

Supplementary Table S4: annotation results from MAGMA gene-based analysis

GENE	CHR	START	STOP	NSNPS	NPARAM	N	ZSTAT
3492	14	106032614	107288051	5497	147	80067	4.93550000
3075	1	196621008	196716634	279	19	80067	6.08849999
597	15	80253232	80263643	16	3	80067	4.72419999
1232	3	46283872	46308197	68	9	80067	6.7881
1234	3	46411633	46417697	16	4	80067	5.4581
1238	3	42850964	42908775	144	20	80067	7.63569999
1582	3	42913684	42917633	8	3	80067	6.10939999
1589	6	32006093	32009447	6	3	80067	5.02230000
2532	1	159173803	159176290	9	4	80067	7.423
3092	7	75162619	75368290	680	59	80067	7.39320000
5447	7	75544420	75616173	185	38	80067	5.83790000
6347	17	32582296	32584222	3	1	80067	5.3853
6354	17	32597235	32599261	3	2	80067	6.28789999
6356	17	32612687	32615199	8	5	80067	8.25590000
6369	7	75440766	75452674	65	14	80067	6.72259999
7433	3	42530791	42579065	134	28	80067	7.04359999
9034	3	46448721	46454488	21	5	80067	5.60329999
9117	3	42589459	42642572	144	19	80067	5.37239999
10344	7	75398842	75419064	88	12	80067	5.68569999
10663	3	45984973	45989845	10	4	80067	6.5762
10803	3	45927996	45944667	40	10	80067	5.35890000
22835	19	38123386	38148129	55	13	80067	5.78110000
25994	3	42824400	42846027	38	11	80067	6.10939999
51188	3	42623332	42636490	36	8	80067	4.84339999
51276	19	38055155	38085673	66	12	80067	6.11789999
54585	3	45864808	45957216	197	31	80067	7.76069999
57414	7	75508317	75518244	15	7	80067	4.95359999
57467	3	42734155	42744319	26	9	80067	7.92060000
57863	1	159141377	159172932	84	22	80067	4.96699999
64866	3	45123766	45187914	220	63	80067	5.51989999
79443	3	45959391	46037316	230	22	80067	7.32260000
83889	19	38375213	38397317	44	12	80067	5.60189999
84503	19	37862007	37883967	37	10	80067	6.12549999
84775	19	38187264	38210691	52	11	80067	5.95
84892	3	43120721	43147575	51	12	80067	7.2698
92285	19	37672481	37701632	46	12	80067	4.9032
92999	3	42695176	42709072	35	8	80067	6.60039999
112724	19	55555684	55580914	138	21	80067	5.27
126231	19	38229203	38270230	80	16	80067	5.8792
131377	3	42727011	42733938	11	5	80067	7.94920000
148266	19	37901778	37960167	103	17	80067	6.08150000
148268	19	37958463	37976242	24	5	80067	5.91300000
152206	3	42749764	42814745	165	20	80067	6.94050000
163115	19	38158650	38183216	62	12	80067	5.79990000
163255	19	38042273	38105080	125	18	80067	6.15109999
199704	19	37638340	37663643	64	14	80067	4.71170000
284459	19	37825580	37855357	70	13	80067	6.03589999

389114	3	42947402	42960825	18	4	80067	5.4131
390927	19	37997323	38034239	74	20	80067	6.6022999!
729085	3	43020759	43099207	228	24	80067	6.1093999!
729230	3	46395235	46402413	20	5	80067	7.0617999!
1001321463		46653925	46668033	67	14	80067	5.2267000!
1005062433		42977834	42984284	8	4	80067	5.1101999!
890	4	122737599	122745153	19	6	80067	5.8609999!
2247	4	123747568	123819390	278	33	80067	8.2426999!
3558	4	123372625	123377650	6	3	80067	6.1581999!
5393	4	122722445	122738176	39	9	80067	5.1486999!
7222	4	122800183	122872909	150	25	80067	7.1398000!
10252	4	124317946	124324915	17	5	80067	6.2305999!
11107	4	121613070	121844013	927	42	80067	6.5152000!
11162	4	123813799	123844159	122	19	80067	6.1093999!
55212	4	122745484	122791652	88	16	80067	6.2072000!
59067	4	123533783	123542212	19	8	80067	6.1093999!
84162	4	123073488	123283914	333	29	80067	8.0244
132332	4	122680085	122686516	22	6	80067	6.3367000!
132612	4	123300121	123350957	102	17	80067	7.6955999!
166378	4	123844225	124240605	1268	28	80067	8.4489999!
166379	4	123653857	123666098	12	4	80067	6.2146999!
171024	4	119809996	119982402	609	59	80067	4.8715000!
341	19	45417577	45422606	11	5	80067	7.8964999!
344	19	45449239	45452822	8	3	80067	8.0391999!
346	19	45445495	45448753	6	4	80067	6.1093999!
348	19	45409039	45412650	8	4	80067	7.9939
590	3	165490692	165555260	195	25	80067	7.31
602	19	45246070	45263301	26	9	80067	7.6965000!
1158	19	45809671	45826302	72	17	80067	6.2211999!
1209	19	45457842	45496604	80	14	80067	7.5284000!
1441	1	36931644	36948915	45	13	80067	4.9328000!
2067	19	45910591	45982241	211	33	80067	6.1093999!
2354	19	45971253	45978437	24	6	80067	7.3274999!
2696	19	46171490	46185717	33	9	80067	4.9851999!
3783	19	44270685	44286269	52	14	80067	5.4168000!
5669	19	43370613	43383921	73	8	80067	4.8154000!
5675	19	43406234	43422076	56	9	80067	4.8117000!
5676	19	43428284	43441330	64	5	80067	5.4752000!
5709	17	38137021	38154213	57	6	80067	4.6222000!
5817	19	45147098	45169429	53	13	80067	6.9870000!
5819	19	45349393	45392485	174	25	80067	7.3122999!
5971	19	45504707	45541456	72	19	80067	6.1093999!
6253	19	45988546	46000313	35	8	80067	5.3891999!
7408	19	46010688	46030247	53	13	80067	5.9470000!
9862	17	38175350	38210889	68	10	80067	4.8140000!
10452	19	45394477	45406946	50	11	80067	6.1093999!
10848	19	45882892	45909787	58	16	80067	6.3323
11129	19	45542298	45574214	53	8	80067	7.3452000!
23403	19	46213887	46234151	28	13	80067	4.6130000!
29888	19	47222768	47250251	66	14	80067	5.1547999!

54814	19	46195741	46207248	30	12	80067	5.8956999!
79090	19	45666186	45681501	29	6	80067	7.6974
79760	19	45579024	45594782	70	5	80067	7.8743999!
90332	19	45715879	45737469	101	9	80067	6.9493999!
125931	19	45010211	45033548	77	17	80067	5.1816000!
147699	19	46001731	46005768	8	4	80067	4.6429999!
147710	19	45116911	45140081	71	14	80067	5.6595000!
147923	19	37569319	37621221	128	13	80067	4.8246000!
162979	19	45574758	45579688	4	2	80067	6.8730000!
284349	19	44331445	44353050	104	10	80067	4.7591000!
284352	19	45596431	45650543	132	12	80067	7.0045000!
284353	19	45653008	45663408	21	7	80067	7.9378000!
388552	19	45682003	45685058	5	2	80067	6.9667000!
173	4	74347462	74369718	68	14	80067	7.4067999!
174	4	74301933	74321492	49	12	80067	6.1093999!
213	4	74269972	74287129	41	7	80067	6.9927999!
258	4	71457975	71473005	70	21	80067	5.7478999!
1446	4	70796799	70812288	48	13	80067	5.0119999!
2044	4	66185281	66536529	1578	80	80067	4.6219999!
2069	4	75230860	75254477	103	14	80067	6.9283999!
2638	4	72607410	72671237	213	36	80067	5.0738000!
2919	4	74735109	74737019	7	4	80067	6.1093999!
2920	4	74962752	74964997	4	2	80067	6.9374000!
2921	4	74902306	74904490	5	3	80067	7.3292000!
3075	1	196621008	196716634	329	22	80067	4.6247999!
3346	4	70916159	70924559	41	10	80067	6.2153
3347	4	70894130	70902255	28	7	80067	5.0502000!
5196	4	74846542	74847841	3	1	80067	6.1093999!
5197	4	74719013	74720198	4	2	80067	6.1093999!
5470	4	76781025	76823681	155	26	80067	7.6837
5473	4	74852156	74853907	8	5	80067	6.1093999!
6374	4	74861359	74864446	8	5	80067	6.5080999!
6779	4	70861648	70868173	16	8	80067	6.7110000!
6783	4	70706930	70725870	73	19	80067	5.8639000!
8671	4	72053003	72437804	1036	66	80067	7.2832999!
9508	4	73146686	73434516	706	58	80067	9.2329000!
10563	4	78432907	78532988	245	53	80067	5.8167999!
10879	4	71248795	71255961	47	6	80067	5.5048000!
25849	4	75858285	75975325	282	36	80067	4.7915000!
25898	4	76404247	76439884	107	17	80067	4.7957999!
26057	4	73940502	74124858	264	47	80067	7.2774000!
28983	4	69313167	69363322	255	22	80067	5.0826000!
29982	10	64893007	64914786	58	17	80067	7.2760999!
55153	4	76871064	76912115	124	23	80067	5.3455000!
57863	1	159141377	159172932	107	31	80067	4.6626000!
64651	3	39183342	39196093	46	14	80067	4.9165000!
80144	4	78978724	79465423	2164	71	80067	5.7122999!
152815	4	76439654	76468610	78	20	80067	5.3902000!
152816	4	76481258	76491103	41	11	80067	5.548
166824	4	74437267	74486348	175	18	80067	8.0678000!

