPK PC4; TIS7	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_182642 NM_019830 NM_001029976 NM_001880 NM_00104126 NM_0010880 NM_00104126 NM_030954 NM_181756 NM_130844 NM_003939 NM_0022666 NM_003298 NM_002123 NM_002123 NM_002123 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0022466 NM_003298	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 93 ring finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DO beta 1 IKAROS family zinc finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1
MARS2 MAN1A2 THAP1 HDHD3 ALDH1A3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.331 1.323 1.319 1.319 1.314 1.309 1.307 1.304 1.302 1.302 1.302 1.302 1.302 1.298 1.298 1.297	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C110rf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELF1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HF734; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZp781B0249 CSBP; TUNP; HNRNPK PC4; TIS7 KCIP-1; MGC111427;	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_03957 NM_182642 NM_148571 NM_198330 NM_01003957 NM_010800 NM_01029976 NM_001880 NM_01004126 NM_030954 NM_130844 NM_131756 NM_130844 NM_130844 NM_0030954 NM_0030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030954 NM_030956 NM_030956 NM_030956 NM_030956 NM_030956 NM_030956 NM_030956 NM_031266 NM_031263	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zinc finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1 tyrosine 3-monooxygenase/tryptophan 5-
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK IFRD1	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.302 1.302 1.298 1.298 1.297 1.296 1.293	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSTC29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELF1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZp781B0249 CSBP, TUNP; HNRNPK PC4; TIS7	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_182642 NM_019830 NM_001029976 NM_001880 NM_00104126 NM_0010880 NM_00104126 NM_030954 NM_181756 NM_130844 NM_003939 NM_0022666 NM_003298 NM_002123 NM_002123 NM_002123 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0021266 NM_003298 NM_0022466 NM_003298	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zinc finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1 tyrosine 3-monooxygenase/tryptophan 5- monooxygenase activation protein, zeta
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK IFRD1 YWHAZ	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.302 1.298 1.298 1.297 1.296 1.293 1.292	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZP781B0249 CSBP; TUNP; HNRNPK PC4; TIS7 KCIP-1; MGC11427; MGC126532; MGC138156	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_019830 NM_01029976 NM_001880 NM_00104126 NM_0010880 NM_01004126 NM_030954 NM_131756 NM_130844 NM_003939 NM_002266 NM_003298 NM_002266 NM_003298 NM_002123 NM_002123 NM_0021246 NM_031263 NM_001007245 NM_003406	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class IA, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zine finger protein 16 activating transcription factor 2 zine finger protein 93 ring finger protein 170 zine finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zine finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1 tyrosine 3-monooxygenase/tryptophan 5- monooxygenase activation protein, zeta polypeptide
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK IFRD1 YWHAZ ZNF71	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.301 1.298 1.298 1.297 1.296 1.292 1.292	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP1; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZp781B0249 CSBP; TUNP; HNRNPK PC4; TIS7 KCIP-1; MGC111427; MGC126532; MGC138156 EZFIT	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_182642 NM_018830 NM_001029976 NM_001880 NM_001004126 NM_001880 NM_01004126 NM_03954 NM_130844 NM_003954 NM_130844 NM_003939 NM_022566 NM_003298 NM_002123 NM_022466 NM_0031263 NM_001007245 NM_003406 NM_003406	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zinc finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1 tyrosine 3-monooxygenase/typtophan 5- monooxygenase activation protein, zeta polypeptide zinc finger protein 71
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK IFRD1 YWHAZ	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.302 1.298 1.298 1.297 1.296 1.293 1.292	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C110rf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET- ELE1 KOX9 HB16; CREB2; TREB7; CRE- BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ383032 FOR; WOX1; FRA16D; HHCMA56; PR00128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP; FBXW1A; bTrCP; HGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; bTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZp781B0249 CSBP; TUNP; HNRNPK PC4; TIS7 KCIP-1; MGC111427; MGC126532; MGC138156 EZFIT GDN; MAM2; CAGH3; ERDA3;	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_019830 NM_01029976 NM_001880 NM_00104126 NM_0010880 NM_01004126 NM_030954 NM_131756 NM_130844 NM_003939 NM_002266 NM_003298 NM_002266 NM_003298 NM_002123 NM_002123 NM_0021246 NM_031263 NM_001007245 NM_003406	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class IA, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zine finger protein 16 activating transcription factor 2 zine finger protein 93 ring finger protein 170 zine finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zine finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1 tyrosine 3-monooxygenase/tryptophan 5- monooxygenase activation protein, zeta polypeptide
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK IFRD1 YWHAZ ZNF71 MAML3	1.365 1.359 1.343 1.34 1.338 1.337 1.332 1.331 1.323 1.314 1.309 1.304 1.304 1.302 1.302 1.298 1.298 1.297 1.296 1.293 1.292 1.292	MetRS; mtMetRS MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDHG; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C11orf7 SCP1; NLIIF L27mt; MGC23716 SAC2; hSAC2; MSTP007; MSTP047; FLJ13081; KIAA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET-ELE1 KOX9 HB16; CREB2; TREB7; CRE-BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ38306; DKFZP564A022 FLJ38032 FOR; WOX1; FRA16D; HHCMA56; PRO0128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; MGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; hTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZP781B0249 CSBP; TUNP; HNRNPK PC4; TIS7 KCIP-1; MGC111427; MGC16532; MGC138156 EZFIT GDN; MAM2; CAGH3; ERDA3; MAM4-2; TNRC3	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_198330 NM_020630 NM_001029976 NM_001880 NM_00104126 NM_0019976 NM_01880 NM_00104126 NM_039954 NM_131756 NM_130844 NM_003939 NM_0022566 NM_003298 NM_002123 NM_002123 NM_0021246 NM_003298 NM_002125 NM_003406 NM_003406 NM_001007245 NM_003406 NM_018717	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class IA, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 93 ring finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zinc finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1 tyrosine 3-monooxygenase/tryptophan 5- monooxygenase activation protein, zeta polypeptide zinc finger protein 71 mastermind-like 3 (Drosophila)
