

Group	Gene-key	avg d	Dist 1	SPS 1	Dist 2	SPS 2	Dist 3	SPS 3	Dist 4	SPS 4	Dist 5	SPS 5	Dist 6	SPS 6	Dist 7	SPS 7	Dist 8	SPS 8	Dist 9	SPS 9	Dist 10	SPS 10
varda	3564	10000	10,000	34.63	10,000	34.68	10,000	37.51	10,000	39.66	10,000	41.16	10,000	43.24	10,000	45.32	10,000	46.66	10,000	47.77	10,000	48.74
gong	2102	9227	10,000	39.47	10,000	39.02	10,000	38.99	10,000	39.47	10,000	40.75	10,000	42.70	10,000	44.99	10,000	47.02	10,000	48.66	2,271	49.70
make	1768	9038	4,866	23.02	10,000	36.28	10,000	36.69	10,000	37.06	10,000	37.59	10,000	37.52	10,000	39.59	10,000	42.12	10,000	44.45	5,514	46.79
varda	3420	6659	10,000	39.04	321	47.10	5,628	42.86	10,000	44.51	10,000	46.17	10,000	47.98	320	46.42	10,000	50.58	10,000	51.29	321	45.81
orcus	2408	5159	10,000	40.17	10,000	40.79	10,000	40.89	10,000	40.68	10,000	41.77	319	39.48	318	41.59	318	41.79	318	43.43	318	44.80
haumea	4770	4194	10,000	49.01	10,000	47.66	10,000	48.01	10,000	48.98	325	48.52	326	48.61	323	50.79	323	51.58	323	54.07	324	54.79
ixion	3796	4068	10,000	40.06	10,000	39.26	114	40.57	10,000	39.53	10,000	41.24	115	38.38	113	41.41	113	42.21	113	42.90	113	43.19
varda	3227	3549	10,000	40.17	321	46.06	971	45.48	10,000	41.89	10,000	43.74	321	40.95	2,918	47.66	321	43.76	321	44.78	321	45.24
quaoar	6167	3537	3,571	47.20	10,000	47.07	10,000	48.61	8,549	50.41	324	47.17	326	48.87	323	48.38	1,624	55.63	328	51.60	325	51.83
quaoar	5945	3104	10,000	46.93	10,000	47.76	4,871	48.91	1,626	48.52	2,276	50.52	975	50.82	325	46.87	318	47.53	326	47.99	327	48.98
quaoar	4931	2737	1,732	46.72	2,381	46.59	10,000	48.17	6,278	49.30	5,519	49.97	325	45.74	123	44.72	770	54.27	120	46.25	120	46.54
haumea	5170	2635	10,000	48.78	4,664	48.87	10,000	48.36	321	45.54	772	50.47	120	42.75	120	43.68	119	44.00	119	45.03	119	44.87
haumea	5249	2589	4,212	20.00	3,563	20.00	4,979	46.94	1,730	48.22	321	49.18	10,000	51.62	320	49.17	320	48.95	121	45.79	319	49.22
quaoar	5354	2526	10,000	46.39	8,734	21.16	326	43.74	322	44.44	2,273	47.47	1,623	50.32	122	45.08	123	46.12	1,623	47.44	114	45.89
varda	3377	2463	1,619	42.17	321	46.72	10,000	44.11	10,000	46.14	1,085	44.85	322	44.76	321	47.28	322	44.03	321	44.68	321	46.32
gong	2092	2390	317	40.10	2,265	34.59	10,000	33.84	6,809	34.45	2,266	35.45	967	36.37	318	35.31	318	36.76	318	38.25	317	39.70
varda	3167	2322	10,000	40.43	321	48.29	971	45.57	10,000	42.16	322	41.48	322	42.24	320	45.05	321	46.00	321	46.67	321	47.90
quaoar	4590	2263	976	46.87	8,108	48.28	1,617	48.38	10,000	49.23	325	46.23	319	46.76	318	48.48	326	49.78	318	50.34	326	50.62
gong	1952	2073	3,566	37.10	2,268	35.40	2,917	35.16	5,513	35.46	3,566	36.54	321	35.90	1,619	40.34	321	39.50	321	41.01	319	42.14
quaoar	5312	2056	6,170	47.00	8,561	48.33	1,624	48.38	975	48.16	1,624	50.95	319	46.47	325	48.52	324	49.66	319	50.10	319	49.74
make	1555	1867	1,607	42.06	315	41.17	10,000	43.08	965	43.36	3,562	43.74	314	40.32	958	45.80	317	45.43	316	48.29	315	51.75
haumea	5470	1833	6,164	48.66	10,000	48.68	321	44.19	321	44.11	319	46.76	321	47.40	321	48.85	319	49.61	120	45.41	121	44.87
ixion	3016	1790	1,623	40.53	972	40.26	10,000	39.31	324	38.34	323	39.09	3,570	42.19	323	40.05	115	38.58	323	42.61	323	44.39
