

S1 Table Analyzed transcriptomics parameters of lung tissue of chronic obstructive pulmonary disease rats

ProbeName	P-value(B vs A)	FCAbsolute (B vs A)	regulation(B_vs_A)	GeneSymbol	GenbankAccession
A_44_P409518	0.0079	1.2996	down	Gmpr	NM_057188
A_44_P260580	0.0378	1.2427	up	Klhl28	NM_001106735
A_44_P1052387	0.0018	2.0900	up	Hnrpl1	XM_233805
A_43_P15466	0.0365	1.3240	up	Pde5a	NM_133584
A_44_P728387	0.0035	1.2634	up		AW915320
A_42_P843592	0.0143	1.1393	up		
A_44_P431092	0.0124	1.3434	down	Cyp2d4	U48220
A_44_P305636	0.0496	1.1467	up		BP465973
A_44_P177907	0.0311	1.1157	down	Rccd1	XM_218819
A_44_P913360	0.0129	1.2963	up		
A_44_P341204	0.0167	1.3108	up		AA997107
A_44_P997174	0.0033	1.2820	up	Atrx	NM_001105757
A_42_P776300	0.0310	1.1275	up		BF556698
A_44_P463420	0.0180	1.3210	up		BQ210920
A_44_P521264	0.0101	1.2583	up		AA925252
A_44_P885548	0.0469	1.2051	down		
A_44_P699821	0.0151	1.5168	up		
A_44_P141475	0.0236	1.2774	up		AI575641
A_44_P492214	0.0041	1.6816	down	Eps813	NM_001106463

A_43_P22020	0.0488	1.2176	up	Setx	XM_342400
A_44_P206631	0.0205	1.2767	up		BF417274
A_44_P621304	0.0007	2.0237	up		
A_44_P377520	0.0068	1.2952	up		
A_44_P605838	0.0365	1.1240	up		
A_44_P286158	0.0022	1.4896	up		XM_226020
A_44_P913962	0.0108	1.5661	up		
A_43_P12146	0.0058	1.9100	up	Hnf4a	NM_022180
A_44_P652585	0.0036	1.1586	down	Kdm1	NM_001130098
A_44_P354150	0.0061	1.3319	down	Cep250	XR_009560
A_44_P516073	0.0293	1.2854	down	RGD1310552	NM_001106838
A_44_P223741	0.0192	1.3087	up		AW142694
A_43_P15524	0.0096	1.2036	up	Ccnd3	NM_012766
A_44_P409820	0.0479	1.4885	up	Faslg	NM_012908
A_44_P297175	0.0076	1.5881	down	Cd36	NM_031561
A_44_P576228	0.0326	1.2104	up	Orc2l	BC129076
A_44_P128201	0.0158	1.5537	up		U25282
A_44_P343859	0.0151	1.3893	up	Csfl	NM_023981
A_44_P700744	0.0228	1.5642	up		
A_44_P161674	0.0065	1.4989	up	RGD1561150	XM_001057166
A_44_P489852	0.0065	1.8517	up		
A_44_P558018	0.0094	1.1152	up	LOC100364959	XM_002727692

A_43_P16210	0.0293	1.4070	up	Dnah1	NM_001033655
A_44_P250983	0.0288	1.3694	down	Nrbp2	NM_001135007
A_44_P487627	0.0037	1.6139	up	Zfp217	NM_001107813
A_44_P323599	0.0039	1.4641	up	RGD1562886	XM_001068190
A_44_P787936	0.0173	1.2745	up	Stat3	NM_012747
A_44_P1044517	0.0057	1.3866	up	N4bp1	XM_214648
A_44_P798113	0.0068	2.4234	up		
A_44_P162881	0.0031	1.3710	up		BF282012
A_44_P558660	0.0312	1.3069	down	Twf1	NM_001008521
A_44_P527024	0.0475	1.3104	down	Col11a2	NM_212528
A_44_P331065	0.0390	1.2445	down		XM_002727069
A_44_P289284	0.0071	1.5181	up	Shank1	NM_031751
A_42_P614175	0.0245	2.7194	down	Gal	NM_033237
A_44_P523016	0.0220	1.2471	down	Abhd12	NM_001024314
A_44_P150137	0.0314	1.2627	up		AA924386
A_44_P621785	0.0362	1.4054	up		XM_236024
A_44_P542390	0.0182	1.2112	down	Ptprs	NM_019140
A_44_P837006	0.0044	1.4835	up		
A_44_P402668	0.0472	1.3602	down	Fbxo6	NM_138917
A_44_P1002141	0.0245	1.2278	down	Tsen34	NM_001006968
A_44_P885330	0.0241	1.1285	up		
A_44_P991940	0.0030	1.8128	up		XM_225667

A_44_P5532 97	0.0077	1.2251	down	RGD156068 7	XM_576192
A_43_P1312 7	0.0392	1.6838	down	Slc38a4	NM_130748
A_44_P3999 92	0.0229	1.1190	down	Prkar1a	NM_013181
A_43_P1327 2	0.0299	1.5449	down	Agt	NM_134432
A_44_P2228 65	0.0078	1.1276	up		XM_235305
A_44_P1603 59	0.0043	1.5426	up		BM385969
A_44_P3108 30	0.0025	1.9823	up		AI176154
A_44_P1041 279	0.0126	1.1166	up	Usp48	NM_198785
A_44_P6806 22	0.0467	1.7235	down	Clspn	NM_0011066 87
A_44_P9982 63	0.0392	1.1636	up		AA866482
A_44_P4543 86	0.0073	1.9301	down	Eln	NM_012722
A_44_P7049 47	0.0027	1.3229	down		
A_44_P2566 94	0.0480	1.4786	up		AA859175
A_42_P8314 99	0.0176	1.2881	down	Egf	NM_012842
A_44_P9006 08	0.0104	1.4872	down		
A_44_P6606 21	0.0302	1.2543	down		
A_43_P1152 9	0.0187	1.3927	up	Calcr1	NM_012717
A_44_P2094 61	0.0340	1.0921	down	Rab28	NM_053978
A_43_P1297 0	0.0179	1.1920	up	Rere	NM_053885
A_43_P1696 0	0.0431	1.4760	up		CB547898
A_42_P4753 40	0.0258	1.1116	down	Fbxw5	NM_0010257 30
A_44_P4729 89	0.0453	1.7979	up	Ptgs2	S67722

A_44_P3639 13	0.0007	1.7960	up		
A_43_P2053 4	0.0368	1.1652	down	Fbxo22	NM_0010377 70
A_44_P5591 06	0.0499	1.0938	up	Cct8	NM_0011058 97
A_44_P1016 44	0.0023	1.8160	up	Rock2	NM_013022
A_44_P9144 38	0.0447	1.6689	down	Cdkn1a	NM_080782
A_44_P3863 49	0.0014	1.2363	down	Gpr177	NM_199408
A_44_P3462 09	0.0422	1.8247	up		BP490681
A_44_P4405 14	0.0492	1.5893	up	RT1-CE4	NM_0010088 42
A_44_P3821 94	0.0195	1.2845	down	Pbxip1	NM_0011009 76
A_44_P8988 05	0.0426	2.0424	up		
A_44_P3369 13	0.0120	1.4380	up		AA945848
A_44_P4300 83	0.0343	1.2553	up	Far2	XM_575726
A_44_P8530 16	0.0044	1.2231	up		
A_42_P4834 19	0.0159	1.2280	down	Oaz1	NM_139081
A_44_P5923 44	0.0034	1.5266	up	Elmo1	NM_0011084 15
A_42_P7591 84	0.0206	1.1221	up		XM_341386
A_43_P1524 2	0.0357	1.2063	up	Nr3c1	M14053
A_44_P4590 92	0.0143	1.4759	up		BX883048
A_44_P6202 22	0.0155	1.2250	up	Rb1cc1	NM_0011079 01
A_44_P9152 55	0.0052	1.8670	up		
A_44_P3848 33	0.0002	1.5328	up	Mum1	NM_0011087 36
A_44_P2060 30	0.0437	1.2535	down	LOC498369	XM_0010631 81

A_44_P2129 22	0.0131	1.2333	up	Zfp329	NM_0011074 77
A_44_P4338 94	0.0044	1.2534	up	RGD156082 1	XM_346332
A_44_P8408 29	0.0383	1.1383	down	Hnrnpr	NM_175603
A_44_P3403 75	0.0166	1.1308	down	RGD156420 9	XM_345912
A_44_P7602 99	0.0150	1.7246	up		
A_44_P3705 68	0.0080	1.1808	up		XR_009173
A_44_P3521 04	0.0162	1.3399	down	Slc25a17	NM_0011262 69
A_44_P4596 60	0.0189	1.7186	up		XM_0010536 57
A_44_P3601 79	0.0045	1.3909	up		BF283504
A_44_P6995 67	0.0129	1.2713	down		
A_42_P5543 36	0.0095	1.1537	down	Secp43	NM_023027
A_44_P6425 47	0.0003	2.1388	up		FM113879
A_44_P2433 55	0.0395	1.2418	down	Atp10a	NM_0011419 35
A_44_P1044 934	0.0052	1.0936	down	Anapc5	NM_0010801 47
A_44_P3566 05	0.0276	1.1184	down	Las1l	NM_0011705 90
A_44_P1726 45	0.0354	1.3649	down	Dclk1	NM_053343
A_44_P7214 39	0.0489	1.3209	up		BF418132
A_44_P3813 34	0.0379	1.1266	up		AI170403
A_44_P4039 78	0.0044	1.2790	up	Supt4h1	NM_0011058 28
A_44_P1542 45	0.0393	1.3359	up	Atp10d	XR_009136
A_44_P1004 757	0.0236	1.2806	down	Serpib10	NM_153733
A_43_P1605 0	0.0438	1.2697	down	Wnt11	NM_080401