199223	3	39149152	39180394	140	23	80067	5.01740000
221035	10	65281113	65384883	342	31	80067	7.49699999
221037	10	64926983	65225880	971	44	80067	7.61880000
255324	4	75174187	75182520	19	4	80067	7.9272
285521	4	73920416	73935476	20	9	80067	7.92830000
441024	4	74989019	75168816	437	44	80067	7.86650000
100129583	4	77135193	77204936	415	32	80067	5.72719999
3082	7	81331444	81399452	186	25	80067	6.10939999
3083	4	3443702	3451214	41	15	80067	6.10939999
3092	7	75162619	75368290	852	84	80067	4.95080000
4043	4	3505324	3534224	174	25	80067	4.76719999
5029	11	72928735	72953472	71	24	80067	7.01060000
5046	15	101844133	102030187	1129	143	80067	4.74920000
5709	17	38137021	38154213	72	9	80067	5.82800000
6002	4	3315874	3441640	450	62	80067	6.06160000
9862	17	38175350	38210889	87	15	80067	5.83089999
284110	17	38119226	38134019	67	13	80067	4.85660000
285489	4	3465033	3503203	324	35	80067	7.45859999
590	3	165490692	165555260	195	25	80067	6.47710000
629	6	31913721	31919861	21	10	80067	6.10939999
717	6	31865562	31913449	69	17	80067	7.53120000
721	6	31982572	32003195	1	1	80067	6.3472
1589	6	32006093	32009447	6	3	80067	5.61300000
1797	6	31937588	31940032	4	2	80067	5.03530000
2165	1	197007877	197036568	55	8	80067	7.35039999
3075	1	196621008	196716634	287	19	80067	8.18689999
3078	1	196788861	196801319	58	3	80067	7.80400000
3080	1	196912888	196928356	39	11	80067	6.10939999
4277	6	31462054	31478901	149	16	80067	5.19599999
6499	6	31926581	31937532	13	5	80067	7.89660000
7148	6	32008932	32077151	140	33	80067	6.90920000
7407	6	31745295	31763712	8	5	80067	5.7679
7936	6	31919864	31926864	10	5	80067	7.26290000
8859	6	31938952	31949223	19	10	80067	7.98899999
10877	1	196857144	196887843	55	11	80067	6.10939999
10878	1	196743925	196763203	75	3	80067	7.8022
23418	1	197170592	197447585	446	49	80067	7.09930000
81494	1	196946667	196978804	63	13	80067	7.75009999
259266	1	197053257	197115824	102	9	80067	6.11420000
360023	1	197122814	197169672	94	15	80067	6.29689999
394263	6	30951485	30957675	8	5	80067	5.11589999
100507679	6	30973729	31003179	90	27	80067	4.55879999
3075	1	196621008	196716634	289	19	80067	6.4333
2165	1	197007877	197036568	55	8	80067	6.2416
3075	1	196621008	196716634	279	19	80067	7.92279999
3078	1	196788861	196801319	56	3	80067	7.70209999
3080	1	196912888	196928356	36	9	80067	7.28450000
10877	1	196857144	196887843	54	10	80067	7.94190000
10878	1	196743925	196763203	75	3	80067	7.95049999
23418	1	197170592	197447585	433	46	80067	5.88229999

81494	1	196946667	196978804	59	12	80067	7.28190000
259266	1	197053257	197115824	100	9	80067	5.16
360023	1	197122814	197169672	89	14	80067	5.00389999
3122	6	32407619	32412823	73	14	80067	5.04370000
3603	15	81474941	81605104	458	37	80067	6.91129999
4049	6	31539876	31542101	13	6	80067	4.61549999
4814	9	95883771	95896570	62	15	80067	7.52219999
4916	15	88419948	88800026	1175	107	80067	5.46940000
6218	15	82821161	82824865	1	1	80067	14.129
6457	15	84116091	84287495	541	70	80067	8.70320000
7090	15	70340129	70390274	171	31	80067	4.62110000
8120	15	83328033	83378660	152	31	80067	6.8975
9154	15	85427794	85489027	369	52	80067	7.00919999
9915	15	80696692	80890278	727	84	80067	4.67269999
10588	15	80135889	80189627	218	39	80067	5.71030000
23196	9	96214173	96328397	393	27	80067	4.72670000
53339	15	83685175	83736106	162	30	80067	5.36629999
57188	15	84322838	84708594	1298	54	80067	5.38520000
57214	15	81071712	81244112	561	111	80067	8.44410000
64506	15	83211948	83316762	376	39	80067	7.71119999
65268	9	95946437	96082854	541	46	80067	5.36479999
79631	15	82422561	82555104	539	38	80067	7.40299999
80739	6	31691121	31694487	6	4	80067	4.9512
80740	6	31686425	31689511	13	7	80067	4.69460000
80765	15	81605007	81616524	41	12	80067	6.10939999
84206	15	82334119	82338484	6	4	80067	6.12870000
91662	19	54296838	54327657	158	29	80067	4.87340000
123624	15	86623137	87572283	4949	215	80067	5.5728
161502	15	81391749	81441516	194	21	80067	6.35559999
283726	15	82555152	82577271	74	21	80067	6.75340000
342125	15	81624760	81666418	170	20	80067	7.5762
100528021	15	80135889	80215448	407	38	80067	4.98700000
3075	1	196621008	196716634	287	19	80067	5.77740000
7936	6	31919864	31926864	10	5	80067	4.77120000
8859	6	31938952	31949223	19	10	80067	4.63450000
891	5	68462837	68474072	36	6	80067	5.56759999
1022	5	68530622	68573257	122	13	80067	5.78749999
1936	8	144661867	144679845	84	10	80067	4.99239999
3075	1	196621008	196716634	331	23	80067	4.56799999
3606	11	112013974	112034840	64	18	80067	6.10939999
6683	2	32288660	32382706	268	20	80067	6.86380000
6716	2	31749656	31806040	165	24	80067	7.79440000
6941	6	31126303	31134183	10	4	80067	4.84630000
7498	2	31557188	31637611	297	42	80067	6.78160000
23144	8	144519825	144624449	333	33	80067	4.91610000
51072	2	32092892	32236116	321	19	80067	6.6997
55622	2	32853087	33046118	673	43	80067	5.52909999
55676	2	32390910	32449181	152	18	80067	6.10939999
56158	11	112004926	112043279	127	24	80067	7.32019999
57448	2	32581735	32843966	368	47	80067	6.91790000

58484	2	32449518	32490812	96	12	80067	6.1093999!
64946	5	68485375	68506184	50	7	80067	5.7538999!
79792	8	144635383	144645232	42	11	80067	6.8898000!
83875	11	112046208	112089652	145	28	80067	6.1093999!
84272	2	32502958	32533074	66	15	80067	7.9592999!
84661	2	32245856	32264890	57	11	80067	7.1197999!
84948	8	144680074	144682485	5	3	80067	5.6723999!
91662	19	54296838	54327657	121	20	80067	7.6242000!
92259	5	68513573	68525985	39	6	80067	5.3821000!
93100	8	144656955	144660881	22	6	80067	7.0152999!
150864	2	203499901	203634480	206	31	80067	4.5792999!
170679	6	31082608	31107869	171	25	80067	4.9542000!
642475	8	144648362	144654928	27	6	80067	6.9494999!
6201	2	3622853	3628509	11	5	80067	6.1093999!
11325	17	61851549	61896677	87	8	80067	4.7153999!
51112	2	3383446	3483342	321	28	80067	4.9832000!
57003	17	61822610	61851088	57	6	80067	4.7468000!
78989	2	3642422	3692234	180	19	80067	6.2095000!
92335	17	61780192	61819330	75	8	80067	4.6932
117246	17	61896793	61905031	21	4	80067	4.6818999!
246243	2	3592675	3605957	35	10	80067	7.9516999!
728597	2	3751188	3895001	589	48	80067	4.6104000!
348	19	45409039	45412650	10	6	80067	4.806
3553	2	113587337	113594356	19	7	80067	7.4981999!
3557	2	113868693	113891593	117	11	80067	7.1810999!
7849	2	113973574	114036527	252	24	80067	8.3893000!
23550	2	113914976	113960677	194	43	80067	7.6185
26525	2	113816215	113822321	52	4	80067	7.8414999!
27177	2	113779668	113810444	136	23	80067	7.3178000!
27178	2	113670548	113676459	43	3	80067	7.8754999!
27179	2	113763038	113766221	8	4	80067	6.1093999!
56300	2	113735596	113743249	12	6	80067	6.1093999!
84172	2	113298676	113334727	153	24	80067	5.8140000!
84639	2	113825547	113833427	55	12	80067	6.1093999!
91662	19	54296838	54327657	158	29	80067	6.4404000!
150468	2	113495444	113522254	59	11	80067	7.1284000!
150472	2	114195268	114253781	86	9	80067	5.7655000!
200350	2	114256661	114258727	9	4	80067	6.0800999!
2161	5	176829139	176836577	9	3	80067	6.2793999!
2646	2	27719470	27746556	40	7	80067	5.0011999!
3818	4	187148502	187179625	115	12	80067	6.4706000!
26608	7	72983274	72993013	23	8	80067	4.5659999!
51085	7	73007524	73038903	78	12	80067	4.7784000!
84226	2	27799389	27805589	9	3	80067	4.9791999!
84450	2	27805836	27846082	78	11	80067	6.5206999!
3122	6	32407619	32412823	5	2	80067	6.5640000!
3123	6	32546546	32557613	120	10	80067	4.6527000!
3559	10	6052657	6104333	230	42	80067	6.1093999!
3601	10	5994334	6020150	132	31	80067	5.7694000!
8859	6	31938952	31949223	19	10	80067	4.6668000!