MARS2 MANIA2 THAP1 HDHD3 ALDHIA3 CEP27 BRSK2 CTDSP1 MRPL27 INPP5F RET ZNF16 ATF2 ZNF93 RNF170 ZNF233 WWOX BTRC MESDC1 NR2C2 HLA-DQB1 ZNFN1A5 HNRPK IFRD1 YWHAZ ZNF71	1.365 1.359 1.343 1.34 1.34 1.338 1.337 1.332 1.331 1.323 1.319 1.314 1.309 1.304 1.304 1.302 1.301 1.298 1.298 1.297 1.296 1.292 1.292	Metrs; mtMetrs MAN1B FLJ10477; MGC33014 C9orf158; MGC12904; 2810435D12Rik ALDH6; RALDH3; ALDH1A6 C15orf25; FLJ10460; HsT17025 SAD1; STK29; PEN11B; C110rf7 SCP1; NLIIF L27mt; MGC23716 SAC2; MSAC2; MSTP007; MSTP047; FLJ13081; K1AA0966; MGC59773; MGC131851 PTC; MTC1; HSCR1; MEN2A; MEN2B; RET51; CDHF12; RET- ELE1 KOX9 HB16; CREB2; TREB7; CRE- BP1; MGC111558 TF34; HPF34; HTF34; ZNF505 FLJ383032 FOR; WOX1; FRA16D; HHCMA56; PR00128; WWOX v8; D16S432E FWD1; FBW1A; bTrCP; FBXW1A; bTrCP; FBXW1A; bTrCP; HGC4643; betaTrCP; BETA-TRCP MGC99595 TR4; TAK1; TR2R1; bTAK1 IDDM1; CELIAC1; HLA-DQB; HLA DQB1 PEGASUS; ZNFN1A5; FLJ22973; DKFZp781B0249 CSBP; TUNP; HNRNPK PC4; TIS7 KCIP-1; MGC111427; MGC126532; MGC138156 EZFIT GDN; MAM2; CAGH3; ERDA3;	NM_138395 NM_006699 NM_199003 NM_199003 NM_031219 NM_000693 NM_018097 NM_003957 NM_182642 NM_182642 NM_182642 NM_182642 NM_182642 NM_018830 NM_001029976 NM_001880 NM_001004126 NM_001880 NM_01004126 NM_03954 NM_130844 NM_003954 NM_130844 NM_003939 NM_022566 NM_003298 NM_002123 NM_022466 NM_0031263 NM_001007245 NM_003406 NM_003406	methionine-tRNA synthetase 2 (mitochondrial) mannosidase, alpha, class 1A, member 2 THAP domain containing, apoptosis associated protein 1 haloacid dehalogenase-like hydrolase domain containing 3 aldehyde dehydrogenase 1 family, member A3 centrosomal protein 27kDa BR serine/threonine kinase 2 CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 mitochondrial ribosomal protein L27 inositol polyphosphate-5-phosphatase F ret proto-oncogene (multiple endocrine neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease) zinc finger protein 16 activating transcription factor 2 zinc finger protein 170 zinc finger protein 170 zinc finger protein 233 WW domain containing oxidoreductase beta-transducin repeat containing mesoderm development candidate 1 nuclear receptor subfamily 2, group C, member 2 major histocompatibility complex, class II, DQ beta 1 IKAROS family zinc finger 5 (Pegasus) heterogeneous nuclear ribonucleoprotein K interferon-related developmental regulator 1 tyrosine 3-monooxygenase/typtophan 5- monooxygenase activation protein, zeta polypeptide zinc finger protein 71

CDK10	1.286	PISSLRE	NM 052000	cyclin-dependent kinase (CDC2-like) 10
ING3	1.284	Eaf4; ING2; p47ING3; FLJ20089	NM_052988 NM_198267	inhibitor of growth family, member 3
FAM24B	1.281	MGC45962; DKFZp667I0323	NM 152644	family with sequence similarity 24, member B
NOL9	1.274	FLJ23323; MGC131821; MGC138483	NM_024654	nucleolar protein 9
ZNF586	1.274	FLJ20070	NM_017652	zinc finger protein 586
KCNG1	1.274	K13; kH2; KCNG; KV6.1;	NM_172318	potassium voltage-gated channel, subfamily
DITVA	1 271	MGC12878	NIM 000225	G, member 1
PITX2	1.271	RS; RGS; ARP1; Brx1; IDG2; IGDS; IHG2; PTX2; RIEG; IGDS2; IRID2; Otlx2; RIEG1; MGC20144; MGC111022	NM_000325	paired-like homeodomain transcription factor 2
KLHL4	1.266	KHL4; DKELCHL; KIAA1687	NM 057162	kelch-like 4 (Drosophila)
IL23A	1.265	P19; SGRF; IL-23; IL-23A;	NM_016584	interleukin 23, alpha subunit p19
SOCS6	1.263	IL23P19; MGC79388 CIS4; SSI4; SOCS4; STAI4;	NM_004232	suppressor of cytokine signaling 6
CMUDE1	1.26	STAT4; STATI4; HSPC060	NIM 101240	CMAD if . F2 -liitit-i- li 1
SMURF1 KCR1	1.26 1.257	KIAA1625 KCR1; ALG10	NM_181349 NM_001013620	SMAD specific E3 ubiquitin protein ligase 1 asparagine-linked glycosylation 10 homolog B (yeast, alpha-1,2-glucosyltransferase)
COX11	1.252	COX11P	NM_004375	COX11 homolog, cytochrome c oxidase assembly protein (yeast)
GTF2I	1.252	DIWS; SPIN; IB291; BAP135; BTKAP1; TFII-I; WBSCR6; BAP- 135	NM_033001	general transcription factor II, i
BTNL2	1.248	BTL-II; HSBLMHC1	NM_019602	butyrophilin-like 2 (MHC class II associated)
ACHE	1.246	YT; ARACHE; N-ACHE	NM_015831	acetylcholinesterase (Yt blood group)
GOLPH3L	1.245	GPP34R; FLJ10687	NM_018178	golgi phosphoprotein 3-like
ZNF607	1.245	FLJ14802; MGC13071	NM_032689	zinc finger protein 607
GABRE FLJ11171	1.241	GABRE FLJ11171	NM_021990 NM_018348	gamma-aminobutyric acid (GABA) A receptor, epsilon hypothetical protein FLJ11171
ZNF675	1.24	FLJ11171 TIZ; TBZF; FLJ36350	NM_018348 NM_138330	hypothetical protein FLJ111/1 zinc finger protein 675
SLC40A1	1.233	FPN1; HFE4; MTP1; IREG1;	NM 014585	solute carrier family 40 (iron-regulated
		MST079; MSTP079; SLC11A3	_	transporter), member 1
OR2A7	1.231	OR2A21; HSDJ0798C17	NM_001005328	olfactory receptor, family 2, subfamily A, member 7
TMEM16J LOC112869	1.22	PIG5; TP53I5	NM_001012302	transmembrane protein 16J
DSCR1L1	1.219	FLJ32446 CSP2; RCN2; MCIP2; hRCN2;	NM_138414 NM_005822	coiled-coil domain containing 101 Down syndrome critical region gene 1-like 1
		ZAKI-4	_	
ZNF419 ZNF197	1.211	ZNF419; FLJ23233 P18; VHLaK; ZNF20; ZNF166; D3S1363E	NM_024691 NM_001024855	zinc finger protein 419A zinc finger protein 197
PLA2G6	1.211	GVI; PLA2; INAD1; iPLA2; PNPLA9; CaI-PLA2	NM_003560	phospholipase A2, group VI (cytosolic, calcium-independent)
RANBP2L1	1.21	RGP5; BS-63; DKFZp686I1842	NM 005054	RANBP2-like and GRIP domain containing 5
KIAA1414	1.207	KIAA1414	NM 019024	KIAA1414 protein
IFIT1L	1.205	bA149I23.6; DKFZp781M1841	NM_001010987	interferon-induced protein with tetratricopeptide repeats 1-like
F7	1.202	F7	NM_000131	coagulation factor VII (serum prothrombin conversion accelerator)
FTSJ2	1.201	A LODGE WARRY OF THE LOT	NM_177442	
AGPAT4	1.194	1-AGPAT4; dJ473J16.2; LPAAT- delta; RP3-473J16.2	NM_001012733	1-acylglycerol-3-phosphate O-acyltransferase 4 (lysophosphatidic acid acyltransferase, delta)
NUP43	1.194	MAL MAAT COTTO	NM_024647	-bathing too C
GSTZ1	1.193	MAI; MAAI; GSTZ1-1; MGC2029	NM_001513	glutathione transferase zeta 1 (maleylacetoacetate isomerase)
EPB41L5	1.192	BE37; FLJ12957; KIAA1548	NM 020909	erythrocyte membrane protein band 4.1 like 5
MXD1	1.191	MAD; MAD1; MGC104659	NM 002357	MAX dimerization protein 1
ZSWIM3	1.19	C20orf164	NM_080752	zinc finger, SWIM-type containing 3
HIP2	1.189	LIG; HYPG; UBE2K	NM_005339	huntingtin interacting protein 2
PCGF6	1.187	MBLR; RNF134; MGC15678; MGC17541	NM_032154	polycomb group ring finger 6
GLUL	1.182	GS; GLNS; PIG43	NM_001033044	glutamate-ammonia ligase (glutamine synthetase)
FBXO9	1.176	FBX9; VCIA1; KIAA0936; NY- REN-57; dJ341E18.2; DKFZp434C0118	NM_033481	F-box protein 9
EIF5	1.175	EIF-5Å	NM_183004	eukaryotic translation initiation factor 5
LOC399900	1.174	LOC399900	NM_001013667	hypothetical gene supported by AK093779
TMPRSS3 ATG16L1	1.169	DFNB8; DFNB10; ECHOS1; TADG12 WDR30; APG16L; ATG16L;	NM_032401 NM_030803	transmembrane protease, serine 3 ATG16 autophagy related 16-like 1 (S.