A_44_P9749 75	0.0452	1.2983	up	LOC307671	XR_006927
A_44_P3736 15	0.0432	1.3857	up		AW141787
A_44_P4359 96	0.0152	1.5310	up	Slc41a1	NM_0011088 55
A_42_P6845 38	0.0292	1.4254	down	Slc2a1	NM_138827
A_43_P2021 6	0.0240	1.3444	down		CB545562
A_44_P3580 00	0.0100	1.5645	up		AA997517
A_44_P4289 88	0.0046	1.6619	up	LOC692017	XM_0010811 33
A_43_P1907 7	0.0143	1.2816	down	Rptor	NM_0011344 99
A_44_P5139 03	0.0198	1.1932	up		CB781747
A_44_P8880 00	0.0389	1.4428	up		
A_44_P5436 19	0.0422	1.2220	down	Tmtc4	NM_0011344 14
A_42_P4992 82	0.0073	1.2026	down	Msrb2	NM_0010316 60
A_44_P7881 09	0.0021	2.1419	up		AW921078
A_44_P3824 23	0.0022	1.3188	down	Bnc2	NM_0011066 66
A_44_P3404 01	0.0112	1.4908	up		XM_235376
A_43_P1306 9	0.0260	1.4138	up	Chek1	NM_080400
A_44_P4551 08	0.0014	1.4218	up	Eif1	NM_0011058 37
A_44_P1009 892	0.0023	1.3878	up	Pja2	NM_138896
A_42_P4620 15	0.0303	1.1738	down	Obfc1	NM_0010119 43
A_44_P5300 75	0.0471	1.2260	down		
A_42_P6172 30	0.0270	1.2251	down	Pus1	NM_0010255 63
A_44_P2904 36	0.0109	1.5369	up		AF189020

A_44_P456072	0.0259	1.2677	up	Nipbl	NM_001106415
A_44_P632322	0.0005	1.7794	up		BI395739
A_43_P17180	0.0482	1.1654	down	mrpl9	NM_001007696
A_44_P119251	0.0429	1.1391	up	RGD1306520	NM_001127485
A_44_P421944	0.0083	2.0846	up	RGD1562724	XM_225322
A_44_P402705	0.0166	1.4749	down	Rab3b	NM_031091
A_44_P328696	0.0449	1.4751	up		XM_234063
A_44_P540855	0.0477	1.3332	down	Actn1	NM_031005
A_44_P293187	0.0029	1.4028	up	RGD1560997	XM_001053937
A_44_P100716	0.0437	1.8423	down	Mylk3	NM_001110810
A_43_P11301	0.0392	1.0655	down		
A_44_P806046	0.0314	1.2171	up		
A_43_P19318	0.0029	1.2237	down	Cdk9	NM_001007743
A_44_P218147	0.0217	1.2488	down	Tmed1	NM_001013432
A_44_P839920	0.0315	1.2321	up	Bcor1	XM_217627
A_44_P700424	0.0384	1.2741	up		
A_43_P14032	0.0267	1.2491	down	Lrrc61	NM_001109231
A_44_P474037	0.0423	1.2648	down	Igflr	NM_052807
A_42_P720077	0.0180	1.7646	down	Fmo5	NM_144739
A_43_P17262	0.0199	1.2858	down	Tmod4	NM_001106449
A_44_P1045105	0.0453	1.1655	down		XM_218427
A_44_P1015041	0.0285	1.4710	down		AI234012



A_44_P3707 98	0.0192	1.1522	down		XM_343271
A_43_P1521 6	0.0187	2.3238	up	Dolpp1	NM_0011065 67
A_44_P5527 51	0.0024	2.3568	up		M95791
A_44_P3344 91	0.0171	1.3368	down		AW525042
A_44_P4354 22	0.0024	1.5084	up	Mef2a	NM_0010140 35
A_44_P2425 88	0.0082	1.2736	up		BG666662
A_44_P1605 68	0.0268	1.2746	up	Trib2	NM_0011080 15
A_44_P8175 39	0.0165	1.7179	up	Caprin1	NM_0010121 85
A_44_P4468 82	0.0289	1.2493	down	Abcb6	NM_080582
A_44_P4512 57	0.0193	1.3901	up		AI409922
A_44_P3894 44	0.0276	1.4936	up		AF327071
A_44_P5291 92	0.0181	1.4415	up		AA964625
A_44_P5602 85	0.0016	2.0411	up		XR_086661
A_44_P2384 95	0.0263	1.5748	up	Sptbn1	AJ242018
A_44_P2343 44	0.0428	1.3374	down		XM_0010656 10
A_44_P1382 30	0.0282	1.3121	up		XM_236238
A_44_P2217 96	0.0375	1.1139	down		CV119755
A_42_P6954 01	0.0253	2.0241	up	Ccl2	NM_031530
A_44_P2815 49	0.0463	1.7680	down		XM_0010672 41
A_44_P2736 91	0.0280	1.3706	up		BF284294
A_44_P5464 32	0.0354	1.7056	up		
A_44_P3657 65	0.0186	1.2181	down	Slmap	NM_0011060 60

A_44_P6235 60	0.0357	2.0584	up		
A_44_P6534 93	0.0046	1.4970	up		
A_44_P4344 28	0.0238	1.4744	up		BF395191
A_44_P6514 16	0.0321	1.2856	up		BF291245
A_42_P5026 71	0.0271	1.1329	up	Znrf1	NM_0011086 28
A_44_P2548 55	0.0016	1.5093	up	Usp33	BC092624
A_44_P7298 22	0.0287	1.1451	up		
A_44_P1440 93	0.0412	1.1279	up		AI178292
A_44_P5929 73	0.0439	1.1980	up		BF564892
A_44_P3732 72	0.0075	1.3819	down	Prodh	NM_0011357 78
A_44_P4562 56	0.0057	1.4588	up		AA925161
A_44_P5161 15	0.0294	1.2510	up	RGD156626 4	XM_345884
A_44_P2368 06	0.0177	1.1796	down	Ggal	NM_0010119 94
A_44_P2675 01	0.0047	1.3182	up	RGD131135 8	NM_0010174 48
A_44_P5594 13	0.0058	1.6027	up	Nup153	AA818240
A_44_P3295 43	0.0033	1.4183	up		AA894101
A_44_P2522 50	0.0461	1.6554	up		BE102840
A_44_P1107 88	0.0451	1.3420	up	Itgad	NM_031691
A_44_P9136 44	0.0192	1.2861	up		
A_43_P1085 1	0.0320	1.1091	up	Sh3glb1	NM_0010119 29
A_44_P7321 50	0.0029	1.7911	up		
A_44_P9149 45	0.0282	1.1669	up	Zfp84	NM_0011075 00

A_44_P5456 49	0.0350	1.1572	down	Parp16	NM_0010140 93
A_44_P9437 56	0.0411	1.2849	up	Ccdc82	NM_0010076 60
A_44_P3378 65	0.0123	1.3224	up		
A_44_P5529 58	0.0396	1.5725	up		XM_344237
A_44_P2686 10	0.0245	1.1042	down	RGD155989 6	NM_0011091 34
A_44_P3002 49	0.0207	1.3532	up		
A_44_P5926 52	0.0037	1.7621	up		XM_0010795 37
A_44_P4685 19	0.0046	1.8605	up	Papolb	NM_0010120 20
A_43_P1099 6	0.0228	1.3082	down	Atp1b2	NM_012507
A_44_P3687 15	0.0370	1.2305	up		BE106382
A_44_P1228 41	0.0190	1.2689	up		AI178484
A_43_P1322 6	0.0028	1.4730	up	Slc31a1	NM_133600
A_44_P1831 42	0.0031	1.4525	up		XM_343286
A_44_P3141 52	0.0022	1.3081	up	RGD156131 7	XM_345433
A_44_P5476 35	0.0129	1.3636	up		BM392213
A_44_P1392 11	0.0347	1.1731	up		AA925900
A_44_P3650 12	0.0133	2.4580	up		AI103325
A_44_P1059 84	0.0336	1.2018	up		BF406511
A_44_P1060 170	0.0064	1.4231	down	Vps33a	NM_022961
A_44_P1583 78	0.0246	1.2943	up		AI639455
A_44_P3039 72	0.0082	1.5544	up		BE116157
A_44_P4158 07	0.0249	1.2680	down		AA955172

A_44_P2168 30	0.0483	1.2620	up		AA892759
A_44_P5146 90	0.0106	2.2899	up		CV797051
A_44_P2769 32	0.0145	1.3475	up		
A_43_P1664 1	0.0376	1.0969	down	Snapap	NM_0010256 48
A_44_P4533 11	0.0444	1.3141	up		BF388434
A_43_P1633 1	0.0357	1.1791	up	Znf569	U78133
A_44_P5386 58	0.0038	1.4538	down	Slc7a7	NM_031341
A_44_P9803 53	0.0353	1.1767	down	Trim2	NM_0011085 52
A_44_P7256 17	0.0304	1.0945	down		BF548107
A_44_P2006 61	0.0285	1.1881	up		CV110871
A_44_P6141 54	0.0178	1.6133	down		BE110237
A_44_P1015 355	0.0038	1.4014	up	Rnmt	NM_0010082 99
A_44_P3555 52	0.0085	1.3235	up		BF548081
A_43_P2304 6	0.0434	1.1212	down	Ccdc163	NM_0010256 56
A_44_P4584 94	0.0064	1.2246	up		AA924972
A_44_P2936 67	0.0484	1.2975	down	Vps33b	NM_022286
A_44_P1779 69	0.0263	1.1637	down	Rhbdd3	NM_0010138 75
A_44_P1488 65	0.0349	1.1922	down	Homer1	NM_031707
A_44_P1028 233	0.0206	1.0876	down	Anapc2	NM_0011005 32
A_44_P5156 27	0.0392	1.9156	up	Igj	BC097960
A_44_P5219 46	0.0138	1.2193	up		AA850244
A_44_P4703 61	0.0062	1.2772	up		CK363737

