

Appendix

Seurat Marker Genes - Cell Types

gene	p_val_adj	avg_logFC	pct.1	pct.2	cluster
AGAP012100	5.21E-87	0.325	0.973	0.975	0
AGAP002464	9.33E-75	0.471	0.954	0.896	0
AGAP011828	1.00E-71	0.498	0.833	0.699	0
AGAP010163	2.29E-68	0.322	0.95	0.961	0
AGAP000305	6.01E-58	0.383	0.877	0.702	0
AGAP004936	5.04E-50	0.428	0.791	0.617	0
AGAP007740	4.04E-45	0.258	0.964	0.966	0
AGAP002422	2.74E-41	0.656	0.61	0.54	0
AGAP011119	1.73E-40	0.421	0.744	0.622	0
AGAP002465	1.54E-36	0.421	0.815	0.767	0
AGAP012990	7.94E-33	0.291	0.858	0.89	0
AGAP010591	3.65E-28	0.259	0.944	0.943	0
AGAP029054	3.37E-22	0.340	0.73	0.625	0
AGAP005611	4.83E-21	0.393	0.668	0.669	0
AGAP004887	1.66E-19	0.254	0.872	0.916	0
AGAP011424	2.37E-19	0.263	0.81	0.846	0
AGAP009998	1.93E-17	0.271	0.845	0.894	0
AGAP009324	5.68E-16	0.285	0.734	0.788	0
AGAP005602	1.30E-13	0.285	0.133	0.258	0
AGAP012893	1.25E-11	0.264	0.137	0.255	0
AGAP008693	1.29E-10	0.288	0.173	0.307	0
AGAP028028	1.23E-08	0.341	0.562	0.541	0
AGAP004017	1.98E-07	0.375	0.532	0.525	0
AGAP013186	4.14E-07	0.292	0.179	0.299	0
AGAP008165	1.45E-06	0.351	0.175	0.287	0
AGAP028064	3.02E-06	0.371	0.499	0.482	0
AGAP004431	8.93E-06	0.345	0.156	0.258	0
AGAP008432	4.85E-05	0.285	0.163	0.262	0
AGAP003493	0.0001717	0.310	0.193	0.305	0
AGAP005685	0.00090264	0.569	0.462	0.538	0
AGAP002685	0.00908519	0.276	0.259	0.386	0
AGAP008762	0.01102749	0.355	0.206	0.309	0
AGAP004993	0.0210001	0.346	0.454	0.462	0
AGAP000044	0.04556246	0.274	0.266	0.391	0

AGAP011228	2.12E-189	0.746	0.986	0.753	1
AGAP007312	7.96E-162	0.799	0.769	0.353	1
AGAP004936	1.16E-142	0.597	0.923	0.586	1
AGAP006278	3.23E-137	0.667	0.864	0.525	1
AGAP000651	2.72E-136	0.714	0.784	0.394	1
AGAP004017	8.90E-129	0.591	0.815	0.411	1
AGAP004164	1.58E-125	0.705	0.444	0.126	1
AGAP028028	1.70E-121	0.594	0.824	0.437	1
AGAP004016	2.29E-119	0.557	0.69	0.294	1
AGAP006367	2.62E-118	0.869	0.331	0.075	1
AGAP028064	3.88E-118	0.559	0.782	0.369	1
AGAP007176	4.37E-117	0.674	0.361	0.089	1
AGAP010580	5.37E-117	0.630	0.521	0.178	1
AGAP013509	1.04E-116	0.673	0.615	0.247	1
AGAP011940	3.35E-116	0.543	0.412	0.111	1
AGAP005820	6.22E-115	0.549	0.639	0.253	1
AGAP009201	7.87E-114	0.687	0.769	0.404	1
AGAP000305	5.44E-112	0.535	0.941	0.698	1
AGAP000927	2.44E-111	0.495	0.701	0.307	1
AGAP011119	2.70E-111	0.511	0.921	0.566	1
AGAP010548	3.40E-110	0.682	0.704	0.348	1
AGAP004918	3.24E-107	0.749	0.549	0.219	1
AGAP000044	6.26E-106	0.479	0.603	0.238	1
AGAP008165	1.06E-104	0.462	0.466	0.155	1
AGAP002878	9.21E-104	0.489	0.693	0.313	1
AGAP028439	2.13E-103	0.499	0.657	0.278	1
AGAP002594	2.27E-103	0.502	0.737	0.356	1
AGAP001064	1.33E-102	0.549	0.651	0.292	1
AGAP005929	1.80E-102	0.528	0.642	0.281	1
AGAP000268	5.33E-102	0.468	0.454	0.148	1
AGAP000964	8.74E-102	0.591	0.646	0.289	1
AGAP001470	8.97E-102	0.541	0.477	0.163	1
AGAP008822	1.06E-101	0.488	0.551	0.218	1
AGAP004993	5.82E-100	0.586	0.722	0.352	1
AGAP003759	1.36E-99	0.604	0.285	0.063	1
AGAP011197	5.45E-98	0.496	0.543	0.209	1
AGAP005914	6.61E-96	0.461	0.489	0.177	1
AGAP001712	8.24E-94	0.526	0.399	0.13	1

AGAP002016	3.56E-93	0.593	0.371	0.114	1
AGAP007088	1.78E-92	0.513	0.589	0.254	1
AGAP003493	3.84E-92	0.438	0.478	0.175	1
AGAP007045	1.16E-91	0.490	0.395	0.128	1
AGAP003475	7.65E-91	0.495	0.507	0.195	1
AGAP012056	4.56E-90	0.523	0.493	0.19	1
AGAP008908	6.85E-90	0.441	0.435	0.151	1
AGAP009193	8.50E-90	0.729	0.27	0.065	1
AGAP012916	2.04E-89	0.750	0.354	0.109	1
AGAP009194	3.38E-89	0.907	0.312	0.089	1
AGAP003088	1.06E-88	0.509	0.484	0.186	1
AGAP001813	1.48E-88	0.465	0.636	0.292	1
AGAP011859	7.21E-88	0.479	0.327	0.09	1
AGAP001387	1.05E-87	0.375	0.661	0.298	1
AGAP029054	4.65E-87	0.463	0.88	0.577	1
AGAP011974	1.23E-86	0.512	0.551	0.233	1
AGAP007721	1.41E-86	0.463	0.63	0.292	1
AGAP000092	4.56E-86	0.452	0.506	0.203	1
AGAP012893	6.71E-86	0.423	0.397	0.134	1
AGAP009584	6.50E-85	0.557	0.375	0.126	1
AGAP010608	3.16E-84	0.454	0.404	0.14	1
AGAP006921	3.74E-84	0.544	0.439	0.165	1
AGAP002338	1.47E-83	0.324	0.614	0.268	1
AGAP004916	1.63E-83	0.870	0.254	0.061	1
AGAP007629	2.73E-83	0.470	0.555	0.238	1
AGAP012334	1.94E-81	0.432	0.561	0.245	1
AGAP000790	3.64E-81	0.474	0.424	0.152	1
AGAP012014	4.76E-80	0.470	0.464	0.184	1
AGAP000881	2.88E-79	0.432	0.368	0.123	1
AGAP010510	3.75E-79	0.356	0.462	0.176	1
AGAP005618	5.44E-79	0.452	0.379	0.133	1
AGAP029139	6.34E-79	0.496	0.473	0.194	1
AGAP011334	4.03E-78	0.465	0.462	0.184	1
AGAP002685	1.61E-77	0.426	0.555	0.25	1
AGAP004948	1.69E-77	0.410	0.352	0.115	1
AGAP001264	3.78E-77	0.441	0.614	0.29	1
AGAP011076	3.88E-76	0.343	0.471	0.189	1
AGAP010445	5.75E-76	0.371	0.386	0.137	1

