

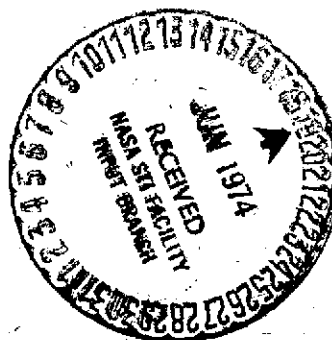
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OF THE  
**LEANDER McCORMICK OBSERVATORY**  
OF THE  
UNIVERSITY OF VIRGINIA

Volume XV, Part VII

A CATALOGUE OF GALAXIES HAVING  
RADIAL VELOCITIES

by

L.W. FREDRICK  
and  
W. A. GUTSCH



CHARLOTTESVILLE, VIRGINIA

1974

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# A CATALOGUE OF GALAXIES HAVING RADIAL VELOCITIES

L. W. FREDRICK AND W. A. GUTSCH

*Forward.* This catalogue was generated originally to study the distribution of radial velocities. Word that it existed reached many places and requests for copies have been received from all over the world. Each copy, heretofore, has had to be singly generated on the computer and mailed in a bulky package. It is hoped that this printing will make the catalogue more generally available at much less cost.

The catalogue is intended as a search aid bringing together material from many different sources. We wish to thank Allan Sandage for his comments and Philip Ianna and Harold McAlister for their computer formatting assistance. The construction of the catalogue was carried out as part of a grant from the National Aeronautics and Space Administration, NGL 47-005-066.

## Explanation of the Catalogue

The entries are listed in order of increasing RA and at each RA in order of decreasing DEC. The information, where available, is listed as follows:

Column 1: Catalog designation, e.g.	
NGC	— New General Catalogue
IC	— Index Catalogue
MCG	— Morphological Catalogue of Galaxies
HARO	— Haro, G., <i>Bol. Obs. Tonantzintla y Tacubaya</i> (No. 14). 8 (1956)
VV	— Vorontsov-Velyaminov, B.A., <i>Atlas and Catalogue of Interacting Galaxies</i> (1959)
ARP	— Arp H., <i>Astrophys. J. Suppl.</i> 14, 1 (1966)
ZW	— Zwicky's lists entitled <i>Compact Galaxies and Compact Pairs of Galaxies; Eruptive and Post Eruptive Galaxies</i> , e.g., III ZW 2 means the second galaxy in Zwicky's third list.
MARKARIAN	— <i>Astrofizika</i> 3, 55 (1967)
ANON	— Anonymous. See particular reference.

Some anonymous objects close to NGC or IC objects have been given the corresponding NGC or IC numbers followed by a letter A, B, C, etc.

Column 2: RA (1950)
Column 3: DEC. (1950)
Column 4: New galactic longitude, $l^{\text{II}}$
Column 5: New galactic latitude, $b^{\text{II}}$
Column 6: Morphological type. If the data is from <i>Reference Catalogue of Bright Galaxies</i> , de Vaucouleurs, G. and de Vaucouleurs, A. (1964), reference MA revised morphological type as detailed in this source.
Column 7: Magnitude C = Harvard photographic magnitude statistically corrected to the B(10) system as explained in <i>Reference Catalogue of Bright Galaxies</i> (1964). P = Designated photographic in the original publication. V = Designated visual in the original publication.
Column 8: V = Observed radial velocity in kilometers per second.
Column 9: Radial velocity corrected for solar motion in kilometers per second (relative to the Local Group of galaxies) through the relation $v_0 = v + \Delta v = v + 300 \cos A$ where A is the angular distance to the conventional extragalactic solar apex at $l^{\text{I}} = 55$ , $b^{\text{I}} = 0$ following the precepts of Humason and Wahlquist (AJ 60, 254-259, 1955) and Humason, Mayall and Sandage (AJ 61, 97-162, 1956).
Column 10: Estimated error in radial velocity in kilometers per second as indicated in reference.
Column 11: Reference. Each reference carries a two-letter designation as indicated below.

If a radial velocity has been determined for a galaxy subsequent to the publication of de Vaucouleurs' *Reference Catalogue of Bright Galaxies* (1964), the additional information immediately follows the general entry from the above reference.

If a galaxy, pair of galaxies or group of galaxies appears in more than one catalog and therefore carries more than one designation, the alias or aliases are indicated on following cards (or lines) preceded by an equality sign. In some instances due to limitations in data storage abbreviations are made e.g.

$$5560+6+9=ARP286 \text{ means}$$

the group of galaxies NGC 5560, NGC 5566 and NGC 5569 corresponds to object number 286 in ARP's list.

### References

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DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF
HCG781 = HCG 5-1-28	08 07.7	+15 51	106	-49	.S82P..P280	11.98C	1067	1245	50	NA	HCG889 = HCG 2-2-2	08 19.4	+16 12	111	-52	SABERS10P	13.1P	1466	5853	48	MC
HCG816 = HCG 4-1-32	00 06.5	+07 07	112	-24	.L3...P100	13.22C	3110	3334	56	NA	II ZH 20	08 24.7	+18 31	114	-29		15P	10743	14974	61	MC
HCG828 = HCG 4-1-33	00 07.1	+25 30	111	-26	.S85S...P280	13.24C	4566	4764	100	NA	AMON826	08 26.1	+02 19	112	-59	.G.L...M		4660	4597	58	NA
HCG824 II ZH 2	00 07.4	-25 15	44	-48	S81S1C		599	626	52	MC	HCG819 = HCG 0-2-48	08 26.6	+02 36	112	-59	.L...P.P280		4094	4236	48	NA
HCG845 = HCG 4-1-21	00 11.4	-23 27	56	-61	.S85S...P280	11.21C	450	469	26	NA	HCG817 = HCG 0-2-38	08 26.7	+02 35	112	-59	.L...P.P280	12.42C	4256	4346	58	NA
HCG895 HCG895A	00 12.5	-39 30	333	-76	.S859...P504	4.33C	331	37		NA	HCG818 = HCG 8-2-81	08 27.9	-23 32	138	-62	.S85S...M180	11.22C	1681	1645		NA
II ZH 3	00 12.8	+24 12	112	-87		14.9P	18284	18419	88	MC	HCG819 = ARP 19 = HCG 3-1-27	08 28.2	-05 26	118	-67	S81C10H		4155	4254	19	MC
HCG898 = HCG 4-1-66	00 13.8	+29 44	119	-82	.L...M		5787	6811	88	MC	HCG819A = HCG -2-2-95	08 28.3	-04 54	118	-71	.S87S...P280	11.43C	1746	1426		NA
HCG899 = HCG 4-1-66	00 13.9	+29 48	119	-82	.E.Z...M		6891	6816	108	NA	HCG820 = HCG -2-2-56	08 28.3	-04 54	118	-71	.S87S...P280	11.43C	1746	1426		NA
HCG897 = HCG 3-1-69	08 15.9	+29 46	119	-82	.S8.L...M		6976	7088	130	NA	HCG820A = HCG 4-2-23	08 29.4	+23 41	118	-59	HLA...P.V100		9299	9453	58	NA
HCG878	08 16.0	+29 45	119	-82	.E.L...M		6887	7031	130	NA	HCG820B = HCG 8-2-95	08 29.7	+02 28	118	-60	.S.L...M		5824	5863	58	NA
IC1818 = HCG 18-1-1	08 17.6	+59 02	119	-83	.L8.V..P280		- 347	- 62		NA	HCG845 HCG845A = HCG 8-2-10	08 36.1	+46 04	124	-19	.E42.P.M060	11.14C	- 232	- 18		NA
HCG888 = HCG 1-2-6	08 18.6	+22 05	114	-60	.L...M		5586	5789	100	NA	HCG850 = HCG 8-2-105	08 36.9	+02 48	117	-60	.E.L...M		5163	5224	58	NA
HCG843 82/83=HCG1-2-5	08 18.8	+22 09	114	-60	.E.B...M		6541	6745	150	NA	HARD 18	08 36.9	+22 23	117	-60	SDS	13.4V	1668	1639	77	HJ

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HCG825 = HCG 7-2-14	00 37.6	+41 25	123	-21	.E.V.P.....	10.16C	- 239	- 6		NA	HARD 19 = HCG263					ELF	13.8V	6425	6477	25	HJ
HCG826 = HCG 7-2-81	00 38.8	-14 09	113	-77	.S833..P280	11.46C	1764	1829		NA	HCG827A = HCG -1-3-21	08 46.9	-07 20	123	-70	.L3A..P.P280	13.16C	1098	1071	49	HARB
HCG824 = HCG 1-2-44	00 38.7	+29 14	120	-37	.S845...M180	11.13C	4921	4728		NA	HCG827B = HCG -1-3-22 270P.M.A.P.148 = V181	08 46.9	-07 20	123	-70	.S81S..P.P280	13.33C	1773	1954		NA
HCG824 = HCG 7-2-16	00 48.8	+41 00	121	-22	.S853.....	6.99C	- 299	- 88		NA	HCG827C = HCG 8-2-16	08 49.2	+47 10	123	-15	.S813..P280	12.94C	633	657		NA
HCG821 = HCG 1-2-15 = H 32	00 48.9	+40 36	121	-22	.E.Z.....	9.93C	- 213	- 17		NA	HCG828 = HCG -3-1-20	08 58.4	-31 29	298	-86	.S81S...M180	11.82C	3926	3987		NA
HCG827 = HCG 1-2-135	00 49.1	-01 46	118	-64	.E.B...M	13.12C	9319	9424	65	NA	I ZH 3	08 51.0	+12 25	124	-51		14.0P	16162	16167	88	MC
HCG824 = HARD 14 = HCG -2-3-3	00 49.3	-19 51	116	-78	02	13.5V	971	1021	46	HARB	AMON8951	08 51.0	-73 06	283	-44	.I059.....	1.88C	163	- 13		NA
HCG827 = HCG -2-3-5	00 49.6	-21 01	114	-83	.S85P...M180	9.83C	- 196	- 129		NA	HCG830A	08 52.6	-37 54	299	-79	.S85T...M074	5.98C	369	98		NA
AMON8664	00 49.9	-20 40	115	-83	.S...M		6144	6192		NA	HCG830B = HCG -1-3-53	08 57.2	-07 51	128	-76	S81S1D	12.2P	1848	1782	33	MC
AMON89498	00 49.9	-20 42	115	-83	.S...M		6389	6334		NA	HCG830C = HCG 8-2-16	08 59.2	-07 52	131	-70	.L...M080	12.46	159	18	HARB	
HCG825 = HCG 1-2-9 = HCG-222	00 49.1	-25 34	97	-89	.S85S...M180	7.87C	96	184		NA	HCG831 = HCG -1-3-81	01 01.4	-16 37	131	-69	.S88P...M180	12.91C	2943	2816	58	MC
HCG824 = HCG -2-3-1F	00 49.2	-11 45	128	-74	.S81S...P280	12.49C	1424	1487		NA	IC1818 = HCG 8-2-78	01 02.5	+01 52	188	-61	.L...L.M	5.62C	- 234	- 129		NA
II ZH 12 = IC1984	00 49.8	+22 06	122	-61		14.9P	5836	6081	68	NA	AMON1012	01 02.6	-16 29	132	-69	.S87T...M180	12.28C	963	1087		NA
HARD 15	00 46.8	-13 05	128	-76			6936	6895		NA	MEM 1	01 02.6	-16 29	132	-69	SABERS10		3857	48		NA
							6536	6591	34	MC	HCG837A = HCG 8-2-88	01 04.3	+32 09	127	-20	.E.E...M		6811	6889	48	NA

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0375-88=ARP351																					
HCG838 = HCG 5-3-51 0375-88=ARP351	01 04.9	+32 18	127	-38	.E.Z...M		4211	4929	150	NA	HCG837B = HCG 8-2-88	01 17.1	+02 09	187	-59	SABERS10	12.4P	2557	2656	48	MC
HCG843 = HCG 5-3-53 0375-88=ARP351	01 04.6	+32 09	127	-38	.L...M		4088	5066	50	NA	HCG837C = HCG 8-4-85 = M150M 9	01 17.5	+02 18	187	-59	.L85S...P280	12.16C	2368	2489	48	NA
HCG842 = HCG 5-3-52 0375-88=ARP351	01 04.6	+32 08	127	-38	.E.L...M		5156	5354	58	NA	II ZH 23	01 16.4	+22 31	182	-48		L7P	18269	13382	60	MC
HCG836A = HCG 5-3-50 0375-88=ARP351	01 04.4	+32 02	127	-31	.L...M		4461	4999	168	NA	II ZH 25	01 16.6	+16 46	182	-48		15.6P	21684	21851	60	MC
HCG836B = HCG 5-3-57 0375-88=ARP351	01 04.7	+32 05	127	-38	.E.Z...M		5855	5763	198	NA	HCG838A = HCG 1-4-53	01 19.1	+09 80	187	+97	.S863..P280	11.97C	2188	2284	150	NA
HCG836C = HCG 5-3-56 0375-88=ARP351	01 04.7	+32 03	127	-38	.E.Z...M		4445	4843	168	NA	II ZH 1	01 19.5	-18 14	149	+83		15.1P	16173	16256	60	MC
HCG838 = HCG 5-3-56 0375-88=ARP351	01 05.8	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	HCG838B = IC1686 = HCG 5-4-38	01 24.2	+03 12	130	-29	.L...M		4114	4394	50	NA
0375-88=ARP351																					
HCG839 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	HCG839 = HCG 5-4-38	01 24.2	+03 12	130	-29	.L...M		4114	4394	50	NA
0375-88=ARP351																					
HCG840 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	II ZH 2	01 24.6	+06 19	130	-28		14.7P	6056	7052	60	MC
0375-88=ARP351																					
HCG841 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	HCG847 = HCG 5-4-38 S87-88=ARP351 = V1287	01 24.8	+32 59	131	-28	.E.B...M		4929	5110	51	NA
0375-88=ARP351																					
HCG842 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	HCG851A = HCG 2-4-35	01 21.3	+12 29	130	-19	.S87S...M180	12.29C	2541	2670		NA
0375-88=ARP351																					
HCG843 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	II ZH 27	01 21.4	+13 46	130	-48		16P	16585	16495	60	MC
0375-88=ARP351																					
HCG844 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	HCG852A = HCG 5-4-35	01 22.8	+03 32	130	-54	.P...P280	12.4P	2223	2120		NA
0375-88=ARP351																					
HCG845 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	HCG852B = HCG 5-4-35	01 22.8	+03 32	130	-54	.P...P280	12.4P	2223	2120		NA
0375-88=ARP351																					
HCG846 = HCG 5-3-56 0375-88=ARP351	01 06.4	+32 02	127	-38	.E.Z...M		5834	6311	188	NA	HCG852C = HCG 5-4-35	01 22.8	+03 32	130	-54	.P...P28					