A_44_P8065 72	0.0010	1.4971	up		
A_44_P2897 58	0.0069	1.5793	up		AW535083
A_44_P1404 49	0.0069	1.2075	down	Grhpr	NM_0011137 54
A_44_P1345 61	0.0066	1.4049	down	Aifm2	NM_0011394 83
A_44_P2206 10	0.0356	1.2479	down	Fahd1	NM_0010249 91
A_44_P1918 38	0.0275	1.2811	down		AF352175
A_42_P7015 82	0.0005	1.2284	down	Gstt1	NM_053293
A_44_P3210 75	0.0311	1.2030	down	Rasal2	NM_0011071 88
A_44_P4779 54	0.0001	3.0451	up	RGD156184 3	XM_0027254 53
A_44_P1958 81	0.0020	1.1229	down		FM122807
A_44_P4881 53	0.0308	1.4705	up		AA866303
A_44_P2493 91	0.0056	1.1743	down	Traf7	NM_0011275 48
A_44_P9581 39	0.0173	1.3794	down		AW917167
A_44_P2777 19	0.0056	1.5653	up		BF393654
A_44_P1402 66	0.0097	1.1517	up	Slc22a15	NM_0011077 07
A_43_P1255 2	0.0176	1.3354	down	Ocln	NM_031329
A_44_P5717 23	0.0209	1.4247	up		AW531135
A_44_P1820 61	0.0321	1.2406	down	Trappc2	NM_0010249 65
A_43_P2114 3	0.0139	1.2757	down	Cul3	NM_0011069 23
A_44_P6666 11	0.0171	1.1935	up		AW917482
A_44_P4021 93	0.0308	1.3788	up		BQ193921
A_44_P1083 04	0.0124	1.8740	up	Slc41a2	NM_0011087 42

A_44_P1843 63	0.0159	1.4083	down	Cand2	NM_181362
A_44_P4903 58	0.0239	1.2966	up		AI411577
A_44_P8015 16	0.0427	1.4295	up		BF412188
A_44_P2993 80	0.0269	1.5063	up	Olr1416	NM_0010000 09
A_44_P1659 38	0.0313	1.2756	down	Sumf2	NM_0010251 25
A_44_P1300 08	0.0033	1.5864	up		AA899509
A_44_P4089 84	0.0169	1.5291	up		AW055729
A_44_P5032 15	0.0210	1.2569	down		AA799326
A_44_P4744 83	0.0319	1.3671	up		BE104073
A_44_P6543 47	0.0329	1.3108	up		
A_43_P1097 0	0.0436	1.2442	up	Map3k3	NM_0011070 58
A_44_P3073 08	0.0224	1.3684	up	LOC301725	XM_237568
A_42_P4600 21	0.0224	1.3039	down	Adcy10	NM_021684
A_44_P9485 72	0.0099	1.2584	down	Ccnc	NM_0011004 72
A_44_P4620 18	0.0008	1.2935	up	LOC100360 990	XM_0027267 00
A_44_P7299 26	0.0246	1.1933	up		AA957540
A_44_P8759 45	0.0208	1.7737	up		BI296619
A_44_P3508 88	0.0226	1.5101	up		AA957004
A_44_P1127 74	0.0213	1.6862	up		BE119177
A_44_P7216 33	0.0072	1.3679	up		
A_44_P2193 22	0.0387	1.3127	down		BC091431
A_44_P4725 83	0.0013	1.8250	up		AW914016

A_44_P3272 50	0.0417	1.2260	down	Kctd13	NM_198736
A_44_P2531 12	0.0053	1.1372	down	Pfdn1	NM_0011084 27
A_44_P1053 772	0.0457	1.1809	down	Galt	NM_0010130 89
A_44_P3765 92	0.0382	1.2050	up		AI411616
A_44_P1408 05	0.0067	1.1351	down	LOC361100	NM_0011008 58
A_44_P7403 24	0.0005	1.5618	up		AI044170
A_44_P7260 50	0.0005	1.3993	up		BF565756
A_44_P2664 54	0.0256	1.2142	down	Rnf181	NM_0010076 47
A_43_P1255 9	0.0012	1.8688	up	Camkk2	NM_031338
A_44_P3400 88	0.0010	1.3273	up	Usp4	NM_0011350 12
A_44_P3929 88	0.0035	1.9323	up		AA957290
A_44_P4341 77	0.0025	1.6327	up		AI227710
A_44_P1206 08	0.0066	1.4197	up		AA924066
A_44_P1079 49	0.0373	1.1819	down	Dnajc11	NM_0011086 94
A_44_P5337 94	0.0164	1.6056	up	Tnfrsf1b	NM_130426
A_43_P1700 8	0.0197	1.4214	down	Bpgm	NM_199382
A_44_P7033 94	0.0180	1.7956	down		
A_44_P4275 60	0.0158	1.2008	up	Pom121	NM_053622
A_42_P8157 27	0.0149	1.1132	down	Usp48	NM_198785
A_44_P9093 24	0.0348	1.2264	up		AA925918
A_42_P7127 77	0.0396	1.2252	down	Cabin1	NM_053575
A_44_P1055 66	0.0281	1.3341	up		

A_44_P2985 33	0.0048	1.3016	up		AA963238
A_44_P2541 44	0.0246	1.1123	down	Aftph	XM_223651
A_44_P5243 59	0.0405	1.1566	down	Anxa1	NM_012904
A_44_P1047 315	0.0425	1.2715	down	Lynx1	NM_0011305 46
A_43_P1892 0	0.0140	1.1780	up	Ercc8	NM_0011076 50
A_44_P4993 72	0.0063	2.2735	up	Brwd3	XM_228518
A_44_P4293 79	0.0016	1.6586	up	RGD156426 8	XM_0010729 62
A_44_P9947 68	0.0243	1.1341	up	Ssr3	NM_031120
A_44_P3165 61	0.0169	1.0834	down	Serf2	NM_0010987 82
A_44_P4223 98	0.0005	1.4308	up		BQ201255
A_44_P4901 07	0.0023	1.3393	up		
A_44_P7606 28	0.0091	1.4041	up		
A_44_P6367 69	0.0478	1.2844	up		
A_44_P3238 92	0.0023	1.6815	up	RGD155995 1	XM_228717
A_44_P3226 51	0.0312	1.3639	up		AI145695
A_44_P1003 233	0.0372	1.2653	up		AW143803
A_44_P2900 74	0.0460	1.2158	up		AI575097
A_44_P4971 74	0.0493	1.2238	down	Gramd1b	XM_217113
A_44_P3506 46	0.0158	3.4138	up		AI029858
A_44_P3063 16	0.0490	1.1848	down	Elac2	NM_172326
A_44_P5449 74	0.0239	1.2620	up	Mki67ip	NM_139186
A_44_P3793 31	0.0456	1.0889	up	LOC257642	NM_147136



A_44_P3655 31	0.0429	1.2818	down	Hsd17b4	NM_024392
A_44_P1148 69	0.0380	1.1448	down	Ftl	NM_022500
A_44_P7606 97	0.0137	1.2002	down	Nhej1	NM_0010142 17
A_44_P3720 49	0.0457	1.2685	up		AA900032
A_44_P2091 41	0.0447	1.2580	up		AI599996
A_44_P5035 52	0.0272	1.3087	down	Macrodl	NM_139337
A_44_P5520 31	0.0021	1.6238	up		BQ208511
A_44_P1008 845	0.0044	1.3172	up		
A_44_P8617 38	0.0185	1.4717	up		
A_44_P1595 40	0.0292	1.2578	down	Dhrs11	NM_0010141 19
A_44_P9210 80	0.0439	1.2172	down		CO401386
A_44_P9217 10	0.0358	1.1713	up		
A_44_P1995 14	0.0183	1.1499	down	Thap4	NM_0010055 64
A_44_P4544 50	0.0256	1.5708	up		AB072241
A_44_P4148 60	0.0429	1.4187	up		XM_345276
A_44_P2910 60	0.0471	1.2097	down	Med16	NM_0011067 68
A_44_P1057 602	0.0201	1.2787	up	Ercc6	NM_0011072 96
A_44_P6216 33	0.0182	1.2888	down	Dhrs3	NM_0010371 99
A_43_P2328 8	0.0347	1.4806	up	RGD156251 5	NM_0011092 42
A_44_P3867 99	0.0008	1.3330	up	Nudt9	NM_0010069 91
A_44_P1003 072	0.0109	1.3033	up	Dusp11	NM_0010256 50
A_43_P1240 4	0.0002	1.4018	up	Evl	NM_024147