AGAP007543	1.48E-75	0.398	0.375	0.131	1
AGAP001306	8.23E-75	0.336	0.311	0.095	1
AGAP009156	3.92E-74	0.461	0.296	0.087	1
AGAP003721	4.24E-74	0.355	0.405	0.151	1
AGAP002759	4.33E-74	0.507	0.274	0.078	1
AGAP003057	8.04E-73	0.876	0.292	0.091	1
AGAP004484	1.79E-72	0.499	0.343	0.12	1
AGAP004247	2.64E-72	0.271	0.561	0.253	1
AGAP000385	6.63E-72	0.428	0.42	0.161	1
AGAP006389	6.66E-72	0.480	0.281	0.083	1
AGAP008503	9.58E-72	0.379	0.368	0.133	1
AGAP010298	2.60E-71	0.441	0.33	0.112	1
AGAP007609	2.71E-71	0.429	0.363	0.129	1
AGAP009651	3.20E-71	0.303	0.435	0.168	1
AGAP007619	8.07E-71	0.389	0.305	0.094	1
AGAP003578	8.46E-71	0.337	0.438	0.171	1
AGAP004533	2.46E-70	0.407	0.781	0.466	1
AGAP028157	3.57E-70	0.505	0.288	0.088	1
AGAP002415	5.52E-70	0.342	0.325	0.106	1
AGAP010347	5.92E-70	0.347	0.728	0.394	1
AGAP002459	9.64E-70	0.455	0.315	0.103	1
AGAP004431	1.24E-69	0.295	0.397	0.147	1
AGAP004395	2.97E-69	0.320	0.536	0.242	1
AGAP001718	3.07E-68	0.318	0.421	0.167	1
AGAP011050	7.16E-68	0.367	0.429	0.173	1
AGAP003183	2.90E-67	0.387	0.269	0.079	1
AGAP000358	6.80E-67	0.303	0.575	0.271	1
AGAP000290	2.32E-66	0.365	0.278	0.084	1
AGAP010224	2.66E-66	0.387	0.287	0.091	1
AGAP005528	4.30E-66	0.340	0.337	0.12	1
AGAP012261	4.92E-66	0.362	0.295	0.095	1
AGAP000439	7.13E-66	0.339	0.317	0.107	1
AGAP000852	8.89E-66	0.401	0.342	0.124	1
AGAP000698	1.04E-65	0.408	0.303	0.102	1
AGAP002599	2.15E-65	0.397	0.634	0.334	1
AGAP011098	3.84E-65	0.357	0.352	0.128	1
AGAP001174	1.08E-64	0.680	0.274	0.087	1
AGAP008693	8.81E-64	0.268	0.439	0.183	1

AGAP010174	1.01E-63	0.409	0.285	0.092	1
AGAP003430	2.53E-63	0.370	0.259	0.077	1
AGAP013511	3.11E-63	0.480	0.254	0.075	1
AGAP003722	3.84E-63	0.319	0.325	0.114	1
AGAP000911	3.88E-63	0.334	0.308	0.104	1
AGAP011984	3.14E-62	0.310	0.261	0.078	1
AGAP007643	7.58E-62	0.293	0.341	0.127	1
AGAP007583	2.00E-61	0.299	0.343	0.128	1
AGAP006459	4.33E-61	0.324	0.628	0.323	1
AGAP001151	6.27E-61	0.313	0.484	0.219	1
AGAP000448	8.24E-61	0.395	0.304	0.105	1
AGAP003553	1.05E-60	0.338	0.356	0.136	1
AGAP008895	1.44E-60	0.362	0.289	0.098	1
AGAP028154	5.52E-60	0.341	0.444	0.195	1
AGAP011824	5.52E-60	0.336	0.392	0.159	1
AGAP004743	2.06E-59	0.336	0.506	0.236	1
AGAP009670	2.33E-58	0.318	0.489	0.227	1
AGAP011284	2.38E-58	0.345	0.343	0.132	1
AGAP008280	2.40E-58	0.300	0.429	0.184	1
AGAP009944	6.72E-58	0.358	0.335	0.128	1
AGAP002413	1.37E-57	0.266	0.37	0.15	1
AGAP010957	2.05E-57	0.372	0.382	0.157	1
AGAP004917	1.13E-56	0.320	0.308	0.111	1
AGAP000414	3.90E-56	0.352	0.256	0.083	1
AGAP000780	4.04E-56	0.271	0.336	0.131	1
AGAP003016	1.07E-55	0.414	0.29	0.103	1
AGAP001069	2.56E-55	0.294	0.31	0.116	1
AGAP010133	2.74E-55	0.351	0.278	0.096	1
AGAP010010	3.37E-55	0.324	0.305	0.112	1
AGAP003069	3.84E-55	0.329	0.407	0.176	1
AGAP001919	8.87E-55	0.270	0.376	0.155	1
AGAP007393	1.16E-54	0.313	0.472	0.219	1
AGAP011828	1.42E-54	0.366	0.901	0.688	1
AGAP003549	1.82E-54	0.307	0.321	0.122	1
AGAP005935	3.85E-54	0.281	0.346	0.139	1
AGAP002473	7.59E-54	0.289	0.352	0.144	1
AGAP001701	7.37E-53	0.326	0.411	0.185	1
AGAP003588	4.89E-52	0.275	0.301	0.115	1

AGAP000167	5.05E-52	0.305	0.366	0.154	1
AGAP009271	1.76E-51	0.329	0.458	0.22	1
AGAP006130	2.48E-51	0.304	0.278	0.101	1
AGAP002113	7.97E-51	0.366	0.272	0.1	1
AGAP010257	1.11E-50	0.255	0.943	0.756	1
AGAP001911	2.55E-50	0.291	0.912	0.658	1
AGAP006037	5.39E-49	0.312	0.721	0.44	1
AGAP005611	5.72E-49	0.309	0.858	0.591	1
AGAP000669	1.23E-48	0.263	0.315	0.128	1
AGAP007406	2.59E-48	0.285	0.909	0.71	1
AGAP003556	3.12E-48	0.326	0.709	0.431	1
AGAP006670	4.06E-48	0.269	0.329	0.134	1
AGAP010310	6.53E-48	0.311	0.333	0.142	1
AGAP028143	3.97E-47	0.257	0.322	0.131	1
AGAP000249	8.61E-47	0.271	0.782	0.484	1
AGAP004960	1.05E-46	0.329	0.287	0.114	1
AGAP005960	1.86E-46	0.255	0.94	0.768	1
AGAP011706	5.25E-45	0.266	0.703	0.417	1
AGAP008816	1.33E-44	0.314	0.289	0.117	1
AGAP029078	3.74E-43	0.315	0.635	0.373	1
AGAP005432	2.43E-42	0.275	0.259	0.101	1
AGAP002667	5.04E-41	0.263	0.755	0.479	1
AGAP007050	5.15E-37	0.268	0.258	0.108	1
AGAP001805	1.78E-35	0.252	0.795	0.537	1
AGAP004212	2.45E-35	0.261	0.375	0.186	1
AGAP001826	9.20E-29	0.350	0.336	0.178	1
AGAP010968	0	2.461	0.475	0.037	2
AGAP013060	0	1.976	0.66	0.092	2
AGAP012571	0	1.944	0.783	0.173	2
AGAP008011	0	1.903	0.479	0.035	2
AGAP003473	2.70E-303	3.031	0.847	0.268	2
AGAP003474	1.54E-298	2.451	0.994	0.952	2
AGAP005888	1.20E-295	1.828	0.959	0.533	2
AGAP008004	7.26E-291	2.368	0.894	0.368	2
AGAP004674	1.01E-278	2.010	0.381	0.02	2
AGAP009527	2.92E-272	2.044	0.606	0.1	2
AGAP006275	3.50E-259	2.270	0.643	0.134	2
AGAP013365	3.69E-234	2.218	0.609	0.123	2