		FLJ00045; FLJ10035; FLJ10828; FLJ22677	_	cerevisiae)
MLL4	1.167	MLL4; HRX2; MLL2; TRX2; KIAA0304	NM_014727	myeloid/lymphoid or mixed-lineage leukemia 4 chromosome 11 open reading frame 35
C11ORF35 ZDHHC18	1.167 1.164	MGC35138 DKFZp667O2416	NM_173573 NM_032283	zinc finger, DHHC-type containing 18
WASF1	1.164	WAVE; SCAR1; WAVE1;	NM 003931	WAS protein family, member 1
LRP2	1.164	FLJ31482; KIAA0269 gp330	NM 004525	low density lipoprotein-related protein 2
STARD4	1.164	STARD4	NM_139164	START domain containing 4, sterol regulated
MAPK14	1.163	RK; p38; EXIP; Mxi2; CSBP1; CSBP2; CSPB1; PRKM14;	NM_139013	mitogen-activated protein kinase 14
ARHGAP29	1.16	PRKM15; SAPK2A; p38ALPHA PARG1; RP11-255E17.1	NM 004815	Rho GTPase activating protein 29
ST14	1.159	HAI; MTSP1; SNC19; MT-SP1; MTSP-1; PRSS14; TADG-15	NM_021978	suppression of tumorigenicity 14 (colon carcinoma)
KIF19	1.159	KIF19A; FLJ37300	NM_153209	kinesin family member 19
IFITM5	1.158	IFITM5	NM_001025295	interferon induced transmembrane protein 5
FLRT2	1.156	KIAA0405	NM_013231	fibronectin leucine rich transmembrane protein 2
NCOA2	1.151	TIF2; GRIP1; NCoA-2;	NM_006540	nuclear receptor coactivator 2

EPS8L1	1.15	MGC138808 DRC3; EPS8R1; MGC4642;	NM 133180	EPS8-like 1
Ersoli	1.13	PP10566; FLJ20258; MGC23164	NWI_133180	EFS8-like I
SLA/LP	1.149	SLA/LP	NM_016955	soluble liver antigen/liver pancreas antigen
GGA3	1.147	KIAA0154	NM_138619	golgi associated, gamma adaptin ear
DKFZP686I15217	1.146	DKFZp686I15217	NM 207495	containing, ARF binding protein 3 hypothetical protein DKFZp686I15217
LPIN3	1.145	SMP2; LIPN3L; dJ450M14.2;	NM 022896	lipin 3
27 11 10		dJ450M14.3; dJ620E11.2	1111_022050	inpin 5
FANCC	1.141	FA3; FAC; FACC; FLJ14675	NM_000136	Fanconi anemia, complementation group C
RET	1.14	PTC; MTC1; HSCR1; MEN2A;	NM_020975	ret proto-oncogene (multiple endocrine
		MEN2B; RET51; CDHF12; RET- ELE1		neoplasia and medullary thyroid carcinoma 1, Hirschsprung disease)
C13ORF6	1.139	C13orf6; FLJ14906; MGC27058;	NM 032859	abhydrolase domain containing 13
		bA153I24.2; RP11-153I24.2	_	,
RFX4	1.138	NYD-SP10	NM_213594	regulatory factor X, 4 (influences HLA class
SUV39H2	1.133	FLJ23414	NM 024670	II expression) suppressor of variegation 3-9 homolog 2
30 737112	1.133	1 1323414	NW_024070	(Drosophila)
GPR12	1.132	GPCR12; GPCR21; MGC138349;	NM_005288	G protein-coupled receptor 12
		MGC138351		
LOC389118	1.131	LOC389118; PRO34300	NM_001007540	VLLR9392 ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-
ST6GALNAC1	1.131	SIAT7A; HSY11339; ST6GalNAcI	NM_018414	galactosyl-1,3)-N-acetylgalactosaminide
		STOOMINION		alpha-2,6-sialyltransferase 1
PSD	1.13	TYL; KIAA2011	NM_002779	pleckstrin and Sec7 domain containing
HTN3	1.126	HIS2; HTN2; HTN5	NM_000200	histatin 3
RNPEPL1	1.122	FLJ10806; FLJ26675; MGC99544	NM_018226	arginyl aminopeptidase (aminopeptidase B)-
TREML1	1.122	TLT1; TLT-1; PRO3438;	NM 178174	like 1 triggering receptor expressed on myeloid
ALMEI	1.122	GLTL1825; MGC119173;	11111_1/01/7	cells-like 1
		dJ238O23.3		
LGALS2	1.121	HL14; MGC75071	NM_006498	lectin, galactoside-binding, soluble, 2
НААО	1.119	HAO: 3-HAO	NM 012205	(galectin 2) 3-hydroxyanthranilate 3,4-dioxygenase
WBSCR23	1.119	пао, э-пао	NM_012205 NM_025042	5-nyuroxyanurrannate 5,4-uroxygenase
ARTN	1.118	EVN; NBN	NM 057160	artemin
PSCDBP	1.116	HE; B3-1; CASP; CYBR; CYTIP	NM_004288	pleckstrin homology, Sec7 and coiled-coil
			_	domains, binding protein
FAM91A1	1.115	FLJ23790; DKFZp666B104	NM_144963	family with sequence similarity 91, member
PCDHA11	1.114	CNR7; CNRN7; CNRS7; CRNR7;	NM 031861	A1 protocadherin alpha 11
TCDIIATI	1.114	PCDH-ALPHA11	TVWI_031801	protocadiici iii aipiia 11
MYH3	1.107	HEMHC; SMHCE; MYHSE1;	NM_002470	myosin, heavy polypeptide 3, skeletal muscle,
		MYHC-EMB		embryonic
C8ORF37	1.105	FLJ30600	NM_177965	chromosome 8 open reading frame 37
SPTB	1.104	HSpTB1	NM_001024858	spectrin, beta, erythrocytic (includes spherocytosis, clinical type I)
TSHB	1.103	TSH-BETA	NM 000549	thyroid stimulating hormone, beta
RFNG	1.102	RFNG	NM_002917	radical fringe homolog (Drosophila)
LOC390667	1.095	LOC390667	NM_001013658	similar to Neuronal pentraxin II precursor
17 4 2 1	1.004	WARL MODIFIES	ND 4 152240	(NP-II) (NP2)
KA21 TAS2R4	1.094	KA21; MGC45562 T2R4	NM_152349 NM_016944	keratin 222 pseudogene taste receptor, type 2, member 4
MMP28	1.091	MM28; MMP25	NM 001032278	matrix metallopeptidase 28
C1ORF157	1.09	FLJ40343; MGC120329;	NM_182579	chromosome 1 open reading frame 157
		MGC120330; MGC120332		
CRYM	1.09	THBP; DFNA40	NM_001014444	crystallin, mu
CLUL1 LTBP1	1.088	RA337M LTBP1	NM_199167 NM_206943	clusterin-like 1 (retinal) latent transforming growth factor beta binding
LIBII	1.064	LIBri	NWI_200943	protein 1
NUP155	1.083	N155; KIAA0791	NM_153485	nucleoporin 155kDa
CMIP	1.081	CMIP; KIAA1694	NM_198390	c-Maf-inducing protein
PLEC1	1.081	HD1; PCN; EBS1; EBSO; PLTN;	NM_201380	plectin 1, intermediate filament binding
FLJ36492	1.08	PLEC1b FLJ36492; MGC126634	NM 182568	protein 500kDa hypothetical protein FLJ36492
GHRHR	1.078	GRFR; GHRFR; GHRHRpsv	NM 001009824	growth hormone releasing hormone receptor
ARHGAP11A	1.078	KIAA0013; MGC70740; GAP (1-	NM_014783	Rho GTPase activating protein 11A
		12)	_	• •