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	
HCG976 = HCG 1-4-53	01 22.1	+09 16	137	-52	.L87...P200	12.210	2470	2547	59	NA	= HCG 1-5-13 III ZM 85	01 41.2	+16 50	148	-44		14.7P	7928	8054	60	
HCG953 = HCG 3-4-132	01 22.9	+01 30	148	-49	EJ	13.8P	5305	9091	42	MC	IC1727 = HCG 4-5-9	01 44.7	+27 09	138	-34	.S85...P200	14.2	262	614	50	
HCG945 = HCG 3-4-140	01 23.4	-01 30	142	-43	SAB-		5499	9979	49	MC	HCG0472 = HCG 4-5-11	01 49.0	+27 11	138	-24	.S85...P200	11.61C	348	486		
HCG947 HCG944+HCG908 84577 = IC 10	01 23.4	-01 36	142	-63	EJ		5361	9437	40	MC	HCG0481 HCG0483 = HCG 1-5-52	01 46.7	-10 48	165	-83	.S82...P200	11.42C	1741	1895	64	
HCG940 = HCG 8-4-191	01 24.9	-02 11	143	-43	.L.....H		5563	9976	193	NA	HARO 16	01 40.3	+20 54	138	-22	D2	14.4V	1294	1295	40	
HCG954 = HCG 3-4-194	01 25.2	-02 09	143	-63	.E4...H		5091	9923	190	NA	HARO 16A	01 40.3	+20 54	138	-22	D2	16.2	989	921	124	
HCG958 = HCG 1-4-20	01 28.8	-02 56	148	-39	.S875...P100	11.94C	2017	2044		NA	HCG0728 = HCG 2-5-68	01 59.6	-13 59	173	-70	.E...W000	11.79C	1888	1813	188	
HCG984 = HCG 1-4-60	01 28.8	-02 57	150	-59	.E...W100	11.91C	1829	1889		NA	HCG0718 = HCG 1-5-61	01 59.7	+03 57	151	-55	.S81...P200	12.73C	1882	1876		
HCG986 = HCG 1-3-5	01 38.3	-07 17	150	-48	.E4...H	12.27E	2049	2097	65	NA	III ZM 36 = HCG 1-5-64	01 53.7	+09 23	151	-54		14.8P	9438	9441	68	
HCG959 = HCG 5-4-83	01 31.1	+30 24	134	-31	.S876...H	6.44C	-184	-11		NA	HCG0756 = HCG 1-5-20	01 53.8	+32 40	138	-28	.E...V		6366	4923	40	
HCG8613 = HCG 5-4-16	01 32.8	-09 40	229	+88	.S874...W100	11.63C	1599	1515		NA	HCG0740 = HCG 1-6-3	01 53.8	+09 23	151	-54	.E...W100	12.08C	5559	5626	58	
III ZM 31	01 32.5	+17 27	137	-44		16.5P	19999	18736	60	MM	HCG0753 = HCG 6-5-66	01 54.6	+39 41	138	-29	.S874...W000	12.89C	4766	4924		
HCG8615 = HCG 3-5-8	01 32.6	-07 35	138	+88	.S873...P200	12.91C	1594	1991	43	MM	HCG0758 = HCG 5-5-34	01 54.6	+32 50	139	-28	.E...P200	12.19C	6180	6299	40	
HCG880 = HCG 3-5-11	01 34.8	+15 42	139	+40	.S85...P200	10.39C	692	782		NA	HCG0759 = HCG 5-5-38 790751=ARP166 = VV189	01 54.6	+32 50	139	-28	.E...P200	9.26C	5291	60		
HCG856	01 36.6	-07 45	139	-67	.E4...W100	12.66C	1941	1902	50	NA											

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR
HCG4772 = ARP 74 = HCG 2-6-11	01 36.6	+18 46	144	-45	.S85...W000	11.90C	2431	2552	150	NA	= HCG 4-8-29 HCG929 = HCG 3-6-45	02 24.3	+39 22	149	-25	.S87...P200	11.61C	360	712	
HCG9779 = HCG 2-6-10	01 37.8	-06 12	144	-63	SAB1010	11.8P	1423	1493	54	MC	V ZM 242 = HCG 4-8-44	02 24.5	+22 52	150	-30		10.7P	9779	9849	68
HCG9744 = HCG 1-6-25	01 38.4	-07 03	145	-84	.S85...W000	13.34C	6137	6162	65	NA	HCG9956 = HCG 8-7-17	02 25.1	-01 22	169	-95	.L87...P200	11.29C	1340	1374	
HCG8821 = HCG 2-6-24	02 05.6	+18 46	151	-48	.E4...W000	12.79C	1778	1884	100	NA	HCG9964 = HCG 1-7-19	02 25.1	-01 09	172	-56	SBC	13.8P	5694	5788	45
III ZM 43 = HCG 1-8-36	02 31.2	+03 03	159	-83		14.2P	4329	4283	40	MM	HCG9972 = HCG 2-7-18	02 31.3	+20 06	148	-24	.E...P200	12.42C	1550	1681	53
HCG8844 = HCG 1-8-31	02 12.8	+09 45	157	-91	.S815...P200	11.89C	1988	1644		NA	HCG9986 HCG9986 = HARO 3	02 31.8	-29 19	249	-68	.S872...W100	11.07C	2073	2093	
V ZM 200	02 14.1	+27 22	149	-32		17P	14028	14141	40	MM	HCG9996 = HARO 3	02 34.6	+34 12	147	-24	.W...L...H	6.80	4999	150	
HCG8871 HCG8871 = HCG 2-6-33	02 14.5	+14 13	152	-43	.S85...W000	17.31 37.05	3021 37.95	44		NA	HCG1003 = HCG 7-6-51	02 36.1	+40 40	144	-17	.S85...P200	5.95	741	69	
HCG9877 = HCG 2-6-59	02 15.3	+14 19	152	-45	.S814...W000	12.59C	4816	6106		NA	HCG1022 = HCG 1-7-25	02 36.1	+06 33	179	-57	S8131A	14.08	1491	23	
V ZM 220	02 17.6	+20 56	149	-30		16.6P	13564	13721	60	MM	ANM0234	02 36.4	+18 09	156	-32	.E.....	4.637	6122		
HCG9889 = HCG 5-6-33	02 19.1	+33 02	144	-24	.L87...W000	12.69C	4043	4190	65	NA	III ZM 91 = HCG 2-7-21	02 36.7	+32 20	160	-48		14.7P	13252	13316	60
HCG9895 S8455=HCG-1-7-2	02 19.1	-39 45	172	-80	SAB1020	12.2P	2864	2856	27	MC	HCG1055 = HCG 1-5-27	02 37.8	-08 20	181	-68	SAB101C	12.8P	1817	1883	27
HCG8881 = HCG 7-6-46	02 19.3	+42 07	140	-17	.S8237...H	11.31C	72	243	100	NA	IC1834 = HCG 5-7-01	02 37.8	-27 39	220	-84		14.74	1389		
V ZM 229 = HCG 7-6-2 = ARP145	02 20.0	+41 39	141	-18		14.1P	5249	5416	60	MM	HCG1051 HCG1023 = ARP125	02 37.2	+34 52	140	-18	.L87...P200	11.07C	574	729	41
HCG9986	02 25.0	-01 27	202	-60	.S825...W000	11.74C	1736	1645		NA										

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR
= HCG 4-6-73 = NELSON 19	02 37.5	-34 44	287	-66	.E...P.		39	-78		NA	= HCG 4-8-6 HCG1087 = HCG 4-8-16	03 04.4	-02 04	218	-68	.S85...W000	11.21C	1579	1491	
HCG1082 = HCG 2-7-54	02 38.8	-09 43	142	-58	.S876...W100	12.07C	396	839		NA	HCG1099 = IC1188 = HCG 3-8-67	03 01.3	-15 46	199	-97	.E...W000	12.41C	2541	2518	54
HARO 19	02 39.3	+09 28	193	-28	D2	13.0Y	1898	1818	40	HJ	HCG1201 = HCG 1-8-28	03 02.8	-24 15	219	-68	.L88...P200	11.44C	1722	1622	58
HCG1082 = HCG 1-7-34	02 39.6	-09 29	142	-58	.E...W100	12.94C	1440	1444		NA	HCG1208 = HCG 3-8-73	03 02.8	-19 44	208	-57	.E...W...H	12.69C	2548	2593	158
HCG1088 = ARP 87 = HCG 8-7-83 = H 77 = IC 71	02 48.1	-00 14	172	-52	.S872...W100	10.30C	1080	1094		NA	HARO 19	03 04.3	+20 28	198	-25	D2	14.5V	6551	6203	21
HCG1088 = HCG 8-8-1	02 48.2	+07 08	146	-20	.S875...P200	12.54C	80	222	37	NA	HARO 19A HCG1232 HCG1232 = ARP 81 = HCG 4-8-82	03 04.3	+20 28	198	-25	D2	6.842	6184	15	
HCG1087 = HCG 8-8-1	02 48.2	+07 08	146	-20	.S875...P200	12.54C	80	222	37	NA	J ZM 18 = IC0988 = HCG 3-9-19 = ARP147	03 04.7	+01 04	174	-44		15.1P	9424	9424	68
HCG1089 = HCG 1-8-7	02 48.2	+07 08	146	-20	.S875...P200	12.54C	80	222	37	NA	V ZM 326	03 09.7	+36 09	152	-18		16.5P	21449	21500	68
HCG1089 = HCG 1-8-7	02 48.2	+07 08	146	-20	.S875...P200	12.54C	80	222	37	NA	HCG1235 = HCG 4-8-50	03 11.4	-29 56	161	-98	SAB1023C	14.17C	1821	1724	39
HCG1097 = ARP 77 = HCG 5-7-24	02 44.3	-24 29	227	-69	.S855...W100	18.31C	1323	1272		NA	HCG1294 HCG1294	03 19.5	+41 17	247	-97	.S855...W000	14.17C	882	846	750
HCG1140 = HCG 2-8-19	02 02.2	-10 14	146	-56	.E...W000	13.38C	1944	1910	40	NA	HCG1297 = HCG 7-7-87	03 19.6	+41 18	191	-82	.E...W...H	12.7P	6885	5936	69
V ZM 207	02 09.7	+41 06	147	-16		15.5P	4930	5074	64	MM	HCG1297 = HCG 7-7-88	03 19.7	+41 16	191	-83	.E...W...H	4.672	4303	74	
HCG1166	02 09.7	+29 03	146	-29	.S855...P200	12.61C	409	497	48	NA										







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CG273 = HCG 6-21-2	09 57.7	+03 23	226	+30	.....M		3726	3532	69	NA	HCG2411 = HCG 8-24-1	09 12.9	-16 08	248	+22	.SBFL..P200	12.760	2916	2996	75	NA	
UKKAREAN 13 HCG 2-28-21	09 01.0	+61 06	155	+40	DSR	13.2P	1408	1491	68	MC	HCG2798 = HCG 7-19-65 27981999ARP282 = VY00	09 14.4	+42 18	188	+44	.SBFLP..M000	15.200	1704	1782	75	NA	
ZH 16	09 01.0	+55 43	161	+41		37P	14126	14192	64	MM	HCG2787 = HCG 12-9-21	09 14.9	+49 25	144	+28	.LBR...M060	12.090	621	783		NA	
CG274 HCG 3-18-21	09 01.0	+61 48	210	+27	.SBS.P..M100		3499	3224	38	NA	AMON0916	09 15.7	-11 83	243	+25	.....M		16188	16144	60	MA	
CG275 HCG 18-7-13	09 02.0	+76 16	135	+33	.SXT9...M060	14.970	1459	1329		NA	HCG2828 = HCG 1-9-22-8	09 15.7	-22 08	254	+19	.SBS.P..P200	11.380	909	826		NA	
CG276 HCG 3-23-24	09 02.5	+18 21	210	+37	.E.C...M100	13.210	4283	4876	48	NA	HCG2855 = HCG 18-12-3	09 16.5	+64 69	198	+40	.SKT7..P200		1916	1923		NA	
CG277 HCG 10-13-07	09 02.7	+60 41	195	+48	S45JC	12.3P	1291	1388	37	MC	HCG2411 = HCG 8-21-14	09 16.7	+33 50	191	+44	.E.C...M		5589	5196	65	MA	
CG278 HCG 18-7-16	09 07.3	+78 24	183	+33	.....M060	13.280	2121	2287		NA	HCG2832 = HCG 8-21-15	09 16.8	+39 59	191	+66	.E.C...M	12.810	696	6897	50	MA	
CG279 HCG 1-24-5	09 07.7	+87 15	221	+43	.SBS...M100	13.730	1185	998	78	NA	HCG2814 = HCG 11-12-4	09 17.3	+64 24	150	+40	.L.B...SP200		1672	1700		NA	
CG280 HCG 18-13-05	09 07.8	+68 16	199	+41	.E.P...M060	12.680	1406	1489	179	NA	HCG2829 = HCG 11-12-6	09 17.6	+64 25	158	+48			1497	1605		NA	
CG281 HCG 18-7-19	09 08.0	+76 11	136	+34	.SB...M100	12.880	1489	1489		NA	HCG2861 = HCG 8-14-5	09 18.6	+51 12	167	+44	.SBS.P..P200	18.580	681	871		NA	
CG282 HCG 8-17-96	09 08.9	+45 11	179	+43	.SXT9...M100	12.970	2875	2602		NA	HCG2855 = HCG -2-24-15	09 19.1	-11 40	263	+26	.SBFL..P200	12.480	1908	1863	58	NA	
CG283 HCG 4-17-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	708	431		NA												
CG284 HCG 4-17-25	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG285 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG286 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG287 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG288 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG289 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG290 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG291 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG292 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG293 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG294 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG295 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG296 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG297 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG298 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG299 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG300 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG301 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG302 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG303 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG304 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG305 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG306 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG307 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG308 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG309 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG310 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG311 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG312 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG313 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG314 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG315 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG316 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG317 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG318 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG319 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG320 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG321 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG322 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG323 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG324 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG325 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG326 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG327 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG328 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG329 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG330 HCG 7-19-26	09 10.1	-03 50	252	+16	.LADP...M100	11.470	2520	2516	35	NA												
CG331 HCG 7-19-26	09 10.1	-03 50	252</																			