AGAP011792	3.46E-232	1.856	0.367	0.027	2
AGAP002632	2.63E-230	2.413	0.729	0.23	2
AGAP005563	2.27E-227	2.423	0.491	0.071	2
AGAP002518	1.19E-225	2.038	0.518	0.085	2
AGAP007663	4.06E-225	1.820	0.424	0.046	2
AGAP028065	5.09E-218	1.722	0.546	0.095	2
AGAP007385	1.74E-217	1.810	0.459	0.062	2
AGAP028406	7.48E-216	2.130	0.395	0.04	2
AGAP004742	6.88E-213	1.666	0.439	0.054	2
AGAP011791	1.44E-205	1.745	0.34	0.027	2
AGAP012394	1.22E-198	2.093	0.372	0.038	2
AGAP012352	9.80E-198	1.811	0.562	0.119	2
AGAP008127	4.60E-194	1.464	0.265	0.012	2
AGAP005334	1.03E-192	1.652	0.398	0.048	2
AGAP009859	2.97E-192	2.001	0.509	0.097	2
AGAP008227	3.20E-191	1.813	0.489	0.085	2
AGAP013005	1.39E-190	1.916	0.407	0.054	2
AGAP007711	1.53E-190	1.853	0.494	0.092	2
AGAP003250	2.01E-188	1.553	0.308	0.023	2
AGAP011788	2.10E-188	1.519	0.262	0.013	2
AGAP002890	4.00E-188	1.538	0.337	0.031	2
AGAP028463	7.71E-180	1.621	0.506	0.099	2
AGAP007456	1.88E-176	1.610	0.315	0.028	2
AGAP011369	3.35E-176	2.362	0.723	0.304	2
AGAP007453	8.69E-165	1.551	0.357	0.045	2
AGAP005335	1.33E-164	1.443	0.342	0.04	2
AGAP006911	1.19E-162	1.580	0.367	0.05	2
AGAP009146	3.08E-162	1.439	0.281	0.024	2
AGAP011319	4.49E-159	1.572	0.367	0.051	2
AGAP013348	4.97E-155	1.589	0.277	0.024	2
AGAP008012	2.95E-153	1.272	0.272	0.023	2
AGAP007454	2.11E-149	1.308	0.27	0.024	2
AGAP005889	2.78E-148	2.422	0.449	0.098	2
AGAP003168	1.13E-144	1.809	0.484	0.116	2
AGAP005175	3.23E-144	1.520	0.391	0.068	2
AGAP011604	1.44E-143	1.537	0.324	0.044	2
AGAP006821	7.65E-142	1.598	0.498	0.126	2
AGAP005009	8.47E-142	1.556	0.368	0.062	2

AGAP003350	4.83E-139	1.709	0.277	0.03	2
AGAP028491	3.25E-138	1.188	0.262	0.025	2
AGAP002503	2.75E-136	1.402	0.284	0.033	2
AGAP009176	2.23E-132	1.808	0.398	0.078	2
AGAP001713	1.09E-130	1.933	0.405	0.085	2
AGAP012966	1.05E-128	1.229	0.252	0.025	2
AGAP008061	2.87E-125	1.619	0.394	0.083	2
AGAP008225	1.85E-120	1.098	0.284	0.038	2
AGAP028370	2.63E-117	1.547	0.799	0.512	2
AGAP028164	2.25E-115	1.226	0.27	0.036	2
AGAP006348	3.48E-114	1.446	0.275	0.039	2
AGAP028373	3.84E-112	1.278	0.583	0.207	2
AGAP001065	3.03E-110	1.378	0.454	0.124	2
AGAP003580	5.09E-110	1.307	0.348	0.07	2
AGAP008051	1.29E-107	1.668	0.392	0.096	2
AGAP028386	1.03E-104	1.368	0.746	0.453	2
AGAP028366	4.43E-98	1.315	0.886	0.712	2
AGAP013755	3.36E-96	1.685	0.317	0.066	2
AGAP008141	9.12E-93	1.309	0.307	0.064	2
AGAP005620	1.71E-91	1.066	0.267	0.046	2
AGAP028371	1.90E-87	1.482	0.792	0.577	2
AGAP028380	4.60E-87	1.412	0.742	0.446	2
AGAP005662	1.12E-86	1.336	0.419	0.133	2
AGAP028391	1.83E-86	1.199	0.979	0.973	2
AGAP028387	2.63E-84	1.517	0.732	0.445	2
AGAP009648	4.20E-68	0.991	0.285	0.07	2
AGAP028389	5.81E-68	1.143	0.506	0.215	2
AGAP028360	1.59E-58	1.209	0.491	0.229	2
AGAP012956	2.42E-57	2.292	0.454	0.209	2
AGAP028364	5.11E-56	1.225	0.829	0.661	2
AGAP007460	2.06E-54	1.143	0.372	0.143	2
AGAP007939	3.39E-54	0.799	0.267	0.074	2
AGAP005327	2.92E-53	1.016	0.561	0.297	2
AGAP007119	8.29E-52	0.983	0.281	0.086	2
AGAP028393	1.68E-45	1.118	0.531	0.29	2
AGAP013400	1.35E-44	1.095	0.472	0.241	2
AGAP006548	4.43E-43	0.620	0.445	0.201	2
AGAP004203	1.05E-41	1.652	0.268	0.092	2

AGAP001826	1.11E-39	0.759	0.428	0.193	2
AGAP001889	6.97E-39	1.404	0.429	0.215	2
AGAP004790	5.35E-37	0.640	0.699	0.484	2
AGAP028382	1.23E-34	1.174	0.471	0.267	2
AGAP001760	5.14E-33	0.619	0.265	0.098	2
AGAP007201	1.06E-30	0.519	0.262	0.098	2
AGAP004710	2.08E-30	0.703	0.672	0.501	2
AGAP002564	4.93E-20	0.510	0.338	0.176	2
AGAP011833	3.28E-16	0.618	0.294	0.156	2
AGAP004616	6.41E-16	0.428	0.598	0.433	2
AGAP004653	1.80E-15	0.586	0.404	0.259	2
AGAP000109	6.20E-15	0.458	0.324	0.178	2
AGAP000897	5.84E-14	0.647	0.301	0.176	2
AGAP004400	6.17E-13	0.268	0.728	0.606	2
AGAP011317	8.54E-13	0.488	0.518	0.365	2
AGAP000260	3.02E-12	0.287	0.514	0.354	2
AGAP002020	1.05E-10	0.382	0.362	0.232	2
AGAP002630	2.59E-09	0.257	0.484	0.336	2
AGAP008724	5.92E-09	0.307	0.529	0.398	2
AGAP007621	1.35E-07	0.331	0.593	0.482	2
AGAP000851	4.83E-07	0.298	0.546	0.419	2
AGAP006630	1.37E-06	0.250	0.441	0.311	2
AGAP004031	8.46E-06	0.331	0.305	0.204	2
AGAP008955	0.02805942	0.255	0.287	0.208	2
AGAP004978	0	4.470	0.812	0.123	3
AGAP011223	0	4.449	0.84	0.113	3
AGAP006258	0	4.365	0.789	0.128	3
AGAP004977	0	4.055	0.98	0.338	3
AGAP012616	0	3.962	0.828	0.077	3
AGAP012851	0	3.830	0.742	0.024	3
AGAP006570	0	3.669	0.734	0.107	3
AGAP006743	0	3.490	0.628	0.029	3
AGAP000162	0	3.471	0.802	0.06	3
AGAP000679	0	3.160	0.984	0.356	3
AGAP012000	0	2.843	0.425	0.016	3
AGAP004981	0	2.530	0.632	0.052	3
AGAP006914	2.15E-277	2.281	0.421	0.024	3
AGAP006726	6.84E-261	2.213	0.566	0.067	3