PRKCABP	1.074	PRKCABP; MGC15204	NM_012407	protein interacting with PRKCA 1
FYTTD1	1.069	DKFZp761B1514	NM_001011537	forty-two-three domain containing 1 histone 1. H2bi
HIST1H2BI	1.067			
OR 52 A 4	1.066	H2B/k; H2BFK OR52A4	NM_003525 NM_001005222	
OR52A4	1.066 1.064	OR52A4	NM_003525 NM_001005222	olfactory receptor, family 52, subfamily A, member 4
OR52A4 TIGD1		OR52A4 EEYORE	NM_001005222 NM_145702	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1
	1.064	OR52A4	NM_001005222	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein
TIGD1	1.064 1.059	OR52A4 EEYORE	NM_001005222 NM_145702	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal
TIGD1 LOC400986	1.064 1.059 1.058	OR52A4 EEYORE LOC400986	NM_001005222 NM_145702 NM_001010914	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA.
TIGD1	1.064 1.059	OR52A4 EEYORE	NM_001005222 NM_145702	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal
TIGD1 LOC400986 SPG7 SUCNR1	1.064 1.059 1.058 1.057	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A	1.064 1.059 1.058 1.057 1.044 1.04	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A MAP4	1.064 1.059 1.058 1.057 1.044 1.04 1.035	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_030884	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4
TIGD1 LOC400986 SPG7 SUCNRI ELA2A MAP4 DLX3	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_033440 NM_005220	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC861; DKFZp779A1753 TDO KIAA0513	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_030884 NM_005220 NM_014732	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513
TIGD1 LOC400986 SPG7 SUCNRI ELA2A MAP4 DLX3	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_033440 NM_005220	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3
SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513 GLYAT KRTAP10-10	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033 0.972 0.97	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO KIAA0513 CAT; GAT; ACGNAT KAP10.10; KAP18.10; KRTAP18.10	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_035844 NM_005220 NM_014732 NM_005838 NM_181688	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513 glycine-N-acyltransferase keratin associated protein 10-10
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513 GLYAT KRTAP10-10	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033 0.972 0.97	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO KIAA0513 CAT; GAT; ACGNAT KAP10.10; KAP18.10; KRTAP18.10 UNQ9217	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_030884 NM_005220 NM_014732 NM_005838 NM_181688 NM_205548	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513 glycine-N-acyltransferase keratin associated protein 10-10 AASA9217
SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513 GLYAT KRTAP10-10	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033 0.972 0.97	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO KIAA0513 CAT; GAT; ACGNAT KAP10.10; KAP18.10; KRTAP18.10 UNQ9217 HB2A; KAP1.1; KAP1.6;	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_035844 NM_005220 NM_014732 NM_005838 NM_181688	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513 glycine-N-acyltransferase keratin associated protein 10-10
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513 GLYAT KRTAP10-10	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033 0.972 0.97	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO KIAA0513 CAT; GAT; ACGNAT KAP10.10; KAP18.10; KRTAP18.10 UNQ9217 HB2A; KAP1.1; KAP1.6; KAP1.7; KAP1.18;	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_030884 NM_005220 NM_014732 NM_005838 NM_181688 NM_205548	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513 glycine-N-acyltransferase keratin associated protein 10-10 AASA9217
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513 GLYAT KRTAP10-10	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033 0.972 0.97	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO KIAA0513 CAT; GAT; ACGNAT KAP10.10; KAP18.10; KRTAP18.10 UNQ9217 HB2A; KAP1.1; KAP1.6;	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_030884 NM_005220 NM_014732 NM_005838 NM_181688 NM_205548	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513 glycine-N-acyltransferase keratin associated protein 10-10 AASA9217
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513 GLYAT KRTAP10-10 UNQ9217 KRTAP1-1	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033 0.972 0.97 0.964 0.961	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO KIAA0513 CAT; GAT; ACGNAT KAP10.10; KAP18.10; KRTAP18-10; KRTAP18-10; KRTAP18-10; KRTAP18-10; KRTAP1-1; KAP1.15; KAP1.7; KAP1.17; KAP1.18; KRTAP1-1, JKAP1.17; KRTAP1-1 TSKS; TSKS1 MRT3; FREUD-1; FLJ20241;	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_030884 NM_005220 NM_014732 NM_005838 NM_181688 NM_005548 NM_030967	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513 glycine-N-acyltransferase keratin associated protein 10-10 AASA9217 keratin associated protein 1-1