haumea	3156	1619	587	45.32	3,832	47.54	5,624	47.97	3,032	48.31	2,532	48.59	118	41.72	117	42.52	118	44.22	115	44.32	116	44.19
orcus	1769	1484	322	36.19	10,000	42.02	1,620	41.99	322	40.51	321	41.88	321	43.96	970	49.07	321	46.64	320	46.49	321	49.25
quaoar	4720	1483	9,519	48.57	975	47.49	1,623	49.35	329	45.28	977	50.85	319	46.54	122	44.71	318	48.49	319	50.39	325	51.61
orcus	2403	1303	1,617	42.90	2,915	42.50	5,627	41.61	967	42.06	318	40.76	318	40.65	318	41.45	318	43.40	316	45.14	316	45.73
haumea	4897	1287	10,000	49.04	319	45.46	321	44.97	319	47.93	321	47.13	318	50.60	319	50.69	319	52.50	317	53.78	318	53.77
orcus	2329	1285	10,000	41.47	317	37.40	317	38.54	316	40.52	316	41.90	316	43.54	317	43.68	316	44.87	316	45.73	315	47.06
ixion	2789	1272	322	41.21	10,000	42.95	972	42.88	324	38.85	323	41.21	323	40.65	115	38.94	113	41.59	114	42.25	113	41.92
ixion	2736	1250	322	41.82	10,000	42.59	971	42.63	324	39.75	322	41.42	115	39.16	113	40.90	113	41.90	112	43.86	112	42.95
ixion	2596	1230	10,000	40.65	973	40.86	113	41.02	325	38.56	324	38.57	113	39.37	112	40.76	112	41.54	112	42.17	112	42.44
orcus	2278	1226	10,000	42.17	318	37.82	318	39.72	316	41.40	316	43.18	316	44.99	120	43.30	120	44.16	119	44.49	316	49.07
ixion	3858	1194	7,904	41.50	973	41.36	114	40.79	2,062	41.75	324	40.65	115	38.61	113	41.41	112	42.17	112	43.27	112	43.59
quaoar	5140	1191	976	49.35	322	44.96	8,553	51.32	324	47.76	321	46.89	326	49.35	327	48.98	323	50.53	321	53.08	115	45.86
varda	3316	1156	1,082	38.87	321	47.66	3,679	42.68	1,732	41.94	433	41.42	3,030	46.88	322	42.20	322	44.32	321	45.09	321	46.79
orcus	2607	1057	3,363	41.37	4,861	41.66	318	39.26	318	40.59	317	42.04	317	43.94	317	44.92	317	45.59	121	44.47	317	48.44
orcus	1852	1055	1,730	39.40	4,862	40.93	1,730	40.01	319	39.35	319	41.32	318	42.74	318	43.95	318	44.87	318	45.86	317	46.50
orcus	2826	901	1,616	44.22	2,912	44.01	1,616	43.68	967	43.05	317	42.45	318	41.61	318	43.65	316	45.04	317	45.14	315	46.97
quaoar	4776	823	327	41.56	319	40.25	1,625	47.66	2,922	48.46	1,627	50.03	326	46.60	324	49.39	326	49.42	314	48.56	122	46.36
orcus	2688	717	1,614	45.17	2,911	44.62	1,416	44.86	316	41.39	317	43.26	120	42.29	119	43.53	119	44.25	121	44.30	120	44.74
haumea	5028	668	1,616	48.34	2,914	49.45	309	45.41	320	45.16	320	48.68	319	48.09	318	49.97	319	51.49	121	47.08	122	46.40
varda	3568	449	1,620	43.54	317	49.02	321	39.71	321	41.34	321	43.08	317	47.80	318	48.82	318	46.36	317	46.84	318	48.15
haumea	5168	447	2,381	48.01	320	44.12	321	45.36	321	46.66	321	47.05	319	47.24	121	44.72	122	45.50	119	45.44	120	46.09
orcus	1199	446	968	43.91	967	44.16	318	40.26	315	42.30	316	43.38	316	43.90	316	44.70	315	47.17	316	48.23	316	49.72
varda	3105	321	322	34.51	319	47.99	321	36.68	321	38.61	322	41.35	321	42.62	320	44.01	321	45.83	321	45.82	321	46.79
varda	3358	321	322	35.06	321	47.66	322	37.01	322	39.12	321	40.99	321	42.24	320	44.44	321	45.83	319	45.86	320	46.64
varda	3554	321	321	34.52	321	48.80	321	37.57	321	39.71	321	42.35	320	46.82	319	47.95	321	46.14	321	46.50	320	48.21
quaoar	5652	294	315	19.99	295	29.80	315	45.41	314	46.18	317	50.04	314	49.55	316	52.35	321	52.67	315	50.79	121	45.98
			4,604	41.33	4,000	42.59	3,744	42.98	3,302	42.98	2,200	44.11	1,453	44.14	965	45.03	1,096	46.08	1,074	46.40	597	46.92