AGAP011107	8.60E-247	2.331	0.904	0.325	3
AGAP003490	5.41E-201	2.083	0.462	0.056	3
AGAP001884	4.96E-175	3.125	0.544	0.107	3
AGAP004376	4.10E-163	1.995	0.35	0.036	3
AGAP008000	1.66E-141	1.696	0.658	0.203	3
AGAP002227	4.99E-141	1.674	0.532	0.118	3
AGAP002317	3.88E-131	3.195	0.387	0.062	3
AGAP011158	3.61E-93	2.113	0.344	0.067	3
AGAP028022	2.66E-90	1.168	0.344	0.067	3
AGAP006228	1.10E-84	1.224	0.278	0.046	3
AGAP004775	7.26E-83	1.398	0.55	0.199	3
AGAP005865	1.06E-81	1.304	0.45	0.129	3
AGAP004918	6.50E-77	1.208	0.673	0.278	3
AGAP007572	8.27E-55	0.943	0.513	0.202	3
AGAP002076	8.85E-54	0.808	0.818	0.565	3
AGAP005775	1.02E-47	1.122	0.444	0.177	3
AGAP000249	5.73E-42	0.751	0.8	0.547	3
AGAP008883	5.14E-39	0.816	0.28	0.085	3
AGAP006766	4.06E-37	0.654	0.699	0.44	3
AGAP010188	3.83E-30	0.700	0.258	0.086	3
AGAP011054	2.58E-26	0.703	0.515	0.278	3
AGAP006614	1.11E-25	0.544	0.599	0.368	3
AGAP004916	1.36E-20	0.638	0.26	0.102	3
AGAP006670	4.37E-18	0.543	0.354	0.174	3
AGAP001903	1.04E-16	0.444	0.288	0.133	3
AGAP000385	1.33E-16	0.559	0.401	0.219	3
AGAP003878	1.75E-13	0.693	0.409	0.248	3
AGAP005327	6.20E-13	0.569	0.495	0.315	3
AGAP011092	8.24E-13	0.390	0.742	0.549	3
AGAP003767	8.47E-10	0.339	0.556	0.382	3
AGAP009944	5.52E-09	0.358	0.313	0.175	3
AGAP029078	1.43E-08	0.349	0.611	0.433	3
AGAP011824	1.09E-07	0.667	0.346	0.214	3
AGAP008432	4.91E-07	0.396	0.344	0.213	3
AGAP008909	3.36E-06	0.263	0.292	0.172	3
AGAP004991	7.09E-06	0.332	0.305	0.186	3
AGAP006937	0.00418714	0.255	0.272	0.176	3
AGAP009584	0.00899526	0.338	0.286	0.189	3

AGAP004203	2.94E-162	2.999	0.779	0.096	4
AGAP007940	9.56E-127	2.767	0.718	0.109	4
AGAP006548	1.20E-126	2.566	0.913	0.214	4
AGAP002593	6.61E-114	2.098	0.43	0.035	4
AGAP001065	8.30E-105	2.552	0.765	0.15	4
AGAP004700	3.30E-100	2.240	0.376	0.03	4
AGAP010046	4.33E-88	2.513	0.289	0.019	4
AGAP009173	7.86E-83	2.190	0.376	0.037	4
AGAP001116	1.29E-81	1.947	0.443	0.054	4
AGAP002198	2.09E-76	2.051	0.456	0.062	4
AGAP007455	5.49E-75	1.797	0.356	0.036	4
AGAP004954	6.02E-71	1.664	0.275	0.022	4
AGAP004534	2.34E-70	2.142	0.262	0.02	4
AGAP012352	1.91E-69	1.812	0.685	0.163	4
AGAP012966	2.85E-63	1.523	0.369	0.046	4
AGAP005327	2.86E-48	1.548	0.779	0.319	4
AGAP001423	1.01E-46	1.988	0.43	0.085	4
AGAP011504	1.41E-45	1.823	0.544	0.143	4
AGAP028494	2.69E-45	1.638	0.336	0.052	4
AGAP002378	1.83E-41	1.987	0.423	0.092	4
AGAP009182	5.60E-41	1.793	0.409	0.086	4
AGAP007453	7.04E-37	2.203	0.376	0.078	4
AGAP005861	1.37E-35	1.664	0.51	0.151	4
AGAP008761	1.21E-33	1.781	0.55	0.186	4
AGAP004616	4.48E-33	1.227	0.799	0.445	4
AGAP004550	6.52E-33	1.179	0.315	0.059	4
AGAP007456	3.72E-32	1.644	0.309	0.058	4
AGAP004742	6.99E-32	1.395	0.403	0.096	4
AGAP011319	1.06E-29	1.381	0.369	0.084	4
AGAP003473	1.19E-29	0.671	0.738	0.332	4
AGAP029139	3.41E-29	1.385	0.624	0.265	4
AGAP001826	3.90E-29	1.493	0.591	0.213	4
AGAP000179	2.41E-28	1.786	0.289	0.058	4
AGAP005979	2.88E-28	1.426	0.349	0.081	4
AGAP004790	3.76E-28	1.245	0.785	0.504	4
AGAP012515	6.77E-27	1.165	0.832	0.623	4
AGAP003474	1.59E-26	1.056	0.96	0.957	4
AGAP007460	3.84E-26	1.503	0.483	0.164	4

AGAP004819	1.94E-25	1.546	0.45	0.145	4
AGAP009859	2.95E-25	1.186	0.463	0.142	4
AGAP000180	1.38E-23	1.470	0.349	0.092	4
AGAP005335	1.88E-22	1.166	0.309	0.073	4
AGAP007768	8.21E-22	0.962	0.779	0.556	4
AGAP004653	5.46E-21	1.317	0.57	0.27	4
AGAP028370	8.59E-21	0.877	0.785	0.542	4
AGAP028143	9.56E-20	1.152	0.47	0.178	4
AGAP028386	1.38E-19	1.010	0.765	0.484	4
AGAP013400	1.49E-19	1.270	0.564	0.263	4
AGAP005334	7.33E-19	1.163	0.322	0.087	4
AGAP007492	2.85E-18	1.292	0.369	0.118	4
AGAP007120	2.90E-18	0.800	0.812	0.611	4
AGAP028463	4.11E-18	1.072	0.423	0.145	4
AGAP003534	5.82E-18	1.152	0.275	0.07	4
AGAP002245	5.44E-16	0.894	0.705	0.439	4
AGAP012418	6.75E-16	0.905	0.772	0.605	4
AGAP007621	7.31E-16	0.947	0.711	0.491	4
AGAP028373	9.34E-16	1.027	0.544	0.248	4
AGAP013365	1.44E-15	0.586	0.477	0.178	4
AGAP002277	5.40E-15	1.125	0.443	0.185	4
AGAP008724	7.71E-15	0.988	0.658	0.408	4
AGAP004890	1.27E-14	1.534	0.409	0.169	4
AGAP004710	2.39E-14	0.915	0.732	0.518	4
AGAP000439	2.83E-14	1.387	0.396	0.161	4
AGAP004400	7.46E-14	0.781	0.779	0.617	4
AGAP007927	8.42E-14	0.600	0.819	0.72	4
AGAP005888	8.77E-14	0.536	0.812	0.582	4
AGAP010337	9.87E-14	0.862	0.732	0.546	4
AGAP007385	1.80E-13	0.977	0.329	0.107	4
AGAP000260	3.81E-12	0.950	0.611	0.368	4
AGAP011833	1.67E-11	1.178	0.389	0.168	4
AGAP008004	2.02E-11	0.924	0.651	0.43	4
AGAP011484	2.73E-11	0.766	0.698	0.453	4
AGAP007711	9.22E-11	0.880	0.356	0.138	4
AGAP012717	1.08E-10	1.057	0.336	0.129	4
AGAP008727	1.23E-10	0.771	0.631	0.384	4
AGAP000165	1.68E-10	0.901	0.295	0.104	4