84991	10	6130949	6159422	92	21	80067	5.50070000
717	6	31865562	31913449	69	17	80067	4.62490000
3075	1	196621008	196716634	286	20	80067	8.34839999
6499	6	31926581	31937532	13	5	80067	4.96980000
7936	6	31919864	31926864	10	5	80067	4.80670000
8859	6	31938952	31949223	19	10	80067	4.98420000
10878	1	196743925	196763203	74	3	80067	4.58870000
81494	1	196946667	196978804	60	12	80067	4.81890000
3075	1	196621008	196716634	277	19	80067	7.5221
3080	1	196912888	196928356	36	9	80067	4.57570000
10877	1	196857144	196887843	53	10	80067	4.52639999
81494	1	196946667	196978804	60	12	80067	4.55360000
103	1	154554533	154600456	102	12	80067	4.63279999
3570	1	154377669	154441926	207	26	80067	8.05070000
4277	6	31462054	31478901	240	24	80067	4.55529999
7918	6	31629006	31634060	31	13	80067	4.67
10665	6	32260475	32339705	857	28	80067	4.71649999
10919	6	31847536	31865464	61	25	80067	4.73420000
126668	1	154474695	154520624	169	12	80067	6.37699999
126669	1	154442118	154474786	50	12	80067	6.79729999
3075	1	196621008	196716634	276	19	80067	8.38969999
3078	1	196788861	196801319	56	3	80067	4.58279999
3080	1	196912888	196928356	36	9	80067	4.65069999
10877	1	196857144	196887843	54	10	80067	4.90439999
10878	1	196743925	196763203	75	3	80067	5.44800000
629	6	31913721	31919861	28	14	80067	5.29579999
717	6	31865562	31913449	154	32	80067	4.67469999
721	6	31982572	32003195	8	3	80067	4.61310000
2165	1	197007877	197036568	68	11	80067	5.18719999
2532	1	159173803	159176290	15	8	80067	7.57080000
3075	1	196621008	196716634	324	22	80067	7.63180000
3078	1	196788861	196801319	67	4	80067	6.54110000
3080	1	196912888	196928356	56	17	80067	7.54929999
3115	6	33043703	33057473	371	19	80067	5.24929999
3576	4	74606223	74609433	7	2	80067	4.85409999
5709	17	38137021	38154213	72	9	80067	5.44639999
6015	6	33176286	33180499	14	8	80067	4.9417
6499	6	31926581	31937532	45	17	80067	4.68360000
6603	17	61909441	61920699	25	5	80067	4.70439999
7936	6	31919864	31926864	20	10	80067	5.08019999
8859	6	31938952	31949223	49	19	80067	5.12100000
9487	17	16120509	16230098	280	21	80067	5.0663
9862	17	38175350	38210889	88	16	80067	5.73409999
10877	1	196857144	196887843	69	16	80067	7.67900000
10878	1	196743925	196763203	106	5	80067	7.00950000
11325	17	61851549	61896677	115	14	80067	4.58019999
55876	17	38060848	38074903	63	8	80067	4.73869999
57003	17	61822610	61851088	70	9	80067	4.64309999
57863	1	159141377	159172932	104	29	80067	5.11800000
81494	1	196946667	196978804	86	20	80067	7.56519999

92335	17	61780192	61819330	103	13	80067	4.7363999!
117246	17	61896793	61905031	28	6	80067	4.7827999!
259266	1	197053257	197115824	117	13	80067	4.6498999!
284110	17	38119226	38134019	67	13	80067	5.5361000!
285180	2	218899657	218955304	181	22	80067	4.6840000!
101928947	17	38083156	38095953	38	10	80067	4.9081999!
3075	1	196621008	196716634	276	17	80067	4.8212000!
3178	12	54674480	54680871	6	3	80067	5.3376999!
4090	5	135468536	135518422	119	6	80067	6.1093999!
4778	12	54685891	54718869	28	8	80067	6.556
10728	12	57057125	57082138	49	11	80067	4.6279000!
22818	12	54718874	54745635	29	5	80067	5.4431000!
217	12	112204691	112247789	51	10	80067	4.8456000!
419	4	76932333	77033955	567	20	80067	8.1745999!
944	9	117655623	117692875	112	10	80067	4.5556999!
3117	6	32605169	32612152	362	17	80067	4.6597999!
3627	4	76942269	76944689	7	1	80067	6.1093999!
4283	4	76922623	76928641	13	6	80067	7.3688000!
5745	3	46919236	46945289	48	12	80067	5.0572999!
5781	12	112856536	112947717	99	19	80067	5.1509
6128	12	112842994	112856647	18	7	80067	5.4078999!
6311	12	111890018	112037480	173	20	80067	6.3949999!
6373	4	76954835	76957350	20	2	80067	7.8402000!
6775	2	191894302	192037404	285	31	80067	4.6616
7916	6	31588450	31605554	11	6	80067	4.5719000!
7917	6	31606805	31620953	14	6	80067	5.8079999!
8315	12	112079950	112123790	43	11	80067	5.6905000!
9034	3	46448721	46454488	20	5	80067	6.0255999!
10019	12	111843720	111889427	51	9	80067	6.4184000!
22937	3	47455184	47517603	62	13	80067	4.9130000!
23218	3	47021173	47051194	47	8	80067	5.4237000!
23276	3	47324116	47388306	56	15	80067	4.7561999!
23316	12	111471828	111788358	435	41	80067	5.1421999!
25930	3	47422383	47454931	35	6	80067	4.7474999!
27163	4	76831808	76862166	142	14	80067	5.3806000!
29072	3	47057898	47205467	195	18	80067	5.6285999!
54859	3	47537130	47555199	29	10	80067	4.5633999!
55153	4	76871064	76912115	98	18	80067	7.3139000!
64147	3	47269516	47324337	67	12	80067	4.9957000!
80724	12	112123857	112194911	85	11	80067	5.1632999!
91607	17	33677324	33700821	55	13	80067	5.0407999!
144717	12	111798455	111806925	12	3	80067	5.1264000!
151903	3	46963220	47023500	84	12	80067	5.4960000!
15	17	74449433	74466199	65	18	80067	4.9253
37	17	7120444	7128586	16	7	80067	6.0220000!
127	4	100044832	100065449	154	5	80067	4.7260999!
257	1	110602997	110613322	32	7	80067	7.5522
432	17	7076750	7082883	16	8	80067	7.8166000!
433	17	7004641	7018292	104	21	80067	7.0377000!
1366	17	7163222	7166863	9	5	80067	5.4539999!