TIGD1 LOC400986 SPG7 SUCNR1 ELA2A MAP4 DLX3 KIAA0513 GLYAT KRTAP10-10 UN09217 KRTAP1-1	1.064 1.059 1.058 1.057 1.044 1.04 1.035 1.034 1.033 0.972 0.97 0.964 0.961	OR52A4 EEYORE LOC400986 CAR; PGN; CMAR; MGC126331; MGC126332 GPR91 ELA2A; ELA1; PE-1 MGC8617; DKFZp779A1753 TDO KIAA0513 CAT; GAT; ACGNAT KAP10.10; KAP18.10; KRTAP18-10, KRTAP18-10, KRTAP18.10 UNQ9217 HB2A; KAP1.1; KAP1.6; KAP1.7; KAP1.1a; KAP1.1b; KRTAP1.1 TSKS; TSKS1	NM_001005222 NM_145702 NM_001010914 NM_199367 NM_033050 NM_033440 NM_030884 NM_005220 NM_014732 NM_005838 NM_181688 NM_205548 NM_030967 NM_021733	olfactory receptor, family 52, subfamily A, member 4 tigger transposable element derived 1 synonym: HEM1; Homo sapiens protein immuno-reactive with anti-PTH polyclonal antibodies (LOC400986), mRNA. spastic paraplegia 7, paraplegin (pure and complicated autosomal recessive) succinate receptor 1 elastase 2A microtubule-associated protein 4 distal-less homeobox 3 KIAA0513 glycine-N-acyltransferase keratin associated protein 10-10 AASA9217 keratin associated protein 1-1

INPOINT Bold	STAG3	0.936	STAG3	NM_012447	stromal antigen 3
MILI2	TNPO1 GUCY1A2	0.936	MIP; TRN; IPO2; MIP1; KPNB2 GC-SA2: GUC1A2	NM_002270 NM_000855	transportin 1
FILE					myeloid/lymphoid or mixed-lineage leukemia
MCC11906, CPIT-7ale.	F11	0.92	FXI	NM_000128	coagulation factor XI (plasma thromboplastin
REAL Self, MCC 141967; and adelytin repeats ACC 141967; NCC 1419			MGC119016; CPI17-like	_	subunit 14D
CFISTOR 0.979	UACA	0.919	KIAA1561; MGC141967;	NM_018003	
MCG1499_STRSIA_VV	CIB3	0.919	KIP3; MGC96922; MGC138405;	NM_054113	calcium and integrin binding family member 3
LPTFLI	ST8SIA4	0.919		NM_175052	
COURT 13 0.014					
FL4299					
FILIPATED PREDITE NM 015725 productive properties of collisions NM 02425 productive properties NM 02426 productive productive properties NM 02426 productive prod					
FILESPATE 0.91 SERSIS FILESPATE NM 004855 pobosen-file 1					
FLEDOAT SELE FERC NM 021937 cularyotic clongation factor, science/steine-particle Complex Comp		0.91			
SPA-Specific SPA-	CUBN	0.907		NM_001081	cubilin (intrinsic factor-cobalamin receptor)
MGC20339, RPS-8F6A22			,	_	tRNA-specific
MGC111103	1		MGC20339; RP5-876A24.2	_	*
CATSPER2			MGC111103	_	• • • • • • • • • • • • • • • • • • • •
CATSPER2					
ASCC3 0.891 RNAH; HELIC; ASC1; p200; MC 022091 activating signal cointegrator 1 complex subuni 3 Sub	PPFIAT	0.894	LIP1; LIP.1; LIPRIN; MGC26800	NM_1//423	polypeptide (PTPRF), interacting protein (liprin), alpha 1
MGC26074; D467N11.1; subunit 3 Subunit 3 Subunit 3 Company Compa					
December Comment Com	ASCC3	0.891	MGC26074; DJ467N11.1;	NM_022091	
DKF2p572(163 PROPI NN 006261 prophet of Pit1, paired-like homeodomain transcription factor	FLJ42102	0.888	FLJ42102	NM_001001680	FLJ42102 protein
PROP 0.884	ZNF658	0.886		NM_033160	zinc finger protein 658
ATR	PROP1	0.884		NM_006261	
BICD	ATR	0.882	FRP1; MEC1; SCKL; SCKL1	NM 001184	
RLHL4					
BHMT					
MAP4K3					
MAWBB 0.868 MAWBP, FLJ35507 NM 001033083 MAWD binding protein					mitogen-activated protein kinase kinase kinase
SSHI					
BigR: NECLI; TSLLI; Necl-1; SMLI; Necl-1; SMLI; Necl-1; SMCAMB; PLIJ0698 NM_021189 mimunoglobulin superfamily, member 4B synCAMB; PLIJ0698 NM_0218535 protein kinase C, beta 1					
SynCAM3, FLJ10698 PRCB, PRKCB, PRKCB, PRKCB, PKRCB, PK					
MAGII			synCAM3; FLJ10698 PKCB; PRKCB; PRKCB2;	_	
NPAS2	MAGI1	0.862		NM_001033057	membrane associated guanylate kinase, WW
DCG	NPAS2	0.861	MOP4; PASD4; FLJ23138;	NM_002518	
CCBE 0.851	IQCG	0.853	FLJ11667; FLJ23571;	NM_032263	IQ motif containing G
UNT	CCRF1	0.851		NM 133450	collagen and calcium hinding EGE domains 1
RSHL2					
NAT2					
PRKAA1				_	acetyltransferase)
MGCs7364					
ABCB4	PRKAA1	0.844		NM_206907	
BLOC1S2	ABCB4	0.843	MDR3; PGY3; ABC21; MDR2/3;	NM_000443	ATP-binding cassette, sub-family B
ASTN2	BLOC1S2	0.84	BLOS2; FLJ30135; MGC10120;	NM_001001342	biogenesis of lysosome-related organelles
RBL2 0.832 Rb2; P130; FLJ26459 NM_005611 retinoblastoma-like 2 (p130) DNM1 0.831 DNM NM_004408 dynamin 1 FA2H 0.83 FAAH; FAXDC1; FLJ25287 NM_024306 fatty acid 2-hydroxylase HOXA11 0.829 HOX1; HOX11 NM_005523 homeobox A11 CPZ 0.826 MGC99682 NM_01014447 carboxypeptidase Z NDUFB4 0.826 B15; CI-B15; MGC5105 NM_004547 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa MSRB3 0.821 FLJ36866; DKFZp686C1178 NM_001031679 methionine sulfoxide reductase B3 KCNH2 0.819 ERG1; HERG; LQT2; SQT1; HERG; LQT2; SQT1; HERG; LV11.1 no172056 potassium voltage-gated channel, subfamily Hergel; LV11.1 MOCS1 0.818 MIG11; MOCOD; MOCS1A; MOCS1A; MOCS1A; MOCS1B; KIAA0381 NM_138928 molybdenum cofactor synthesis 1 PEX11A 0.816 MGC138534; PEX11-ALPHA NM_003847 peroxisomal biogenesis factor 11A UNQ2541 0.815 UNQ2541 NM_03347 MSFL2541 C60RF167 0.814 FLJ46180;	GABRD	0.839		NM_000815	gamma-aminobutyric acid (GABA) A
DNM1					astrotactin 2
FA2H					
HOXA11					
CPZ 0.826 MGC99682 NM_001014447 carboxypeptidase Z NDUFB4 0.826 B15; C1-B15; MGC5105 NM_004547 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa MSRB3 0.821 FLJ36866; DKFZp686C1178 NM_001031679 methionine sulfoxide reductase B3 KCNH2 0.819 ERG1; HERG; LQT2; SQT1; HERG1; KV11.1 NM_172056 potassium voltage-gated channel, subfamily H (eag-related), member 2 MOCS1 0.818 MIG11; MOCOD, MOCS1A; MOCS1B; KIAA0381 NM_138928 molybdenum cofactor synthesis 1 PEX11A 0.816 MGC138534; PEX11-ALPHA NM_03847 peroxisomal biogenesis factor 11A UNQ2541 0.815 UNQ2541 NM_203347 MSFL2541 C60RF167 0.814 FLJ46180; KIAA1900; dJ39B17.2; DKFZp781C2113; DKFZp786C20164 NM_198468 chromosome 6 open reading frame 167					