AGAP007087	4.72E-10	0.433	0.98	0.991	4
AGAP012188	1.37E-09	0.649	0.711	0.499	4
AGAP011131	3.91E-09	0.762	0.678	0.481	4
AGAP009833	4.62E-09	1.071	0.483	0.266	4
AGAP011832	4.79E-09	1.336	0.376	0.181	4
AGAP013005	5.37E-09	1.021	0.268	0.095	4
AGAP006879	1.51E-08	0.650	0.711	0.559	4
AGAP003538	1.68E-08	0.358	0.893	0.915	4
AGAP005581	1.81E-08	1.187	0.362	0.168	4
AGAP010606	3.81E-08	1.033	0.302	0.124	4
AGAP010177	3.91E-08	1.120	0.255	0.092	4
AGAP002470	5.79E-08	1.002	0.268	0.101	4
AGAP028380	2.02E-07	0.583	0.658	0.479	4
AGAP002499	6.32E-07	1.088	0.362	0.181	4
AGAP002520	1.60E-06	0.766	0.255	0.098	4
AGAP001595	2.41E-06	0.487	0.819	0.806	4
AGAP006630	3.23E-06	0.708	0.517	0.323	4
AGAP001138	4.18E-06	0.817	0.584	0.404	4
AGAP000851	5.33E-06	0.661	0.604	0.431	4
AGAP009527	6.87E-06	0.450	0.356	0.16	4
AGAP009564	9.85E-06	0.606	0.51	0.305	4
AGAP002630	4.70E-05	0.599	0.544	0.35	4
AGAP028366	7.84E-05	0.285	0.819	0.733	4
AGAP008491	9.05E-05	0.779	0.443	0.271	4
AGAP011896	0.00025959	0.334	0.832	0.813	4
AGAP003768	0.00028217	0.334	0.906	0.842	4
AGAP003599	0.00047237	0.790	0.45	0.287	4
AGAP010386	0.00059786	0.965	0.262	0.126	4
AGAP004296	0.00075248	0.634	0.43	0.263	4
AGAP000109	0.00112229	0.850	0.342	0.193	4
AGAP009491	0.00130174	0.601	0.611	0.485	4
AGAP004235	0.00300418	1.044	0.336	0.195	4
AGAP007574	0.0036735	0.718	0.315	0.168	4
AGAP009072	0.00599111	0.542	0.416	0.253	4
AGAP004743	0.00724895	0.632	0.47	0.309	4
AGAP009865	0.00736454	0.677	0.255	0.124	4
AGAP003900	0.01079693	0.693	0.282	0.147	4
AGAP028389	0.01431724	0.505	0.403	0.249	4

AGAP010464	0.0145139	0.766	0.295	0.162	4
AGAP010517	0.01821295	0.796	0.322	0.192	4
AGAP028360	0.02371424	0.451	0.409	0.259	4
AGAP003864	0.04423235	0.455	0.49	0.331	4
AGAP005363	0	1.730	0.45	0.003	5
AGAP004962	0	1.527	0.412	0.004	5
AGAP007855	4.72E-295	1.583	0.427	0.007	5
AGAP013736	8.53E-285	1.076	0.313	0.002	5
AGAP005019	2.01E-274	2.028	0.557	0.018	5
AGAP003550	3.62E-271	1.303	0.321	0.003	5
AGAP006671	1.30E-267	1.118	0.298	0.002	5
AGAP006105	5.29E-230	1.019	0.282	0.003	5
AGAP004963	7.99E-223	0.989	0.252	0.002	5
AGAP004239	1.13E-212	1.284	0.282	0.003	5
AGAP004753	3.00E-189	1.310	0.305	0.006	5
AGAP011219	1.17E-188	1.380	0.313	0.006	5
AGAP007706	1.48E-176	1.128	0.275	0.005	5
AGAP029045	1.31E-153	1.297	0.305	0.009	5
AGAP008420	5.52E-151	1.078	0.29	0.008	5
AGAP028483	2.60E-149	1.042	0.275	0.007	5
AGAP008753	1.59E-83	1.710	0.718	0.132	5
AGAP005778	7.04E-64	1.403	0.45	0.061	5
AGAP012334	1.61E-49	1.455	0.832	0.324	5
AGAP012202	2.52E-45	1.775	0.504	0.107	5
AGAP006238	2.80E-43	0.872	0.252	0.027	5
AGAP010929	1.89E-39	1.235	0.504	0.113	5
AGAP007569	4.70E-38	0.724	0.336	0.051	5
AGAP000531	9.61E-30	0.712	0.298	0.05	5
AGAP009444	4.92E-24	0.820	0.374	0.09	5
AGAP004164	2.37E-23	0.836	0.603	0.208	5
AGAP001219	7.15E-22	0.799	0.382	0.097	5
AGAP028034	1.45E-21	1.266	0.595	0.218	5
AGAP001387	4.70E-20	0.808	0.779	0.394	5
AGAP011859	2.20E-19	0.657	0.489	0.15	5
AGAP001321	2.67E-19	0.676	0.298	0.067	5
AGAP001701	2.96E-19	0.618	0.634	0.24	5
AGAP003561	3.22E-19	0.574	0.282	0.062	5
AGAP028149	3.80E-19	1.213	0.71	0.32	5

AGAP007867	7.96E-19	0.821	0.527	0.186	5
AGAP006818	6.26E-17	0.850	0.282	0.067	5
AGAP000651	1.75E-16	0.813	0.863	0.498	5
AGAP003936	2.09E-16	0.823	0.336	0.091	5
AGAP003069	1.76E-15	0.517	0.611	0.233	5
AGAP007397	1.84E-15	0.811	0.305	0.082	5
AGAP012028	2.63E-15	0.590	0.389	0.119	5
AGAP011050	7.62E-15	0.765	0.573	0.239	5
AGAP011346	9.56E-15	0.757	0.298	0.08	5
AGAP013296	1.88E-14	0.440	0.313	0.086	5
AGAP005136	2.35E-14	0.394	0.328	0.091	5
AGAP013511	2.51E-14	0.647	0.382	0.12	5
AGAP008344	3.30E-14	0.433	0.275	0.069	5
AGAP012397	1.20E-13	0.487	0.336	0.098	5
AGAP006733	1.30E-13	0.393	0.305	0.084	5
AGAP002459	1.64E-13	0.497	0.45	0.157	5
AGAP006367	1.68E-13	0.668	0.42	0.142	5
AGAP009192	2.69E-13	0.499	0.328	0.095	5
AGAP003016	5.82E-13	0.567	0.427	0.15	5
AGAP008045	6.07E-13	0.493	0.26	0.066	5
AGAP002387	6.75E-13	0.482	0.267	0.07	5
AGAP002338	1.16E-12	0.709	0.718	0.359	5
AGAP013008	1.79E-12	0.508	0.305	0.088	5
AGAP002032	1.91E-12	0.652	0.305	0.089	5
AGAP028143	1.95E-12	0.528	0.473	0.179	5
AGAP005749	2.47E-12	0.642	0.344	0.109	5
AGAP005314	2.50E-12	0.563	0.282	0.079	5
AGAP010510	3.01E-12	0.578	0.58	0.251	5
AGAP004317	6.72E-12	0.573	0.359	0.117	5
AGAP007088	1.13E-11	0.546	0.695	0.342	5
AGAP007699	1.21E-11	0.549	0.542	0.23	5
AGAP009944	1.42E-11	0.536	0.466	0.181	5
AGAP010718	1.47E-11	0.600	0.26	0.07	5
AGAP009194	1.69E-11	0.450	0.412	0.147	5
AGAP005540	1.72E-11	0.448	0.298	0.089	5
AGAP010682	1.89E-11	0.526	0.29	0.085	5
AGAP005929	2.03E-11	0.632	0.702	0.377	5
AGAP004395	2.88E-11	0.531	0.641	0.319	5