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF		
BH011809	18 06.6	-84 26	246	+48	.1R..9...P200		330	113		NA	= HCG 4-24-24												
HAKKARJAN 28	18 09.2	+56 39	193	+48	DS12	17P	9852	9135	16	NA	HCG3367 = HCG 4-24-26	18 05.8	+22 08	213	+55	SBS10P	1589	1491	22	NA			
HCG3191 HCG3191 = HCG 7-21-18	18 18.6	+26 51	183	+59			7540	7124	59	NA	HCG3184	18 19.2	+41 40	170	+56	.SXT6...M100	11-140	418	638		NA		
HCG3192 = HCG 7-21-18A	18 10.7	+29 89	183	+55			6471	6456	96	HAMB	HCG3198 = ARP 316	18 15.4	+22 05	213	+56	.SAG19/P200	12-460	1354	1255		NA		
HCG3187 = HCG 4-24-19	18 10.7	+22 99	211	+94	.SX14...M100	12-310	1456	1361	65	NA	HCG3192 = HCG 4-24-27	18 15.7	+22 09	213	+58	.C.2...P200	12-550	1371	1271	58	NA		
HCG3198 = HCG 7-21-28	18 10.9	+29 88	183	+59	.E.C.7...M100	12-940	7824	7999	58	NA	HAKKARJAN 28 = HCG 10-15-64	18 16.3	+57 48	154	+58	DZ1E1	17P	8102	6179	58	NA		
HCG3199 = HCG 7-21-21	18 11.0	+28 54	183	+55	.E.Z...L...		6950	6934		NA	HAKKARJAN 21 = HCG 10-15-65	18 16.4	+57 40	154	+56	S12	14-7P	7755	7832	58	NA		
HCG3188 = HCG 7-21-22	18 11.0	+28 54	183	+55	.E.J...L...		6204	6188		NA	HCG3194 = HCG 8-16-28	18 16.7	+45 49	171	+55	.SBS15..M060	12-840	649	678		NA		
HCG3189 = HCG 7-21-23	18 11.2	+28 52	183	+55	.E.L...L...		6245	6229		NA	HCG3286 = HCG 18-15-59	18 16.5	+57 11	154	+58	SBS15CO		1192	1278	27	NA		
HCG3190 = HCG 1-26-24	18 11.2	+28 52	183	+55	.SAS19..M060	11-740	1298	1156		NA	I 2H 2J	18 16.9	+26 11	283	+57		19-2P	15025	14941	10	NA		
HCG3191 = HCG 1-26-25	18 11.7	+28 43	220	+45	.SAS18...M060	11-580	1381	1208	58	NA	HCG3282 = HCG 3-27-11	18 16.9	+26 08	217	+55	.L8...L...		5977	5671	58	NA		
IJ 2H 44	18 12.5	+21 03	234	+54			15-5P	6137	6052	60	HM	HCG3277 = HCG 3-27-18	18 16.9	+26 11	283	+57		19-2P	15025	14941	10	NA	
HCG3147 = HCG 12-18-29	18 12.8	+73 33	136	+39	.SAT4...M060	11-680	2721	2975	88	NA	HCG3278 = HCG 3-27-18	18 16.9	+26 11	283	+57		19-2P	15025	14941	10	NA		
HCG3177 = HCG 4-24-23	18 13.9	+21 22	214	+54	.SAS13...M100	11-310	1220	1118	65	NA	HCG3229 = HCG 8-16-28	18 17.4	+45 49	171	+55	.SBS15..M060	12-840	649	678		NA		
HAKKARJAN 29	18 14.5	+48 19	190	+48	D12	16-5P	12789	12877	68	PK	HCG3229 = HCG 8-16-28	18 17.4	+45 49	171	+55	.SBS15..M060	12-840	649	678		NA		
HCG3189	18 14.9	+21 56	283	+55	.SBS11...P200	12-750	1241	1142	55	NA	HAKKARJAN 32	18 21.8	+56 31	154	+51	DZ	14P	859	931	60	NA		
HCG3189	18 14.9	+21 56	283	+55	.SBS11...P200	12-750	1241	1142	55	NA	HCG3244	18 26.5	+28 46	282	+58	.LARB...M100	12-170	1261	1188	10	NA		
HCG 5-25-13	18 25.0	+48 43	148	+44	.SX29...P200		44	179		NA	= HCG 7-22-36												
IC2574 = HCG 12-18-38	18 25.0	+48 43	148	+44	.SX29...P200		44	179		NA	HCG3238 = HCG 3-27-18	18 39.5	+34 80	230	+97	.SAS5...M100	11-810	1393	1267		NA		
IJ 2H 46	18 25.1	+22 08	214	+57			18-2P	12684	12918	60	HM	HCG3244 = HCG 4-25-16	18 40.7	+25 11	210	+61	.SR24...M060	11-190	874	984	188	NA	
IJ 2H 47	18 25.2	+19 45	218	+56			15-5P	18384	18268	60	HM	HCG3251 = HCG 2-24-1	18 41.3	+11 58	254	+56	.SBS33..P200	11-820	788	842	83	NA	
HCG3296 HCG3296	18 25.7	+43 38	277	+12	.P.....S100	12-1P	8288	8390		NA	HCG3251 = HCG 2-24-1	18 41.3	+11 58	254	+56	.SBS33..P200	11-820	788	842	83	NA		
HCG3296 = HCG 4-25-19	18 26.5	+29 45	288	+59	.SAS14...P200	12-240	1828	1470	60	NA	HARD 3 = HCG 8-16-28	18 42.3	+56 15	192	+53			862	940		NA		
HCG3298 = HCG 11-13-27	18 29.2	+65 16	143	+46	.SXI16...M060	13-620	1864	1884		NA	HCG3259 = HCG 11-13-17	18 43.4	+63 59	144	+49	.SBS75..P200	11-660	1688	1120		NA		
HARD 2 = HAKKARJAN 33	18 29.3	+54 48	158	+53			13-1Y	1371	1436		HJ	HCG3260 = HCG 12-10-77	18 43.5	+73 87	135	+41	.E.B...M060	12-490	2695	3816	75	NA	
HCG3277 = HCG 9-28-22	18 38.2	+24 44	282	+58	.SAB2...M060	12-960	1448	1399	73	NA	HCG3260 = HCG 2-24-5	18 44.0	+14 01	231	+58	.SBS75..M100	12-420	2674	2753	188	NA		
HCG3298 = HCG 4-25-21	18 34.3	+22 88	215	+59	.PMB10...M100	12-490	1393	1241	75	NA	HCG3261 = HCG 2-28-6	18 44.2	+12 05	235	+57	.SXT2...P200	10-540	936	880	150	NA		
ARP4192M	18 34.3	+24 23	287	+11			6317	6288	180	HJ	HCG3262 = HCG 5-28-8	18 44.5	+17 32	225	+60	.SAS5...M060	12-340	1458	1298	NA			
ARP4192S	18 34.3	+24 23	287	+11			6317	6288	180	HJ	HCG3263 = HCG 2-28-9	18 44.5	+14 15	231	+58	.E..9...P200	11-690	718	593	58	NA		
HCG3292 = HCG 4-25-39	18 34.6	+27 08	278	+27	.SAX19..M060	12-630	2933	2266	79	HM	HCG3264 = HCG 2-28-11	18 45.2	+12 01	233	+58	.E+1...P200	11-840	877	746	132	NA		
HCG3294 = HCG 4-25-46	18 35.2	+27 21	278	+27	.LBT8...M060		3889	3842	91	HAMB	HCG3265 = HCG 2-28-12	18 45.7	+12 54	233	+58	.LBS...P200	11-290	767	694	58	NA		
HCG3298 = HCG 4-25-46	18 35.7	+51 46	157	+44	.SXB2P..M100	11-390	1926	1898		NA	HCG3288 = HCG 2-28-13	18 45.8	+12 48	234	+58	.SAS5...P200	12-740	1334	1283		NA		
HCG3299	18 36.4	+41 56	176	+59	.SBS18...M060	11-840	826	832		NA													
HARD 28	18 44.5	+25 18	280	+63	D2	14-8P	6447	6374	67	HJ	= HCG 9-18-99												
HCG3299 = HCG 8-24-17	18 47.1	+38 19	198	+63	.SXT6P...P200	2-730	1656	1622		NA	HCG3294 = HCG 3-28-18	18 51.8	+17 36	227	+61	.SBS98..M100	11-670	1167	1068		NA		
HCG3296 = HCG 8-24-18 = HCG 8-24-18 = HCG 8-24-18 = HCG 8-24-18 = HCG 8-24-18	18 47.2	+32 16	193	+63	.1B..9P..P200	12-720	1645	1611		NA	HCG3295 = HCG 3-28-21	18 51.8	+17 38	227	+61	.SBS98..M100	11-670	1167	1068		NA		
HCG3292 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3293 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3294 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3295 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3296 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3297 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3298 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3299 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3300 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3301 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3302 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3303 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3304 = HCG 8-28-16	18 48.3	+13 41	233	+59	.LBS4...M100	11-820	861	735	75	HM	HCG3296 = HCG 9-26-32	18 57.7	+14 18	234	+61	.LXT7...M100	11-590	890	578		NA		
HCG3305 = HCG 8-28-16	18 48.3																						

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DM1160	11 04.7	+18 42	227	+65	+E.....P	7882	7386			NA												
DM1167A	11 07.2	+24 32	214	+67		6314	6246			NA												
DM1170	11 07.3	+24 32	214	+67		5496	5489			NA												
DM1184	11 04.1	+29 02	203	+66	+S.....P	8903	8757			NA												
DM1168B	11 04.1	+29 02	203	+66	+L.....P	8550	8504			NA												
DM1180C	11 04.1	+29 02	203	+66		8039	8793			NA												
CG356	11 02.7	+55 57	143	+56	+S856...M100	18.98C	180	753		NA												
CG355	11 02.7	+55 57	143	+56						NA												
CG354	11 02.7	+55 57	143	+56						NA												
CG353	11 02.7	+55 57	143	+56						NA												
CG352	11 02.7	+55 57	143	+56						NA												
CG351	11 02.7	+55 57	143	+56						NA												
CG350	11 02.7	+55 57	143	+56						NA												
CG349	11 02.7	+55 57	143	+56						NA												
CG348	11 02.7	+55 57	143	+56						NA												
CG347	11 02.7	+55 57	143	+56						NA												
CG346	11 02.7	+55 57	143	+56						NA												
CG345	11 02.7	+55 57	143	+56						NA												
CG344	11 02.7	+55 57	143	+56						NA												
CG343	11 02.7	+55 57	143	+56						NA												
CG342	11 02.7	+55 57	143	+56						NA												
CG341	11 02.7	+55 57	143	+56						NA												
CG340	11 02.7	+55 57	143	+56						NA												
CG339	11 02.7	+55 57	143	+56						NA												
CG338	11 02.7	+55 57	143	+56						NA												
CG337	11 02.7	+55 57	143	+56						NA												
CG336	11 02.7	+55 57	143	+56						NA												
CG335	11 02.7	+55 57	143	+56						NA												
CG334	11 02.7	+55 57	143	+56						NA												
CG333	11 02.7	+55 57	143	+56						NA												
CG332	11 02.7	+55 57	143	+56						NA												
CG331	11 02.7	+55 57	143	+56						NA												
CG330	11 02.7	+55 57	143	+56						NA												
CG329	11 02.7	+55 57	143	+56						NA												
CG328	11 02.7	+55 57	143	+56						NA												
CG327	11 02.7	+55 57	143	+56						NA												
CG326	11 02.7	+55 57	143	+56						NA												
CG325	11 02.7	+55 57	143	+56						NA												
CG324	11 02.7	+55 57	143	+56						NA												
CG323	11 02.7	+55 57	143	+56						NA												
CG322	11 02.7	+55 57	143	+56						NA												
CG321	11 02.7	+55 57	143	+56						NA												
CG320	11 02.7	+55 57	143	+56						NA												
CG319	11 02.7	+55 57	143	+56						NA												
CG318	11 02.7	+55 57	143	+56						NA												
CG317	11 02.7	+55 57	143	+56						NA												
CG316	11 02.7	+55 57	143	+56						NA												
CG315	11 02.7	+55 57	143	+56						NA												
CG314	11 02.7	+55 57	143	+56						NA												
CG313	11 02.7	+55 57	143	+56						NA												
CG312	11 02.7	+55 57	143	+56						NA												
CG311	11 02.7	+55 57	143	+56						NA												
CG310	11 02.7	+55 57	143	+56						NA												
CG309	11 02.7	+55 57	143	+56						NA												
CG308	11 02.7	+55 57	143	+56						NA												
CG307	11 02.7	+55 57	143	+56						NA												
CG306	11 02.7	+55 57	143	+56						NA												
CG305	11 02.7	+55 57	143	+56						NA												
CG304	11 02.7	+55 57	143	+56						NA												
CG303	11 02.7	+55 57	143	+56						NA												
CG302	11 02.7	+55 57	143	+56						NA												
CG301	11 02.7	+55 57	143	+56						NA												
CG300	11 02.7	+55 57	143	+56						NA												
CG299	11 02.7	+55 57	143	+56						NA												
CG298	11 02.7	+55 57	143	+56						NA												
CG297	11 02.7	+55 57	143	+56						NA												
CG296	11 02.7	+55 57	143	+56						NA												
CG295	11 02.7	+55 57	143	+56						NA												
CG294	11 02.7	+55 57	143	+56						NA												
CG293	11 02.7	+55 57	143	+56						NA												
CG292	11 02.7	+55 57	143	+56						NA												
CG291	11 02.7	+55 57	143	+56						NA												
CG290	11 02.7	+55 57	143	+56						NA												
CG289	11 02.7	+55 57	143	+56						NA												
CG288	11 02.7	+55 57	143	+56						NA												
CG287	11 02.7	+55 57	143	+56						NA												
CG286	11 02.7	+55 57	143	+56						NA												
CG285	11 02.7	+55 57	143	+56						NA												
CG284	11 02.7	+55 57	143	+56						NA												
CG283	11 02.7	+55 57	143	+56						NA												
CG282	11 02.7	+55 57	143	+56																		