A_44_P2730 97	0.0167	1.6691	up		AI011686
A_42_P6366 27	0.0099	2.7580	down	Cartpt	NM_017110
A_44_P5161 66	0.0210	1.3419	down		
A_44_P3195 82	0.0061	1.1394	up		XM_0010719 89
A_44_P2088 49	0.0447	1.3071	down	Dnal4	NM_0010096 66
A_44_P3929 91	0.0072	1.2962	up		AI175447
A_44_P7144 09	0.0159	1.0797	up	Sfrs3	NM_0010479 07
A_44_P4709 18	0.0466	1.7425	up		XM_219425
A_44_P3565 79	0.0118	1.2625	down	Ermp1	NM_184050
A_43_P2079 4	0.0252	1.6110	down	Osbp15	NM_0010150 24
A_43_P2306 8	0.0329	1.3890	up	Fbx12	XM_343495
A_44_P6378 56	0.0485	1.1224	down		
A_44_P5035 79	0.0279	1.1936	up	Rpl17	NM_201415
A_44_P2836 88	0.0023	1.1983	up	RGD156093 6	XM_219309
A_44_P5060 64	0.0422	1.3205	up	Aldh112	XM_235005
A_43_P1675 0	0.0332	1.3312	down	Prodh	NM_0011357 78
A_44_P2109 52	0.0152	1.2741	up		XR_009547
A_43_P1008 1	0.0430	1.3002	down	Aadacl1	NM_0011275 24
A_44_P1870 75	0.0039	2.0754	up		S63519
A_42_P8241 78	0.0407	1.2781	down	Slc25a1	NM_017307
A_44_P5335 60	0.0009	1.2491	down	Fxn	XM_574642
A_44_P1013 163	0.0040	1.6527	down	Clybl	NM_0011006 85

A_44_P1827 21	0.0062	1.4900	up	RGD156277 6	XM_223623
A_44_P2196 64	0.0320	1.2039	down	Acat1	NM_017075
A_44_P1407 20	0.0210	1.2205	down		AA899797
A_44_P9293 21	0.0021	2.1232	up		
A_44_P1851 38	0.0370	1.1421	up		
A_44_P1027 493	0.0093	1.6632	up	Lix11	NM_0010243 03
A_44_P5547 38	0.0388	1.1404	down		BU759649
A_42_P4865 17	0.0403	1.1021	down	Cox7a2l	NM_0011067 04
A_42_P5457 21	0.0028	1.2384	up		BF555033
A_44_P2155 44	0.0068	1.5939	up	RGD156592 0	XM_344713
A_43_P1015 7	0.0188	1.2586	down	Spire1	NM_0011073 81
A_44_P9593 69	0.0015	1.6672	up		
A_43_P1491 0	0.0141	1.3111	down	Ddc	NM_012545
A_44_P2794 38	0.0436	1.2597	up		AW526164
A_44_P1057 70	0.0227	1.2844	up		BI291605
A_44_P1007 385	0.0387	1.1828	up		BG671304
A_44_P4344 62	0.0305	1.2133	down	Pemt	NM_013003
A_43_P1116 6	0.0364	1.1011	down	RGD130727 9	NM_0010083 43
A_44_P7159 94	0.0423	1.3602	up		
A_44_P8088 45	0.0494	1.1614	up		
A_44_P3709 53	0.0203	1.2384	up		BI289486
A_44_P2578 32	0.0361	1.1747	down	Farp1	NM_0011072 87

A_44_P7012 36	0.0129	1.4399	up		
A_42_P8001 63	0.0387	1.1272	up	Rpl23a	NM_0011082 83
A_44_P1002 440	0.0212	1.3793	up	Xrn1	XM_217233
A_44_P3360 54	0.0125	1.3815	up		AA899896
A_43_P1476 0	0.0396	1.2694	up		
A_44_P2744 14	0.0202	1.4548	up		
A_42_P4956 91	0.0343	1.1065	down	Bcl7c	NM_0011062 98
A_44_P1210 51	0.0267	1.1099	up	Rpl17	NM_201415
A_44_P5548 24	0.0029	1.2760	up		AI169703
A_44_P6530 74	0.0018	1.3818	up		
A_44_P2543 05	0.0350	1.3096	up		S74331
A_44_P4609 28	0.0292	1.5851	up		BI295823
A_42_P6128 34	0.0478	1.1860	up	Tmem93	NM_0011058 06
A_42_P7718 48	0.0381	1.2044	down	Eif4b	NM_0010083 24
A_44_P1146 06	0.0029	1.5514	up		XR_009316
A_44_P4502 78	0.0022	1.3429	up		
A_42_P6302 49	0.0342	1.0986	up	Ctcf	NM_031824
A_44_P5052 82	0.0466	1.1968	down	Coq7	NM_012785
A_44_P3798 78	0.0107	1.3857	down	Fbxo34	NM_0011072 57
A_44_P3910 35	0.0189	1.2972	up	Giot1	NM_133563
A_44_P4619 32	0.0010	1.1975	up		XM_228533
A_43_P1487 2	0.0405	1.1214	down	Sdc1	NM_013026

A_44_P4772 86	0.0095	1.6197	up		DV719188
A_44_P1412 88	0.0119	1.1119	down	Rab34	NM_0010121 40
A_42_P6184 14	0.0437	1.1413	down	Mto1	NM_0011068 41
A_43_P2191 3	0.0445	1.2879	down	Usp53	NM_0011064 68
A_44_P2474 11	0.0414	1.1513	up	Pds5b	NM_0011023 83
A_42_P5062 73	0.0275	1.3696	up	Csad	NM_021750
A_44_P5041 20	0.0453	1.4742	down	Crocc	NM_0011079 90
A_44_P3403 45	0.0019	2.0668	up	Rpl10l	XM_234245
A_44_P2084 15	0.0306	1.1803	down		XM_223330
A_44_P3860 99	0.0407	1.1546	up		AI175475
A_43_P1175 9	0.0065	2.0471	up	Rps26	NM_013224
A_44_P1102 21	0.0477	1.7461	down		XM_0010672 41
A_44_P3628 23	0.0342	1.1989	up		AW140970
A_44_P1515 82	0.0395	1.3085	down	Il17re	NM_0010040 91
A_44_P4689 49	0.0382	1.1155	down	Vps13d	NM_0011080 06
A_44_P7908 25	0.0052	1.1986	up		
A_44_P9324 24	0.0379	1.2617	down		
A_44_P1618 99	0.0234	1.6934	up		AA858924
A_44_P4715 24	0.0488	1.2353	up		BF410771
A_43_P2212 6	0.0363	1.2656	down	Ptcd1	NM_0011096 65
A_44_P1376 33	0.0406	1.4028	down	Adora1	Y12519
A_44_P1060 108	0.0143	1.3561	up	Tmsb10	NM_021261

A_44_P4363 51	0.0244	1.3057	down	Taf51	NM_0011074 42
A_44_P7896 73	0.0159	1.3099	up		AI177494
A_44_P1060 167	0.0059	1.5009	down	Vps33a	NM_022961
A_44_P2252 39	0.0119	1.5091	up		XM_345962
A_44_P1042 940	0.0492	1.2905	up		
A_44_P1774 65	0.0448	1.3494	down	Gas7	AJ131902
A_44_P3950 20	0.0037	1.5812	up		AI407351
A_44_P2779 35	0.0427	1.2009	up	Arid1a	NM_0011066 35
A_44_P4195 28	0.0234	1.3473	up	Cdkn2aip	NM_0010140 00
A_44_P2509 88	0.0223	1.3018	down	Serhl2	NM_0011305 79
A_44_P1060 345	0.0078	1.2420	up	Cpox	NM_0010370 95
A_44_P4535 67	0.0104	1.5049	up		BC091295
A_44_P7448 84	0.0355	1.1665	up		
A_44_P7675 48	0.0267	1.2054	down		DV726492
A_44_P5465 74	0.0261	1.2945	down	Ankrd32	NM_0011064 00
A_44_P8727 77	0.0009	2.0231	up		XM_0027295 57
A_44_P5593 92	0.0119	1.2027	up	Txn1	BF281355
A_44_P8673 86	0.0352	1.2211	up		
A_42_P5407 11	0.0390	1.5526	up	Rasd2	NM_133568
A_44_P5216 99	0.0482	1.2064	down	Mpz11	NM_0010077 28
A_44_P5785 05	0.0036	1.6228	down		
A_44_P1237 32	0.0143	1.2995	up	RGD156330 7	XM_0010794 51

A_44_P520273	0.0344	2.0616	up		
A_44_P396327	0.0025	1.3687	up		XM_238572
A_43_P11601	0.0239	1.1856	down	Sod3	NM_012880
A_44_P262517	0.0243	1.3831	up	LOC689412	NM_001109538
A_44_P105608	0.0217	1.5663	up		XM_002727056
A_44_P857088	0.0385	1.2129	down		H32887
A_44_P504019	0.0010	1.8279	up		XM_217592
A_44_P139749	0.0454	1.1508	up	Pla2g16	NM_017060
A_44_P118140	0.0419	1.2725	up		AA944856
A_44_P489076	0.0488	1.2010	up		AW915692
A_43_P12167	0.0141	1.3190	down	Gpd1	NM_022215
A_44_P414544	0.0442	2.2358	up	RGD1563231	M84148
A_44_P435945	0.0176	4.5986	up	Dppa1	NM_001105905
A_44_P827767	0.0278	1.1882	down		
A_44_P624482	0.0496	1.1036	up		
A_44_P179814	0.0389	1.2530	down	Gas6	NM_057100
A_44_P929396	0.0210	1.3301	up		
A_44_P490265	0.0088	1.2820	up	RGD1564730	XM_001067793
A_44_P991864	0.0125	1.4161	up	Ece1	NM_053596
A_43_P12011	0.0128	1.1114	up	Cltc	NM_019299
A_44_P413731	0.0296	1.5474	up		AW254506
A_44_P386269	0.0425	1.3970	up		AI104291