AGAP001501	3.17E-11	0.488	0.305	0.094	5
AGAP009687	6.72E-11	0.374	0.298	0.09	5
AGAP011197	1.01E-10	0.602	0.641	0.297	5
AGAP012056	1.10E-10	0.441	0.603	0.269	5
AGAP002265	1.40E-10	0.369	0.359	0.121	5
AGAP009271	2.07E-10	0.493	0.603	0.28	5
AGAP003135	3.19E-10	0.462	0.328	0.107	5
AGAP007024	3.48E-10	0.483	0.45	0.179	5
AGAP009201	3.87E-10	0.597	0.817	0.501	5
AGAP002470	4.06E-10	0.337	0.313	0.1	5
AGAP002706	4.93E-10	0.380	0.405	0.149	5
AGAP008249	8.80E-10	0.460	0.374	0.137	5
AGAP010440	1.70E-09	0.376	0.267	0.081	5
AGAP003021	2.50E-09	0.298	0.305	0.098	5
AGAP011076	2.63E-09	0.402	0.565	0.263	5
AGAP008299	2.85E-09	0.604	0.282	0.092	5
AGAP009075	2.96E-09	0.371	0.336	0.118	5
AGAP008393	2.98E-09	0.515	0.298	0.097	5
AGAP007505	4.17E-09	0.409	0.374	0.139	5
AGAP010580	5.55E-09	0.366	0.595	0.269	5
AGAP006937	5.86E-09	0.426	0.435	0.178	5
AGAP028064	9.22E-09	0.512	0.786	0.481	5
AGAP003462	9.50E-09	0.489	0.29	0.098	5
AGAP007574	1.36E-08	0.397	0.412	0.166	5
AGAP002415	1.42E-08	0.481	0.412	0.163	5
AGAP004916	1.68E-08	0.490	0.321	0.112	5
AGAP011473	1.85E-08	0.508	0.374	0.143	5
AGAP002520	2.09E-08	0.422	0.29	0.098	5
AGAP004917	2.46E-08	0.391	0.412	0.162	5
AGAP002061	2.69E-08	0.396	0.29	0.099	5
AGAP000439	2.75E-08	0.396	0.405	0.162	5
AGAP009209	3.02E-08	0.454	0.29	0.099	5
AGAP008909	3.87E-08	0.304	0.427	0.177	5
AGAP003057	4.31E-08	0.524	0.366	0.144	5
AGAP003134	5.72E-08	0.273	0.374	0.144	5
AGAP010225	5.86E-08	0.489	0.321	0.113	5
AGAP002087	8.01E-08	0.322	0.412	0.166	5
AGAP005523	1.05E-07	0.366	0.26	0.086	5

AGAP004079	1.11E-07	0.444	0.298	0.106	5
AGAP011634	1.39E-07	0.272	0.374	0.146	5
AGAP002140	1.49E-07	0.386	0.282	0.097	5
AGAP004484	1.56E-07	0.376	0.427	0.179	5
AGAP003162	1.72E-07	0.279	0.275	0.092	5
AGAP001998	1.72E-07	0.332	0.328	0.121	5
AGAP010253	1.82E-07	0.335	0.267	0.09	5
AGAP000044	1.85E-07	0.423	0.641	0.336	5
AGAP008612	2.22E-07	0.272	0.321	0.118	5
AGAP004668	2.28E-07	0.515	0.282	0.099	5
AGAP011444	2.39E-07	0.357	0.344	0.132	5
AGAP001069	2.63E-07	0.374	0.405	0.166	5
AGAP011190	2.74E-07	0.279	0.351	0.136	5
AGAP000881	2.87E-07	0.376	0.435	0.188	5
AGAP011733	3.26E-07	0.438	0.313	0.116	5
AGAP028439	3.38E-07	0.466	0.679	0.38	5
AGAP001064	4.04E-07	0.383	0.702	0.388	5
AGAP012014	4.60E-07	0.364	0.542	0.258	5
AGAP029139	5.82E-07	0.393	0.557	0.268	5
AGAP007120	5.93E-07	0.388	0.885	0.61	5
AGAP005432	6.58E-07	0.336	0.359	0.141	5
AGAP002521	6.87E-07	0.325	0.275	0.095	5
AGAP010445	6.90E-07	0.373	0.458	0.203	5
AGAP001505	7.03E-07	0.324	0.26	0.089	5
AGAP002931	7.21E-07	0.336	0.45	0.196	5
AGAP008632	7.50E-07	0.286	0.366	0.146	5
AGAP007583	8.22E-07	0.274	0.427	0.184	5
AGAP010347	9.26E-07	0.399	0.771	0.484	5
AGAP001364	9.95E-07	0.327	0.29	0.106	5
AGAP011940	1.38E-06	0.393	0.435	0.192	5
AGAP009193	1.42E-06	0.330	0.313	0.119	5
AGAP011531	1.50E-06	0.342	0.305	0.114	5
AGAP006040	1.52E-06	0.348	0.282	0.103	5
AGAP000546	1.69E-06	0.346	0.298	0.111	5
AGAP013336	1.76E-06	0.350	0.359	0.147	5
AGAP003919	1.81E-06	0.486	0.313	0.121	5
AGAP008008	1.85E-06	0.446	0.618	0.311	5
AGAP008345	2.08E-06	0.337	0.282	0.104	5

AGAP012135	2.25E-06	0.256	0.282	0.102	5
AGAP013102	2.57E-06	0.320	0.29	0.108	5
AGAP005410	2.59E-06	0.261	0.351	0.141	5
AGAP007629	2.72E-06	0.407	0.626	0.322	5
AGAP012524	2.82E-06	0.318	0.641	0.332	5
AGAP002020	2.88E-06	0.322	0.511	0.243	5
AGAP007575	2.95E-06	0.320	0.321	0.124	5
AGAP000669	3.16E-06	0.252	0.412	0.176	5
AGAP008163	3.30E-06	0.558	0.397	0.177	5
AGAP008693	3.57E-06	0.271	0.527	0.25	5
AGAP006944	3.92E-06	0.279	0.359	0.147	5
AGAP007721	4.15E-06	0.352	0.695	0.382	5
AGAP011907	4.34E-06	0.634	0.29	0.11	5
AGAP005820	4.82E-06	0.457	0.649	0.357	5
AGAP004839	4.94E-06	0.337	0.328	0.132	5
AGAP000448	5.36E-06	0.257	0.374	0.157	5
AGAP013291	5.73E-06	0.348	0.29	0.11	5
AGAP002413	6.27E-06	0.271	0.45	0.208	5
AGAP000949	6.45E-06	0.388	0.305	0.118	5
AGAP009738	7.14E-06	0.384	0.336	0.137	5
AGAP010331	7.26E-06	0.367	0.298	0.116	5
AGAP009584	8.03E-06	0.361	0.42	0.192	5
AGAP001068	9.65E-06	0.337	0.321	0.127	5
AGAP002917	1.12E-05	0.380	0.26	0.096	5
AGAP013509	1.15E-05	0.393	0.634	0.346	5
AGAP004212	1.22E-05	0.414	0.489	0.234	5
AGAP007614	1.35E-05	0.257	0.267	0.099	5
AGAP007393	1.43E-05	0.357	0.557	0.285	5
AGAP009305	1.77E-05	0.461	0.298	0.119	5
AGAP010957	1.80E-05	0.502	0.443	0.217	5
AGAP004993	1.87E-05	0.453	0.725	0.452	5
AGAP006670	1.96E-05	0.361	0.412	0.185	5
AGAP006607	2.06E-05	0.280	0.351	0.15	5
AGAP008837	4.33E-05	0.276	0.328	0.137	5
AGAP013228	4.57E-05	0.307	0.313	0.129	5
AGAP009907	5.37E-05	0.351	0.26	0.098	5
AGAP009202	5.55E-05	0.357	0.344	0.15	5
AGAP000290	6.33E-05	0.354	0.321	0.135	5