1371	3	98296677	98312470	67	15	80067	5.7756999!
1435	1	110453233	110473616	56	18	80067	7.6555
1436	5	149432854	149492935	217	46	80067	6.1093999!
1742	17	7093209	7123369	68	20	80067	5.8838999!
1836	5	149340300	149366963	45	10	80067	6.5023999!
1856	17	7128661	7137867	16	6	80067	6.8806000!
2524	19	49199228	49209191	47	7	80067	5.4138000!
2683	9	33110636	33167356	250	30	80067	6.5434999!
2838	3	98250743	98251994	3	2	80067	4.9767999!
4249	2	134877502	135212192	1231	101	80067	9.1965000!
6198	17	57970407	58027787	127	21	80067	5.8760000!
6484	11	126225540	126284536	189	32	80067	7.4983000!
10402	3	98451080	98514689	201	31	80067	7.4059999!
10462	17	6977856	6983626	29	11	80067	5.2172000!
10768	1	110527387	110566364	71	17	80067	4.6588000!
22993	5	149380169	149432706	164	18	80067	5.1726999!
23316	12	111471828	111788358	617	68	80067	4.8410000!
27087	11	134248398	134281880	171	22	80067	6.3703000!
51136	17	58029723	58042117	27	8	80067	5.7305000!
51174	17	57936840	57970306	102	20	80067	5.6002999!
63893	17	74385613	74449288	202	30	80067	4.6272000!
79651	17	74466975	74497509	140	26	80067	5.2599
80169	17	8128139	8151413	75	16	80067	4.7012
80339	22	44319619	44343451	120	12	80067	5.4074999!
81789	5	149372686	149380730	21	8	80067	5.6506999!
85369	1	110574199	110597263	69	20	80067	6.17
121665	12	121200313	121342155	533	28	80067	4.9541000!
131566	3	98514814	98620566	412	27	80067	7.8944999!
146754	17	7620631	7737058	423	53	80067	4.7858000!
284358	19	49215999	49222976	21	5	80067	4.5731000!
1230	3	46243200	46249832	14	3	80067	6.8502999!
1232	3	46283872	46308197	85	13	80067	6.1093999!
1234	3	46411633	46417697	19	5	80067	6.1093999!
1238	3	42850964	42908775	179	26	80067	7.9325000!
1582	3	42913684	42917633	11	5	80067	5.6456
2205	1	159253678	159278014	92	18	80067	7.1680999!
2532	1	159173803	159176290	16	9	80067	6.1093999!
2829	3	46062291	46068979	17	3	80067	7.8647999!
4057	3	46477496	46506598	146	20	80067	6.1093999!
6356	17	32612687	32615199	9	6	80067	5.4680999!
9034	3	46448721	46454488	22	6	80067	7.9092000!
10663	3	45984973	45989845	14	6	80067	7.8438999!
10803	3	45927996	45944667	50	15	80067	7.3642000!
25994	3	42824400	42846027	47	14	80067	7.2328000!
26476	1	159409512	159410600	7	4	80067	7.0286999!
54585	3	45864808	45957216	249	46	80067	7.5945999!
54716	3	45796941	45838039	112	37	80067	5.4671000!
57467	3	42734155	42744319	32	12	80067	4.9496000!
57863	1	159141377	159172932	107	31	80067	7.8338000!
79442	3	46556875	46621589	288	25	80067	6.5697000!

79443	3	45959391	46037316	264	22	80067	8.3560999!
83597	3	46539485	46542439	12	3	80067	5.6185
152206	3	42749764	42814745	195	25	80067	6.2446000!
259173	3	46710485	46735194	107	20	80067	4.7729999!
729230	3	46395235	46402413	22	6	80067	7.5186000!
729756	3	46852688	46854048	2	1	80067	5.2945000!
40	17	31340105	32483825	3181	230	80067	10.914999!
629	6	31913721	31919861	16	7	80067	4.5781999!
2532	1	159173803	159176290	7	3	80067	7.9215999!
3980	17	33307517	33332088	19	5	80067	7.6219000!
4277	6	31462054	31478901	135	14	80067	5.0826000!
4642	17	30819628	31203902	649	52	80067	5.2218
5892	17	33426811	33446888	19	5	80067	7.1292999!
6346	17	32687347	32690252	5	2	80067	6.8593999!
6347	17	32582296	32584222	3	1	80067	6.1540999!
6354	17	32597235	32599261	3	2	80067	6.1093999!
6355	17	32646066	32648421	1	1	80067	14.933
6356	17	32612687	32615199	7	4	80067	6.1093999!
6357	17	32683471	32685629	1	1	80067	6.7187999!
6499	6	31926581	31937532	8	3	80067	4.7900999!
7148	6	32008932	32077151	98	21	80067	4.6138000!
7936	6	31919864	31926864	8	4	80067	4.6752000!
8859	6	31938952	31949223	13	6	80067	5.3224999!
10693	17	33254878	33307968	54	11	80067	5.8489000!
57863	1	159141377	159172932	46	9	80067	4.9573999!
91607	17	33677324	33700821	51	12	80067	7.2762000!
117584	17	33336131	33416348	53	8	80067	6.5579000!
124842	17	32907768	32966337	115	23	80067	6.9861000!
400591	17	32901142	32906388	18	6	80067	6.7923999!
1652	22	24313554	24322019	3	1	80067	6.2895000!
1936	8	144661867	144679845	80	10	80067	5.6224999!
2953	22	24322291	24326106	2	1	80067	6.1093999!
65263	8	144686083	144691784	19	5	80067	4.9782000!
84948	8	144680074	144682485	5	3	80067	6.5118
93100	8	144656955	144660881	20	6	80067	6.1376999!
642475	8	144648362	144654928	26	6	80067	4.9180000!
653689	22	24299601	24303416	1	1	80067	8.5680999!
100037417	22	24308652	24314748	6	2	80067	6.7351000!
100652871	22	24278480	24284985	15	5	80067	7.5568
419	4	76932333	77033955	568	20	80067	4.9115000!
4283	4	76922623	76928641	13	6	80067	6.7183999!
5340	6	161123225	161175086	141	16	80067	5.2491000!
6311	12	111890018	112037480	170	19	80067	4.8838999!
7916	6	31588450	31605554	11	6	80067	4.5964999!
8315	12	112079950	112123790	42	11	80067	4.6246999!
10019	12	111843720	111889427	50	9	80067	4.7996999!
27163	4	76831808	76862166	142	14	80067	7.1435000!
55153	4	76871064	76912115	98	18	80067	7.4379
6348	17	34415602	34417506	6	1	80067	6.1093999!
6351	17	34431220	34433014	13	3	80067	6.1414999!

6358	17	34310692	34313764	11	3	80067	7.01330000
6359	17	34323476	34329084	25	7	80067	4.84759999
6362	17	34391643	34398841	24	9	80067	7.97029999
6368	17	34340096	34345005	22	7	80067	6.65679999
7096	4	38797876	38806814	53	12	80067	4.78540000
7407	6	31745295	31763712	46	20	80067	4.64639999
9862	17	38175350	38210889	88	16	80067	4.76890000
387	3	49396569	49449526	100	12	80067	5.50959999
788	3	48894356	48936426	42	9	80067	5.37610000
993	3	48198668	48230153	39	10	80067	7.36880000
1230	3	46243200	46249832	10	1	80067	6.1311
1232	3	46283872	46308197	69	9	80067	8.07559999
1234	3	46411633	46417697	18	4	80067	7.86880000
1294	3	48601506	48632593	35	12	80067	5.48489999
1605	3	49506136	49573051	126	15	80067	4.63100000
2829	3	46062291	46068979	16	3	80067	5.00089999
2912	3	51741081	51752629	7	4	80067	5.19650000
4057	3	46477496	46506598	130	16	80067	7.57019999
4134	3	47892180	48130769	278	18	80067	7.28910000
4485	3	49721380	49726196	9	4	80067	7.5305
4486	3	49924435	49941311	25	5	80067	5.77350000
5210	3	48555117	48598607	59	15	80067	4.90029999
5576	3	48784017	48885270	83	17	80067	6.28669999
5745	3	46919236	46945289	55	14	80067	7.77219999
5859	3	49133365	49142562	14	5	80067	5.78580000
6348	17	34415602	34417506	5	1	80067	4.92640000
6351	17	34431220	34433014	12	2	80067	4.61169999
6352	17	34198495	34207377	15	4	80067	5.02170000
6358	17	34310692	34313764	11	3	80067	4.86950000
6359	17	34323476	34329084	20	5	80067	5.03899999
6360	17	34303529	34310373	20	5	80067	4.88600000
6362	17	34391643	34398841	18	5	80067	6.48149999
6368	17	34340096	34345005	17	4	80067	6.76989999
6599	3	47627378	47823405	259	16	80067	7.14649999
6997	3	46616045	46623953	42	5	80067	6.50640000
7096	4	38797876	38806814	47	10	80067	6.36420000
7099	9	120466453	120479769	29	9	80067	5.37579999
7375	3	49314577	49377536	91	15	80067	4.89430000
8148	17	34136459	34174246	88	11	80067	5.48449999
8927	3	49591922	49708982	181	19	80067	4.74929999
8994	3	45636323	45722755	328	20	80067	5.90489999
9034	3	46448721	46454488	20	5	80067	6.10939999
9326	17	34842471	34855154	24	6	80067	6.10939999
10180	3	49977474	50114685	264	13	80067	7.1452
10181	3	50126341	50156397	34	8	80067	6.65920000
10201	3	48335485	48343719	22	3	80067	4.78110000
10425	3	48956265	49022974	83	17	80067	5.53519999
10663	3	45984973	45989845	11	4	80067	6.10939999
10675	3	47603728	47621730	23	5	80067	7.6
10693	17	33254878	33307968	83	21	80067	4.76480000