A_44_P1376 81	0.0149	1.3957	down	Khk	NM_031855
A_44_P2692 80	0.0262	1.4156	down	Pou2f3	NM_0011057 45
A_44_P2013 89	0.0347	1.1045	up	Psmc6	NM_0011005 09
A_44_P1199 56	0.0073	1.4187	up		BF417776
A_44_P3581 10	0.0001	1.5871	up	Tsg101	NM_181628
A_44_P2226 73	0.0081	1.2180	down	Tysnd1	NM_0011089 32
A_44_P5339 43	0.0091	1.1206	down	Rtn3	NM_080909
A_44_P1565 21	0.0023	1.2688	up	Krtap1-5	NM_0010251 35
A_44_P2607 25	0.0371	1.1726	down	RGD130659 5	NM_0010256 26
A_44_P1302 17	0.0039	1.6624	up		BG670404
A_44_P9783 98	0.0182	1.2744	down		EV767235
A_44_P1618 46	0.0422	1.6914	down	Hist3h2ba	NM_0011111 27
A_44_P1024 529	0.0022	1.2139	up	Sfrs2	NM_0010097 20
A_42_P6218 82	0.0059	1.1055	up	Copa	NM_0011345 40
A_44_P3139 04	0.0370	1.1151	down	Dars2	NM_0010341 43
A_44_P1887 96	0.0007	1.4220	up		AI059912
A_44_P4794 72	0.0408	1.2173	down		AI407002
A_42_P6070 26	0.0364	1.1787	up	Lysmd2	NM_0011068 39
A_44_P3555 82	0.0182	1.2251	up		AA923973
A_43_P1204 8	0.0168	1.1342	up	Atp5h	NM_019383
A_44_P1961 11	0.0158	1.2868	up		AA891789
A_44_P2335 69	0.0108	1.1709	down	Gnb5	NM_031770



A_44_P3045 42	0.0265	1.0973	down		XM_341251
A_44_P8841 71	0.0455	1.3659	down		
A_44_P7789 16	0.0160	1.3764	down		
A_44_P8220 51	0.0009	1.8660	up		
A_44_P2249 91	0.0254	1.4132	up		XM_226023
A_44_P1495 99	0.0168	1.1746	down	RGD131155 8	NM_0010797 05
A_44_P4393 78	0.0304	1.2071	up		AW521344
A_44_P5687 26	0.0321	1.3312	up		
A_44_P1965 32	0.0436	1.3239	up	Mk1	NM_134399
A_44_P1541 31	0.0401	1.2226	down	Man2c1	NM_139256
A_43_P1585 0	0.0241	1.3851	up	Cyp2j3	NM_175766
A_44_P2714 16	0.0376	1.1986	down	Rabggtb	NM_138708
A_44_P2774 94	0.0492	1.5539	up		AI058788
A_44_P3288 29	0.0317	1.2865	down		XM_220639
A_44_P5756 87	0.0293	1.1719	up	LOC691254	XM_0010774 02
A_44_P4665 17	0.0024	2.2566	up		XM_345405
A_44_P6213 66	0.0318	1.2775	up		
A_44_P2852 47	0.0266	1.1163	up	Ube3c	XM_347039
A_44_P8220 61	0.0404	1.6500	down		XM_0010672 41
A_44_P2788 81	0.0064	1.2751	up	RGD1562558	
A_44_P5153 60	0.0257	1.1512	up	Scamp1	NM_0011006 36
A_44_P1037 526	0.0423	1.1469	up	Eif3a	NM_0010470 87

A_44_P1977 83	0.0122	2.0330	up	Selk	BQ205389
A_44_P1547 69	0.0010	1.6667	down		XM_0010811 66
A_44_P9978 15	0.0387	1.1127	down	Cxxc1	NM_0010796 98
A_44_P3110 96	0.0352	1.3192	down	Abcb4	NM_012690
A_42_P4704 17	0.0028	1.4221	down	RGD130810 6	NM_0011345 75
A_44_P1513 91	0.0399	1.2964	up		AI179025
A_44_P1831 85	0.0390	1.2308	down	Fxr2	NM_0011006 47
A_44_P3750 29	0.0160	1.8975	down	Dact2	NM_0011074 64
A_44_P5733 04	0.0021	1.3269	down		AW916728
A_42_P5026 21	0.0214	1.4980	down	Avil	NM_024401
A_44_P5497 53	0.0096	1.3519	down		AA848758
A_44_P2165 11	0.0310	1.1943	down		AW918690
A_44_P7621 98	0.0457	1.1096	down	Reep3	NM_0011063 86
A_44_P8698 71	0.0451	1.1789	up		
A_44_P4453 59	0.0486	1.2567	down	Pex7	NM_0010341 47
A_43_P1380 8	0.0048	1.2749	up	Gps2	NM_0010174 77
A_42_P4921 30	0.0150	1.1369	down		XM_0027245 87
A_44_P1042 668	0.0100	1.2488	up	Hint3	AY040767
A_44_P4082 22	0.0334	1.2816	down		CA339340
A_42_P5708 48	0.0293	1.4106	down	Pcsk1	NM_017091
A_44_P2125 52	0.0388	1.4108	up	Tob1	NM_133317
A_44_P2646 59	0.0319	1.2236	down	Dpysl3	NM_012934

A_44_P3153 32	0.0349	1.5440	up		AA875068
A_44_P3271 27	0.0073	1.4406	up		AA955905
A_42_P6699 07	0.0413	1.2212	down	Slc16a7	NM_017302
A_44_P7689 45	0.0299	1.1865	down	Dtnbp1	NM_0010376 64
A_44_P2514 76	0.0161	1.5138	up		AI407309
A_43_P1718 6	0.0205	1.3485	down	Gatsl3	NM_0010251 28
A_44_P3110 28	0.0444	1.2296	up		BQ194449
A_44_P8856 44	0.0461	1.4406	down		
A_44_P3508 23	0.0042	1.1278	up	Cherp	NM_0011060 64
A_44_P1065 81	0.0343	1.2581	down		AW143880
A_44_P6871 09	0.0170	1.4300	down		CA339191
A_43_P2228 5	0.0015	1.2116	down	Dnajc4	NM_0010131 96
A_44_P4440 39	0.0214	1.4608	down	Acss1	NM_0011065 24
A_44_P4675 91	0.0018	1.7048	down	Neu2	NM_017130
A_44_P1669 30	0.0372	1.4689	down	Aldh7a1	XM_214535
A_44_P8266 05	0.0113	1.1997	up		
A_43_P1215 2	0.0212	1.4746	down	Robo1	NM_022188
A_44_P3399 94	0.0095	1.7785	up		
A_44_P3303 32	0.0385	1.2711	up	Prkaca	NM_0011009 22
A_44_P8377 40	0.0129	1.0878	down	Asb6	NM_0010119 63
A_42_P7173 08	0.0307	1.2457	up	Thap6	NM_0011072 09
A_42_P6547 39	0.0149	1.3214	down	Rnf6	NM_0011071 18

A_44_P2508 39	0.0018	1.1802	up		XM_229366
A_44_P4321 39	0.0215	1.0990	down	Rpl5	NM_031099
A_44_P1471 56	0.0434	1.4242	down	Rbm47	NM_0010058 82
A_44_P1756 54	0.0466	1.2637	down		
A_44_P4268 06	0.0118	1.4762	down		XM_342652
A_44_P9039 77	0.0460	1.2070	up		
A_44_P5753 19	0.0355	1.2161	down		
A_44_P1013 38	0.0228	1.3779	down		DV727231
A_43_P1353 3	0.0319	1.1489	down		EV771450
A_44_P3955 10	0.0001	1.7432	down	Ly6g6d	NM_0010019 70
A_44_P4174 70	0.0360	1.1928	up		XR_007475
A_44_P1214 77	0.0044	1.3103	up	Mrpl21	NM_0011075 67
A_44_P5076 50	0.0480	1.1616	up		AA848508
A_44_P3656 53	0.0376	1.3674	down	Idh2	NM_0010141 61
A_42_P5983 04	0.0478	1.6296	up	Klrb1a	NM_0010109 64
A_44_P9914 59	0.0020	1.5886	up	Nsmce2	NM_0010248 76
A_44_P1289 74	0.0499	1.1913	down		BQ203441
A_44_P7922 81	0.0050	1.9266	up	Cys1	NM_0011095 97
A_44_P1042 504	0.0020	1.2643	up	Rg9mtd2	NM_0010442 32
A_44_P3203 76	0.0241	1.1996	up		BM388420
A_44_P8526 23	0.0082	1.3224	up		
A_44_P4290 06	0.0368	1.2102	down	Lass1	NM_0010442 30

A_43_P21209	0.0309	1.0641	down	Ccdc130	NM_001037644
A_44_P541317	0.0035	1.1037	down	Hs2st1	NM_001100518
A_43_P19155	0.0101	1.2670	down	Inadl	XM_233212
A_44_P445854	0.0209	1.4373	down	RGD1564722	XM_343160
A_44_P928761	0.0079	1.7987	up		
A_43_P10591	0.0125	1.1104	up	Tcea1	NM_001025735
A_44_P292487	0.0299	1.1427	up	Scpep1	NM_133383
A_44_P416960	0.0248	1.7807	down	Vil1	NM_001108224
A_44_P399580	0.0241	1.2460	up		AI556271
A_44_P760225	0.0002	1.8014	up		
A_44_P402220	0.0013	1.2293	up		AI104907
A_44_P281595	0.0278	1.1751	down	Nmnat1	NM_001037556
A_42_P827480	0.0027	1.2914	up	Aplp1	NM_001100802
A_44_P359957	0.0420	1.2956	up		AA819141
A_43_P11098	0.0262	1.2165	up	Cdc42bpb	NM_053620
A_44_P918225	0.0030	1.7836	up		
A_44_P788644	0.0137	1.1802	down		AI030814
A_43_P20363	0.0098	1.2079	down	Sf4	NM_001011920
A_44_P101223	0.0347	1.1945	down		CB546475
A_44_P825558	0.0131	1.1568	down	Ranbp10	NM_001135875
A_42_P830641	0.0238	1.1146	down	Znf746	NM_001100852
A_44_P450967	0.0238	1.2270	up		CX570609