NDUFB4 0.826 B15; CI-B15; MGC5105 NM_004547 NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa					
KCNH2	NDUFB4	0.826	B15; CI-B15; MGC5105	NM_004547	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa
HERG1; Kv11.1 (eag-related), member 2					
PEX11A 0.816 MGC138534; PEX11-ALPHA NM 003847 peroxisomal biogenesis factor 11A UNQ2541 0.815 UNQ2541 NM 203347 MSFL2541 C6ORF167 0.814 FLJ46180; KIAA1900; dJ39B17.2; DKFZp781C2113; DKFZp686C20164 NM_198468 chromosome 6 open reading frame 167 DKFZp686C20164 DKFZp686C20164 Chromosome 6 open reading frame 167	MOCS1	0.818	HERG1; Kv11.1 MIG11; MOCOD; MOCS1A;	NM_138928	
UNQ2541 0.815 UNQ2541 NM 203347 MSFL2541 C6ORF167 0.814 FLJ46180; KIAA1900; NM_198468 chromosome 6 open reading frame 167 d139B17.2; DKFZp781C2113; DKFZp686C20164 FLJ46180; MSFL2541 NM_198468 Chromosome 6 open reading frame 167	PEX11A	0.816		NM_003847	peroxisomal biogenesis factor 11A
dJ39B17.2; DKFZp781C2113; DKFZp686C20164	UNQ2541	0.815	UNQ2541		MSFL2541
	C6ORF167	0.814	dJ39B17.2; DKFZp781C2113;	NM_198468	chromosome 6 open reading frame 167
	MCAM	0.814		NM_006500	melanoma cell adhesion molecule

FAM112B	0.814	FLJ32942	NM_144594	family with sequence similarity 112, member
PLEKHQ1	0.813	PP1628; pp9099; FLJ38884;	NM_025201	B pleckstrin homology domain containing,
PPIL6	0.813	DKFZp761K2312 MGC41939; bA425D10.6;	NM_173672	family Q member 1 peptidylprolyl isomerase (cyclophilin)-like 6
GATA2	0.807	dJ919F19.1 NFE1B; MGC2306	NM 032638	GATA binding protein 2
EBF	0.806	COE1; EBF1; OLF1; O/E-1	NM 024007	early B-cell factor
KLK7	0.806	SCCE: PRSS6	NM 139277	kallikrein 7 (chymotryptic, stratum corneum)
NOX5	0.806	NOX5A; NOX5B	NM_024505	NADPH oxidase, EF-hand calcium binding domain 5
COL13A1	0.805	COL13A1	NM_080805	collagen, type XIII, alpha 1
KARS	0.802	KARS2; KIAA0070	NM_005548	lysyl-tRNA synthetase
USP48	0.802	USP31; RAP1GA1; MGC14879; MGC132556; DKFZp762M1713	NM_001032730	ubiquitin specific peptidase 48
DNTTIP2	0.8	ERBP; TdIF2; HSU15552; LPTS- RP2; RP4-561L24.1	NM_014597	deoxynucleotidyltransferase, terminal, interacting protein 2
SEZ6	0.8	ZC3HC1	NM_178860	seizure related 6 homolog (mouse)
BTN3A3 PTPRE	0.799 0.798	BTF3 PTPE; HPTPE; DKFZp313F1310; R-PTP-EPSILON	NM_006994 NM_006504	butyrophilin, subfamily 3, member A3 protein tyrosine phosphatase, receptor type, E
FLJ45121	0.797	FLJ45121	NM 207451	FLJ45121 protein
C9ORF132	0.795	EEIG1; C9orf132; MGC50853;	NM 203305	family with sequence similarity 102, member
		bA203J24.7		A
WDR63	0.793	FLJ30067; NYD-SP29; RP11- 507C22.2	NM_145172	WD repeat domain 63
DOK4	0.793	FLJ10488	NM_018110	docking protein 4
SELO	0.792	SELO; MGC131879	NM_031454	selenoprotein O
SEZ6L2 HIST1H2BJ	0.785	PSK-1; FLJ90517 H2B/r; H2BFR	NM_201575 NM_021058	seizure related 6 homolog (mouse)-like 2 histone 1, H2bj
C3ORF34	0.782	MGC14126	NM_021058 NM_032898	chromosome 3 open reading frame 34
RWDD2	0.782	MGC14126 MGC13523; MGC138208;	NM_032898 NM_033411	RWD domain containing 2
SLC35A2	0.78	dJ747H23.2 UGT; UGAT; UGT1; UGT2;	NM 005660	solute carrier family 35 (UDP-galactose
		UGTL; UGALT	_	transporter), member A2
PPFIA3	0.777	LPNA3; KIAA0654; MGC126567; MGC126569	NM_003660	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3
C14ORF28	0.774	DRIP1; c14 5270	NM 001017923	chromosome 14 open reading frame 28
CARS	0.773	CYSRS; MGC:11246	NM 001751	cysteinyl-tRNA synthetase
ACADS	0.772	SCAD; ACAD3	NM_000017	acyl-Coenzyme A dehydrogenase, C-2 to C-3
			_	short chain
GRHL3	0.771	SOM; TFCP2L4; MGC46624	NM_021180	grainyhead-like 3 (Drosophila)
PPM1F	0.771	FEM-2; POPX2; hFEM-2; CaMKPase; KIAA0015	NM_014634	protein phosphatase 1F (PP2C domain containing)
CYP51A1	0.768	LDM; CP51; CYP51; CYPL1; P450L1; P450-14DM	NM_000786	cytochrome P450, family 51, subfamily A, polypeptide 1
KRT17	0.768	PC; K17; PC2; PCHC1	NM_000422	keratin 17
KCTD13	0.767	PDIP1; FKSG86; POLDIP1	NM_178863	potassium channel tetramerisation domain containing 13
LOC196463	0.766	LOC196463	NM_173542	hypothetical protein LOC196463
SLC25A20	0.766	CAC; CACT	NM_000387	solute carrier family 25 (carnitine/acylcarnitine translocase), member
C1ORF33	0.766	dJ657E11.4	NM 016183	20 chromosome 1 open reading frame 33
ADC	0.765	ODC-p; ODC1L; KIAA1945	NM 052998	arginine decarboxylase
EGFL6	0.762	W80; MAEG; DKFZp564P2063	NM 015507	EGF-like-domain, multiple 6
CRI1	0.761	EID1; EID-1; RBP21; PTD014; C15orf3; PNAS-22; IRO45620;	NM_014335	CREBBP/EP300 inhibitor 1
WDR23	0.759	MGC138883; MGC138884 GL014; PRO2389;	NM_025230	WD repeat domain 23
ZDHHC24	0.759	DKFZp779A1629 ZDHHC24	NM 207340	zinc finger, DHHC-type containing 24
PNKD	0.755	MR1; PDC; DYT8; FPD1; MR-1; BRP17; FKSG19; TAHCCP2; KIAA1184; KIPP1184; MGC31943; DKFZp564N1362	NM_022572	paroxysmal nonkinesiogenic dyskinesia
CPA4	0.755	CPA3	NM_016352	carboxypeptidase A4
C10RF24	0.755	Clorf24	NM_022083	synonyms: NIBAN, FLJ38228; isoform 2 is encoded by transcript variant 2; cell growth inhibiting protein 39; Homo sapiens chromosome 1 open reading frame 24 (Clorf24), transcript variant 2, mRNA.
