

Sense Gene	Antisense Gene	Spearman Correlation	P-val	Bonferroni- adjusted P-val
ENSG00000138496	ENSG00000163840	0.95	1.53E-90	1.97E-88
ENSG00000188747	ENSG00000188833	0.82	7.85E-44	1.01E-41
ENSG00000113460	ENSG00000113456	0.81	1.39E-41	1.80E-39
ENSG00000006634	ENSG00000075303	0.79	3.23E-38	4.16E-36
ENSG00000134255	ENSG00000156171	0.77	2.79E-36	3.60E-34
ENSG00000112984	ENSG00000094880	0.73	6.32E-31	8.16E-29
ENSG00000116750	ENSG00000116747	0.73	1.28E-30	1.65E-28
ENSG00000116062	ENSG00000138081	0.70	8.92E-27	1.15E-24
ENSG00000028116	ENSG00000115392	0.67	3.96E-24	5.10E-22
ENSG00000119446	ENSG00000148187	0.67	3.97E-24	5.12E-22
ENSG00000118454	ENSG00000116754	0.67	7.02E-24	9.05E-22
ENSG00000124733	ENSG00000112640	0.66	4.45E-23	5.74E-21
ENSG00000159140	ENSG00000159147	0.66	5.72E-23	7.38E-21
ENSG00000134824	ENSG00000149485	0.65	9.85E-23	1.27E-20
ENSG00000126804	ENSG00000089775	0.65	1.06E-22	1.37E-20
ENSG00000107404	ENSG00000169962	0.65	3.14E-22	4.05E-20
ENSG00000149483	ENSG00000162144	0.63	1.26E-20	1.62E-18
ENSG00000145782	ENSG00000177879	0.62	3.87E-20	4.99E-18
ENSG00000163781	ENSG00000091527	0.61	3.52E-19	4.54E-17
ENSG00000164933	ENSG00000164934	0.61	3.54E-19	4.57E-17
ENSG00000103148	ENSG00000103152	0.60	8.60E-19	1.11E-16
ENSG00000100104	ENSG00000100109	0.60	9.02E-19	1.16E-16
ENSG00000127564	ENSG00000162073	0.60	2.17E-18	2.80E-16
ENSG00000113851	ENSG00000072756	0.60	2.93E-18	3.78E-16
ENSG00000181227	ENSG00000117054	0.59	4.51E-18	5.81E-16
ENSG00000100413	ENSG00000100412	0.57	1.82E-16	2.35E-14
ENSG00000145217	ENSG00000127415	0.56	3.17E-16	4.09E-14
ENSG00000198546	ENSG00000130640	0.56	3.85E-16	4.97E-14
ENSG00000102977	ENSG00000159753	0.56	5.17E-16	6.67E-14
ENSG00000005194	ENSG00000088682	0.56	9.84E-16	1.27E-13
ENSG00000165480	ENSG00000173141	0.56	1.31E-15	1.69E-13
ENSG00000153113	ENSG00000164307	0.53	4.69E-14	6.05E-12
ENSG00000108528	ENSG00000108523	0.53	7.05E-14	9.09E-12
ENSG00000125484	ENSG00000125485	0.52	7.67E-14	9.89E-12
ENSG00000033011	ENSG00000118894	0.52	9.87E-14	1.27E-11
ENSG00000129696	ENSG00000198042	0.52	1.39E-13	1.79E-11
ENSG00000204356	ENSG00000204351	0.52	1.65E-13	2.12E-11
ENSG00000107140	ENSG00000137101	0.52	1.70E-13	2.20E-11
ENSG00000165819	ENSG00000092203	0.50	9.68E-13	1.25E-10
ENSG00000066322	ENSG00000117399	0.50	1.30E-12	1.67E-10
ENSG00000119729	ENSG00000151665	0.49	7.05E-12	9.09E-10
ENSG00000137168	ENSG00000198663	0.48	1.95E-11	2.51E-09