A_44_P1035 353	0.0017	1.5576	up		
A_44_P2907 06	0.0310	1.3383	down		XM_226680
A_44_P4769 36	0.0078	1.2186	down		X62295
A_44_P1581 69	0.0153	1.4647	up		BI295013
A_44_P2025 73	0.0118	1.2789	up		AA848427
A_44_P1023 611	0.0326	1.2481	down	Ino80b	NM_0010482 33
A_43_P1599 8	0.0257	1.5323	up	Ntn3	NM_053732
A_44_P4148 38	0.0012	2.0452	up	RGD156184 1	XM_0010552 35
A_44_P2234 35	0.0488	1.3817	down		DV718896
A_44_P5558 08	0.0481	1.1056	up		BC085360
A_44_P1052 324	0.0346	1.5027	up	Lamp3	NM_0010120 15
A_44_P3844 62	0.0171	1.1307	up	RGD156571 3	XM_0010567 85
A_44_P1848 96	0.0399	1.2242	down	LOC683722	NM_0011010 08
A_44_P1038 54	0.0206	1.2181	up		AW918531
A_44_P6385 54	0.0256	1.1183	up		
A_44_P1948 21	0.0054	1.5204	up	Topbp1	XM_236578
A_44_P3029 96	0.0077	1.2317	down		XM_342171
A_44_P7456 33	0.0144	1.4497	down		
A_44_P1898 37	0.0126	1.3728	down	Carkd	NM_0011084 02
A_44_P1070 826	0.0480	1.2377	down	Gng10	NM_053660
A_44_P7083 81	0.0318	1.9540	up		CB315312
A_44_P3449 37	0.0227	1.3178	up		XM_346150

A_42_P4578 95	0.0041	1.1716	down	Supv311	NM_0010124 62
A_44_P1004 781	0.0477	1.4901	down		XM_0010562 27
A_44_P5161 44	0.0224	1.1737	down	Mpdu1	NM_0011070 11
A_44_P2993 19	0.0089	2.1814	up	Olr1174	NM_0010010 16
A_43_P1668 5	0.0416	1.3414	down	Abca3	XM_220219
A_44_P2679 68	0.0384	1.2007	up		AA945325
A_44_P4174 29	0.0221	1.1664	down	Coq6	NM_0010119 83
A_44_P2835 61	0.0212	1.1938	down	Mgst1	NM_134349
A_44_P1020 105	0.0358	1.1224	down	Aff4	NM_0011070 01
A_44_P3127 55	0.0060	1.2460	down		BM388648
A_44_P3448 58	0.0045	1.7761	down	Pi16	NM_0011704 81
A_42_P7781 15	0.0090	1.3626	down	Phlda2	NM_0011704 80
A_44_P2486 86	0.0362	1.3223	down		XM_237468
A_44_P4316 85	0.0398	1.8817	down	MGC11619 7	NM_0010257 55
A_44_P9771 08	0.0085	1.2125	down		BF554755
A_44_P2504 46	0.0408	1.3007	down	Znf580	XM_218196
A_44_P4407 09	0.0425	1.2047	up		XM_222799
A_44_P6027 24	0.0140	1.1847	up		BF522056
A_43_P2163 9	0.0369	1.1520	down	Plekhg3	XM_234320
A_44_P1019 096	0.0373	1.1333	up	Tmem87b	XM_342515
A_44_P3512 09	0.0205	1.3931	up	Phlda1	NM_017180
A_44_P2881 56	0.0033	1.3723	down	Cbr1	NM_019170

A_44_P4313 58	0.0143	1.7692	up		
A_44_P3839 28	0.0136	1.2018	down	Hacl1	NM_053493
A_44_P2693 16	0.0026	1.4914	down	Rxrg	NM_031765
A_43_P2206 8	0.0033	1.5257	down		XM_221392
A_44_P3341 95	0.0320	1.3084	down	Qars	NM_0010076 24
A_44_P5065 14	0.0432	1.5395	down		BC079387
A_44_P3823 49	0.0074	1.4201	up		XM_228774
A_43_P2331 0	0.0272	1.3844	down	Pitpnm2	NM_0011071 39
A_44_P9291 19	0.0026	1.4433	up		
A_44_P4244 40	0.0011	1.2857	up	LOC291480	XM_225800
A_44_P2814 57	0.0291	1.1510	up	RGD156272 5	XM_575923
A_44_P2727 73	0.0245	2.4261	up		AA956465
A_44_P1020 640	0.0322	1.2871	up	Dus2l	NM_0011061 81
A_43_P1184 0	0.0478	1.9647	up	Xdh	NM_017154
A_44_P6389 01	0.0157	2.0147	down		
A_44_P2898 28	0.0369	1.3134	up		AW915926
A_44_P2391 71	0.0053	1.1997	up	Rpl35a	NM_021264
A_43_P1154 3	0.0294	1.5523	up	Klrd1	NM_012745
A_42_P6865 67	0.0086	1.1344	up		
A_43_P2322 5	0.0280	1.4424	down	Scarf2	NM_0011058 64
A_42_P7044 29	0.0132	1.8368	down	Fgf13	NM_053428
A_42_P5440 41	0.0397	1.2087	down		AW914911



A_43_P1805 1	0.0381	1.3010	down		EV775563
A_44_P5600 38	0.0037	1.2744	up		
A_44_P1014 379	0.0265	1.1066	down	Cdv3	NM_0010140 97
A_43_P1146 0	0.0069	1.4714	down	Cela1	NM_012552
A_44_P7155 24	0.0314	1.4841	up		AY724520
A_44_P5110 79	0.0430	1.3128	up	Snrnp48	NM_0011061 07
A_44_P9745 53	0.0024	1.6375	up		
A_44_P9755 54	0.0249	1.1520	down		
A_44_P3819 17	0.0110	1.9173	down	Sphk1	NM_133386
A_44_P5880 37	0.0259	1.1419	down		BG666601
A_44_P2961 80	0.0223	1.4847	down	Arg2	NM_019168
A_44_P1524 34	0.0055	1.6753	up		
A_43_P1683 1	0.0305	1.1039	up		XM_232055
A_43_P1143 5	0.0149	1.6110	down	Apoc3	NM_012501
A_44_P6967 74	0.0004	2.2756	up	Ptpn12	NM_057115
A_44_P1026 431	0.0226	1.1804	up	Xrn2	NM_0011085 96
A_44_P3520 55	0.0139	1.5167	down		XM_234919
A_42_P4627 11	0.0423	1.1583	down	Use1	NM_0011691 00
A_44_P4801 83	0.0424	1.8307	up		L07406
A_44_P3619 31	0.0072	1.2000	up		CA506982
A_44_P1028 22	0.0378	1.3382	up	Marveld1	NM_0011075 90
A_44_P8990 21	0.0245	1.3553	down		

A_44_P4477 01	0.0467	1.2569	up		
A_44_P1298 40	0.0086	1.6910	down		AW525988
A_44_P7022 58	0.0030	1.3631	up	Eea1	NM_0011080 86
A_44_P2595 21	0.0230	1.3146	up		AA874885
A_44_P7284 52	0.0028	1.9879	up		AY539877
A_44_P2114 40	0.0335	1.2144	down	Araf	NM_022532
A_44_P1285 23	0.0334	1.1735	up	RGD156580 6	XM_0010768 46
A_44_P4389 47	0.0431	1.1639	up		AW535184
A_44_P8215 99	0.0320	1.3340	up	LOC679116	
A_42_P7626 18	0.0287	1.1971	down	Ccs	NM_053425
A_44_P3044 69	0.0060	1.3676	down	Fv1	NM_0010140 18
A_44_P1125 31	0.0061	1.5433	up		
A_44_P9958 74	0.0372	1.1226	down		XM_0027257 89
A_44_P8828 56	0.0237	1.2944	up		
A_44_P5054 72	0.0125	1.4341	up		DV719576
A_44_P1281 95	0.0066	1.8901	down	Ppp1r1b	NM_138521
A_44_P1040 889	0.0402	1.2654	up	Cpsf6	NM_0011067 85
A_44_P1027 758	0.0008	1.4591	up		AW915041
A_44_P9286 69	0.0401	1.2058	up		XM_0010558 64
A_42_P7632 24	0.0456	1.2108	down	Scgb1c1	NM_0011075 61
A_44_P5462 79	0.0305	1.2059	down	Galm	NM_0010077 04
A_44_P8540 11	0.0214	1.3850	down	Ppfia4	NM_080409

A_44_P7733 50	0.0367	1.1870	down		CO386862
A_43_P1327 3	0.0466	1.3055	down	Col5a1	NM_134452
A_43_P1684 7	0.0041	2.0023	down	Spsb1	NM_0011079 94
A_44_P1986 69	0.0076	1.2330	down	LOC500684	NM_0010479 59
A_42_P5438 77	0.0360	1.1040	down	Tlcd1	NM_0010138 58
A_43_P1760 8	0.0028	1.3010	up	Smek2	NM_0011083 67
A_44_P7289 32	0.0344	1.1214	up		
A_44_P1014 700	0.0366	1.3743	down	Cog2	NM_0011104 94
A_42_P6007 96	0.0346	1.2158	down	Ccdc53	NM_0011067 76
A_44_P2321 13	0.0139	1.4889	up		
A_44_P4775 40	0.0459	1.4830	up		AI007905
A_44_P4642 21	0.0019	1.9327	up	RGD156637 3	XM_0010804 46
A_43_P2313 5	0.0443	1.6003	up	Jph1	NM_0011066 30
A_42_P7079 70	0.0124	1.0884	down	Mgat1	NM_030861
A_44_P1534 03	0.0347	1.2816	up		AI575277
A_44_P5223 03	0.0115	1.1318	down	Il11ra1	NM_139116
A_44_P3128 31	0.0005	1.9082	up		AI227667
A_44_P3237 00	0.0152	1.8735	down	Tll1	NM_0011060 81
A_44_P9301 92	0.0215	1.9975	down		
A_44_P2988 46	0.0304	1.2667	up		CR466561
A_44_P3428 21	0.0146	1.7335	down	Cd300lf	NM_0010251 11
A_44_P1025 750	0.0019	1.6106	up	Rchy1	NM_0010076 18