AGAP004852	7.24E-05	0.289	0.305	0.126	5
AGAP003759	7.33E-05	0.276	0.305	0.123	5
AGAP011800	9.16E-05	0.340	0.427	0.21	5
AGAP010464	9.34E-05	0.260	0.359	0.161	5
AGAP009651	0.00010774	0.393	0.481	0.239	5
AGAP011228	0.00010962	0.280	0.962	0.817	5
AGAP004296	0.00012429	0.307	0.511	0.261	5
AGAP003851	0.00014452	0.361	0.634	0.364	5
AGAP028157	0.00014811	0.289	0.328	0.141	5
AGAP003360	0.00021573	0.281	0.29	0.12	5
AGAP001718	0.00023109	0.273	0.473	0.235	5
AGAP004721	0.00023432	0.262	0.656	0.371	5
AGAP004743	0.00025339	0.379	0.565	0.308	5
AGAP001311	0.00034795	0.304	0.282	0.117	5
AGAP002606	0.00036802	0.482	0.267	0.11	5
AGAP004960	0.00040251	0.304	0.344	0.16	5
AGAP003553	0.00046293	0.366	0.397	0.195	5
AGAP008816	0.00048233	0.266	0.351	0.162	5
AGAP004606	0.00051606	0.338	0.389	0.185	5
AGAP028617	0.00060721	0.307	0.282	0.118	5
AGAP000852	0.00081411	0.269	0.382	0.182	5
AGAP002935	0.00083071	0.272	0.351	0.163	5
AGAP003367	0.0009167	0.254	0.45	0.225	5
AGAP004918	0.001039	0.348	0.542	0.308	5
AGAP000927	0.00163827	0.277	0.679	0.414	5
AGAP001976	0.00181993	0.331	0.252	0.105	5
AGAP002759	0.0019539	0.438	0.29	0.131	5
AGAP004026	0.00223784	0.428	0.252	0.105	5
AGAP010608	0.00243062	0.274	0.42	0.211	5
AGAP000414	0.00253615	0.295	0.29	0.129	5
AGAP003721	0.00414231	0.324	0.42	0.219	5
AGAP009152	0.00910534	0.278	0.351	0.175	5
AGAP007312	0.01111189	0.311	0.718	0.467	5
AGAP002422	0.0143814	0.267	0.832	0.56	5
AGAP028028	0.02248838	0.251	0.802	0.543	5
AGAP009526	1.72E-104	2.864	0.736	0.117	6
AGAP006181	1.12E-97	2.622	0.579	0.069	6
AGAP003939	5.44E-83	2.675	0.562	0.078	6

AGAP001622	2.17E-72	2.641	0.76	0.189	6
AGAP003778	1.13E-70	2.418	0.504	0.071	6
AGAP001569	6.19E-66	2.280	0.479	0.067	6
AGAP004161	8.04E-64	2.322	0.736	0.196	6
AGAP002358	3.84E-58	2.334	0.446	0.065	6
AGAP008311	2.87E-50	2.093	0.273	0.026	6
AGAP004790	5.28E-46	1.919	0.909	0.503	6
AGAP011484	9.81E-46	2.081	0.86	0.451	6
AGAP003474	4.98E-41	0.920	1	0.956	6
AGAP000693	6.27E-39	1.360	0.521	0.126	6
AGAP012418	3.01E-32	1.539	0.868	0.604	6
AGAP004400	9.69E-32	1.549	0.86	0.616	6
AGAP006879	2.41E-31	1.531	0.851	0.556	6
AGAP011131	5.24E-31	1.621	0.793	0.479	6
AGAP003473	3.70E-29	0.703	0.769	0.334	6
AGAP003586	2.91E-28	2.010	0.306	0.056	6
AGAP009491	8.13E-28	1.367	0.793	0.481	6
AGAP004710	1.10E-27	1.390	0.835	0.516	6
AGAP000260	2.87E-26	1.687	0.702	0.367	6
AGAP002245	1.84E-24	1.521	0.744	0.439	6
AGAP007768	2.47E-24	1.444	0.793	0.557	6
AGAP000851	1.18E-23	1.628	0.711	0.43	6
AGAP005888	2.27E-22	0.551	0.868	0.582	6
AGAP010337	3.17E-22	1.430	0.777	0.546	6
AGAP008724	2.11E-21	1.515	0.694	0.409	6
AGAP012188	2.26E-20	1.522	0.736	0.5	6
AGAP008727	3.88E-19	1.418	0.669	0.385	6
AGAP007621	6.59E-19	1.439	0.736	0.491	6
AGAP004616	2.88E-18	1.425	0.694	0.449	6
AGAP013092	3.53E-18	1.365	0.744	0.541	6
AGAP000849	8.95E-17	1.532	0.62	0.36	6
AGAP013365	3.44E-15	1.115	0.471	0.18	6
AGAP009537	4.37E-15	1.470	0.587	0.319	6
AGAP012515	6.18E-15	1.031	0.769	0.626	6
AGAP010672	6.85E-13	1.554	0.455	0.208	6
AGAP002564	8.62E-13	1.552	0.438	0.191	6
AGAP002632	2.09E-10	0.892	0.545	0.289	6
AGAP011159	7.14E-10	1.452	0.537	0.324	6

AGAP008004	2.50E-09	0.564	0.678	0.431	6
AGAP013060	6.42E-09	0.930	0.397	0.161	6
AGAP012533	8.92E-06	1.258	0.438	0.262	6
AGAP012571	1.16E-05	0.685	0.463	0.248	6
AGAP011829	7.90E-05	1.244	0.463	0.308	6
AGAP001138	0.00013625	0.981	0.529	0.406	6
AGAP003538	0.00016288	0.336	0.917	0.914	6
AGAP001889	0.00036591	0.735	0.421	0.239	6
AGAP009859	0.00067777	0.952	0.306	0.147	6
AGAP009564	0.00095546	1.170	0.446	0.307	6
AGAP003328	0.0023294	1.253	0.331	0.184	6
AGAP003864	0.00380745	1.136	0.455	0.333	6
AGAP003599	0.00393763	1.207	0.421	0.289	6
AGAP013400	0.00861525	1.033	0.405	0.268	6
AGAP009527	0.01766886	0.972	0.306	0.163	6
AGAP007841	0.01977527	1.122	0.43	0.311	6
AGAP008955	0.02020887	1.158	0.347	0.215	6
AGAP007297	1	0.969	0.322	0.256	6
AGAP007347	7.26E-217	4.377	0.908	0.084	7
AGAP005848	6.18E-105	2.456	0.392	0.026	7
AGAP011294	2.59E-69	1.857	0.283	0.02	7
AGAP000694	2.91E-63	2.455	0.267	0.02	7
AGAP000376	1.50E-51	2.140	0.758	0.237	7
AGAP011197	1.33E-40	1.780	0.775	0.294	7
AGAP005888	2.24E-37	2.574	0.933	0.581	7
AGAP000693	1.49E-32	2.856	0.492	0.127	7
AGAP005612	8.23E-23	2.085	0.317	0.071	7
AGAP010816	1.11E-17	1.344	0.342	0.094	7
AGAP004721	3.78E-12	0.936	0.658	0.371	7
AGAP028463	1.74E-10	1.596	0.367	0.147	7
AGAP010225	1.62E-09	1.061	0.317	0.113	7
AGAP012708	1.75E-08	0.611	0.842	0.579	7
AGAP004918	6.89E-08	0.786	0.558	0.308	7
AGAP009849	3.22E-07	1.212	0.267	0.098	7
AGAP005149	7.34E-07	1.161	0.442	0.234	7
AGAP007721	1.11E-06	0.714	0.625	0.384	7
AGAP003851	1.37E-06	0.745	0.6	0.366	7
AGAP007087	1.10E-05	0.356	1	0.99	7