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF		
MCG239 MCG239 MCG239 MCG239 = MCG 2-21-14	11 59.3	-10 35	287	+43	.IB..SP..M100	10.450	1650	1442	1302	59	MA	MCG239 MCG239 MCG239 MCG239 = MCG 2-21-14	11 59.3	-10 35	287	+43	.IB..SP..M100	10.450	1650	1442	1302	59	MA
MCG240 MCG240 MCG240 MCG240 = MCG 2-21-14	11 59.7	+62 35	133	+54	SBERS1BC	12.8P	1104	1312	34	MC	MCG240 MCG240 MCG240 MCG240 = MCG 2-21-14	11 59.7	+62 35	133	+54	SBERS1BC	12.8P	1104	1312	34	MC		
MCG241 MCG241 MCG241 MCG241 = MCG 2-21-14	12 00.4	+09 41	159	+74	D1Z	LAP	4104	6123	00	MC	MCG241 MCG241 MCG241 MCG241 = MCG 2-21-14	12 00.4	+09 41	159	+74	D1Z	LAP	4104	6123	00	MC		
MCG242 MCG242 MCG242 MCG242 = MCG 2-21-14	12 00.6	+44 44	149	+70	SBERS1BC	11.47C	647	634	32	MC	MCG242 MCG242 MCG242 MCG242 = MCG 2-21-14	12 00.6	+44 44	149	+70	SBERS1BC	11.47C	647	634	32	MC		
MCG243 MCG243 MCG243 MCG243 = MCG 2-21-14	12 00.8	+09 04	161	+75	S1Z	15.3P	6905	5927	00	MC	MCG243 MCG243 MCG243 MCG243 = MCG 2-21-14	12 00.8	+09 04	161	+75	S1Z	15.3P	6905	5927	00	MC		
MCG244 MCG244 MCG244 MCG244 = MCG 2-21-14	12 01.2	+60 40	133	+58	D1Z	L	4104	4301	00	MC	MCG244 MCG244 MCG244 MCG244 = MCG 2-21-14	12 01.2	+60 40	133	+58	D1Z	L	4104	4301	00	MC		
MCG245 MCG245 MCG245 MCG245 = MCG 2-21-14	12 01.6	+18 43	249	+76	SDBLP..M100	12.59C	1034	967	NA		MCG245 MCG245 MCG245 MCG245 = MCG 2-21-14	12 01.6	+18 43	249	+76	SDBLP..M100	12.59C	1034	967	NA			
MCG246 MCG246 MCG246 MCG246 = MCG 2-21-14	12 02.0	+48 35	152	+72	L1P	19.1B	15061	15061	00	MC	MCG246 MCG246 MCG246 MCG246 = MCG 2-21-14	12 02.0	+48 35	152	+72	L1P	19.1B	15061	15061	00	MC		
MCG247 MCG247 MCG247 MCG247 = MCG 2-21-14	12 02.4	+50 49	140	+65	SX74..M100	13.27C	732	817	06	MA	MCG247 MCG247 MCG247 MCG247 = MCG 2-21-14	12 02.4	+50 49	140	+65	SX74..M100	13.27C	732	817	06	MA		
MCG248 MCG248 MCG248 MCG248 = MCG 2-21-14	12 02.8	+23 21	189	+79	E..9...P	7.010	7022	7022	NA		MCG248 MCG248 MCG248 MCG248 = MCG 2-21-14	12 02.8	+23 21	189	+79	E..9...P	7.010	7022	7022	NA			
MCG249 MCG249 MCG249 MCG249 = MCG 2-21-14	12 03.2	+23 21	189	+79	L.....P	6.894	6896	6896	NA		MCG249 MCG249 MCG249 MCG249 = MCG 2-21-14	12 03.2	+23 21	189	+79	L.....P	6.894	6896	6896	NA			
MCG250 MCG250 MCG250 MCG250 = MCG 2-21-14	12 03.6	+52 59	138	+63	SX53..M100	12.33C	597	595	MC		MCG250 MCG250 MCG250 MCG250 = MCG 2-21-14	12 03.6	+52 59	138	+63	SX53..M100	12.33C	597	595	MC			
MCG251 MCG251 MCG251 MCG251 = MCG 2-21-14	12 04.0	-29 38	291	+32	E..3...M100	12.38C	1889	1889	00	MA	MCG251 MCG251 MCG251 MCG251 = MCG 2-21-14	12 04.0	-29 38	291	+32	E..3...M100	12.38C	1889	1889	00	MA		
MCG252 MCG252 MCG252 MCG252 = MCG 2-21-14	12 04.4	-29 31	293	+32	LDS...M100	12.72C	2370	1940	00	MA	MCG252 MCG252 MCG252 MCG252 = MCG 2-21-14	12 04.4	-29 31	293	+32	LDS...M100	12.72C	2370	1940	00	MA		

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF
MCG253 MCG253 MCG253 MCG253 = MCG 2-21-14	12 11.7	+01 44	214	+02	L...P..L100	12.02C	2585	2604	NA		MCG253 MCG253 MCG253 MCG253 = MCG 2-21-14	12 11.7	+01 44	214	+02	L...P..L100	12.02C	2585	2604	NA	
MCG254 MCG254 MCG254 MCG254 = MCG 2-21-14	12 12.0	+33 29	173	+80	L...M100	12.02C	1001	1001	00	MA	MCG254 MCG254 MCG254 MCG254 = MCG 2-21-14	12 12.0	+33 29	173	+80	L...M100	12.02C	1001	1001	00	MA
MCG255 MCG255 MCG255 MCG255 = MCG 2-21-14	12 12.4	+01 05	279	+67	AMH1Z1B	20.29	1927	1927	NA		MCG255 MCG255 MCG255 MCG255 = MCG 2-21-14	12 12.4	+01 05	279	+67	AMH1Z1B	20.29	1927	1927	NA	
MCG256 MCG256 MCG256 MCG256 = MCG 2-21-14	12 12.8	+01 05	283	+67	HARD 5	20.29	1927	21	MA		MCG256 MCG256 MCG256 MCG256 = MCG 2-21-14	12 12.8	+01 05	283	+67	HARD 5	20.29	1927	21	MA	
MCG257 MCG257 MCG257 MCG257 = MCG 2-21-14	12 13.1	+21 21	160	+78	IXW...P200	10.40C	290	313	NA		MCG257 MCG257 MCG257 MCG257 = MCG 2-21-14	12 13.1	+21 21	160	+78	IXW...P200	10.40C	290	313	NA	
MCG258 MCG258 MCG258 MCG258 = MCG 2-21-14	12 13.5	+14 11	259	+74	SAT68.L100	12.29C	2129	2247	NA		MCG258 MCG258 MCG258 MCG258 = MCG 2-21-14	12 13.5	+14 11	259	+74	SAT68.L100	12.29C	2129	2247	NA	
MCG259 MCG259 MCG259 MCG259 = MCG 2-21-14	12 13.9	+41 02	146	+75	D2	17P	3723	3759	00	MC	MCG259 MCG259 MCG259 MCG259 = MCG 2-21-14	12 13.9	+41 02	146	+75	D2	17P	3723	3759	00	MC
MCG260 MCG260 MCG260 MCG260 = MCG 2-21-14	12 13.4	+13 25	271	+74	SX53..M100	11.19C	36	- 43	NA		MCG260 MCG260 MCG260 MCG260 = MCG 2-21-14	12 13.4	+13 25	271	+74	SX53..M100	11.19C	36	- 43	NA	
MCG261 MCG261 MCG261 MCG261 = MCG 2-21-14	12 13.5	+08 51	144	+75	SDZ	14P	5404	5462	00	MC	MCG261 MCG261 MCG261 MCG261 = MCG 2-21-14	12 13.5	+08 51	144	+75	SDZ	14P	5404	5462	00	MC
MCG262 MCG262 MCG262 MCG262 = MCG 2-21-14	12 13.7	+48 18	149	+68	LAR...M100	12.54C	979	1051	00	MA	MCG262 MCG262 MCG262 MCG262 = MCG 2-21-14	12 13.7	+48 18	149	+68	LAR...M100	12.54C	979	1051	00	MA
MCG263 MCG263 MCG263 MCG263 = MCG 2-21-14	12 13.8	+28 28	283	+82	L.....P	05.71	6596	6596	NA		MCG263 MCG263 MCG263 MCG263 = MCG 2-21-14	12 13.8	+28 28	283	+82	L.....P	05.71	6596	6596	NA	
MCG264 MCG264 MCG264 MCG264 = MCG 2-21-14	12 13.8	+28 29	283	+82	E..E...P	04.64	6663	6663	NA		MCG264 MCG264 MCG264 MCG264 = MCG 2-21-14	12 13.8	+28 29	283	+82	E..E...P	04.64	6663	6663	NA	
MCG265 MCG265 MCG265 MCG265 = MCG 2-21-14	12 14.3	+08 09	132	+89	SZ	16P	6669	6776	00	MC	MCG265 MCG265 MCG265 MCG265 = MCG 2-21-14	12 14.3	+08 09	132	+89	SZ	16P	6669	6776	00	MC
MCG266 MCG266 MCG266 MCG266 = MCG 2-21-14	12 14.6	+03 38	242	+85	T...S.	15.04C	2163	2024	75	MC	MCG266 MCG266 MCG266 MCG266 = MCG 2-21-14	12 14.6	+03 38	242	+85	T...S.	15.04C	2163	2024	75	MC
MCG267 MCG267 MCG267 MCG267 = MCG 2-21-14	12 14.9	+48 54	141	+78	SX56..M100	11.07C	663	724	07	MAB	MCG267 MCG267 MCG267 MCG267 = MCG 2-21-14	12 14.9	+48 54	141	+78	SX56..M100	11.07C	663	724	07	MAB
MCG268 MCG268 MCG268 MCG268 = MCG 2-21-14	12 15.8	+28 05	199	+77	SX56..M100	10.61C	240	269	NA		MCG268 MCG268 MCG268 MCG268 = MCG 2-21-14	12 15.8	+28 05	199	+77	SX56..M100	10.61C	240	269	NA	
MCG269 MCG269 MCG269 MCG269 = MCG 2-21-14	12 15.3	+29 53	193	+82	XBR0..M100	12.91C	490	462	05	MA	MCG269 MCG269 MCG269 MCG269 = MCG 2-21-14	12 15.3	+29 53	193	+82	XBR0..M100	12.91C	490	462	05	MA

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF
MCG270 MCG270 MCG270 MCG270 = MCG 2-21-14	12 17.4	+06 48	283	+57	L...M100	12.31C	2502	2492	00	MA	MCG270 MCG270 MCG270 MCG270 = MCG 2-21-14	12 17.4	+06 48	283	+57	L...M100	12.31C	2502	2492	00	MA
MCG271 MCG271 MCG271 MCG271 = MCG 2-21-14	12 17.9	+29 39	193	+83	R...P200	13.03C	1505	1076	NA		MCG271 MCG271 MCG271 MCG271 = MCG 2-21-14	12 17.9	+29 39	193	+83	R...P200	13.03C	1505	1076	NA	
MCG272 MCG272 MCG272 MCG272 = MCG 2-21-14	12 18.1	+75 40	125	+42	E..24...L100	12.48C	1315	1394	NA		MCG272 MCG272 MCG272 MCG272 = MCG 2-21-14	12 18.1	+75 40	125	+42	E..24...L100	12.48C	1315	1394	NA	
MCG273 MCG273 MCG273 MCG273 = MCG 2-21-14	12 18.7	+18 40	263	+79	RSR58..M100	11.59C	750	695	NA		MCG273 MCG273 MCG273 MCG273 = MCG 2-21-14	12 18.7	+18 40	263	+79	RSR58..M100	11.59C	750	695	NA	
MCG274 MCG274 MCG274 MCG274 = MCG 2-21-14	12 18.7	+11 47	277	+75	SX56..M100	12.03C	398	306	47	MAB	MCG274 MCG274 MCG274 MCG274 = MCG 2-21-14	12 18.7	+11 47	277	+75	SX56..M100	12.03C	398	306	47	MAB
MCG275 MCG275 MCG275 MCG275 = MCG 2-21-14	12 19.2	+11 47	277	+73	SB..P200	13.27C	107	103	36	MAB	MCG275 MCG275 MCG275 MCG275 = MCG 2-21-14	12 19.2	+11 47	277	+73	SB..P200	13.27C	107	103	36	MAB
MCG276 MCG276 MCG276 MCG276 = MCG 2-21-14	12 19.4	+04 45	244	+66	SLE...P200	13.49C	1671	1559	150	NA	MCG276 MCG276 MCG276 MCG276 = MCG 2-21-14	12 19.4	+04 45	244	+66	SLE...P200	13.49C	1671	1559	150	NA
MCG277 MCG277 MCG277 MCG277 = MCG 2-21-14	12 20.0	+10 10	144	+83	SBT...P200	11.92C	463	679	05	MA	MCG277 MCG277 MCG277 MCG277 = MCG 2-21-14	12 20.0	+10 10	144	+83	SBT...P200	11.92C	463	679	05	MA
MCG278 MCG278 MCG278 MCG278 = MCG 2-21-14	12 20.4	+16 06	273	+77	SX56..M100	10.58C	1617	1552	75	MA	MCG278 MCG278 MCG278 MCG278 = MCG 2-21-14	12 20.4	+16 06	273	+77	SX56..M100	10.58C	1617	1552	75	MA
MCG279 MCG279 MCG279 MCG279 = MCG 2-21-14	12 20.6	+09 31	285	+67	LAR...M100	12.42C	1714														