ENSG00000133193	ENSG00000166685	0.47	4.96E-11	6.40E-09
ENSG00000162384	ENSG00000157184	0.47	6.09E-11	7.86E-09
ENSG00000212643	ENSG00000129625	0.46	1.03E-10	1.32E-08
ENSG00000180879	ENSG00000067829	0.46	1.06E-10	1.37E-08

ENSG00000177463	ENSG00000131368	0.45	2.46E-10	3.17E-08
ENSG00000116580	ENSG00000203761	0.45	2.61E-10	3.36E-08
ENSG00000138794	ENSG00000005059	0.45	3.51E-10	4.52E-08
ENSG00000135392	ENSG00000123353	0.45	4.13E-10	5.33E-08
ENSG00000099958	ENSG00000099956	0.45	4.54E-10	5.86E-08
ENSG00000137574	ENSG00000167904	0.45	5.38E-10	6.94E-08
ENSG00000126453	ENSG00000126456	0.44	1.07E-09	1.38E-07
ENSG00000179837	ENSG00000145041	0.43	2.48E-09	3.20E-07
ENSG00000004142	ENSG00000109079	0.43	3.44E-09	4.43E-07
ENSG00000118976	ENSG00000111224	0.43	4.01E-09	5.17E-07
ENSG00000165671	ENSG00000213350	0.42	4.79E-09	6.18E-07
ENSG00000136699	ENSG00000152082	0.42	6.04E-09	7.79E-07
ENSG00000108590	ENSG00000129235	0.42	6.35E-09	8.19E-07
ENSG00000158793	ENSG00000158796	0.42	7.09E-09	9.15E-07
ENSG00000140521	ENSG00000140525	0.42	8.22E-09	1.06E-06
ENSG00000130813	ENSG00000130812	0.41	1.16E-08	1.49E-06
ENSG00000119929	ENSG00000014919	0.40	3.61E-08	4.66E-06
ENSG00000111615	ENSG00000139278	0.40	5.18E-08	6.68E-06
ENSG00000155380	ENSG00000186208	0.39	6.00E-08	7.74E-06
ENSG00000205089	ENSG00000164402	0.38	1.46E-07	1.89E-05
ENSG00000125995	ENSG00000078872	0.38	2.19E-07	2.83E-05
ENSG00000176386	ENSG00000136875	0.37	5.99E-07	7.73E-05
ENSG00000160766	ENSG00000173171	0.36	9.93E-07	1.28E-04
ENSG00000149781	ENSG00000149743	0.36	1.13E-06	1.46E-04
ENSG00000162892	ENSG00000162894	0.35	1.35E-06	1.75E-04
ENSG00000125457	ENSG00000125445	0.35	1.79E-06	2.31E-04
ENSG00000178922	ENSG00000198198	-0.35	2.08E-06	2.68E-04
ENSG00000179933	ENSG00000100813	0.35	2.08E-06	2.69E-04
ENSG00000102103	ENSG00000126768	0.34	3.58E-06	4.62E-04
ENSG00000005075	ENSG00000161036	0.34	3.68E-06	4.74E-04
ENSG00000099840	ENSG00000172081	0.33	5.57E-06	7.18E-04
ENSG00000095380	ENSG00000106785	0.33	8.30E-06	1.07E-03
ENSG00000138074	ENSG00000138085	0.32	1.11E-05	1.43E-03
ENSG00000182872	ENSG00000147123	0.32	1.17E-05	1.51E-03
ENSG00000141325	ENSG00000108654	0.32	1.26E-05	1.63E-03
ENSG00000111684	ENSG00000126749	0.31	2.07E-05	2.67E-03
ENSG00000122783	ENSG00000146859	0.31	3.25E-05	4.19E-03
ENSG00000204618	ENSG00000204619	-0.30	5.61E-05	7.24E-03
ENSG00000196704	ENSG00000108932	0.29	1.17E-04	1.51E-02
ENSG00000169972	ENSG00000127054	0.27	2.57E-04	3.32E-02
