

2009

3rd International Biocuration Conference

April 16-19 Berlin, Germany

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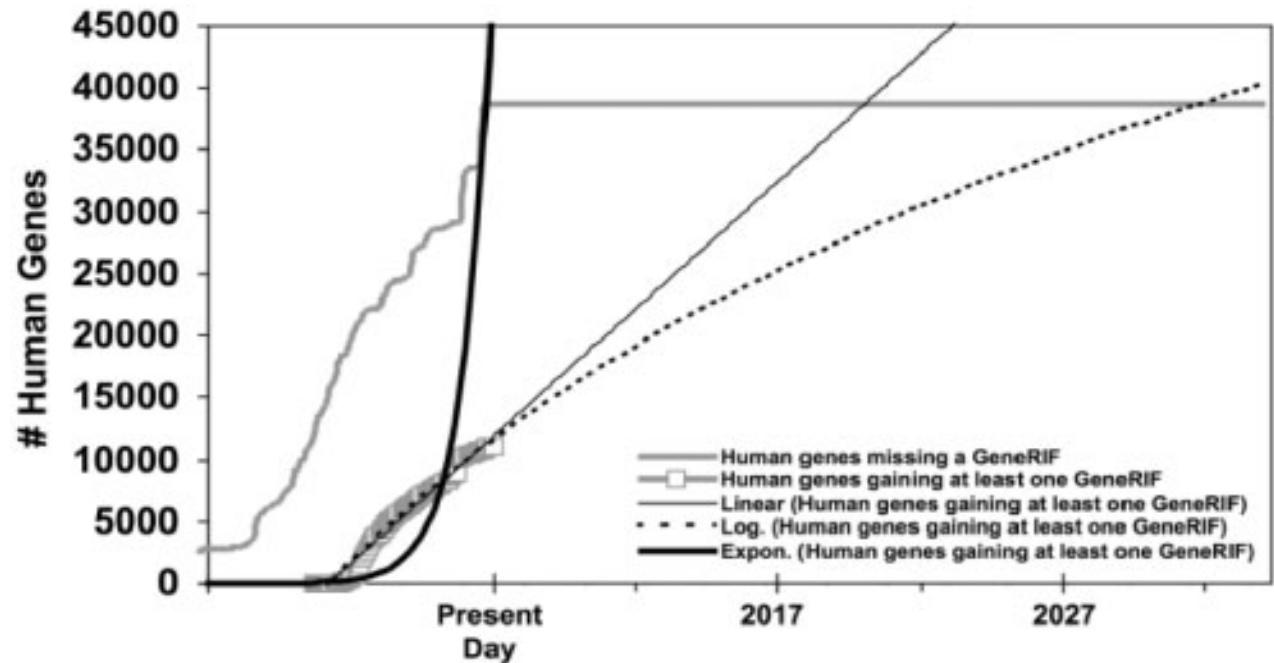
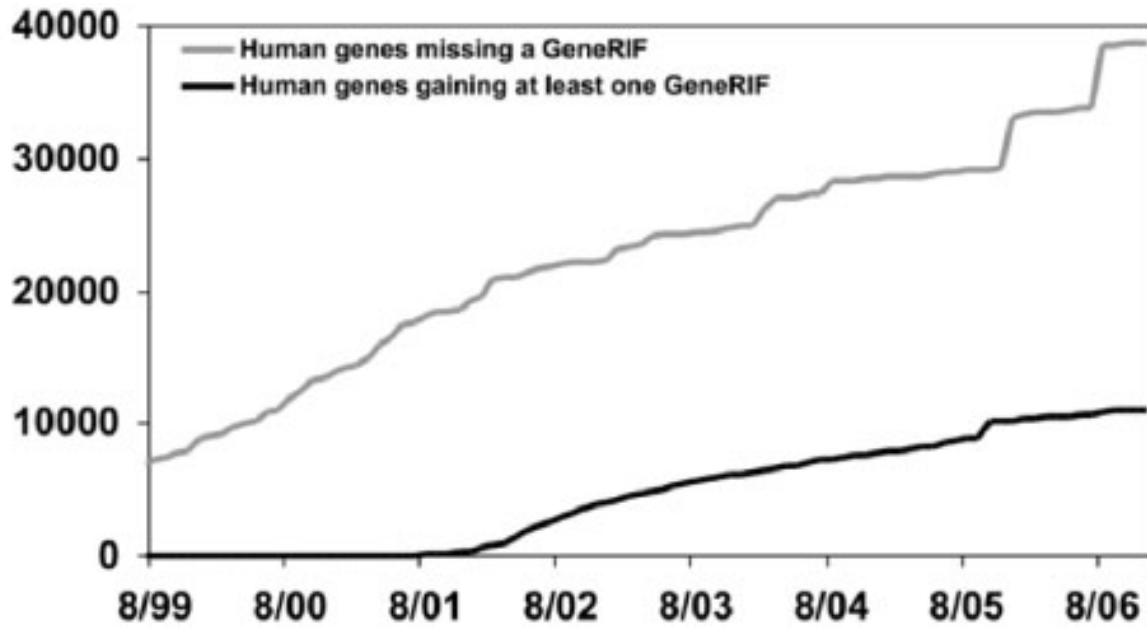
Conrad Plake