A_44_P1597 76	0.0181	1.3238	up		AI044664
A_44_P8742 58	0.0234	1.1994	down		CR466498
A_44_P5751 32	0.0380	1.4765	up		
A_44_P4086 79	0.0299	1.1450	down	Ssx2ip	NM_175597
A_44_P2675 29	0.0099	1.1682	up	Terf1	NM_0010124 64
A_44_P3427 56	0.0028	1.5994	up		
A_44_P8546 89	0.0382	1.2702	up	Ldlrap1	NM_0011092 71
A_43_P1651 5	0.0476	2.1068	down		XM_215130
A_44_P5171 80	0.0098	1.1029	down		BC158826
A_44_P8342 69	0.0367	1.6945	up		XR_085594
A_44_P1849 09	0.0362	1.3345	up		
A_44_P9789 73	0.0164	1.6202	up		
A_44_P3561 61	0.0301	1.4036	down	Ppy	NM_012626
A_44_P4747 55	0.0217	1.0802	down	Ctsa	NM_0010119 59
A_43_P2146 4	0.0118	1.2382	down	Atg4c	NM_0011079 48
A_44_P2769 90	0.0095	1.2946	down	Eepd1	NM_0010140 88
A_44_P6948 72	0.0416	1.1655	up	Fubp1	NM_0010376 53
A_44_P4599 04	0.0493	1.3070	down		BQ779840
A_44_P6803 69	0.0174	1.3200	up		BF545930
A_44_P2996 99	0.0494	1.2405	down	Tmem135	NM_0010138 96
A_44_P1046 205	0.0012	1.7366	up		NM_0011066 63
A_44_P4552 06	0.0246	1.4219	up	RGD156111 8	XM_220759

A_43_P1294 0	0.0143	1.2443	up	Bak1	NM_053812
A_44_P5600 36	0.0013	1.5204	up		
A_44_P3679 52	0.0448	1.2644	down		XM_223390
A_44_P3082 82	0.0344	1.1868	up		AA817787
A_44_P4548 82	0.0372	1.5079	up		
A_44_P1008 329	0.0031	1.1396	up	Fgfr1op2	NM_201421
A_44_P2342 57	0.0010	1.5703	up	LOC291686	XM_0027253 24
A_44_P1019 245	0.0077	1.2177	up	Zmat3	NM_022548
A_44_P2680 18	0.0386	1.2678	up		BF543500
A_44_P4428 13	0.0208	1.7693	down	Cxadr	NM_053570
A_44_P2748 15	0.0303	1.1361	down	Wsb1	NM_0010256 64
A_44_P1028 45	0.0476	1.1490	up	Ube2v1	NM_0011103 45
A_44_P4998 51	0.0495	1.2487	down	Safb	NM_022394
A_44_P2817 88	0.0216	1.4845	up		BQ196033
A_44_P7759 10	0.0319	1.4180	down	Dppa3	NM_0010478 64
A_44_P1356 41	0.0226	1.4244	down	Rapsn	NM_0011085 84
A_44_P4658 95	0.0484	1.1776	down	Atp6v1f	NM_053884
A_44_P5552 61	0.0281	1.3534	down	Aldh6a1	NM_031057
A_44_P1120 43	0.0214	1.1274	down	Iscu	NM_0011059 36
A_44_P7907 67	0.0173	1.2077	up		
A_44_P2818 33	0.0441	1.2654	up		AA924101
A_43_P2345 9	0.0218	1.4846	up		XM_235679

A_44_P5052 68	0.0047	1.4675	up		AI044343
A_44_P4293 54	0.0023	1.7984	up		
A_44_P3188 83	0.0345	1.1732	up	RGD156064 8	XM_344518
A_43_P2112 2	0.0018	1.2860	down	Syt12	NM_0011084 92
A_44_P2607 40	0.0167	1.3410	down	Cbr3	NM_0011071 10
A_44_P9153 44	0.0163	2.6233	down	Emx2	NM_0011091 69
A_43_P1837 4	0.0257	1.3071	down	Plek2	NM_0011141 80
A_44_P8560 07	0.0153	1.1734	up	Iqgap1	NM_0011084 89
A_44_P2166 12	0.0172	1.5485	up		AW915235
A_44_P2424 99	0.0466	1.3943	up		BE118080
A_44_P2499 90	0.0236	1.3693	down	Mal2	NM_198786
A_42_P6485 97	0.0299	1.1291	down	Kat5	NM_0010058 72
A_44_P4411 95	0.0463	1.4127	down	Acad11	NM_0011081 81
A_44_P1734 78	0.0022	1.3818	up		XM_343002
A_44_P2530 87	0.0081	1.2172	down	Sh3glb2	NM_0010096 92
A_44_P3432 67	0.0374	1.2814	up		XM_0027250 29
A_44_P2350 28	0.0477	1.4445	down		AI101484
A_44_P2260 29	0.0194	1.1515	up	Rbmxrt1	NM_0011074 20
A_44_P3203 56	0.0199	1.1599	down		AW921307
A_44_P3873 08	0.0458	1.1978	down	Adamtsl4	NM_0010340 12
A_44_P5065 68	0.0011	1.5507	up		XM_234253
A_44_P2228 55	0.0057	1.4120	up		

A_44_P4160 87	0.0086	1.1201	down		AY053517
A_44_P9701 10	0.0196	1.3643	up		AW253396
A_44_P4641 19	0.0038	1.6261	up		
A_44_P8860 03	0.0335	1.2668	down		
A_44_P4564 79	0.0028	1.6707	down	Col23a1	NM_181636
A_44_P1378 02	0.0104	1.0942	down	Smpd1	NM_0010069 97
A_44_P9964 23	0.0373	1.1056	up	Zufsp	NM_0010083 08
A_44_P4872 69	0.0196	4.3012	up		BC092584
A_42_P4985 06	0.0236	1.3449	up		BE103448
A_44_P8456 25	0.0255	1.5294	up		
A_44_P6843 40	0.0390	1.3853	down		AA875314
A_44_P2853 28	0.0116	1.2211	up		AI177160
A_44_P8253 11	0.0205	1.3365	up		
A_43_P2213 6	0.0262	1.1614	down	RGD130680 9	NM_0010442 52
A_44_P7432 48	0.0076	1.5122	up		AI599340
A_44_P3327 02	0.0474	1.3379	up	Inhbb	NM_080771
A_44_P8063 69	0.0104	1.5077	up		
A_44_P7759 82	0.0411	1.1489	down	Armc9	NM_0011096 63
A_44_P2358 15	0.0250	1.2031	up	Clns1a	NM_031719
A_44_P4636 91	0.0146	1.6218	up	Gpr3	NM_153727
A_44_P2101 78	0.0161	1.2161	up	Carhsp1	NM_152790
A_44_P3746 18	0.0482	1.2394	down	Cdkn1c	NM_182735

A_44_P2346 55	0.0016	1.5512	up		AA957960
A_43_P1073 5	0.0496	1.2306	down	Fbxo21	NM_0011083 38
A_44_P5789 99	0.0049	1.7997	up		
A_44_P2061 15	0.0056	1.7985	up	RGD155996 3	XM_0010619 07
A_44_P2379 38	0.0160	1.2229	up	Vps36	NM_0011060 92
A_44_P1474 70	0.0076	1.2075	down		
A_42_P6732 12	0.0310	1.1249	down	Cad	NM_0011057 10
A_44_P2377 39	0.0334	1.5042	down	Lsr	NM_032616
A_44_P4611 87	0.0403	1.3008	down	St3gal4	NM_203337
A_44_P2990 86	0.0468	1.2406	up		AI112947
A_42_P6644 59	0.0181	1.2486	up		BQ202863
A_44_P2881 53	0.0434	1.1891	down	Cbr1	NM_019170
A_44_P2156 98	0.0360	1.1113	up		
A_44_P1383 75	0.0045	1.4552	up		AA858930
A_44_P7003 90	0.0360	1.1870	down		
A_44_P2926 34	0.0157	1.2691	down	Fth1	NM_012848
A_44_P5557 03	0.0443	1.2371	down		XM_347122
A_44_P8683 35	0.0126	1.3104	up		
A_44_P4355 96	0.0259	1.5000	up	Zfp36	NM_133290
A_44_P5579 79	0.0176	1.5329	down	Ubap1	NM_0010121 90
A_44_P3753 80	0.0480	1.1597	down		XM_0010541 56
A_43_P1905 9	0.0177	1.2364	up	Noc31	NM_0011085 23