10803	3	45927996	45944667	40	10	80067	6.1093999!
10869	3	49145479	49158371	13	5	80067	4.8518999!
11070	3	50392180	50396939	4	2	80067	5.6683000!
11180	3	49044637	49053386	8	3	80067	4.5589000!
11277	3	48506919	48509044	4	2	80067	5.0286999!
22907	3	47844399	47891686	45	8	80067	7.4074
22908	3	45730754	45786901	211	11	80067	7.0431999!
22937	3	47455184	47517603	61	12	80067	6.6596000!
23218	3	47021173	47051194	49	8	80067	6.0514999!
23276	3	47324116	47388306	68	16	80067	6.0197000!
25864	3	52007700	52015216	7	4	80067	5.194
25886	3	52109249	52188720	105	15	80067	5.1455000!
25930	3	47422383	47454931	43	9	80067	5.9547999!
29072	3	47057898	47205467	220	21	80067	6.5781000!
29122	3	46753606	46759373	24	8	80067	7.3453999!
51385	3	48282596	48312480	46	8	80067	5.2614999!
54585	3	45864808	45957216	196	31	80067	6.1093999!
54681	3	49027304	49044582	14	4	80067	5.7657999!
54716	3	45796941	45838039	92	27	80067	6.1093999!
54859	3	47537130	47555199	28	9	80067	5.9573999!
54870	3	49067140	49131504	78	19	80067	4.8754999!
57151	17	34261522	34270714	40	5	80067	6.6890999!
64147	3	47269516	47324337	76	14	80067	6.8156999!
64925	3	49199968	49203785	6	2	80067	5.7442000!
79012	3	49895414	49907655	18	5	80067	5.7225000!
79154	17	34948226	34957233	18	5	80067	8.1408000!
79442	3	46556875	46621589	268	22	80067	7.6517999!
79443	3	45959391	46037316	235	22	80067	6.1093999!
79893	17	34900737	34946278	81	11	80067	7.1608999!
79922	17	34958010	34965407	17	5	80067	7.1414999!
80179	17	34851599	34891305	78	12	80067	7.0732999!
83597	3	46539485	46542439	10	2	80067	6.1093999!
84276	3	49459766	49466777	9	4	80067	4.7747999!
84315	3	49946302	49967445	30	9	80067	6.0651999!
146853	17	34087890	34092098	10	4	80067	5.1074000!
146862	17	33474787	33516364	116	17	80067	5.3463000!
151903	3	46963220	47023500	93	14	80067	6.7015000!
201299	17	34245084	34257780	34	4	80067	4.8517000!
256957	17	34181898	34195895	32	8	80067	5.4120999!
259173	3	46710485	46735194	94	15	80067	7.7084000!
259236	3	46742823	46752413	29	8	80067	5.0609000!
284098	17	34890849	34895217	7	4	80067	6.1093999!
339834	3	49235861	49295636	92	14	80067	6.0418000!
389118	3	49828165	49837254	18	7	80067	5.5438000!
440955	3	48658275	48659189	3	2	80067	6.2892999!
646424	3	48348336	48369831	47	3	80067	5.1013999!
646498	3	49215069	49229291	24	7	80067	5.3014000!
729230	3	46395235	46402413	19	5	80067	6.1093999!
1001321463	3	46653925	46668033	69	14	80067	7.7678000!
403	10	104433484	104474190	88	19	80067	5.3978000!

948	7	80231504	80308593	285	23	80067	6.82910000
2972	14	105675623	105781914	419	30	80067	5.66439999
5046	15	101844133	102030187	1136	142	80067	7.78219999
5270	2	224839765	224904036	339	38	80067	9.25980000
5929	1	205055270	205091150	126	20	80067	5.28739999
9256	17	56378588	56406152	95	19	80067	5.19270000
9444	6	163835675	163999628	441	32	80067	5.35470000
9911	1	205197038	205242471	155	22	80067	5.84609999
10121	10	104238986	104262580	88	7	80067	5.40190000
10171	9	4792834	4861066	320	31	80067	6.27430000
23414	8	106330917	106816767	1453	140	80067	7.86409999
25778	1	205111631	205180727	191	20	80067	4.57530000
29982	10	64893007	64914786	58	17	80067	7.85700000
30845	2	31456880	31491260	131	19	80067	6.69840000
51206	19	55525073	55549632	147	18	80067	7.22660000
51684	10	104263719	104393214	364	21	80067	7.2645
54838	10	104503727	104576022	270	29	80067	4.82319999
55619	2	225629807	225907330	968	80	80067	4.69979999
79847	10	104221149	104239546	68	8	80067	6.60719999
81603	10	104403326	104418076	30	13	80067	6.43210000
90135	14	105714879	105717430	10	4	80067	5.19019999
112724	19	55555684	55580914	170	29	80067	6.25680000
118980	10	104474298	104498947	67	21	80067	5.49530000
221035	10	65281113	65384883	342	31	80067	8.33670000
221037	10	64926983	65225880	974	44	80067	7.43839999
375033	1	156863496	156886226	92	15	80067	5.28420000
163	17	33913918	34053436	396	24	80067	6.4615
5193	17	33901814	33905656	8	4	80067	5.57599999
6352	17	34198495	34207377	13	3	80067	6.10939999
7581	10	38299578	38353946	141	15	80067	4.77350000
7587	10	38383264	38412280	104	8	80067	6.2035
8148	17	34136459	34174246	76	9	80067	6.10939999
10171	9	4792834	4861066	274	24	80067	4.76299999
29982	10	64893007	64914786	38	8	80067	7.87479999
51206	19	55525073	55549632	116	13	80067	5.48989999
54855	1	118148604	118171011	67	9	80067	5.53749999
57151	17	34261522	34270714	39	5	80067	6.10939999
79148	17	34083316	34122711	80	10	80067	6.10939999
91608	17	34058679	34070540	25	7	80067	8.19650000
112724	19	55555684	55580914	132	19	80067	5.41519999
146853	17	34087890	34092098	9	4	80067	6.1898
201299	17	34245084	34257780	31	4	80067	6.10939999
219749	10	38238500	38265584	73	11	80067	4.61610000
221035	10	65281113	65384883	239	24	80067	7.15270000
221037	10	64926983	65225880	630	27	80067	6.72949999
246176	17	34071530	34079897	27	7	80067	8.09960000
256957	17	34181898	34195895	31	7	80067	6.10939999
342618	17	33874728	33886783	46	9	80067	5.34590000
100288485	10	37890366	37891859	8	2	80067	6.09020000
100506736	17	33801942	33814758	52	11	80067	5.45640000

19	9	107543283	107690527	743	102	80067	10.9990000!
28	9	136130563	136150630	82	9	80067	5.2888999!
341	19	45417577	45422606	15	7	80067	4.8921999!
593	19	41903694	41930910	93	7	80067	4.7079000!
865	16	67063050	67134961	149	24	80067	4.6300999!
958	20	44746899	44758384	39	15	80067	6.1093999!
1071	16	56995835	57017757	130	32	80067	6.1093999!
1159	15	43885055	43891604	13	5	80067	4.9265999!
1506	16	67963473	67965778	4	2	80067	5.9192999!
1874	16	67226068	67232821	15	6	80067	5.0854999!
3931	16	67973787	67978656	7	5	80067	6.8688000!
3990	15	58702953	58861073	720	111	80067	5.2046000!
4130	15	43803165	43823818	36	13	80067	4.8855000!
4236	15	44096733	44116951	42	10	80067	4.7595000!
4299	4	87855758	88062206	607	46	80067	4.9984999!
4318	20	44637547	44645200	30	9	80067	6.1093999!
4775	16	68118654	68263162	313	20	80067	8.0336999!
5360	20	44527259	44541003	44	19	80067	8.0776000!
5444	7	94927669	94953884	113	23	80067	5.0423
5476	20	44519591	44527459	22	7	80067	7.9999000!
5681	16	67927175	67963581	73	18	80067	7.6002000!
5699	16	67968407	67970780	3	2	80067	6.4875999!
6553	16	67282855	67306094	40	14	80067	4.7428999!
6560	16	67977377	68002597	52	17	80067	6.6306000!
6837	9	136207751	136215011	25	13	80067	5.6977000!
6927	12	121415861	121440315	98	18	80067	4.9775999!
7125	20	44451853	44455953	16	5	80067	8.2881
7158	15	43695262	43802707	283	17	80067	4.9987000!
8996	16	67204400	67209640	9	5	80067	4.9206000!
9057	16	68298419	68335726	85	19	80067	5.3849
9836	15	43619974	43622820	8	5	80067	5.2370000!
10005	20	44470360	44486048	60	20	80067	6.9846000!
10204	16	67880819	67906470	59	17	80067	6.1093999!
10288	19	54777675	54785033	63	17	80067	5.5570000!
10406	20	44098229	44110172	56	13	80067	7.8707000!
10664	16	67596310	67673088	174	41	80067	7.1166
10816	20	44141101	44144264	12	5	80067	5.3243
11026	19	54799854	54804625	16	4	80067	7.8102999!
11094	9	136325087	136335909	37	13	80067	5.2117000!
23644	16	67906926	67918417	22	8	80067	5.3714000!
23659	16	68279240	68294965	42	10	80067	7.7462
27229	15	43663257	43698258	73	14	80067	5.4223999!
27296	20	44002520	44009937	18	4	80067	5.5054999!
51604	20	44044707	44054885	26	11	80067	5.5856000!
54496	16	68344877	68391169	169	24	80067	5.681
54920	16	68056847	68113226	108	18	80067	7.5843999!
55794	16	68055177	68057770	3	2	80067	6.1303000!
55815	16	67840829	67861971	46	16	80067	7.3228
55861	20	44034633	44039250	9	4	80067	7.1771000!
57468	20	44650329	44688789	163	27	80067	7.8139000!