Biotechnology Center of Technische Universität Dresden

Bioinformatics Group (Michael Schroeder)



Baumgartner et al., 2007: *Manual curation is not enough!*



Which rat genes have implications in osteoporosis and bone resorption?

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RGD Search Result

0 records found for search term **osteoporosis or "bone resorption "**

Result Matrix			
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QTLs:	0	0	0
Strains:	0	0	0
SSLPs:	0	0	0
References:	0	0	0

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Which rat genes have implications in osteoporosis and bone resorption?

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Items 1 - 2 of 2 One page.

1: [Tnfsf11](#) Links
Official Symbol Tnfsf11 and **Name:** tumor necrosis factor (ligand) superfamily, member 11 [*Rattus norvegicus*]
Other Aliases: RANKL
Chromosome: 15; **Location:** 15q11
Annotation: Chromosome 15, NC_005114.2 (59397837..59428014, complement)
GeneID: 117516

2: [Pth](#) Links
Official Symbol Pth and **Name:** parathyroid hormone [*Rattus norvegicus*]
Other Aliases: PTH-(1-84), Pth1, Pthr1
Other Designations: hypothalamic parathyroid hormone
Chromosome: 1; **Location:** 1q34
Annotation: Chromosome 1, NC_005100.2 (171240596..171243528, complement)
GeneID: 24694

Recent Activity

- osteoporosis bone resorpt... (21)
- rat osteoporosis bone res... (19)
- 10116 osteoporosis bone r... (2) **Gene**

Nature Precedings : doi:10.1038/npre.2009.31221

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Which rat genes have implications in osteoporosis and bone resorption?

2009
Posted: 22 Apr 2009
doi:10.1038/npre.2009.31221

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859 119

Items - 20 of 859 **859 abstracts!** Page 1 of 43 Next

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rat osteoporosis bone res... (859) PubMed

[The role of vitamin E in reversing bone loss.](#)
Chai SC, Wei CI, Brummel-Smith K, Arjmandi BH.
Aging Clin Exp Res. 2008 Dec;20(6):521-7.
PMID: 19179835 [PubMed - in process]
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[Effect of combined local treatment with zoledronic acid and basic fibroblast growth factor on implant fixation in ovariectomized rats.](#)
Gao Y, Luo E, Hu J, Xue J, Zhu S, Li J.
Bone. 2009 Feb;44(2):225-32. Epub 2008 Nov 12.
PMID: 19056525 [PubMed - in process]
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[Epimedium-derived flavonoids prevent ovariectomy-induced osteoporosis in rats independent of its enhancement in intestinal calcium absorption](#)
Qin L, Zhang G, Wang XL, Shi YY, Kong YY, Yang XE, Sheng H, Liang BZ, Liang GS, Yao XS.
Zhonghua Yi Xue Za Zhi. 2008 Jul 1;88(25):1772-7. Chinese.
PMID: 19035090 [PubMed - in process]
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[Silicon Supplementation Improves the Bone Mineral Density of Calcium-Deficient Ovariectomized Rats by Reducing Bone Resorption.](#)
Kim MH, Bae YJ, Choi MK, Chung YS.
Biol Trace Elem Res. 2008 Nov 27. [Epub ahead of print]
PMID: 19034393 [PubMed - as supplied by publisher]
[Related Articles](#)