AGAP002338	1.90E-05	0.860	0.558	0.364	7
AGAP004710	3.32E-05	0.482	0.75	0.518	7
AGAP028439	0.0001014	0.664	0.583	0.383	7
AGAP011802	0.00012866	0.328	1	0.983	7
AGAP007619	0.00015509	0.976	0.317	0.151	7
AGAP001718	0.00152987	0.814	0.4	0.237	7
AGAP004743	0.00217728	0.679	0.492	0.31	7
AGAP001971	0.00326132	0.502	0.692	0.557	7
AGAP011824	0.00491245	0.790	0.392	0.222	7
AGAP004790	0.02712352	0.251	0.708	0.508	7
AGAP011228	0.03268744	0.318	0.983	0.816	7
AGAP008163	0.03889787	0.800	0.325	0.179	7
AGAP007318	0	3.649	0.788	0.021	8
AGAP009053	6.97E-212	3.014	0.541	0.016	8
AGAP028208	3.96E-195	2.728	0.341	0.005	8
AGAP009051	1.62E-177	1.973	0.365	0.008	8
AGAP007320	4.28E-175	1.529	0.294	0.004	8
AGAP001002	2.27E-129	3.813	0.424	0.018	8
AGAP001652	9.61E-107	2.220	0.612	0.05	8
AGAP003319	6.01E-95	2.148	0.494	0.035	8
AGAP011226	1.25E-92	1.942	0.424	0.026	8
AGAP005209	1.06E-73	1.818	0.471	0.041	8
AGAP010759	2.84E-65	2.023	0.694	0.105	8
AGAP009098	2.29E-58	1.554	0.259	0.015	8
AGAP003352	7.88E-53	1.353	0.376	0.035	8
AGAP002379	8.34E-42	1.548	0.271	0.023	8
AGAP002878	1.78E-32	1.539	0.918	0.415	8
AGAP006367	2.30E-30	1.494	0.6	0.142	8
AGAP010548	4.91E-29	1.652	0.859	0.444	8
AGAP000964	6.85E-27	1.504	0.835	0.385	8
AGAP028157	1.64E-21	1.062	0.529	0.139	8
AGAP003088	6.13E-21	1.358	0.682	0.265	8
AGAP004247	5.34E-20	1.442	0.765	0.335	8
AGAP001174	1.10E-18	1.266	0.494	0.135	8
AGAP000651	3.16E-18	1.172	0.859	0.501	8
AGAP012916	9.91E-18	1.045	0.565	0.173	8
AGAP013511	1.95E-17	1.086	0.459	0.121	8
AGAP013027	2.78E-17	0.650	0.259	0.042	8

AGAP005246	2.59E-16	0.959	0.435	0.115	8
AGAP003057	3.68E-16	1.012	0.494	0.144	8
AGAP007176	2.02E-14	1.025	0.506	0.162	8
AGAP010133	4.46E-14	1.110	0.471	0.143	8
AGAP009156	7.35E-13	0.900	0.459	0.143	8
AGAP000321	2.98E-12	0.732	0.424	0.126	8
AGAP012396	9.79E-12	1.004	0.6	0.242	8
AGAP011334	1.37E-11	0.929	0.612	0.258	8
AGAP028617	2.11E-11	0.883	0.4	0.118	8
AGAP011958	3.75E-11	0.616	0.424	0.127	8
AGAP000235	1.80E-10	0.704	0.318	0.082	8
AGAP002473	2.34E-10	0.901	0.529	0.199	8
AGAP007721	3.55E-10	0.818	0.753	0.384	8
AGAP012056	3.93E-10	0.986	0.612	0.272	8
AGAP010175	1.15E-09	0.939	0.271	0.066	8
AGAP005933	1.44E-09	0.707	0.294	0.076	8
AGAP003475	2.17E-09	0.764	0.635	0.279	8
AGAP000385	4.73E-09	0.721	0.565	0.23	8
AGAP001823	5.17E-09	0.670	0.294	0.079	8
AGAP006745	7.05E-09	0.703	0.341	0.1	8
AGAP005931	1.70E-08	0.762	0.388	0.129	8
AGAP003722	1.83E-08	0.861	0.459	0.17	8
AGAP007583	1.84E-08	0.591	0.494	0.185	8
AGAP010307	2.17E-08	0.794	0.365	0.118	8
AGAP009305	5.33E-08	0.769	0.365	0.119	8
AGAP008905	5.35E-08	0.608	0.365	0.118	8
AGAP003408	1.47E-07	0.565	0.365	0.12	8
AGAP007864	3.68E-07	0.760	0.282	0.082	8
AGAP000927	3.73E-07	0.676	0.741	0.415	8
AGAP028154	4.13E-07	0.704	0.576	0.262	8
AGAP007941	5.85E-07	0.637	0.259	0.072	8
AGAP009110	7.10E-07	0.650	0.271	0.077	8
AGAP007049	8.42E-07	0.550	0.329	0.106	8
AGAP008895	1.56E-06	0.694	0.4	0.149	8
AGAP013331	2.48E-06	0.703	0.271	0.08	8
AGAP010233	3.06E-06	0.623	0.271	0.081	8
AGAP001285	7.36E-06	0.617	0.341	0.121	8
AGAP009464	8.32E-06	0.556	0.306	0.101	8

AGAP001616	9.23E-06	0.513	0.271	0.082	8
AGAP010298	1.54E-05	0.528	0.424	0.171	8
AGAP005121	1.83E-05	0.730	0.259	0.08	8
AGAP006204	0.00011402	0.352	0.306	0.105	8
AGAP005160	0.00014013	0.825	0.306	0.113	8
AGAP002569	0.00016278	0.585	0.282	0.098	8
AGAP005608	0.00026338	0.405	0.271	0.091	8
AGAP006389	0.00026475	0.607	0.341	0.137	8
AGAP007643	0.00031647	0.609	0.412	0.185	8
AGAP011140	0.00033321	0.424	0.294	0.106	8
AGAP001306	0.00091632	0.631	0.365	0.154	8
AGAP007209	0.0009847	0.576	0.294	0.108	8
AGAP004431	0.00146403	0.447	0.459	0.215	8
AGAP007157	0.0017956	0.409	0.929	0.781	8
AGAP003021	0.00241962	0.546	0.271	0.101	8
AGAP011054	0.00291066	0.570	0.553	0.296	8
AGAP008094	0.0033246	0.689	0.259	0.095	8
AGAP001711	0.0044172	0.481	0.365	0.164	8
AGAP008908	0.00451939	0.526	0.459	0.229	8
AGAP007609	0.00513771	0.395	0.424	0.193	8
AGAP011119	0.00641057	0.374	0.929	0.664	8
AGAP004709	0.0071901	0.432	0.294	0.117	8
AGAP009883	0.00777433	0.311	0.282	0.109	8
AGAP009647	0.00805217	0.315	0.553	0.284	8
AGAP012717	0.01025701	0.434	0.318	0.132	8
AGAP000565	0.01034011	0.301	0.306	0.124	8
AGAP011798	0.01111463	0.573	0.259	0.099	8
AGAP001976	0.01712058	0.340	0.271	0.106	8
AGAP002931	0.01969398	0.335	0.412	0.199	8
AGAP004852	0.02508642	0.352	0.306	0.128	8
AGAP002599	0.03220097	0.435	0.671	0.417	8
AGAP001971	0.03253498	0.395	0.812	0.556	8
AGAP002113	0.03696752	0.500	0.329	0.147	8
AGAP003477	0.04175418	0.310	0.259	0.103	8
AGAP005462	0.04202719	0.413	0.259	0.104	8