57610	16	67756973	67840788	197	36	80067	7.06080000
57727	20	44689624	44718580	74	18	80067	6.68079999
63925	20	44577292	44601560	94	26	80067	6.10939999
63935	20	44563313	44576732	45	20	80067	6.10939999
64174	16	68021293	68034493	29	9	80067	6.10939999
64180	16	68009566	68014452	11	5	80067	6.80569999
64405	20	44802372	44937137	458	61	80067	7.40380000
64897	12	121440835	121454300	62	16	80067	4.92940000
65057	16	67691415	67694718	7	4	80067	8.02929999
79567	16	67562717	67580691	35	13	80067	6.93820000
79767	16	67233014	67237932	21	7	80067	4.99439999
79968	15	44119112	44160617	94	15	80067	4.71910000
80004	16	68262450	68270136	10	6	80067	8.11389999
80152	16	67862060	67881361	42	12	80067	6.01930000
80237	15	44064798	44069502	9	4	80067	4.5568
81577	16	67708436	67753273	103	26	80067	7.59159999
84080	16	67696850	67700628	8	4	80067	4.93200000
84134	1	161195729	161200536	9	6	80067	5.35050000
84138	16	68318043	68344868	66	18	80067	6.91819999
84978	15	44162962	44487429	693	44	80067	7.26679999
85440	1	62920397	63154039	493	27	80067	4.60810000
90196	20	43988660	44005442	50	7	80067	5.00049999
90199	20	44179791	44207989	190	6	80067	5.97170000
90203	20	44462256	44471914	41	14	80067	7.53610000
90204	20	44509581	44513905	17	7	80067	7.87150000
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116179	15	43568479	43594453	62	13	80067	4.59189999
123904	16	67918781	67920271	5	3	80067	6.10939999
128497	20	44515125	44517245	9	5	80067	7.69489999
140825	20	44517111	44519926	9	5	80067	7.95889999
140831	20	44486220	44507770	97	14	80067	7.38290000
140832	20	44258385	44259831	8	2	80067	4.57219999
140870	20	44162836	44168134	19	7	80067	6.17330000
146206	16	67679030	67691472	27	9	80067	7.73989999
161497	15	43891685	44002286	223	26	80067	4.90380000
161823	15	43622872	43646096	74	12	80067	5.30759999
164237	20	44330655	44337456	22	8	80067	7.05079999
259240	20	44236578	44259907	125	18	80067	6.30239999
280664	20	44313290	44333658	82	11	80067	4.71300000
283848	16	67022491	67043661	41	14	80067	4.63970000
283849	16	67217652	67224112	17	8	80067	4.65080000
353514	19	54818353	54824409	17	7	80067	6.90920000
374907	19	41931264	41934635	10	4	80067	4.76489999
548596	15	43985084	43991420	10	5	80067	4.86779999
653319	16	67209505	67217883	19	9	80067	4.8289
1152	14	103985995	103989196	5	2	80067	5.34349999
3075	1	196621008	196716634	276	17	80067	5.65500000
3078	1	196788861	196801319	56	3	80067	4.57939999
3842	5	72112418	72210215	182	21	80067	5.04440000
4140	14	103851701	103970168	289	12	80067	5.44789999

4775	16	68118654	68263162	221	13	80067	5.8163999!
5929	1	205055270	205091150	97	12	80067	5.3560999!
6184	3	128338813	128369719	100	12	80067	5.3461999!
6238	20	17594323	17662934	173	33	80067	5.8540999!
6320	19	51226588	51228981	6	3	80067	7.8940999!
6650	16	577816	604636	55	13	80067	6.4253
7184	12	104324112	104341708	75	20	80067	6.8182
9727	16	475649	572485	259	20	80067	8.3414999!
9911	1	205197038	205242471	127	14	80067	4.8926999!
10332	19	7828035	7834491	30	6	80067	4.6177000!
23276	3	47324116	47388306	56	15	80067	4.6727999!
23659	16	68279240	68294965	35	7	80067	5.5754999!
26063	16	451858	462487	18	4	80067	7.0829000!
50515	12	104850692	105155792	1159	128	80067	7.9535
50944	19	51163052	51220195	97	22	80067	7.7908999!
54842	2	191273081	191367041	233	23	80067	6.1837
54920	16	68056847	68113226	82	13	80067	5.4776999!
55554	19	51328545	51334779	15	7	80067	5.9206000!
55576	12	103981069	104160502	635	77	80067	8.5988000!
55794	16	68055177	68057770	3	2	80067	5.3369
64174	16	68021293	68034493	13	3	80067	5.0751999!
79758	13	52330614	52379667	89	24	80067	5.3765999!
79895	15	50150435	50411419	707	56	80067	6.5629
80004	16	68262450	68270136	6	3	80067	6.1841999!
83468	12	104382762	104457961	234	40	80067	6.0296000!
84258	19	51125234	51143092	53	11	80067	4.8455000!
115708	14	103995509	104003410	18	3	80067	5.6147
115825	13	52158484	52340935	262	31	80067	5.2961999!
123904	16	67918781	67920271	1	1	80067	4.6311999!
254427	10	11865295	11914276	144	24	80067	4.7827999!
339804	2	61372221	61391964	78	7	80067	4.8578000!
728568	12	104343980	104350993	38	9	80067	5.9477000!
1001312112	12	191371619	191399468	63	12	80067	4.7230999!
6387	10	44865601	44880545	70	13	80067	7.5026000!
23218	3	47021173	47051194	48	8	80067	4.8003
23609	3	12598513	12625212	68	12	80067	4.8951000!
29072	3	47057898	47205467	201	20	80067	4.9928999!
64115	10	73507313	73533337	86	21	80067	5.9516999!
80746	3	12517748	12580672	241	16	80067	4.8986999!
206338	5	115298151	115363303	330	34	80067	6.0590000!
221035	10	65281113	65384883	251	26	80067	5.6109999!
221037	10	64926983	65225880	653	29	80067	5.1772999!
3075	1	196621008	196716634	275	17	80067	6.1031000!
3075	1	196621008	196716634	168	9	80067	6.1093999!
3080	1	196912888	196928356	21	3	80067	4.8045
10877	1	196857144	196887843	41	6	80067	4.9462999!
717	6	31865562	31913449	157	33	80067	4.8541999!
721	6	31982572	32003195	8	3	80067	5.4215
3075	1	196621008	196716634	324	20	80067	7.6204999!
3827	3	186435098	186462199	165	17	80067	6.5327000!

4225	18	29769987	29800367	120	20	80067	4.87150000
6499	6	31926581	31937532	44	17	80067	5.18569999
7148	6	32008932	32077151	231	51	80067	5.1475
7407	6	31745295	31763712	46	20	80067	4.90500000
7936	6	31919864	31926864	20	10	80067	5.11010000
8743	3	172223298	172241297	81	15	80067	6.65069999
8859	6	31938952	31949223	50	19	80067	5.52130000
9374	6	32121229	32131458	31	14	80067	4.68970000
10878	1	196743925	196763203	106	5	80067	4.81740000
23418	1	197170592	197447585	549	52	80067	5.20080000
126299	19	44111376	44124298	28	9	80067	4.61549999
199731	19	44126519	44143991	43	13	80067	5.14259999
2030	6	44187242	44201888	33	17	80067	4.98190000
2904	12	13713684	14133022	1738	116	80067	4.8266
3326	6	44213903	44221625	36	13	80067	4.68670000
5004	9	117085303	117088759	19	9	80067	5.13940000
7422	6	43737946	43754224	56	16	80067	5.54549999
9933	9	2804152	2844130	119	17	80067	4.96539999
10864	6	43265737	43273276	18	8	80067	5.0347
11131	6	44126548	44152139	132	30	80067	5.12220000
23414	8	106330917	106816767	1432	133	80067	7.75450000
24149	6	43303808	43337181	76	23	80067	4.61859999
29982	10	64893007	64914786	55	15	80067	7.00750000
55362	6	44094599	44123256	117	20	80067	7.25199999
64928	6	44081372	44095191	48	12	80067	7.21110000
65989	6	43418090	43423786	16	6	80067	4.66720000
89845	6	43395282	43418163	69	24	80067	4.64299999
161882	16	88520014	88601574	400	44	80067	5.6166
221035	10	65281113	65384883	332	30	80067	8.16169999
221037	10	64926983	65225880	951	44	80067	7.6776
221416	6	43968337	43973695	31	8	80067	7.91190000
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P	Cytokine	sign_level
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1.1553E-6	CCL11/eotaxin-1	2.7711577897245502E-6
5.681600000000	CCL11/eotaxin-1	2.7711577897245502E-6
2.406500000000	CCL11/eotaxin-1	2.7711577897245502E-6
1.122600000000	CCL11/eotaxin-1	2.7711577897245502E-6
5.000000000000	CCL11/eotaxin-1	2.7711577897245502E-6
2.553099999999	CCL11/eotaxin-1	2.7711577897245502E-6
5.724199999999	CCL11/eotaxin-1	2.7711577897245502E-6
7.165899999999	CCL11/eotaxin-1	2.7711577897245502E-6
2.6426E-9	CCL11/eotaxin-1	2.7711577897245502E-6
3.615400000000	CCL11/eotaxin-1	2.7711577897245502E-6
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1.0513E-8	CCL11/eotaxin-1	2.7711577897245502E-6
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6.513800000000	CCL11/eotaxin-1	2.7711577897245502E-6
2.4131E-11	CCL11/eotaxin-1	2.7711577897245502E-6
4.186399999999	CCL11/eotaxin-1	2.7711577897245502E-6
3.710399999999	CCL11/eotaxin-1	2.7711577897245502E-6
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3.643399999999	CCL11/eotaxin-1	2.7711577897245502E-6
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3.400499999999	CCL11/eotaxin-1	2.7711577897245502E-6
1.6959E-8	CCL11/eotaxin-1	2.7711577897245502E-6
1.216300000000	CCL11/eotaxin-1	2.7711577897245502E-6
1.059899999999	CCL11/eotaxin-1	2.7711577897245502E-6
4.520200000000	CCL11/eotaxin-1	2.7711577897245502E-6
1.340699999999	CCL11/eotaxin-1	2.7711577897245502E-6
1.799800000000	CCL11/eotaxin-1	2.7711577897245502E-6
4.7145E-7	CCL11/eotaxin-1	2.7711577897245502E-6
2.050399999999	CCL11/eotaxin-1	2.7711577897245502E-6
6.820200000000	CCL11/eotaxin-1	2.7711577897245502E-6
2.0616E-9	CCL11/eotaxin-1	2.7711577897245502E-6
9.384000000000	CCL11/eotaxin-1	2.7711577897245502E-6
5.953299999999	CCL11/eotaxin-1	2.7711577897245502E-6
1.6792E-9	CCL11/eotaxin-1	2.7711577897245502E-6
1.953400000000	CCL11/eotaxin-1	2.7711577897245502E-6
3.3184E-9	CCL11/eotaxin-1	2.7711577897245502E-6
3.8486E-10	CCL11/eotaxin-1	2.7711577897245502E-6
1.2283E-6	CCL11/eotaxin-1	2.7711577897245502E-6
7.901500000000	CCL11/eotaxin-1	2.7711577897245502E-6