5: [Effects of a traditional Chinese herbal preparation on osteoblasts and osteoclasts.](#)
Zhang H, Xing WW, Li YS, Zhu Z, Wu JZ, Zhang QY, Zhang W, Qin LP.
Maturitas. 2008 Dec 20;61(4):334-9. Epub 2008 Nov 11.
PMID: 19004583 [PubMed - in process]
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Which rat genes have implications in osteoporosis and bone resorption?

what

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- positive regulation of gluconeogenesis
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- signal transduction [99]
- positive regulation of protein biosynthesis

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- Promoter Regions (Genetics) [66]
- Phosphorylation [63]

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- Anatomy [139]
- Osteoblasts [48]

more

- Chemicals and Drugs [142]
- NF-kappa B [49]
- RNA, Messenger [82]

more

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- Technology, Industry, Agriculture [79]
- cellular_component [132]
- Organisms [142]
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- Named Groups [2]
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rat osteoporosis bone resorption

find it try PubMed query: parkinson disease
try EntrezGene query: 10351 5243... or IL18, CD28
clear try a sequence: MDYQVSSPIYDINYTSEP...

Advanced Search Help

142 genes found ← 142 genes found in 860 abstracts

GoGene has found 142 genes for the query **rat osteoporosis bone resorption**.
Sort by: [Novelty](#), [Community](#), [Volume](#), [Default](#)

1: Pth: parathyroid hormone [Rattus norvegicus]
Community: 5342 Volume: 7650.91
Known as: parathyroid hormone, hypothalamic parathyroid hormone, PTH-(1-84), Pth1, Pthr1, Pth,
GenelID: [24694](#) at [GoPubMed](#) | [Blast](#)
regulates **osteoblast proliferation and differentiation**; involved in **G-protein** coupled receptor mediated **adenylate cyclase activation** [RGD]
[Show details](#)

2: Igf1: insulin-like growth factor 1 [Rattus norvegicus]
Community: 11113 Volume: 14362.85
Known as: Insulin-like growth factor I, insulin-like growth factor 1, somatomedin, Igf1,
GenelID: [24482](#) at [GoPubMed](#) | [Blast](#)
growth factor; plays a major role in mammalian growth [RGD]
[Show details](#)

3: Acp5: acid phosphatase 5, tartrate resistant [Rattus norvegicus]
Community: 1001 Volume: 581.81
Known as: TTRRAP, Trap, Acp5, acid phosphatase 5, tartrate resistant, acid phosphatase 5, acid phosphatase type V,
GenelID: [25732](#) at [GoPubMed](#) | [Blast](#)
tartrate-resistant **acid phosphatase**; may be involved in **bone resorption**; 5b **isoform** is osteoclast-specific and may be a specific marker of **bone resorption** [RGD]
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Nature Precedings : doi:10.1038/npre.2009.3122.1 : Posted 22 Apr 2009

Which rat genes have implications in osteoporosis and bone resorption?

what

Find related concepts ...

Top categories

- molecular_function [5]
 - macrophage colony stimulating factor receptor [1]
 - interleukin-11 receptor binding [3]
 - alkaline phosphatase activity [3]
- more
- biological_process [5]
 - osteoclast differentiation [4]
 - negative regulation of bone resorption [2]
 - myeloid leukocyte differentiation [4]
 - bone resorption [5]
- more
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 - Osteoporosis [5]
 - Osteoporosis, Postmenopausal [3]
 - Root Resorption [2]
 - Tooth Resorption [2]
 - Alveolar Bone Loss [2]
 - Osteolysis [2]
 - Periodontitis [2]
 - Periodontal Diseases [2]
 - Fluoride Poisoning [1]
- All of Diseases [5]
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 - Murinae [5]
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 - Muridae [5]
 - Organisms [5]
- All of Organisms [5]
- cellular_component [4]
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rat osteoporosis bone resorption "bone resorption"[go] Osteoporosis[mesh] Rats[mesh]

find it try PubMed query: parkinson disease
try EntrezGene query: 10351.5243... or IL18_CD28
clear try a sequence: MDYQVSSPIYDINYYTSEP...

Advanced Search Help

5 of 142 genes related to "bone resorption", "Osteoporosis"

5 genes left!