IGNITION	RA(1980)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	
HCG 2-32-64											* BRP 13A * M9											
4418 HCG 2-32-65 ARP 120 4418B	12 29.3	+13 17	200	+75	.SAS1P*H180	11.240	- 32	- 105	75	NA	HCG4476 * HCG 2-32-94	12 27.4	+14 24	241	+74	.L.....R	12.980	1926	1498	80	NA	
4440 HCG 2-32-64	12 25.6	+10 05	204	+72	.L059...M060	11.970		493	100	NA	HCG4477 * HCG 2-32-97	12 27.6	+13 55	242	+76	.LBS0*H188	11.970	1263	1194	75	NA	
4449 HCG 7-20-9	12 25.3	+44 22	137	+72	.10.9...M180	10.470		287 289	288 271	NA NB	HCG4478 * HCG 2-32-100	12 27.6	+13 55	242	+74	.LBS0*H188		422	758	100	NA	
4450 HCG 9-29-69	12 25.9	+26 54	195	+85	.S0R2...M180	12.070		533	447	NA	HCG4479 * HCG 2-32-101	12 27.6	+12 36	243	+74	.E.2...P230	12.690	1442	1407	78	NA	
4451 HCG 2-32-44	12 25.9	+17 21	274	+79	.SAS2...M180	11.490		2848	3992	150	NA	HCG4480 * HCG 7-26-11 4480-B*BRP269 * M92	12 26.2	+12 46	243	+79	.E.6...P288		1404	1412	50	NA
4458 HCG 2-32-82	12 26.4	+13 31	241	+75	.E.6...M180			363	511	250	NA	HCG4481 * HCG 2-32-104 4481-B*BRP269 * M92	12 26.2	+11 50	134	+75	.105P*H188	12.980	795	844		NA
4457 HCG 1-32-75	12 26.4	+10 31	249	+86	.SAB(S)17A	11.770		739	627	26	MC	HCG4482 HCG4483 HCG4484 * HCG 2-32-105 4484-B*BRP269 * M92	12 26.3	+11 55	138	+75	.SBS7P*H180	12.920	970 476 560	622 529 632	29 29	NA NB NA
4459 HCG 2-32-63	12 26.5	+14 15	288	+76	.LAR...M180	12.210		1111	1042	75	NA	HCG4485 HCG4486 HCG4487 * HCG 2-32-106 4487-B*BRP269 * M92	12 26.3	+12 44	244	+75	.E.BPP*P280	14.740	1261 1343	1147 1109	41	NA NB
4454 HCG 2-32-84	12 26.6	+12 28	241	+78	.LBS4...M180	12.320		1867	1515	48	NA	HCG4488 HCG4489 * BRP 15E * H 87 * HCG 2-32-105 * JC 274 * M92										
4444 HCG 1-32-74	12 26.8	+10 26	287	+70	.E.2...M			1199	1186	54	NA	HCG4490 * HCG 1-32-81	12 28.4	+14 21	244	+70	.S.....M		1739	1643	200	NA
4487 HCG 1-32-88	12 27.0	+10 16	247	+70	.E.2...M			1474	1382	244	NA	HCG4491 * HCG 1-32-82	12 28.9	+14 03	229	+80	.E.1...P288	11.240	1321	1305		NA
4473 HCG 2-32-93	12 27.3	+13 42	282	+75	.E.9...M180	11.790		2241	2171	75	NA	HCG4492 * HCG 1-32-82	12 29.1	+14 12	232	+86			1803	1775	64	MC
4472 HCG 1-32-43	12 27.3	+10 16	287	+70	.E.2...P280	10.100		940 676	855 742	45	NA NB	HCG4493 HCG4494										

IGNITION	RA(1980)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	
4498B C4498B C4498B	12 29.1	+14 12	241	+88	.I..... SBIR23R			1773 1775 1776	1668 1669 1668	NA NB MC	* HCG 2-32-147 HCG4496 * HCG 1-32-27	12 32.9	+13 31	239	+88	.LBS2...M180	11.410	1014	679	40	NA	
4491 HCG 3-32-59	12 29.5	+14 42	282	+77	.SAB7...M180	10.410		2120	2656	188	NA	HCG4497 * HCG 2-32-149	12 33.1	+12 39	244	+75	.E.B...L036	12.490	265	195		NA
4492B HCG 9-32-24	12 30.1	+10 27	240	+71	.E.9...M			1317	1233	388	NA	HCG4498 * HCG 2-32-148	12 33.1	+12 39	244	+75	.E.2...L036		974	907	100	NA
4517 HCG 9-32-24	12 30.2	+10 23	213	+63	.SAS6P*H060	11.250		1210	1099		NA	HCG4499 * HCG 3-38-38	12 33.9	+12 64	194	+87	.SAB...M180	10.470	694	592		NA
4441 HCG 2-32-127	12 30.3	+11 44	287	+74	.E.3...M			7106	7009	88	NA	HCG4500 * HCG 1-38-44	12 33.9	+12 14	241	+87	.SAS2P*....	10.340	1543	1171		NA
4414 HCG 2-32-129	12 30.5	+11 40	287	+74	.L.....M			7394	7228	65	NA	HCG4501 * HCG 2-32-138	12 34.8	+11 43	239	+74	E6	12.1P	1615	941	24	MC
4482 HCG 2-32-129 811 83*BRP176 HCG	12 30.6	+11 37	247	+74	.S..4P..M			106	31	40	NA	HCG4502 * HCG 2-32-131	12 34.8	+11 32	240	+74	.SAB...P280	12.420	2293	2179		NA
4479 HCG 2-32-125	12 31.0	+10 56	289	+71	.SBR7...M180	12.430		1215	1125		NA	HCG4503 * HCG 2-32-152	12 34.3	+11 31	239	+74	.SAB...P280	12.070	2274	2284		NA
4478 HCG 1-32-100	12 31.6	+10 58	298	+70	.L059P*H060	10.420		487	396		NA	HCG4504 * BRP 7A * HCG 2-32-155	12 34.3	+13 25	240	+76	.SBR2...P280	10.480	968	692	25	NA
4477 HCG 1-32-101	12 31.6	+10 56	293	+65	.SAS4...M180	11.300		1727	1616	75	NA	HCG4505 * HCG 1-32-154	12 34.4	+10 31	239	+70	.L.....M180	12.180	1734	1634	75	NA
4475 HCG 1-32-194	12 31.8	+10 20	248	+71	.SAS5...M180	10.810		1949	1854		NA	HCG4506 * HCG 2-32-159	12 35.8	+10 59	232	+72	.L4...M	12.140	2282	2281	50	NA
4492 HCG 1-31-183	12 31.9	+10 44	291	+69	EM	12.1P		2159	2050	21	MC	HCG4507 * HCG 2-32-160	12 35.1	+12 05	239	+74	.SAB...P280	11.000	1782	1600	150	NA
4436 HCG 8-32-23	12 31.9	+10 20	243	+65	.SAB7...M060	10.840		1327	1314		NA	HCG4508 * HCG 10-12-13	12 35.6	+10 28	124	+83	.E.2...M180	12.320	1825	2083	75	NA
4484 HCG 3-32-75	12 32.9	+14 46	249	+77	.SBR7...P288	11.470		433	371	50	NA	HCG4509 * HCG 2-32-162	12 37.4	+10 54	237	+57	.SBR4506	12.1P	2498	2561	19	MC
4488	12 32.9	+12 30	248	+78	.L.....L036	12.720		358	279	50	NA											

SIGNATURE	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	
C4594 C4594 HCG 2-32-20	12 37.3	+11 21	298	+91	.SAS1P*P280	9.320		1160 1098	1062 494	41	NA NB	* HCG 2-32-1 HCG4510 HCG4511 * HCG 2-32-2 4511-B*BRP151	12 41.1	+11 49	296	+74	.E.2...P288	10.670	1269 1193	1200 1205	41	NA NB
C4489 HCG 10-18-74	12 37.8	+11 53	125	+55	.SBS5P*H180	11.360		140	276		NA	HCG4512 * HCG 2-32-1 4512-B*BRP151	12 41.2	+11 49	292	+79	.SAR5IC	11.4P	733	685	42	MC
RD 31A RD 31B	12 38.5	+28 14	193	+87	DZ			9278	9384		HJ	HCG4513 * BRP 15D * HCG 2-32-1 * H956	12 41.4	+11 24	295	+76	.SAR5IC	11.7P	1822	968	45	MC
C4616 C4616 HCG 1-31-183 HCG 2-32-23	12 38.2	+11 29	141	+76	.SBR7...M180 SBR7R1M	11.710		484 592	540 616	22	NA MC	HCG4514 * HCG 2-32-4 HARD 2ER HARD 3ER HARD 3ER	12 41.5	+10 11	125	+62		15.6P	4471	5883	57	HJ
C4623 HCG 2-32-103	12 39.5	+11 59	296	+74	.E.5...M180	12.440		414	348	123	NA	HARD 3ER HARD 3ER	12 41.5	+10 11	125	+62	S0Z	14.2P	4412	5824	52	HJ
C4631 C4631 HCG 9-28-57	12 39.8	+12 43	143	+44	.SBS7...P280	9.860		654 660	444 445	38	NA NB	I 2H 4R * HCG 9-28-33/34	12 41.5	+10 11	125	+62		13.5P	4488	5818	60	HJ
C4632 HCG 9-32-38	12 40.9	+11 51	298	+83	SAC	12.1P		1488	1572	20	MC	HCG4516 * HCG 2-32-5 HCG4517 * HCG 2-32-5	12 41.6	+12 26	140	+85	.SBS5P*H060	11.120	755	775		NA
C4634 HCG 2-32-188	12 41.2	+11 43	299	+74	.L.....L036	12.680		1803	1016	198	NA	HCG4518 * HCG 2-32-5 HCG4519 * HCG 2-32-5	12 42.8	+11 26	297	+74	.E.6...L036	12.510	1817	948	28	NA
0 J2D 0 J2D HCG4604	12 40.3	+10 59	126	+61	D	15.8P		4764	4676	86	HJ	HCG4520 * HCG 2-32-5 HCG4521 * HCG 1-33-5	12 42.5	+10 51	125	+63	D	13.3P	4399	5111	299	HJ
4636 C4636 HCG 2-32-137	12 40.3	+10 57	294	+65	.E.4...P280	10.910		443 736	770 829	41	NA NB	HCG4522 * HCG 9-33-8 HARD 33	12 42.6	+10 12	299	+62	.SAB...M180	11.780	1645	1538		NA
4643 HCG 8-33-5	12 40.9	+12 19	298	+65	.SBR7...P280	11.830		1432	1325		NA	HCG4523 HCG4524	12 42.8	+12 43	169	+88	DZ	14.5P	1311	1313	142	HJ
4647	12 41.0	+11 51	298	+74	.SBR7...P280	12.210		1394	1328		NA	HCG4525 HCG4526	12 42.8	+12 24	218	+89	.SBS5P*P280	13.240	1218	1289		NA

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= ARP 183 = MCG 5-20-72											MCG498	12 45.8	+05 45	361	+71	.S852...M808	12.23D	1632	955	51	L
MARKARIAN 64	13 42.9	+27 23	34	+78	DS21E1	17P	5174	9288	40	MC	MCG 2-23-24	12 46.0	-05 32	302	+57	.E.G...P208	10.71C	1300	1176	85	II
HARO 34	12 42.9	+21 24	238	+88	S2	14.6V	7802	6879	94	NJ	MCG497	12 46.0	-05 32	302	+57	.E.G...P208	10.71C	1300	1176	85	II
MCG494 = MCG 5-30-73	12 43.2	+27 20	238	+89	.E...P308		6991	6990		NA	MCG496	12 46.1	+41 02	382	+82	.E...S308	12.10C	2794	2567		II
MCG496A	12 43.7	+31 00	141	+86	.L...P8		6500	6515		NA	HARO 37	12 46.3	+34 49	127	+83	S1	14.9F	4182	4215	72	II
MCG495B MCG495A MRP242 = V2224	12 43.7	+31 00	141	+86	.S852P.4		6605	6620		NA	MCG499	12 46.5	-08 24	362	+54	.SRTJ...M808	11.15C	1513	1369		II
IC3913 = MCG 5-18-78	12 44.2	+38 00	144	+87			4659	4663	100	NI	MCG478	12 47.1	+55 26	161	+79	SRTJ8		1125	1076	25	II
AM01244	12 44.2	+26 50	241	+89			879	876		MA	ANDRIZ68	12 47.2	+27 10	243	+78			7429	7438		H
MCG498B = HARO 32H = MCG 9-21-44	12 44.4	+55 21	124	+62	05	12.8	5415	5327	162	MC	MCG478A	12 47.2	+27 10	243	+78	.L...S818		3511	3285		H
HARO 36	12 44.7	+51 52	125	+65	(NEAK)	14.8V	322	424	20	MC	MCG478B	12 47.3	+41 06	181	+2L	.E...S818		6897	6882	188	H
IC6821 = MCG 5-38-83	12 45.0	+30 84	140	+87			6950	5862	150	MC	MCG475	12 47.4	+28 05	150	+88			6897	6882	188	H
MCG476 = MCG 3-33-9	12 47.1	+15 26	300	+73			1066	1046	100	MI	MCG475A	12 47.4	+28 05	150	+88			6897	6882	188	H
AM01249	12 45.1	+27 15	222	+A9			7116	7116		MA	MCG475B	12 47.4	+28 05	150	+88			6897	6882	188	H
MCG495 = HARO 32J = MCG 9-21-49	12 49.3	+55 12	124	+62	5	14.0V	4926	5848	21	MC	MCG475C	12 47.5	+05 35	182	+68	.SRTJ...M808	10.50C	684	575		H
MCG492	12 45.4	+27 29	246	+89			7911	7932		NA	MCG476	12 46.0	+27 42	159	+80			6922	6882		H
MCG491 = MCG 3-33-15	12 45.6	+63 84	381	+60	S8(S)A/P		1314	994	20	MC	MCG476A	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
ANDRIZ68A	12 45.8	+27 06	243	+69			6917	6917		NA	MCG476B	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476C	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476D	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476E	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476F	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476G	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476H	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476I	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476J	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476K	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476L	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476M	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476N	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476O	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476P	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476Q	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476R	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476S	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476T	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476U	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476V	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476W	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476X	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476Y	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H
											MCG476Z	12 46.3	+25 46	256	+88	.S852P.4	10.25C	1154	1189	88	H