3.09740000000 CCL11/eotaxin-1	2.7711577897245502E-6
2.02459999999 CCL11/eotaxin-1	2.7711577897245502E-6
5.00000000000 CCL11/eotaxin-1	2.7711577897245502E-6
8.21750000000 CCL11/eotaxin-1	2.7711577897245502E-6
8.62759999999 CCL11/eotaxin-1	2.7711577897245502E-6
1.6093E-7 CCL11/eotaxin-1	2.7711577897245502E-6
2.30080000000 FGF-b	3.0224264039170599E-6
8.41979999999 FGF-b	3.0224264039170599E-6
3.67800000000 FGF-b	3.0224264039170599E-6
1.31159999999 FGF-b	3.0224264039170599E-6
4.67400000000 FGF-b	3.0224264039170599E-6
2.3234E-10 FGF-b	3.0224264039170599E-6
3.6297E-11 FGF-b	3.0224264039170599E-6
5.00000000000 FGF-b	3.0224264039170599E-6
2.69760000000 FGF-b	3.0224264039170599E-6
5.00000000000 FGF-b	3.0224264039170599E-6
5.10089999999 FGF-b	3.0224264039170599E-6
1.174E-10 FGF-b	3.0224264039170599E-6
7.04410000000 FGF-b	3.0224264039170599E-6
1.46959999999 FGF-b	3.0224264039170599E-6
2.57190000000 FGF-b	3.0224264039170599E-6
5.53679999999 FGF-b	3.0224264039170599E-6
1.4347E-15 G-CSF/CSF-3	2.7700831024930802E-6
4.5225E-16 G-CSF/CSF-3	2.7700831024930802E-6
5.00000000000 G-CSF/CSF-3	2.7700831024930802E-6
6.53689999999 G-CSF/CSF-3	2.7700831024930802E-6
1.33559999999 G-CSF/CSF-3	2.7700831024930802E-6
6.99299999999 G-CSF/CSF-3	2.7700831024930802E-6
2.46669999999 G-CSF/CSF-3	2.7700831024930802E-6
2.5684E-14 G-CSF/CSF-3	2.7700831024930802E-6
4.05229999999 G-CSF/CSF-3	2.7700831024930802E-6
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1.83449999999 G-CSF/CSF-3	2.7700831024930802E-6
1.0998E-7 G-CSF/CSF-3	2.7700831024930802E-6
1.7165E-6 G-CSF/CSF-3	2.7700831024930802E-6
7.59180000000 G-CSF/CSF-3	2.7700831024930802E-6
7.01260000000 G-CSF/CSF-3	2.7700831024930802E-6
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1.0286E-15 G-CSF/CSF-3	2.7700831024930802E-6
1.6224E-12 G-CSF/CSF-3	2.7700831024930802E-6
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2.56179999999 CXCL1/GROa	2.73253907530878E-6
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8.09960000000 CXCL1/GROa	2.73253907530878E-6
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1.7187E-13 CXCL1/GROa	2.73253907530878E-6
4.50950000000 CXCL1/GROa	2.73253907530878E-6
1.5614E-6 CXCL1/GROa	2.73253907530878E-6
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1.4445E-8 CXCL1/GROa	2.73253907530878E-6
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2.61880000000 CXCL1/GROa	2.73253907530878E-6
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1.1207E-15 CXCL1/GROa	2.73253907530878E-6
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1.6603E-6	CXCL8/IL-8	2.73283777874945E-6
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1.4065E-6	CXCL8/IL-8	2.73283777874945E-6
4.5955000000	CXCL8/IL-8	2.73283777874945E-6
7.1355999999	IL-9	2.7800945232137898E-6
4.7065999999	IL-9	2.7800945232137898E-6
5.0000000000	IL-9	2.7800945232137898E-6
2.7643000000	IL-9	2.7800945232137898E-6
1.8471000000	IL-9	2.7800945232137898E-6
2.6178000000	IL-9	2.7800945232137898E-6
6.3104999999	CXCL10/IP-10	2.77932184546971E-6
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2.6108000000	CXCL10/IP-10	2.77932184546971E-6
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2.1259E-7	CXCL10/IP-10	2.77932184546971E-6
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1.5687999999	CXCL10/IP-10	2.77932184546971E-6
2.4165999999	CXCL10/IP-10	2.77932184546971E-6
3.1604E-9	CXCL10/IP-10	2.77932184546971E-6
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5.00000000000 SCF	2.73253907530878E-6
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3.23810000000 SCF	2.73253907530878E-6
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6.07329999999 SCF	2.73253907530878E-6
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8.16250000000 SCF	2.73253907530878E-6
1.4287E-12 SCF	2.73253907530878E-6
5.00000000000 SCF	2.73253907530878E-6
1.37239999999 SCF	2.73253907530878E-6
1.76300000000 SCF	2.73253907530878E-6
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5.06649999999 SCF	2.73253907530878E-6
2.85310000000 SCF	2.73253907530878E-6
9.35660000000 SCF	2.73253907530878E-6
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4.73499999999 SCF	2.73253907530878E-6
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1.16449999999 SCF	2.73253907530878E-6
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1.6707E-14 SCF	2.73253907530878E-6
4.38660000000 SCF	2.73253907530878E-6
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2.77239999999 SCF	2.73253907530878E-6

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5.0000000000 SCF	2.73253907530878E-6
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2.4519E-16 SCF	2.73253907530878E-6
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2.0318000000 SCF	2.73253907530878E-6
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2.4209999999 SCF	2.73253907530878E-6
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4.9732999999 SCF	2.73253907530878E-6
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1.7444E-6 SCF	2.73253907530878E-6
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6.8639000000 SCF	2.73253907530878E-6
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7.7937000000 SCGF-b	2.77916736145851E-6
2.3317999999 SCGF-b	2.77916736145851E-6
2.2746E-7 SCGF-b	2.77916736145851E-6
2.5481999999 SCGF-b	2.77916736145851E-6