POU2F3	0.754	OCT11; PLA-1; Epoc-1; Skn-1a;	NM_014352	POU domain, class 2, transcription factor 3
RRAD	0.751	FLJ40063; MGC126698 RAD; RAD1; REM3	NM 004165	Ras-related associated with diabetes
KIAA1324	0.75	RP11-352P4.1	NM 020775	KIAA1324
BICD2	0.748	KIAA0699; bA526D8.1	NM_001003800	bicaudal D homolog 2 (Drosophila)
HTR3A	0.747	HTR3; 5HT3R; 5-HT-3; 5-HT3A; 5-HT3R	NM_000869	5-hydroxytryptamine (serotonin) receptor 3A
ABCA8	0.747	KIAA0822	NM_007168	ATP-binding cassette, sub-family A (ABC1), member 8
C1ORF83	0.742	FLJ32112; FLJ39169; RP4- 758J24.3	NM_153035	chromosome 1 open reading frame 83
UPF3B	0.735	UPF3X; HUPF3B; RENT3B	NM_080632	UPF3 regulator of nonsense transcripts homolog B (yeast)
PRKCB1	0.73	PKCB; PRKCB; PRKCB2; MGC41878; PKC-beta	NM_212535	protein kinase C, beta 1
RIPK5	0.723	RIP5; DustyPK; HDCMD38P; KIAA0472	NM_015375	receptor interacting protein kinase 5
KLHL13	0.721	BKLHD2; FLJ10262; KIAA1309; MGC74791	NM_033495	kelch-like 13 (Drosophila)
			NM 001001557	growth differentiation factor 6
GDF6	0.719	CDMP2		
HSD17B2	0.714	HSD17; EDH17B2	NM_002153	hydroxysteroid (17-beta) dehydrogenase 2

NOXO1	0.709	P41NOX; P41NOXA; P41NOXB; P41NOXC; SH3PXD5; MGC20258	NM_144603	NADPH oxidase organizer 1
NUDT6	0.707	gfg; bFGF; FGF-2; gfg-1;	NM_198041	nudix (nucleoside diphosphate linked moiety
RAB11FIP4	0.707	ASFGF2; FGF-AS; FGF2AS FLJ00131; KIAA1821; MGC11316; MGC126566; RAB11-FIP4	NM_032932	X)-type motif 6 RAB11 family interacting protein 4 (class II)
CD36	0.702	FAT; GP4; GP3B; GPIV; PASIV; SCARB3	NM_001001548	CD36 molecule (thrombospondin receptor)
APS	0.702	APS	NM_020979	SH2B adaptor protein 2
PTGER1	0.7	EP1	NM_000955	prostaglandin E receptor 1 (subtype EP1), 42kDa
CRH AHNAK	0.7	CRF AHNAKRS; MGC5395	NM_000756 NM_024060	corticotropin releasing hormone AHNAK nucleoprotein (desmoyokin)
STARD8	0.698	KIAA0189; DKFZp686H1668	NM_014725	START domain containing 8
FLJ10260	0.692	SLFN3; FLJ10260	NM_018042	schlafen family member 12
APBB1IP	0.69	RIAM; INAG1; PREL1; RARP1	NM_019043	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein
MGC31967 SERPING1	0.689	MGC31967; RP11-331F9.6 C1IN; C1NH; HAE1; HAE2;	NM_174923 NM_000062	coiled-coil domain containing 107 serpin peptidase inhibitor, clade G (C1
		C1INH	_	inhibitor), member 1, (angioedema, hereditary)
RARRES3	0.687	RIG1; TIG3; HRASLS4; MGC8906	NM_004585	retinoic acid receptor responder (tazarotene induced) 3
C4ORF18	0.685	AD021; AD036; FLJ38155; DKFZp434L142	NM_016613	chromosome 4 open reading frame 18
TGFB1I1	0.684	HIC5; ARA55; HIC-5; TSC-5	NM_015927	transforming growth factor beta 1 induced transcript 1
ETV1	0.684	ER81; MGC104699; MGC120533; MGC120534; DKFZp781L0674	NM_004956	ets variant gene 1
ATG4A	0.679	APG4A; AUTL2	NM_052936	ATG4 autophagy related 4 homolog A (S. cerevisiae)
IL11RA	0.677	MGC2146	NM_004512	interleukin 11 receptor, alpha
C1ORF116	0.677	SARG; MGC2742; MGC4309; FLJ36507; DKFZp666H2010	NM_023938	chromosome 1 open reading frame 116
CNN1	0.674	SMCC; Sm-Calp	NM_001299	calponin 1, basic, smooth muscle
SYAP1	0.666	PRO3113; FLJ14495; FLJ44185; DKFZp686K221	NM_032796	synapse associated protein 1, SAP47 homolog (Drosophila)
DOC1	0.664	DOC1; GIP90	NM_182909	downregulated in ovarian cancer 1
MYL9	0.663	LC20; MLC2; MRLC1; MYRL2; MGC3505	NM_006097	myosin, light polypeptide 9, regulatory
MEIS2	0.659	MRG1; MGC2820; HsT18361	NM_020149	Meis1, myeloid ecotropic viral integration site 1 homolog 2 (mouse)
C20ORF18	0.654	XAP4; RBCK2; RNF54; ZRANB4; C20orf18; UBCE7IP3	NM_006462	RanBP-type and C3HC4-type zinc finger containing 1
TNFRSF10A	0.652	DR4; APO2; CD261; MGC9365; TRAILR1; TRAILR-1	NM_003844	tumor necrosis factor receptor superfamily, member 10a
GSTM3	0.652	GST5; GSTB; GTM3; GSTM3-3; MGC3310; MGC3704	NM_000849	glutathione S-transferase M3 (brain)
F2RL2	0.652	PAR3	NM_004101	coagulation factor II (thrombin) receptor-like 2
FBXO32	0.645	Fbx32; MAFbx; ATROGIN1; FLJ32424; MGC33610	NM_148177	F-box protein 32
DKFZP686A01247	0.643	DKFZP686A01247; MGC72127; DKFZp434l0312; DKFZp686B2470; DKFZp686G2094; DKFZp781C1754; DKFZp781I1455; DKFZp686A01247; DKFZp68G018243	NM_014988	hypothetical protein
PTGDS	0.638	PDS; PGD2; PGDS; PGDS2	NM_000954	prostaglandin D2 synthase 21kDa (brain)
FLI1 AMPD3	0.637 0.633	EWSR2; SIC-1 DUT	NM_002017 NM_001025389	Friend leukemia virus integration 1 adenosine monophosphate deaminase
CDKN1A	0.629	P21; CIP1; SDI1; WAF1; CAP20;	NM_078467	(isoform E) cyclin-dependent kinase inhibitor 1A (p21,
GNA15	0.628	CDKN1; MDA-6; p21CIP1 GNA16	NM_002068	Cip1) guanine nucleotide binding protein (G protein), alpha 15 (Gq class)
HEXA	0.626	TSD; MGC99608	NM_000520	hexosaminidase A (alpha polypeptide)
ACPP CFH	0.626 0.616	PAP; ACP3; ACP-3 FH; HF; HF1; HF2; HUS; FHL1;	NM_001099 NM_001014975	acid phosphatase, prostate complement factor H
BHMT2	0.615	CFHL3; MGC88246 FLJ20001	NM 017614	betaine-homocysteine methyltransferase 2
AK5	0.612	AK6; MGC33326	NM_174858	adenylate kinase 5