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MCG473L = MCG 7-24-58	12 48.4	+41 23	123	+76	S8AR...P288	9.44C	300	382		NA	= MCG -2-33-80										
MCG473J = MCG 2-33-28	12 48.7	+29 04	125	+86			4575	4585	108	MI	MCG489	12 52.1	+52 54	328	+68	.J...9P.P288		951	854		MC
ANDN	12 48.6	+27 23	233	+90			5434	5437	100	MI	MCG488B	12 52.3	+52 56	328	+68	.J...9P.P288		880	784		MC
MCG475 = MCG 5-38-105A	12 48.4	+27 42	127	+90			7196	7160	180	MI	MCG488C	12 52.4	+52 56	328	+68	.J...9P.P288		880	784		MC
MCG472 = MCG -2-33-52	12 49.2	+10 12	303	+52	.E...P.8800	12.31C	1323	1375	50	NA	MCG488D	12 52.4	+52 56	328	+68	.J...9P.P288		880	784		MC
MCG474 = MCG 2-33-30	12 49.7	+11 35	304	+74	.LOR...M100	11.30C	1461	1396	75	NA	MCG488E	12 52.4	+52 56	328	+68	.J...9P.P288		880	784		MC
MCG475Z MCG475X = MCG 8-33-16	12 49.8	+08 55	303	+62	.J...D...M100 [IC DR PEC	10.75C	1364 487	1252 735	57	MC	COMPANION	12 58.1	+27 47	95	+69			7119	7127	156	H
AF COMA	12 58.4	+28 39	109	+69			7103	7112	158	MC	IC3906	12 58.2	+27 32	42	+69	.L.....M		7171	7174	58	MA
MCG475Z MCG475Z = MCG 2-33-33	12 59.4	+11 31	314	+74	.L808/M100	11.72C	439 825	876 822	41	MC	MCG488F	12 53.3	+59 37	122	+59	.S852P.4	12.47C	2531	2561	85	MC
I ZH 43	12 58.6	+47 01	122	+70			18105	18194	80	NH	MCG488G	12 53.3	+59 37	122	+59	.S852P.4	12.47C	2531	2561	85	MC
MCG477S = MCG -1-33-43	12 56.1	+46 21	304	+56	.S852P.4	12.23C	1064	1552		NA	MCG488H	12 53.3	+59 37	122	+59	.S852P.4	12.47C	2531	2561	85	MC
MCG476L = MCG -2-33-49	12 51.8	+18 16	304	+52	.SRTJ...M808	12.10C	495	751		NA	MCG488I	12 53.3	+59 37	122	+59	.S852P.4	12.47C	2531	2561	85	MC
MCG4789 = MCG 5-39-124	12 51.9	+27 28	27	+69	.L...P.4056		6172	8277		NA	MCG488J	12 53.3	+59 37	122	+59	.S852P.4	12.47C	2531	2561	85	MC
MCG4783 = MCG -2-33-51 4782-3 = SO 276	12 52.0	+12 14	304	+58	.E...P.4188	13.11C	4677	4527		NA	MCG488K	12 54.3	+27 27	36	+69	.E.....		7698	7657		MC
MCG4782	12 52.8	+12 15	304	+58	.E...P.4188	12.90C	4089	1658		NA	MCG488L	12 54.3	+27 27	36	+69	.E.....		7698	7657		MC
											AM01259	12 54.5	+32 42	111	+85	.P.....M		13481	13468		MA

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A9 COMA	12 54.5	+27 18	27	+69			6248	6254	100	MI	= MCG 9-21-49										
I ZH 45 = MCG487 = MCG 8-24-11/12	12 54.6	+48 34	123	+69		14.4P	8744	88													

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HDG 5-31-68											# HDG 5-31-61											
42871 HDG 5-31-56	12 57.1	+28 14	58	+48		7048	7108	150	NI		NO. 47	12 57.6	+28 21	59	+54	SDG		7381	7394	188	NI	
43973	12 57.1	+28 09	56	+80		4728	4732	158	NI		IC4821 # HDG 5-31-80	12 57.6	+28 19	59	+88	.E.....M		5789	5802	75	NA	
43998 HDG 5-31-71	12 57.2	+29 10	77	+80		6192	6288	158	NI		NGC4896 # HDG 5-31-84	12 57.9	+28 35	65	+84	.L.....M		6828	6934	150	NA	
4872	12 57.2	+28 14	58	+84	.E.....M	12.6P	5818	6922	380	NA	NO. 91	12 57.9	+28 20	58	+88	SDG		6156	6179	159	NI	
4872 HDG 5-31-64	12 57.2	+28 13	57	+88		7099	7821	100	NI		NGC4896 # HDG 5-31-82	12 57.9	+28 13	56	+88	.L.....M		6335	6348	50	NA	
4874	12 57.2	+28 14	58	+88	.L.....M		7171	7183	30	NA	IC4840 # HDG 5-31-85	12 58.2	+28 28	58	+88	.S.....P		7513	7526		NA	
4874 HDG 5-31-78	12 57.2	+28 14	57	+88			7119	7131	100	NI	NGC4800 # HDG 5-31-85	12 58.2	+28 46	389	+85	.SDFS..M885	12.24C	1354	962		NA	
4876 HDG 5-31-73	12 57.3	+28 11	56	+88		6967	6979	180	NI		IC4842	12 58.3	+28 14	58	+88			6230	6243	100	NI	
4905	12 57.3	+27 58	58	+88		8208	8219	150	NI		MD. 113	12 58.3	+28 14	55	+88	SDG		8343	8356	308	NI	
4905	12 57.4	+28 15	57	+88		9346	9358	150	NI		NGC4902 # HDG 5-31-82	12 58.3	+28 15	398	+88	.SDR...M880	11.41C	2754	2665		NA	
4831 HDG 5-31-75	12 57.5	+28 31	84	+88	.E.....M		6691	6705	50	NA	NGC4907 # HDG 5-31-88	12 58.4	+28 25	69	+88	.S.....L		5888	5882		NA	
4831	12 57.5	+28 18	58	+88		7936	7949	188	NI		IC4845 # HDG 5-31-88	12 58.4	+28 21	58	+88	.E.....M		6927	6941	288	NA	
4836 HDG 5-31-76	12 57.6	+28 15	58	+88	.L.....M		6214	6227	150	NI	NGC4888 # HDG 5-31-92	12 58.4	+28 18	57	+88	.E.....M		8838	8851	150	NA	
4836	12 57.6	+27 10	26	+88		5873	5881	188	NI		IC4851	12 58.4	+28 17	57	+88	.E.....M		1422	1445	150	NA	
4836 HDG 5-31-74	12 57.6	+27 10	26	+88		6758	6771		NA		ALC CDNA	12 58.4	+28 38	63	+87			7680	7695		NI	
4839 HDG 5-31-77	12 57.7	+28 15	57	+88	.E.....M	12.47C	6443	6456		NA	NGC4911 # HDG 5-31-92	12 58.6	+28 03	51	+88	.S.....L		8305	8318		NA	
4839	12 57.8	+28 29	53	+88	.L.....M		8405	8429	75	NA												

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= VV55											= HCG 8-25-52										
HCG5278 = HCG 9-22-181 5278+99ARP219 = VV19 = 1832	13 39.8	+55 55	189	+68	.SASL..P260	7528	7665			NA	HCG5303 = HCG 7-20-23	13 55.8	+42 05	85	+78	.SB7P..H088	12.49C		2204	2368	
HCG5279 = HCG 9-22-182 5279+99ARP219 = VV19 = 1832	13 39.6	+55 55	189	+68	.SBX1P..P200	7560	7788			NA	HCG5304 = HCG 6-21-32 8304+99ARP204	13 54.5	+57 41	73	+73	.S853P..H100			2398	2648	188
HCG5280 = HCG 8-28-72	13 35.9	+59 55	74	+76	.LXSD...P200	12.67C	1822	1894	28	NA	HCG5305 = HCG 1-30-5 9428+99ARP271 = VV21	14 00.6	+51 57	99	+62	L 2M 78	LFP		12358	12498	18
HARAKIRI 69	12 42.5	+29 53	18	+78	X1	16.50P	22435	22476	18	NK	HCG5306 = HCG 9-22-35	14 00.8	+59 49	333	+53	.S853P..P200	12.67C		2492	2428	
ANDR1245H	13 44.4	+34 27	68	+76			4912	4941			HCG5307 = HCG 6-26-3	14 01.4	+55 35	182	+68	.S853P..P200	12.67C		286	415	86
ANDR1245A	13 44.9	+34 06	68	+78			4448	4517			HCG5308 = HCG 10-20-29	14 01.4	+59 25	94	+64	RSR1...H088	12.39C		1974	2183	88
HCG5301 = HCG 8-25-41	13 45.0	+46 24	97	+88	.SAS3P..H088	12.71C	3782	3816		NA	HCG5309 = HCG 9-22-36	14 01.4	+55 35	182	+68	.S853P..P200	12.67C		286	415	86
HCG5302 = HCG 10-20-29	13 45.4	+46 24	111	+59	.L...H060	12.67C	2839	2199		NA	HCG5310 = HCG 9-22-36	14 01.4	+59 25	94	+64	RSR1...H088	12.39C		1974	2183	88
HCG5322 = HCG 18-19-15	13 47.6	+40 26	110	+56	.E...H060	11.60C	1902	2061	75	NA	HCG5311 = HCG 9-22-36	14 02.4	+59 57	97	+63	.SAS5P..H060	12.58C		1720	1499	
HCG5351 = HCG 7-29-10	13 51.5	+40 33	83	+72	.L...H060	12.74C	2164	2289	85	NA	HCG5312 = HCG 9-22-36	14 02.6	+59 57	97	+63	.L...H060			2029	2165	
HCG5371 = HCG 7-29-20	13 53.6	+48 43	82	+71	.SXTA...H100	11.97C	2982	2682		NA	HCG5313 = HCG 9-23-31	14 03.0	+55 88	182	+59	.LX5P..H060	12.84C		2044	2199	
HCG5383 = HCG 1-36-2	13 53.6	+49 29	142	+63	.E...H100	11.94C	1134	1103		NA	HCG5314 = HCG 8-23-32	14 03.2	+53 54	181	+60	.SAS6P..P200	11.94C		247	399	
HCG5386 = HCG 1-36-3	13 53.7	+49 15	143	+63	.SXTAP..P200	11.18C	1394	1357	158	NA	HCG5315 = HCG 1-38-7	14 04.8	+45 14	325	+53	.SXTA...H100	12.38C		2894	2749	
HCG5377	13 54.3	+47 27	95	+66	H051...H100	12.23D	1820	1954	100	NA	HCG5316 = HCG 1-38-7	14 05.5	+55 14	322	+59	.L...P..H060	12.82C		1948	2137	50

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VB	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VB	ERROR	
= HCG 9-23-37											= HCG 1-87-7										
I 2M 88	14 86.4	+49 89	94	+64		16P	1948L	1881L	80	NH	I 2M 83	14 20.0	+46 57	87	+64		15.5P		4102	8224	88
HCG5403 = HCG 1-38-13	14 88.9	+04 49	337	+53	.L...P..H100	12.65C	2627	2164	75	NA	I 2M 84 = HCG 9-26-25/26	14 20.4	+48 44	90	+62		LFP		21997	21997	88
ANDR1418	14 89.7	+52 34	98	+61			8723	8888	75	NA	HCG5414 = HCG 6-32-22	14 22.0	+39 05	60	+69	.S8R2P..P200	12.79C		2872	2871	75
HCG5481 = HCG 0-36-20	14 10.7	+02 56	339	+74	.S...S..H030		2199	2142			HCG5431 = HCG 10-21-2	14 29.1	+56 48	89	+56	.L058...H060	12.74C		1974	2344	88
HCG5507 = HCG 0-36-20	14 14.8	+02 55	339	+74	.E...S..H030		1884	1823		NA	HCG5435 = HCG 8-20-34	14 29.6	+46 22	94	+61	RSR1...H088	13.14C		2364	2484	
HCG5483 = HCG 6-31-89	14 14.1	+38 39	83	+78	.SXTA...P200	12.74C	3741	3876	88	NA	HCG 41	14 24.2	+27 25	38	+68	D2	15.1H		3310	3494	174
HCG5494 = HCG 9-31-88	14 15.8	+34 48	86	+78	RSB10...P200		3165	3269		NA	HCG5438 = HCG 6-17-17	14 27.1	+03 27	292	+57	.E...H060	12.65C		1877	1683	90
HCG5490 = HCG 0-31-91 5490+99ARP219 = VV21	14 15.0	+36 46	86	+78	.SASA...P200		3179	3279		NA	HCG5453 = HCG 8-24-58	14 28.8	+31 25	49	+64	PSAT3...H100	12.39C		3597	2648	
HCG5488 = HCG 0-31-13	14 15.7	+29 02	32	+71	PSAS8...H100	13.36C	4928	4998	98	NA	HCG5482	14 29.4	+27 27	29	+59	S02	14.5Y		4512	4509	14
HCG5557 = HCG 0-31-93	14 16.4	+30 43	65	+69	.E...H060	12.81C	3199	3296	80	NA	HCG5465 = HCG 1-37-24 = ARP 44	14 29.4	+08 28	359	+60	SD(S)MP			2244	2256	21
HCG5566 = HCG 1-37-2 5566+99ARP206	14 17.4	+04 11	349	+59	.SBR2...P200	11.78C	1601	1643	49	NB	HCG5472 = HCG 9-34-68	14 31.5	+31 52	51	+67	.S...H			3781	3796	69
HCG5485 = HCG 10-20-94	14 16.0	+46 57	101	+57	.SXT5...P200	11.88C	314	467		NA	HCG5476 = HCG 10-21-5	14 30.7	+48 88	100	+55	.SXT3...H060	12.29C		2308	2472	
HCG5474 = HCG 1-37-6	14 16.4	+03 28	249	+60	.LBP...H100	12.38C	1714	1894	83	NA	HCG5468 = HCG 1-37-21	14 30.9	+34 43	354	+57	.S857P..P200	12.24C		1737	1732	
HCG5476	14 16.9	+03 30	249	+60	.E...H100	12.31C	1628	1907	100	NA	HCG5470 = HCG 8-26-43	14 31.0	+49 41	88	+68	.S854P..H060	11.93D		2244	2399	
											HCG5482	14 32.4	+44 53	87	+61	SB(S)B			2244	2430	38