Gene has found 142 genes for the query rat osteoporosis bone resorption.
Sort by: Novelty, Community, Volume, Default

1: Pth: parathyroid hormone [Rattus norvegicus]
Community: 5342 Volume: 7650.91
Known as: parathyroid hormone, hypothalamic parathyroid hormone, PTH-(1-84), Pth1, Pthr1, Pth,
regulates osteoblast proliferation and differentiation; involved in G-protein coupled receptor mediated adenylate cyclase activation [RGD]
Show details
GeneID: 24694 at PubMed | Blast

6: Tnfsf11: tumor necrosis factor (ligand) superfamily, member 11 [Rattus norvegicus]
Community: 573 Volume: 325.86
Known as: RANKL, tumor necrosis factor (ligand) superfamily, member 11, Tnfsf11,
induces osteoclast formation and bone resorption; plays a role in regulation of calcium homeostasis and osteoclast function [RGD]
Show details
GeneID: 117516 at PubMed | Blast





10: Ctsk: cathepsin K [Rattus norvegicus]
Community: 342 Volume: 142.55
Known as: Ctsk, cathepsin K,
putative protease; human homolog displays endoprotease activity and is associated with pycnodysostosis when mutated [RGD]
Show details
GeneID: 29175 at PubMed | Blast

11: Tnfrsf11b: tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin) [Rattus norvegicus]
Community: 413 Volume: 257.33
Known as: Osteoprotegerin, Opg, tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin), MGC93568, Tnfrsf11b, tumor necrosis factor receptor superfamily member 11b,
plays a role in the negative regulation of bone resorption by inhibiting formation of osteoclasts [RGD]
Show details
GeneID: 25341 at PubMed | Blast

GoGene links back to literature to validate extracted annotations

Nature Precedings : doi:10.1038/npre.2009.3122.1 : Posted 22 Apr 2009





• Csf1 and osteoporosis:

-  2: [The molecule mechanism of soybean isoflavoones antagonizing bone loss induced by **postmenopausal osteoporosis**]
Wang, Qiang et al., *Zhong Yao Cai*, 28 (10): 910-3 2005 PMID: [16479929](#) [Related Articles](#)
 OBJECTIVE: To observe the effect of the Soybean Isoflavoones on the mRNA expression of **Osteoprotegerin (OPG)**, **Osteoclast Differentiation Factor (ODF)** and **Macrophage Colony stimulating Factor (M-CSF)** in **bone tissue** of ovariectomized rat, and to investigate the possible molecule mechanism of Soybean Isoflavoones antagonizing bone lose induced by **postmenopausal osteoporosis**.
-
-  1: [Effect of estrogen on osteoprotegerin, osteoclast differentiation factor and macrophage colony stimulating factor mRNA expressions in ovariectomized rat bone tissue]
Wang, Qiang et al., *Nan Fang Yi Ke Da Xue Xue Bao*, 26 (4): 532-4 2006 PMID: [16624776](#) [Related Articles](#)
 OBJECTIVE: To observe the effect of the **estrogen** on the mRNA expression of **osteoprotegerin (OPG)**, **osteoclast differentiation factor (ODF)** and **macrophage colony stimulating factor (M-CSF)** in **bone tissue** of ovariectomized rats, and investigate the possible pathway of **estrogen** in preventing and treating **postmenopausal osteoporosis**.

Ctsk and osteoporosis:

-  1: Design and synthesis of tri-ring P3 benzamide-containing aminonitriles as potent, selective, orally effective inhibitors of **cathepsin K**.
Palmer, James T et al., *J Med Chem*, 48 (24): 7520-34 2005 PMID: [16302794](#) [Related Articles](#)
 Inhibition of collagen breakdown by **cathepsin K** inhibitors suggests this mechanism of action may be useful in **osteoporosis** and other indications involving **bone resorption**.

Tnfrsf1 and bone resorption:

-  17: Immune response: the key to **bone resorption** in periodontal disease.
Taubman, Martin A et al., *J Periodontol*, 76 (11 Suppl): 2033-41 2005 PMID: [16277573](#) [Related Articles](#)
 Interference with **RANKL** by systemic administration of **osteoprotegerin (OPG)**, the decoy receptor for (and inhibitor of) **RANKL**, resulted in abrogation of **periodontal bone resorption** in the rat model.
-
-  6: **RANKL** inhibition through **osteoprotegerin** blocks bone loss in experimental periodontitis.
Jin, Qiming et al., *J Periodontol*, 78 (7): 1300-8 2007 PMID: [17608585](#) [Related Articles](#)
 The receptor activator of nuclear factor-kappa B ligand (**RANKL**) inhibitor **osteoprotegerin (OPG)** inhibits osteoclastogenesis and suppresses **bone resorption**.