ENSG00000116661	ENSG00000132879	-0.27	3.33E-04	4.29E-02
ENSG00000085788	ENSG00000147535	0.27	3.56E-04	4.59E-02
ENSG00000103266	ENSG00000161999	0.26	5.46E-04	7.04E-02
ENSG00000197694	ENSG00000119333	-0.26	5.54E-04	7.15E-02
ENSG00000166886	ENSG00000166888	0.26	5.97E-04	7.70E-02
ENSG00000184508	ENSG00000140553	0.25	6.62E-04	8.54E-02
ENSG00000170482	ENSG00000120727	-0.25	7.31E-04	9.43E-02
ENSG00000203993	ENSG00000197070	0.24	1.09E-03	1.41E-01
ENSG00000213099	ENSG00000196705	0.24	1.61E-03	2.07E-01

ENSG00000142453	ENSG00000130733	0.21	4.21E-03	5.43E-01
ENSG00000175376	ENSG00000175334	0.21	4.54E-03	5.85E-01
ENSG00000161980	ENSG00000161981	0.21	5.35E-03	6.90E-01
ENSG00000135090	ENSG00000182382	-0.20	6.37E-03	8.22E-01
ENSG00000053438	ENSG00000166619	-0.03	7.32E-01	1.00E+00
ENSG00000064115	ENSG00000111790	0.18	1.85E-02	1.00E+00
ENSG00000100092	ENSG00000128345	-0.13	9.34E-02	1.00E+00
ENSG00000100441	ENSG00000100445	0.13	7.53E-02	1.00E+00
ENSG00000101158	ENSG00000101160	0.11	1.49E-01	1.00E+00
ENSG00000104835	ENSG00000128626	0.12	1.12E-01	1.00E+00
ENSG00000105254	ENSG00000105258	0.06	4.18E-01	1.00E+00
ENSG00000108788	ENSG00000131470	0.12	1.04E-01	1.00E+00
ENSG00000109083	ENSG00000109084	0.18	1.90E-02	1.00E+00
ENSG00000116032	ENSG00000182087	0.03	6.77E-01	1.00E+00
ENSG00000120314	ENSG00000183403	0.01	9.30E-01	1.00E+00
ENSG00000120889	ENSG00000008853	0.00	9.92E-01	1.00E+00
ENSG00000124574	ENSG00000171462	-0.04	5.73E-01	1.00E+00
ENSG00000137135	ENSG00000159884	0.18	1.41E-02	1.00E+00
ENSG00000142082	ENSG00000177963	-0.12	1.08E-01	1.00E+00
ENSG00000147687	ENSG00000170881	0.11	1.39E-01	1.00E+00
ENSG00000148835	ENSG00000173915	0.05	5.38E-01	1.00E+00
ENSG00000158805	ENSG00000187741	0.05	4.73E-01	1.00E+00
ENSG00000166337	ENSG00000166333	0.12	1.12E-01	1.00E+00
ENSG00000166794	ENSG00000157734	-0.10	1.76E-01	1.00E+00
ENSG00000167136	ENSG00000198917	0.12	1.09E-01	1.00E+00
ENSG00000171467	ENSG00000179157	0.13	9.53E-02	1.00E+00
ENSG00000172922	ENSG00000172977	0.18	1.41E-02	1.00E+00
ENSG00000178982	ENSG00000205077	-0.07	3.61E-01	1.00E+00
ENSG00000182685	ENSG00000167965	-0.14	6.20E-02	1.00E+00
ENSG00000186076	ENSG00000165240	0.02	7.55E-01	1.00E+00
ENSG00000196497	ENSG00000100918	0.13	7.87E-02	1.00E+00
ENSG00000197451	ENSG00000175309	0.08	3.11E-01	1.00E+00
ENSG00000204220	ENSG00000204218	-0.15	4.92E-02	1.00E+00
ENSG00000204673	ENSG00000104946	0.07	3.90E-01	1.00E+00