3.00629999999 SCGF-b	2.77916736145851E-6
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4.49090000000 SCGF-b	2.77916736145851E-6
2.39839999999 SCGF-b	2.77916736145851E-6
1.4622E-15 SCGF-b	2.77916736145851E-6
6.58190000000 SCGF-b	2.77916736145851E-6
4.60969999999 SCGF-b	2.77916736145851E-6
3.66920000000 SCGF-b	2.77916736145851E-6
4.97270000000 SCGF-b	2.77916736145851E-6
1.9398E-6 SCGF-b	2.77916736145851E-6
1.4856E-6 SCGF-b	2.77916736145851E-6
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2.15410000000 SCGF-b	2.77916736145851E-6
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4.02920000000 SCGF-b	2.77916736145851E-6
4.72730000000 SCGF-b	2.77916736145851E-6
1.9352E-7 SCGF-b	2.77916736145851E-6
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2.63809999999 SCGF-b	2.77916736145851E-6
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9.84239999999 SCGF-b	2.77916736145851E-6
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5.93390000000 SCGF-b	2.77916736145851E-6
1.35949999999 SCGF-b	2.77916736145851E-6
1.1614E-6 SCGF-b	2.77916736145851E-6
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7.92100000000 CXCL12/SDF-1a	2.7708506511499001E-6
4.91360000000 CXCL12/SDF-1a	2.7708506511499001E-6
2.974E-7 CXCL12/SDF-1a	2.7708506511499001E-6
1.32700000000 CXCL12/SDF-1a	2.7708506511499001E-6
4.82259999999 CXCL12/SDF-1a	2.7708506511499001E-6
6.85029999999 CXCL12/SDF-1a	2.7708506511499001E-6
1.00559999999 CXCL12/SDF-1a	2.7708506511499001E-6
1.1255E-7 CXCL12/SDF-1a	2.7708506511499001E-6
5.20049999999 TNF-a	2.77885844495081E-6
5.00000000000 TNF-b	2.8226261713898601E-6
7.75750000000 TNF-b	2.8226261713898601E-6
3.78270000000 TNF-b	2.8226261713898601E-6
6.04490000000 TRAIL	2.7334353815875798E-6
2.9553E-8 TRAIL	2.7334353815875798E-6
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3.22959999999 TRAIL	2.7334353815875798E-6

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3.4273E-7 VEGF	2.73283777874945E-6
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1.50999999999 VEGF	2.73283777874945E-6
4.43329999999 VEGF	2.73283777874945E-6
1.93159999999 VEGF	2.73283777874945E-6
1.2128E-12 VEGF	2.73283777874945E-6
2.05269999999 VEGF	2.73283777874945E-6
2.7751E-13 VEGF	2.73283777874945E-6
1.52699999999 VEGF	2.73283777874945E-6
1.7167E-6 VEGF	2.73283777874945E-6
9.73809999999 VEGF	2.73283777874945E-6
1.6523E-16 VEGF	2.73283777874945E-6
8.10679999999 VEGF	2.73283777874945E-6
1.26770000000 VEGF	2.73283777874945E-6
1.72849999999 VEGF	2.73283777874945E-6

Supplementary Table S4: tissue enrichment results from gene-property analysis

Category	GeneSet	N_genes	N_overlap	p	adjP
DEG.up	Adipose Tissue	1919	60	0,000642	0,019255
DEG.up	Adrenal Gland	1549	45	0,010759	0,322757
DEG.up	Blood	2296	67	0,001846	0,05539
DEG.up	Cervix Uteri	3029	80	0,009205	0,276142
DEG.up	Fallopian Tube	490	20	0,002746	0,082366
DEG.up	Kidney	1363	42	0,00522	0,156597
DEG.up	Liver	1536	73	1,62E-11	4,85E-10
DEG.up	Lung	4262	124	1,97E-05	0,000591
DEG.up	Ovary	5714	135	0,029878	0,896353
DEG.up	Skin	3140	91	0,000346	0,010383
DEG.up	Small Intestine	2786	79	0,001609	0,04826
DEG.up	Spleen	4308	128	4,97E-06	0,000149
DEG.up	Thyroid	5722	137	0,01946	0,5838
DEG.up	Vagina	2864	76	0,009942	0,29826

is

genes	log_adj_pv
ENSG00000119535:ENSG0000	1,715466
ENSG00000197580:ENSG0000	0,491124
ENSG00000119535:ENSG0000	1,256567
ENSG00000116641:ENSG0000	0,558868
ENSG00000138175:ENSG0000	1,08425
ENSG00000244414:ENSG0000	0,805215
ENSG00000160712:ENSG0000	9,314007
ENSG00000119535:ENSG0000	3,228561
ENSG00000116641:ENSG0000	0,047521
ENSG00000116641:ENSG0000	1,983683
ENSG00000183508:ENSG0000	1,316415
ENSG00000119535:ENSG0000	3,826142
ENSG00000183508:ENSG0000	0,233736
ENSG00000162706:ENSG0000	0,525405

Supplementary Tab

Cytokine

CCL11/eotaxin-1

CCL11/eotaxin-1

CCL11/eotaxin-1

CCL11/eotaxin-1

CCL11/eotaxin-1

CCL11/eotaxin-1

CXCL1/GROa

CXCL1/GROa

CXCL1/GROa

IL-2ra

IL-2ra

IL-2ra

IL-2ra

IL-2ra

IL-5

IL-5

CXCL8/IL-8

CXCL8/IL-8

IL-10

IL-13

M-CSF/CSF-1

M-CSF/CSF-1

M-CSF/CSF-1

CCL7/MCP-3

CCL7/MCP-3

CCL7/MCP-3

CCL7/MCP-3

CCL7/MCP-3

CCL7/MCP-3

CCL3/MIP-1a

CCL3/MIP-1a

CCL3/MIP-1a

CCL3/MIP-1a

CCL3/MIP-1a

CCL3/MIP-1a

CCL3/MIP-1a

CCL4/MIP-1b

PDGFbb

PDGFbb

SCF

SCF

File S4: pathway analysis results from MAGMA gene-set analysis

gene_set_short

EOSINOPHIL CHEMOTAXIS
EOSINOPHIL MIGRATION
RESPONSE TO CHEMOKINE
CCR2 CHEMOKINE RECEPTOR BINDING
CCR3 CHEMOKINE RECEPTOR BINDING
CCR CHEMOKINE RECEPTOR BINDING
CHEMOKINE ACTIVITY
CHEMOKINE RECEPTOR BINDING
CXCR CHEMOKINE RECEPTOR BINDING
ANTIGEN PROCESSING AND PRESENTATION OF EXOGENOUS PEPTIDE ANTIGEN
PEPTIDE ANTIGEN ASSEMBLY WITH MHC PROTEIN COMPLEX
ANTIGEN PROCESSING AND PRESENTATION OF PEPTIDE OR POLYSACCHARIDE ANTIGEN VIA MHC CLASS II
ANTIGEN PROCESSING AND PRESENTATION OF PEPTIDE ANTIGEN
MHC CLASS II RECEPTOR ACTIVITY
CELL DIFFERENTIATION INVOLVED IN EMBRYONIC PLACENTA DEVELOPMENT
APICOLATERAL PLASMA MEMBRANE
COMPLEMENT ACTIVATION
CXCR CHEMOKINE RECEPTOR BINDING
NEUROTRANSMITTER RECEPTOR REGULATOR ACTIVITY
FC RECEPTOR SIGNALING PATHWAY
PENTOSE PHOSPHATE SHUNT
NADPH REGENERATION
PROTEIN TYROSINE KINASE ACTIVITY
EOSINOPHIL CHEMOTAXIS
EOSINOPHIL MIGRATION
CHEMOKINE ACTIVITY
CCR2 CHEMOKINE RECEPTOR BINDING
CHEMOKINE RECEPTOR BINDING
CCR CHEMOKINE RECEPTOR BINDING
LYMPHOCYTE CHEMOTAXIS
RESPONSE TO CHEMOKINE
CHEMOKINE ACTIVITY
CCR1 CHEMOKINE RECEPTOR BINDING
CCR5 CHEMOKINE RECEPTOR BINDING
CHEMOKINE RECEPTOR BINDING
CCR CHEMOKINE RECEPTOR BINDING
NODAL SIGNALING PATHWAY
GONADAL MESODERM DEVELOPMENT
NERVE GROWTH FACTOR BINDING
REGULATION OF CHOLESTEROL EFFLUX
INHIBITORY MHC CLASS I RECEPTOR ACTIVITY

type	n_genes	p_val
biological process	18	1.58206e-09
biological process	22	1.9908e-08
biological process	95	7.9959e-07
molecular function	5	3.2469e-07
molecular function	5	1.7589e-07
molecular function	36	1.6551e-07
molecular function	47	8.59582e-12
molecular function	66	8.9255e-12
molecular function	18	3.2468e-19
biological process	34	1.91568e-06
biological process	18	9.8542e-07
biological process	33	1.3707e-06
biological process	57	1.4802e-06
molecular function	9	6.4617e-07
biological process	7	4.98657e-06
cellular component	5	3.3334e-06
biological process	51	3.86118e-06
molecular function	18	3.0569e-06
molecular function	12	4.76883e-06
biological process	14	1.87938e-06
biological process	14	3.4767e-06
biological process	17	2.3746e-06
molecular function	138	4.0767e-06
biological process	18	1.45389e-10
biological process	22	8.5367e-08
molecular function	45	1.8389e-06
molecular function	5	7.994e-11
molecular function	59	4.4962e-07
molecular function	36	2.4326e-08
biological process	61	1.67054e-06
biological process	93	4.1067e-07
molecular function	47	7.3565e-07
molecular function	5	1.479e-06
molecular function	7	1.5426e-06
molecular function	66	2.3553e-08
molecular function	42	6.9551e-09
biological process	17	7.9878e-07
biological process	2	1.23747e-07
molecular function	5	4.7186e-07
biological process	37	1.57117e-06
molecular function	11	1.2688e-08