GoGene accepts three kinds of queries:

1. PubMed – put a PubMed query to search the literature
2. EntrezGene – search by gene IDs or gene names
3. BLAST – paste a nucleotide or amino acid sequence

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Oncogene (2005) **24**, 5079–5088. doi:10.1038/sj.onc.1208696; published online 16 May 2005








Meta-analysis of microarray data on pancreatic cancer defines a set of commonly dysregulated genes

Robert Grützmann^{1,6}, Hinnerk Boriss^{2,6}, Ole Ammerpohl³, Jutta Lüttges⁴, Holger Kalthoff³, Hans Konrad Schackert⁵, Günter Klöppel⁴, Hans Detlev Saeger¹ and Christian Pilarsky¹

- ¹Department of Visceral, Thoracic and Vascular Surgery, University Hospital Carl Gustav Carus, Technical University of Dresden, Dresden, Germany
- ²Interdisciplinary Center for Bioinformatics, Leipzig, Germany
- ³Department of Molecular Oncology, Clinic for General Surgery and Thoracic Surgery, University of Kiel, Germany
- ⁴Department of Pathology, University of Kiel, Germany
- ⁵Department of Surgical Research, University Hospital Carl Gustav Carus, Technical University of Dresden, Dresden, Germany
- ⁶Present address: Department of Visceral, Thoracic and Vascular Surgery, University Hospital Carl Gustav Carus, Dresden, Germany

ABSTRACT


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- antigen binding [61]
- metal ion binding [72]
- Anatomy [342]
- Membranes [159]
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- biological_process [347]
- signal transduction [162]
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- Psychiatry and Psychology [163]

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10863 80332 9510 11095 115 124 150 185
9465 216 8854 229 259 262 84883 284
9068 51479 290 23189 312 8416 8639 316
162 147495 325 333 358 360 343 27236

find it try PubMed query: [parkinson disease](#)
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clear try a sequence: [MDYGVSSPIYDINYTSEP...](#)

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400 genes found


GoGene has found 400 genes for the query **21 10351 5243 25890 33 59272 48 51 56 10863 80332 ...**
Sort by: [Novelty](#), [Community](#), [Volume](#), [Default](#)

1: CTTNBP2: cortactin binding protein 2 [Homo sapiens]
Community: 35 Volume: 18.15
Known as: CTTNBP2, C7orf8, FLJ34229, Orf4, KIAA1758, cortactin binding protein 2, CORBP2, MGC104579,
This gene encodes a protein with six **ankyrin repeats** and several proline-rich regions.
GeneID: [83992](#) at [GoPubMed](#) | [Blast](#)
[Show details](#)

2: COL21A1: collagen, type XXI, alpha 1 [Homo sapiens]
Community: 5 Volume: 10.42
Known as: alpha 1 chain-like collagen, FP633, MGC26619, COL21A1, FLJ39125, FLJ44623, dJ708F5.1, DKFZp564B052, COLA1L, OTTHUMP0000040019, collagen, type XXI, alpha 1, dJ682J15.1,
This gene encodes the alpha chain of type XXI **collagen**, a member of the **FACIT collagen** family (**fibril-associated collagens with interrupted helices**).
GeneID: [81578](#) at [GoPubMed](#) | [Blast](#)
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3: APOLD1: apolipoprotein L domain containing 1 [Homo sapiens]
Known as: DKFZP434F0318, APOLD1, VERGE, FLJ25138, apolipoprotein L domain containing 1,
No summary found for this gene.
GeneID: [81575](#) at [GoPubMed](#) | [Blast](#)
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- membrane [178]
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- antigen binding [61]
- metal ion binding [72]
- Anatomy [342]
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10863 80332 9510 11095 115 124 150 185
9465 216 8854 229 259 262 84883 284
9068 51479 290 23189 312 8416 8639 316
162 147495 325 333 358 360 343 27236