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= HCG 8-27-2											I 2M 88 = HCG 9-24-68 = IC1998 = HCG 7-21-29	14 56.4	+53 26	90	+59		15.6P		9275	9447	64
HCG5483 = HCG 8-27-3	14 33.0	+44 53	96	+61	SB(S)B/A		2268	2394	90	NC	HCG5480 = ARD 128 = HCG 9-25-1	14 57.2	+54 09	91	+59	.L...H088	13.14C		3269	3445	65
HCG5487 = HCG 9-24-20	14 33.3	+54 42	95	+57	.L...H060	12.92C	2319	2284	75	NA	HCG5486 = HCG 8-28-14	14 57.5	+62 05	399	+58	.S8X3...H100	12.57C		1391	1309	65
HCG5489 = HCG 9-27-4	14 33.7	+46 57	87	+61	.S828P..H060	12.70C	2209	2396	90	NA	I 2M 96 = HCG 1-18-16	14 57.8	+42 13	71	+63		14.8P		2966	2841	60
HCG5485 = HCG 0-37-22	14 37.6	+00 05	351	+52	.SXTAP..P200	12.88C	1944	1910		NA	HCG5482 = HCG 1-18-16	14 58.2	+07 16	292	+43	.E...H060	12.89C		2166	2841	50
HCG5486 = HCG 0-31-5	14 42.5	+02 10	359	+53	.SXT3P..P200	11.50C	1831	1824	94	NB	HCG5483 = HCG 8-28-16	14 58.7	+01 54	398	+58	.E...H060	12.19C		1882	1691	65
I 2M 98	14 43.2	+01 35	89	+58		16P	26990	27136	88	NH	HCG5481 = HCG 8-30-20	15 01.6	+01 74	398	+49	.E...H088	12.94C		1664	1693	50
ANDR1444	14 43.8	+08 42	1	+97	.P....		10471	10491		NA	I 2M 100	15 01.9	+47 52	72	+89		13.1P		4463	5809	60
ANDR1447	14 44.8	+09 57	344	+43	.P....		1889	1832		NA	HCG5484 = HCG 0-38-27	15 02.9	+02 18	1	+49	.L...H088	12.87C		1427	1441	50
I 2M 78 = HCG 8-27-2 = VV 2348	14 48.9	+35 45	90	+63		14.5P	1129	1234	68	NH	HCG5486 = HCG 8-31-25/26	15 04.0	+01 48	398	+49	.E...P200	11.57C		1771	1784	
I 2M 71 = HCG 8-33-4 = VV 3248	14 49.2	+35 45	99	+63		14.2P	1204	1320	60	NH	HCG5488 = HCG 8-28-2	15 04.0	+01 48	398	+49	.E...P200	12.29C		2291	2384	
HCG5477 = HCG 1-38-13	14 51.3	+03 47	359	+52	.SXT7...H088		1525	1534		NA	HCG5489 = HCG 8-28-2	15 04.6	+01 44	1	+49	.S8X3...P200	12.33C		2372	2385	
HCG5475 = HCG 1-38-14	14 51.5	+03 45	359	+52	.SB...H060	12.18C	1565	1574		NA	HCG5487 = HCG 8-28-17	15 05.1	+55 57	92	+53	.L...P200	11.54C		780	972	
I 2M 97 = HCG 7-31-8	14 53.4	+42 42	72	+61		14.1P	5459	5983	60	NH	HCG5485 = HCG 3-39-4	15 05.2	+19 47	27	+58	.S851P..H060			1709	4783	
HCG5478 = HCG 8-28-12	14 55.8	+02 54	359	+48	SB(S)B	12.49P	1985	1988	34	NC	HCG5489	15 05.3	+19 48	27	+58	.S854P..H060			1864	4745	158



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MCG 3-29-5 CG95A MCG 3-29-1	15 05.3	+82 45	2	+49	..LBS+..ML80	12.42C	1426	1444	85	NA	MCG938 = MCG 7-32-7 5921+33+18P90 = HOLMBERG 110	15 28.4	+61 51	88	+89	..E....		2705	2864		NA	
C586A MCG 3-29-2	15 07.8	+83 14	3	+49	..S1310		1458	1439	32	MC	MCG939	15 27.2	+64 55	101	+93	..SANA..SPZ8	13.07C		366	549		NA
C587B MCG 3-29-3	15 09.4	+87 12	33	+58	..SATS+..S0060	12.80C	476	1804	66	NA	I ZM 114 = MCG 0-28-58	15 31.3	+66 39	75	+93		19.2P	643	816	60	MM	
M587F MCG 3-29-4	15 11.0	-14 35	347	+26	..S831+..N180	12.83D	2311	2870	85	NA	MCG953 = MCG 3-48-5	15 32.3	+15 22	24	+90	..E....		2308	2388		NA	
C589B MCG 7-31-45	15 10.2	+62 14	69	+57	..SATS+..H060	12.73C	2840	2766	50	NA	MCG954 = MCG 3-48-6 5953+64+88P91 = PFC64	15 32.3	+15 22	24	+98	..S...S..		2348	2228		NA	
ID4. 2	15 14.1	+67 13	9	+48			9183	10079	74	MB	I ZM 116	15 34.0	+38 50	82	+94		14.4P	6491	5640	60	MM	
ID4. 3	15 14.1	+67 13	9	+48			19159	10293	52	MB	I ZM 117	15 34.0	+38 50	82	+94		14.4P	5587	5677	60	MM	
C590F 16-7-MCG59-25-11	15 14.8	+86 31	92	+91	..SATS+..PZ88	11.32C	595	729		NA	I ZM 117	15 26.2	+63 48	78	+92		19.2P	5587	5677	60	MM	
C599A MCG 3-30-6	15 15.2	-23 55	343	+28	..E.S...S000	13.88C	2804	2231	288	NA	MCG962 = MCG 3-48-11	15 24.2	+18 46	26	+91	..SARS...108	12.97C		1953	2888	75	NA
C599B MCG 3-30-8	15 15.6	-23 51	343	+28	..E.S...S000	13.14C	2612	2929	158	NA	I ZM 118	15 24.6	+18 28	87	+90		17P	13559	13752	60	MM	
ZM 106	15 16.2	+62 55	70	+56		14.4P	11976	12133	60	MM	I ZM 121	15 29.4	+18 42	87	+89		17P	11688	11885	60	MM	
ICM1516	15 16.3	+63 83	71	+56	..P....		12110	1227		NA	I ZM 122	15 29.4	+18 29	87	+89		19.8P	619	816	60	MM	
C599D MCG 3-30-13	15 16.8	+12 55	350	+26	..S0131MP	12.9P	2287	2237	18	MC	MCG970 = MCG 3-48-6	15 26.1	+12 20	78	+88	..SARS...H060	12.47C		2855	2136		NA
C599E MCG 3-30-21	15 16.9	+85 15	8	+48	..S004+..ML80	11.81C	1369	1429	150	NA	MCG984 = MCG 3-48-22-24	15 27.6	+19 32	93	+87	..E.S...S060	12.69C		2866	3072		NA
ZM 183	15 19.7	+62 36	69	+56		18P	28446	28845	60	MM	MCG985 = MCG 3-48-22	15 28.6	+19 38	93	+87	..SARS...S060	11.77C		2867	2675	40	NA
C599F MCG 7-32-6	15 24.8	+61 50	88	+95	..E.S...		2528	2632		NA	I ZM 124	15 25.8	+18 38	86	+88		17P	20590	20590	60	MM	
											I ZM 125	15 25.9	+17 21	94	+82		15.2P	11035	12095	60	MM	

SIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	
C6055 MCG 8-41-23	15 58.7	+62 24	36	+44	..SAS6...PZ88	11.82C	674	849		NA	= MCG 8-41-103 IC1181A	16 02.3	+17 47	31	+44			18224	18444		NA	
ZM 129	15 58.0	+62 01	67	+50		14.3P	10333	10512	60	MM	IC1181B	16 02.3	+17 47	31	+44			18048	18812		NA	
C607A MCG 8-38-6	15 57.0	+28 55	85	+47	..L...P.PZ88		4452	4161		NA	MCG895	16 02.6	+18 82	32	+49			11698	11781		NA	
C607D MCG 8-38-8	15 57.8	+28 55	85	+47	..S...L...PZ88		4463	4579		NA	IC1185 = MCG 3-42-110	16 02.4	+17 51	32	+44	..S...L...H			18852	19579	200	NA
C608A MCG 8-38-9	15 57.4	+28 86	113	+34	..L...L...M		4800	4224		NA	IC1186 = MCG 3-42-111	16 03.5	+17 28	31	+44			18812	11234		NA	
C608B MCG 8-38-11	15 58.1	+28 86	113	+35	..L...L...M		3929	4155		NA	MCG660 = MCG 3-48-110	16 04.8	+18 22	32	+44			11149	11294		NA	
C608C MCG 8-38-76	16 02.4	+17 49	31	+48	..L...L...H		18877	19579		NA	IC1199 = MCG 3-41-128	16 04.2	+17 35	32	+44	..E.L...H			11642	11764	65	NA
C608D MCG 8-41-24	16 07.7	+18 06	32	+49	..E.S...H		9938	10849	88	NA	MCG878 = MCG 8-41-4	16 07.4	88 58	13	+36	..SAS6...N180	12.90C		2110	2179		NA
C608E MCG 8-41-28	16 07.8	+17 52	32	+45	..S...S...F		9812	10034		NA	I ZM 130 = MCG 7-32-145	16 07.6	+18 53	66	+47		15.5P	7674	7662	60	MM	
C608F MCG 8-41-27	16 08.9	+17 51	32	+45	..E.S...H		9478	9592	59	NA	I ZM 134 = MCG888 = MCG 8-26-84	16 10.4	+18 25	68	+46		14.8P	6734	6940	60	MM	
ZM 137	16 08.9	+17 32	31	+44			18840	19962		NA	MCG1188 = MCG 1-41-16	16 10.3	+17 31	21	+37	..SA151C			1478	1564	52	MC
C608G MCG 8-41-181	16 03.3	+18 15	32	+45	..L.R...H		11063	11407		NA	I ZM 148 = MCG1328 = MCG 8-38-29	16 10.0	+17 53	61	+45		14.2P	8174	8363	60	MM	
C608H MCG 8-41-181	16 03.3	+18 15	32	+45	..L.R...H		11063	11407		NA	I ZM 149	16 22.0	+18 16	63	+43		15.5P	5887	5825	60	MM	
C608I MCG 8-41-184	16 03.3	+17 56	32	+44	..P....		10245	10360		NA	I ZM 157 = MCG 7-34-20	16 22.0	+18 34	63	+43		16P	3879	4272	60	MM	
HL83	16 03.3	+17 54	32	+44	..E.L...H		18828	18161	75	NA	ANON Z	16 25.0	+19 26	62	+44			9929	9227	198	NA	
											ANON	16 26.4	+19 28	62	+44			9950	10169	200	NA	

SIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V0	ERROR	REF	
C6159 MCG 7-34-43	16 26.0	+39 38	62	+44			8844	9083	150	MM	MCG821 MCG821	16 26.5	-59 08	330	-18	..S855...R074	11.75D		1428	1281		NA
ZM 151	16 26.0	+39 31	61	+44		15.4P	10716	10287	60	MM	I ZM 172	17 04.9	+34 05	57	+35		16P	9088	9302	60	MM	
C6156 MCG 7-34-60 IC 338	16 26.9	+39 43	63	+44	..E...P.H		8842	9082		NA	MCG828 = MCG 19-24-98	17 07.9	+68 47	90	+36	S		2684	3288	46	MC	
C6164A	16 26.9	+39 43	63	+44			9280	9488		NA	MCG829 = MCG 19-24-99	17 07.1	+68 49	90	+36	E4		3282	3527	44	MC	
C6164B	16 26.9	+39 43	63	+44			7760	7968		NA	MCG834 = MCG 4-48-22	17 10.5	+23 28	45	+31	..S8.1+..L036			8788	8939		NA
C6180C	16 26.9	+39 43	63	+44			9850	10058		NA	MCG826 = MCG 12-18-21	17 11.1	+72 22	164	+33	..SAS6...PZ88	12.30C		8189	2851	300	NA
C6181 MCG 3-42-20	16 30.1	+19 59	37	+39	..SXT9...ML80	12.61C	2164	2385	298	NA	I ZM 175	17 11.5	+19 18	62	+35		19.6P	18819	18836	60	MM	
ZM 153	16 31.2	+35 01	57	+43		15.5P	10749	10379	60	MM	MCG838 = MCG 7-23-26	17 12.3	+52 46	326	-14	..S8TRJ8	9.4		1278	1428	90	MM
ZM 155	16 31.0	+32 29	60	+42		15.6P	2692	2962	60	MM	I ZM 177	17 16.6	+48 31	75	+35		19.8P	8428	8668	60	MM	
C6217 MCG 13-12-8	16 34.8	+78 18	111	+33	..S87A...PZ88	12.65C	1385	1616		NA	MCG859 = MCG 18-25-1	17 17.4	+61 50	91	+35	..L.R...L1336			2988	3196	75	NA
C6237 MCG 6-17-7	16 41.3	+36 56	59	+41	..SAS5...PZ88	12.52C	667	1072	48	NA	ANON1718A	17 18.1	+49 88	76	+35	..E.L...P			7290	7493		NA
C6219 MCG8219	16 45.8	-58 55	338	-49	..SAS5...S060	12.00C	1547	1418		NA	ANON1718B	17 16.1	+49 88	76	+35	..S...S...P			7142	7424		NA
ZM 165	16 47.8	+48 47	79	+48		14.6P	7633	7856	60	MM	I ZM 187	17 27.2	+45 35	71	+32		17P	11132	11373	60	MM	
IC1844A	16 48.0	+49 35	71	+48	..L...L...P		9418	9643		NA	MCG836 = MCG 12-16-1	17 29.4	+19 06	38	+21	..S88A...PZ88	11.76C		1754	1987		NA
IC1844B	16 48.0	+49 35	71	+48	..S...L...P		9488	9623		NA	MCG842 = ARP 26 = MCG 13-12-26	17 30.4	+75 45	107	+31	..SAS6...PZ88	12.71C		1908	1791		NA
IC1844C	16 48.0	+49 35	71	+48	..L...L...P		9463	9672		NA	I ZM 190	17 39.0	+47 46	74	+32		16P	9799	6044	60	MM	
IC1844D MCG 7-35-1	16 48.4	+42 50	87	+48	..S855...PZ88	12.87C	964	1183		NA	IC6462	17 42.1	-64 39	329	-18	..L.R...S060	11.39C		875	237		NA



SIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VO	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VO	ERROR	REF		
MCG 6-48-25											MCG7332 = MCG 6-53-8					SO P		871	1130	40	MC		
Z292 MCP226	22 14.0	-24 56	28	-56	RLARS*,M100	13.130	4733	4817	55	MA	MCG7339 = MCG 4-52-3	22 35.4	+23 38	88	-29	SABRIBIC		1271	1530	27	MC		
Z230 MCG 3-57-5	22 24.0	+15 5	8	-3	50		1812	2054	80	MC	MCG7343 = MCG 6-49-59	22 35.4	+33 46	94	-21	SBS3..M		1216	1493	200	MA		
Z132 CG225 MCG 2-57-12	22 29.7	-14 23	48	-55	..LRS*,M100	13.430	2586	2716	65	MA	IZ 7M 185 = IC9442	22 36.9	+23 05	89	-31		15P	7104	7363	60	MH		
Z289 MCG 2-57-16	22 31.6	-18 37	54	-54	SABRIBIC	13.1	3189	4084	35	MC	IC9240	22 39.0	+45 04	358	-59	..SBR1..M100		12490	1558	1611	61	MC	
Z134 MCG 4-51-15 ARP 34	22 33.0	-28 18	27	-60	..SBR1..P210	11.080	1766	1859	90	MA	MCG7351 = MCG 7-93-27	22 39.5	-30 59	19	-62	SIRIC			1174	1229	37	MC	
Z737 MCG 6-49-31	22 32.6	+31 41	91	-21	..L4..*M		6736	7013	69	MA	EV 7M 111	22 40.8	+33 24	93	-24		16P		9712	9980	60	MH	
Z7318A MCG 6-49-39	22 33.7	+33 42	93	-21	..L42..P1036		6189	5967	NA		MCG7373 = MCG 2-50-1	22 43.4	-11 16	56	-56	SABRIBIC		1249P	2894	2927	65	MC	
Z1188 MCG 8-49-40	22 31.7	+33 40	93	-21	..SBS5..L036		5727	6095	NA		MCG7377 = MCG 4-55-36	22 45.1	-22 85	36	-82	..L43..M100		12.750	3416	2502	65	MA	
Z14 MCG 8-49-41 17-46-ARP219 VV288	22 33.0	+33 42	93	-21	..SBS4P..L036		6897	6835	50	MA	MCG7385 = MCG 2-58-17	22 47.4	+11 21	82	-41	..L4..M			7829	8051	65	MA	
Z7320 MCG 8-49-42	22 33.0	+33 41	93	-21	..SBS4P..L036		789	1373	NA		MCG7393 = ARP 15 = MCG 1-58-2 = VY 68	22 49.0	-05 49	85	-54	..SBR1P..M100			3813	3972	NA		
Z7331 MCG 8-49-43	22 34.0	+34 18	94	-21	..SBS4..L036	10.72E	784	1072	1441	35	MA MD	MCG7392 = MCG 4-55-60	22 49.2	-20 93	48	-42	..SBS4..M100		12.930	2941	3034	NA	
Z135 MCG 8-49-47	22 35.0	+34 10	94	-21	..L1..M		6238	6576	60	MA	MCG7410 = IC9267	22 52.1	-29 96	358	-83	..L43..M100		11.770	1658	1637	NA		
Z7332	22 36.0	+23 32	87	-38	..L1..P228	12.580	6294	1463	50	MA	IC9460	22 54.5	+04 25	78	-48	..L1..M			7262	7494	75	MA	

SIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VO	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VO	ERROR	REF	
MCG 1-58-15											= MCG 1-59-5											
459 14459	22 56.5	-56 41	5	-64	..L3..*M874		1810	1632	1502	MA MC	MCG7501 = MCG 1-59-7	23 04.0	+07 19	84	-48	..L4..M			12734	12914	50	MA
Z1428 ARP 33 MCG 3-58-10	22 57.8	+15 43	88	-39	..SRT4..M100	12.130	2413	2650	250	MA	MCG7503 = MCG 1-59-8	23 08.0	+07 15	84	-48	..L1..M			13229	13429	55	MA
Z1428	22 57.8	+26 32	94	-39		17P	7051	7310	40	MH	MCG7507 = MCG 1-59-22	23 09.5	-28 48	23	-49	..L4..M100		12.300	1637	1644	75	MA
Z7457 MCG 5-58-26	22 58.6	+29 53	96	-27	..LAT..P220	12.180	525	765	290	MA	MCG7507 = MCG 1-59-16	23 12.0	+04 13	83	-51	SABO			2662	2660	10	MC
Z7463 MCG 3-58-22	22 59.4	+15 42	88	-39	S		2440	2576	26	MC	MCG7511	23 12.1	+43 53	246	-59	S(R)BC		12.6	1718	1680	60	MF
Z7464 MCG 3-58-23	22 59.4	+15 42	88	-39	E		1672	2102	32	MC	MCG7511 = MCG 1-59-17	23 12.2	+04 15	83	-51	..SBS4..M100		12.650	2672	2699	100	MA
Z7469 MCG 3-58-24	22 59.5	+15 41	88	-39	S0		1994	2224	24	MC	MCG7527 = MCG 1-59-24	23 12.4	+06 25	85	-49	..L2..*M100			3886	4000	NA	
Z7489 MCG 1-58-29 ARP208	23 00.7	+08 36	83	-45	..SRT1..M100	13.330	4597	5645	NA		MCG7552 MCG7552 MCG7592	23 13.5	+42 53	316	-85	..SBS2..S074		11.830	1662	1639	NA MD MF	
Z1429 MCG 1-58-29	23 00.9	+08 37	83	-45	..L11..P..M100		6075	5843			MCG7576 MCG7576 = MCG 1-59-52	23 14.9	-05 01	74	-54	..L0R1..M100			3572	3723	45	MA MB
Z1429	23 01.6	+22 21	93	-36		14.7P	11621	11668	68	MH	MCG7595 = ARP223 = MCG 1-59-15	23 15.4	-04 56	74	-58	..SBS4..M100		12.740	3392	3502	NA	
Z1429 MCG 2-59-68	23 02.4	+12 03	88	-45	..SBS5..P210	11.740	2441	2659	NA		MCG7592 MCG7592	23 15.8	+42 38	348	-66	..SBS2..S074		11.970	3451	3426	NA MD MF	
Z1429 MCG 4-59-26	23 04.5	+22 40	93	-34		14.4P	6271	6868	60	MH	MCG7592 = MCG 1-59-17	23 16.9	-04 42	75	-58	..L1..P..L036			7289	7440	54	MA MB
Z1429	23 07.0	+43 42	308	-64	..SBS1..S030	12.110	1478	1446	NA		MCG7595 = MCG 1-59-17	23 16.9	-04 42	75	-58	..L1..P..L036			1302	1300	NA MD MF	
Z1429	23 07.8	+06 14	85	-47		18P	12977	12781	88	MH	MCG7595 MCG7595 MCG7702 MCG7940	23 16.2	+42 31	348	-66	..SRT4..S074		12.410	1302	1334	NA MD MF MC	
Z1429	23 07.5	+07 18	84	-48	..L1..M		12916	12336	58	MA									1713	1713	NA MD	

SIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VO	ERROR	REF	DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	VO	ERROR	REF	
MCG 1-59-19											= MCG 4-55-17											
Z7468 MCG 1-59-19	23 10.3	-07 52	70	-61	..L1..*M100	13.240	1231	3528	88	MA	MCG7599 = MCG 8-59-46 7679*ARP216	23 26.2	+09 19	67	-53	..L4..*M100		13.870	5954	5320	NA	
Z7468 MCG 2-59-12	23 16.9	-08 46	89	-61	..SBS1..M100	11.670	2341	2475	75	NA	IZ 2M 193	23 27.6	+29 15	101	-34		15.0P		5327	5971	60	MH
Z7468 MCG 2-59-12	23 16.9	-08 46	89	-61	..SBS1..M100	11.670	2341	2475	75	NA	MCG7702	23 32.7	-56 17	323	-58	RLARS..S074		12.980	6086	6394	NA	
Z7468 MCG 1-59-49	23 17.1	+07 47	87	-48	..L1..M		3363	3560	85	MA	MCG7714 = MCG 8-58-17	23 33.7	+01 53	68	-56	..SBS3..P210			2813	3048	NA	
Z7468 MCG 1-59-51A	23 17.0	+07 44	89	-48	..L1..M		4072	4269	188	MA	MCG7718 = MCG 8-58-18 7718*ARP224 = VV81	23 33.4	+01 53	68	-56	..L1..P..P210			2795	2962	NA	
Z7468 MCG 1-59-52	23 17.0	+07 55	89	-48	..L1..M		3747	3854	58	MA	MCG7713	23 33.8	-30 13	354	-73	SBC ..SBR1..M100		11.8P	667	659	30	MC MD
Z7468 MCG 1-59-56	23 18.0	+16 57	91	-40	..SAB1..M100	11.230	1784	2009	NA		MCG7713 = MCG 8-58-19	23 39.9	89 41	67	-57	..SBR1..M100		13.170	2546	2704	150	MA
Z7468 MCG 1-59-57	23 18.2	+17 56	88	-48	..L1..M		3257	3554	58	MA	MCG7722 = MCG 1-58-17	23 38.7	-06 46	80	-63	SABIC		12.4P	2839	3171	27	MC
Z7468 MCG 2-59-35 VV288	23 19.7	+48 38	189	-19	..SBS4..P210 SABIC	11.940	422	692	26	MA MC	MCG7722 = MCG 2-58-5	23 38.4	-18 14	69	-68	..SBR3..P210		12.130	1973	2877	NA	
Z1429	23 22.6	+12 46	92	-45		15.7P	12764	12995	88	MA	MCG7722 = MCG 2-58-8 = ARP222 = 0876	23 37.3	-12 34	71	-68	..SBS1..M100		11.750	1846	1993	NA	
Z7468 MCG 2-59-44	23 24.0	+12 32	93	-45	..L1..M100		6129	4336	NA		ARP224 ARP224	23 39.3	-03 44	69	-61	..L1..*P			6777	5939	66	MA
Z1429 MCG 4-59-14	23 25.2	+23 19	98	-35		12.7P	3053	3295	68	MH	ARP224 MCG7741 = MCG 4-59-50	23 41.4	+25 49	105	-36	..SBS3..P210 SABIC		12.240	724	944	50	MA MC
Z7468 MCG 2-59-44	23 26.1	+23 09	98	-37	..SBS3..M100	12.930	3446	3680	68	MA	MCG7742	23 41.8	+10 29	97	-49	..SAB3..P210		12.980	1678	1878	NA	

DESIGNATION	RA(1950)	DEC(1950)	L II	B II	CLASSIFICATION	MAG	V	V8	ERROR	
* NGC 2-68-10										
NGC7763	23 41.0	+09 39	97	-50	RL85+..P208	12.460	1822	1992	65	M
= NGC 2-68-11										
NGC7752	23 44.5	+29 13	107	-33	.P1...L936		4868	5100	77	::
= NGC 3-56-4										
NGC7753	23 44.6	+29 12	107	-31	.SXT3...L936		4845	5085	32	::
= NGC 3-56-5										
7753+54+ARPM6										
NGC7755	23 45.3	+28 48	10	-76	SC		2890	2918	15	::
NGC7755					.S...S...M030	12.110	5148	3208	74	::
= NGC 3-56-14										
NGC7759	23 46.5	+19 52	184	-41	MSAT3...M060	13.840	4249	4565		M
= NGC 3-58-38										
NGC7778	23 46.6	+19 48	184	-41	.S...2...*L		4218	4554		::
= NGC 3-60-34										
NGC7771	23 46.9	+19 58	184	-41	.SBS1...M060		4282	4418		M
NGC7771							4281	4588	57	::
= NGC 3-60-35										
NGC7785	23 52.4	+05 38	99	-54	.E.S+...M180	12.970	3846	4815	65	M
= NGC 1-60-49										
NGC7748	23 55.3	-32 51	5	-77	.SAS8...M108	9.930	192	197		::
NGC7794	23 56.3	+19 44	318	-68	.E.2...S634	12.900	3511	3433		M
NGC7794							3511	3414		::
BNM2354	23 54.2	+19 49	78	-74	.T...9...L836		78	2	20	M

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