ATP1B2	0.609	AMOG	NM_001678	ATPase, Na+/K+ transporting, beta 2 polypeptide
IDS	0.607	MPS2; SIDS	NM_000202	iduronate 2-sulfatase (Hunter syndrome)
HOXA10	0.605	PL; HOX1; HOX1H; HOX1.8; MGC12859	NM_153715	homeobox A10
ELLS1	0.604	Ells1; FLJ25903	NM_152793	chromosome 7 open reading frame 41
PTMA DOC1	0.602 0.601	TMSA; MGC104802 DOC1; GIP90	NM_002823 NM_014890	prothymosin, alpha (gene sequence 28) downregulated in ovarian cancer 1
AHNAK	0.598	AHNAKRS; MGC5395	NM_024060	AHNAK nucleoprotein (desmoyokin)
MYEOV	0.597	OCIM	NM_138768	myeloma overexpressed gene (in a subset of
LRP10	0.597	LRP9; MST087; MGC8675; MSTP087; MGC142274;	NM_014045	t(11;14) positive multiple myelomas) low density lipoprotein receptor-related protein 10
COLUM	0.505	MGC142276; DKFZP564C1940	NM 000620	oollogon tung VI oleho 1
COL11A1 A4GALT	0.595 0.592	STL2; COLL6; CO11A1 P1; PK; A14GALT; A4GALT1	NM_080629 NM_017436	collagen, type XI, alpha 1 alpha 1,4-galactosyltransferase (globotriaosylceramide synthase)
IL6ST	0.592	CD130; GP130; CDw130; IL6R- beta; GP130-RAPS	NM_002184	interleukin 6 signal transducer (gp130, oncostatin M receptor)
C9ORF89	0.589	BinCARD; MGC11115;	NM_032310	chromosome 9 open reading frame 89

T.C.) 12	0.550	MGC110898; bA370F5.1	NR 400054	2/2 1 ::1
TGM2	0.578	TG2; TGC	NM_198951	transglutaminase 2 (C polypeptide, protein- glutamine-gamma-glutamyltransferase)
TRPM4	0.578	TRPM4B; FLJ20041	NM_017636	transient receptor potential cation channel, subfamily M, member 4
BMP1	0.577	PCP; TLD; PCOLC; FLJ44432	NM_006129	bone morphogenetic protein 1
ABCC3	0.574		NM_020037	
PTPRN	0.566	IA2; IA-2; ICA512; R-PTP-N; FLJ16131; IA-2/PTP	NM_002846	protein tyrosine phosphatase, receptor type, N
NRG1	0.557	GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF	NM_013960	neuregulin 1
H2AFY	0.542	H2A.y; H2A/y; H2AFJ; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2	NM_138609	H2A histone family, member Y
ATP2B4	0.537	MXRA1; PMCA4; ATP2B2; DKFZp686M088; DKFZp686G08106	NM_001684	ATPase, Ca++ transporting, plasma membrane 4
SGCE	0.526	ESG; DYT11	NM_003919	sarcoglycan, epsilon
MYO1D	0.518	myr4; KIAA0727	NM_015194	myosin ID
ALCAM	0.517	MEMD; CD166; FLJ38514; MGC71733	NM_001627	activated leukocyte cell adhesion molecule
TICAM1	0.515	TRIF; PRVTIRB; TICAM-1; MGC35334	NM_182919	toll-like receptor adaptor molecule 1
IL1A	0.513	IL1; IL-1A; IL1F1; IL1-ALPHA	NM_000575	interleukin 1, alpha
STAT1	0.495	ISGF-3; STAT91; DKFZp686B04100	NM_139266	signal transducer and activator of transcription 1, 91kDa
FLJ90166	0.493	FLJ90166; MGC126807; MGC126809; RP4-685L9.2	NM_153360	adenomatosis polyposis coli down-regulated 1-like
CEECAM1	0.474	CerCAM; GLT25D3; MGC149620; MGC149621	NM_016174	cerebral endothelial cell adhesion molecule 1
IL24	0.471	C49A; FISP; MDA7; ST16; IL-24; IL10B; Mob-5; mda-7	NM_006850	interleukin 24
DHRS3	0.461	SDR1; RDH17; Rsdr1; retSDR1	NM_004753	dehydrogenase/reductase (SDR family) member 3
JAK1	0.46	JAK1A; JAK1B	NM_002227	Janus kinase 1 (a protein tyrosine kinase)
DEGS1	0.457	MLD; DEGS; DES1; Des-1; FADS7; MIG15; MGC5079	NM_003676	degenerative spermatocyte homolog 1, lipid desaturase (Drosophila)
NRP1	0.447	NRP; CD304; VEGF165R; DKFZp781F1414; DKFZp686A03134	NM_001024629	neuropilin 1
HSDL2	0.426	C9orf99; FLJ25855; MGC10940	NM_032303	hydroxysteroid dehydrogenase like 2
COMT	0.417	COMT	NM_000754	catechol-O-methyltransferase
DFNA5	0.407	ICERE-1	NM_004403	deafness, autosomal dominant 5
THRA	0.404	AR7; EAR7; ERBA; ERBA1; NR1A1; THRA1; THRA2; THRA3; EAR-7.1; EAR-7.2; ERB-T-1; MGC43240; c-ERBA-1; MGC000261; ERBA-ALPHA; TR-ALPHA-1; c-ERBA-ALPHA-2	NM_003250	thyroid hormone receptor, alpha (erythroblastic leukemia viral (v-erb-a) oncogene homolog, avian)
GPR177	0.401	MRP; WLS; C1orf139; FLJ23091; MGC14878; MGC131760	NM_024911	G protein-coupled receptor 177
LIMA1	0.395	EPLIN; SREBP3; MGC131726	NM_016357	LIM domain and actin binding 1
LOC388610	0.381	LOC388610	NM_001013642	hypothetical LOC388610
ECM1 S100A4	0.368 0.359	ECM1 42A; 18A2; CAPL; MTS1; P9KA;	NM_004425 NM_002961	extracellular matrix protein 1 S100 calcium binding protein A4
S100A4	0.358	PEL98 42A; 18A2; CAPL; MTS1; P9KA;	NM_002961	S100 calcium binding protein A4
FAP	0.351	PEL98 FAPA; DPPIV; SEPRASE;	NM_004460	fibroblast activation protein, alpha
EDG2	0.346	DKFZp686G13158 LPA1; LPAR1; edg-2; vzg-1;	NM_001401	endothelial differentiation, lysophosphatidic
CCL20	0.333	Gpcr26; Mrec1.3; rec.1.3 CKb4; LARC; ST38; MIP3A;	NM_004591	acid G-protein-coupled receptor, 2 chemokine (C-C motif) ligand 20
SPARC	0.333	MIP-3a; SCYA20 ON	NM_003118	secreted protein, acidic, cysteine-rich
TGM2	0.313	TG2; TGC	NM_004613	(osteonectin) transglutaminase 2 (C polypeptide, protein-
HS3ST3A1	0.29	30ST3A1; 3OST3A1	NM_006042	glutamine-gamma-glutamyltransferase) heparan sulfate (glucosamine) 3-O-
CASP4	0.228	TX; ICH-2; Mih1/TX; ICEREL-II; ICE(rel)II	NM_033306	sulfotransferase 3A1 caspase 4, apoptosis-related cysteine peptidase