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GoGene has found 400 genes for the query **21 10351 5243 25890 33 59272 48 51 56 10863 80332 ...**
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This gene encodes a protein with six **ankyrin repeats** and several proline-rich regions.
GeneID: [83992](#) at [GoPubMed](#) | [Blast](#)
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Known as: alpha 1 chain-like collagen, FP633, MGC26619, COL21A1, FLJ39125, FLJ44623, dJ708F5.1, DKFZp564B052, COLA1L, OTTHUMP0000040019, collagen, type XXI, alpha 1, dJ682J15.1,
This gene encodes the alpha chain of type XXI **collagen**, a member of the **FACIT collagen** family (**fibril-associated collagens with interrupted helices**).
GeneID: [81578](#) at [GoPubMed](#) | [Blast](#)
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3: APOLD1: apolipoprotein L domain containing 1 [Homo sapiens]
Known as: DKFZP434F0318, APOLD1, VERGE, FLJ25138, apolipoprotein L domain containing 1,
No summary found for this gene.
GeneID: [81575](#) at [GoPubMed](#) | [Blast](#)
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Problem: Finding annotations for an uncharacterised protein

Copy&Paste sequence of uncharacterised human protein C15orf39

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- protein phosphatase type 2B activity [
- cytoskeletal protein binding [12]
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MAEKRLRRLGPMYVYKLPRLLETDGSLHSLPHSV
EQLASWTYPPLYSTGMAGPPLQADNLLTNCLFYR
SYPGPPLAAPKPVYRNPLCYGLSTCLGEGAVKRRPL
SKGQTLDGTFLRGVPAGSSKSDSSGFSFPCQPFLE

find it try PubMed query: parkinson disease
try EntrezGene query: 10351_5243... or IL18_CD28
clear try a sequence: MDYQVSSPIYDINYYTSEP...

Advanced Search **Help**

42 of 90 genes related to "catalytic activity"

GoGene has found 90 genes for the query MAEKRLRRLGPMYVYKLPRLLETDGSLHSLPHSVGNQDPCTYKGSYFSC...
Sort by: **Novelty**, Community, Volume, Default
42 genes relate to the term "catalytic activity" **Require** **Exclude**

description: Catalysis of a biochemical reaction at physiological temperatures. In biologically catalyzed reactions, the reactants are known as substrates, and the catalysts are naturally occurring macromolecular substances known as enzymes. Enzymes possess specific binding sites for substrates, and are usually composed wholly or largely of protein, but RNA that has catalytic activity (ribozyme) is often also regarded as enzymatic.

23: Ptpn23: protein tyrosine phosphatase, non-receptor type 23 [Rattus norvegicus]
Community: 8 Volume: 2.84
Known as: protein tyrosine phosphatase, non-receptor type 23, protein tyrosine phosphatase TD14, Ptp-Td14, Ptpn23,
GeneID: 117552 at [GoPubMed](#) | [Blast](#)

putative protein tyrosine phosphatase based on sequence information, may be involved in signal transduction and/or protein amino acid dephosphorylation [RGD]
[Show details](#)

11: Ptpn23: protein tyrosine phosphatase, non-receptor type 23 [Mus musculus]
Community: 7 Volume: 6.48
Known as: protein tyrosine phosphatase, non-receptor type 23, AI462446, PTP-TD14, Ptpn23,
GeneID: 104831 at [GoPubMed](#) | [Blast](#)

No summary found for this gene.
[Show details](#)

34: PTPN23: protein tyrosine phosphatase, non-receptor type 23 [Homo sapiens]
Community: 4 Volume: 2.66
Known as: HD-PTP, His-domain protein tyrosine phosphatase, protein tyrosine phosphatase, non-receptor type 23, DKFZP564F0923, KIAA1471, HDPTP, PTPN23, PTP-TD14, protein tyrosine phosphatase TD14,
GeneID: 25930 at [GoPubMed](#) | [Blast](#)

No summary found for this gene.

Summary

- Employ ontologies to facilitate search and summarization of information
- Link genes to ontologies via literature
- GoGene: search for genes at <http://www.gpubmed.org/gogene>
- GoPubMed: search PubMed at <http://www.gpubmed.org>
- GoWeb: search the web at <http://www.gpubmed.org/goweb>

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