A_44_P1204 25	0.0385	1.7919	up		AI230862
A_43_P1734 4	0.0421	1.2223	down		XM_232252
A_44_P2534 79	0.0480	1.3981	down	Tmem98	NM_0010076 72
A_44_P1681 84	0.0307	1.3038	up	Rasl2-9	NM_0011666 75
A_42_P4593 49	0.0404	1.2674	down	Sgk493	NM_0011080 07
A_43_P1224 3	0.0249	1.1504	down	Prdx3	NM_022540
A_44_P4440 10	0.0159	1.2439	down		BQ779937
A_44_P8073 94	0.0297	1.1240	up		
A_44_P6962 27	0.0048	1.5942	up		AA997189
A_43_P2097 0	0.0107	1.2562	down		BC088292
A_44_P8508 02	0.0409	3.6058	down		AA945994
A_44_P5394 44	0.0417	1.2673	down		AA997385
A_44_P1164 49	0.0140	1.1980	up	Rala	NM_031093
A_44_P7928 45	0.0393	1.4361	up		
A_44_P2345 00	0.0086	1.3883	up		XR_006077
A_44_P5155 93	0.0038	1.6468	up		XM_344148
A_44_P5909 06	0.0192	1.7634	up	Klri2	NM_0010126 48
A_44_P4809 54	0.0245	1.3042	down	Abhd15	NM_0011070 25
A_44_P3265 23	0.0228	1.3721	down	Smpd4	NM_0011678 06
A_44_P1036 339	0.0180	1.2026	up	LOC689842	XR_006738
A_44_P1461 23	0.0380	1.1134	down		AA892855
A_44_P5072 74	0.0224	1.1416	up	Dars	BC072534

A_44_P4589 87	0.0004	1.7045	up		AY325145
A_44_P5134 28	0.0415	1.2089	down	Polr3c	NM_0010120 81
A_44_P1610 52	0.0227	1.4845	down	RGD156237 3	NM_0010400 19
A_44_P5719 78	0.0069	1.6317	up		BE110761
A_44_P3638 24	0.0339	1.2320	down	Brd1	NM_0011081 03
A_44_P1048 967	0.0178	1.1655	up		AI112633
A_44_P6026 63	0.0149	1.4671	up		BP478914
A_44_P1056 80	0.0006	1.2190	down	Znf496	XM_220512
A_44_P1005 65	0.0328	1.1467	up		
A_44_P4804 55	0.0139	1.3036	down	Efs	NM_0011060 33
A_44_P1830 07	0.0012	1.5339	up		
A_44_P7601 24	0.0067	1.6157	up		
A_44_P5428 66	0.0275	1.3145	up		BQ198871
A_44_P3542 29	0.0145	1.3903	up		XM_228535
A_44_P3047 59	0.0037	2.0221	up		
A_44_P1014 955	0.0132	1.2478	up	Psph	NM_0010096 79
A_44_P4779 03	0.0075	1.2089	down	Apbb3	NM_053957
A_42_P7085 69	0.0339	1.1271	up	Ube3a	XM_341867
A_44_P8143 86	0.0158	1.5290	up		
A_44_P1033 595	0.0236	1.3600	down	Atl3	NM_0010442 41
A_44_P5144 58	0.0105	1.3990	up		AI178246
A_44_P1465 52	0.0249	1.2302	up		AA964921

A_44_P3399 36	0.0356	1.2949	down	Xpr1	NM_0011059 92
A_44_P1071 84	0.0228	1.1976	down	Rbbp9	NM_019219
A_42_P6228 78	0.0217	1.1670	down	Entpd4	NM_0011083 84
A_44_P3299 74	0.0361	1.1308	up		BF282674
A_44_P3648 59	0.0131	1.7026	down	Lypd2	CB547501
A_44_P5231 12	0.0359	1.1257	down	RGD130614 8	XM_232937
A_44_P5399 17	0.0197	1.2892	up		AA925597
A_44_P2197 80	0.0242	1.2270	up	Surf2	NM_0010338 66
A_42_P6680 42	0.0244	1.1145	down	Zwint	NM_147138
A_44_P1595 86	0.0444	1.2977	up		BF565379
A_44_P1159 05	0.0058	1.3643	up		DV719302
A_44_P4225 38	0.0092	1.4622	up		AI574779
A_42_P4937 85	0.0003	1.1829	up	Cdk2ap1	NM_0011137 51
A_44_P8976 20	0.0262	1.1983	up		BQ781487
A_42_P7551 33	0.0162	1.3080	down		XM_0010788 82
A_44_P3601 26	0.0050	1.9086	up		BE096754
A_44_P3609 46	0.0383	1.1022	up		
A_44_P5928 30	0.0067	1.4161	up		
A_44_P1054 967	0.0109	1.1462	up	Sirt7	NM_0011070 73
A_43_P1738 7	0.0059	1.2842	down		BC158841
A_44_P5081 62	0.0226	1.1714	down	Adamts5	NM_198761
A_44_P1062 48	0.0093	1.2892	up		M95791

A_44_P2156 89	0.0109	2.2797	down	LOC686934	XM_343744
A_43_P1498 5	0.0314	1.0551	up	Rpl19	NM_031103
A_44_P3287 58	0.0011	1.5959	down	Acpl2	NM_0010077 10
A_44_P4512 25	0.0099	1.4645	up		BE115943
A_44_P4341 09	0.0091	1.5941	up	Hes7	NM_0011057 92
A_43_P2311 6	0.0378	1.2535	down	Pdss2	NM_0010142 49
A_44_P5755 59	0.0032	1.9658	up		
A_44_P7149 86	0.0472	1.2735	down		CK478004
A_44_P7757 47	0.0186	1.2430	up		XM_0010588 85
A_44_P1035 872	0.0150	1.2310	up	Mtrf11	NM_0010257 23
A_43_P1659 1	0.0263	1.3443	down	Oxct1	NM_0011275 80
A_44_P1577 21	0.0269	1.5813	up		Y00054
A_44_P4144 69	0.0129	1.4050	up	Hadha	NM_130826
A_44_P6066 97	0.0371	1.1199	up	Coro1c	NM_0011093 27
A_43_P2011 8	0.0376	1.2390	down	Suclg2	NM_0011007 50
A_44_P2602 85	0.0029	1.2976	up		XM_344449
A_43_P1122 1	0.0307	1.0982	down	Afg3l2	NM_0011348 64
A_44_P4875 32	0.0064	1.4399	down	Tmem56	NM_0011358 79
A_43_P1566 5	0.0208	1.2452	down	Bckdha	NM_012782
A_44_P9963 92	0.0396	1.1788	up	Trdmt1	NM_0010316 43
A_43_P1978 5	0.0487	1.1928	down		CV080010
A_44_P4290 92	0.0470	1.2101	down	Sap130	XM_226078

A_44_P1758 37	0.0301	1.2377	down		XM_229646
A_44_P6893 95	0.0495	2.0240	down	Cox8b	AI103885
A_44_P4820 88	0.0301	1.3417	up		AI599589
A_44_P5620 01	0.0340	1.8360	up		XM_0027254 84
A_44_P2518 97	0.0200	1.1898	up		AI010087
A_44_P4010 83	0.0322	1.3282	down	Abhd14b	NM_0010076 64
A_44_P7375 31	0.0112	1.5625	up		
A_44_P4850 98	0.0463	1.1807	down		XM_342013
A_44_P8886 44	0.0259	1.5939	up		
A_44_P5906 71	0.0143	1.4045	up		
A_44_P1495 63	0.0193	1.5802	down	Znf646	XM_219364
A_44_P2110 28	0.0007	1.9733	up		
A_44_P6668 72	0.0347	1.2684	down		AI044127
A_44_P3239 51	0.0470	1.6469	down		XM_346161
A_44_P3475 67	0.0101	1.5196	up		AA819537
A_44_P3424 16	0.0003	1.6206	up		XM_344565
A_44_P1194 53	0.0436	1.1641	down	LOC683719	XM_0010671 87
A_44_P4459 53	0.0489	1.6026	up	Fbl11	NM_0011088 24
A_44_P5417 30	0.0395	1.3571	up		BG371738
A_44_P6231 49	0.0005	1.3450	up		
A_44_P3952 49	0.0409	1.3150	down		AI236635
A_44_P9289 69	0.0411	1.3207	up		

A_44_P4513 92	0.0406	1.1757	up	Fbxo33	NM_0011080 23
A_43_P1413 1	0.0244	1.3434	up	Rgs2	AF279918
A_44_P1004 840	0.0397	1.2755	up	Tnfsf9	NM_181384
A_44_P8101 90	0.0334	1.2299	up		XM_0010765 94
A_44_P3084 79	0.0127	1.5125	up		AA997228
A_44_P8526 03	0.0062	1.5226	up		
A_44_P3997 95	0.0171	1.4253	up		BF281201
A_44_P1386 89	0.0015	1.6962	up		AA957167
A_42_P7704 58	0.0006	1.1307	down	Exoc2	NM_134414
A_43_P2255 6	0.0384	1.5270	down	Cidea	NM_0011704 67
A_42_P4785 00	0.0115	1.1874	down	Slc22a17	NM_177421
A_44_P4575 58	0.0091	2.0012	down		AI144777
A_43_P2132 9	0.0231	1.3137	down	Fam117b	NM_0011087 97
A_44_P7447 65	0.0018	1.4098	up		
A_44_P3913 82	0.0233	1.5849	up		
A_44_P7930 08	0.0279	1.6453	up		
A_44_P3742 12	0.0029	1.2397	up		BF285164
A_44_P5265 76	0.0390	1.4372	up		BF283652
A_44_P8539 91	0.0049	1.5474	up		
A_44_P3495 53	0.0205	1.2208	down	Col6a1	XM_215375
A_44_P1020 780	0.0199	1.2785	down	Tmc4	NM_0010341 04
A_44_P2179 67	0.0113	1.5832	up		

A_44_P4874 92	0.0084	1.2291	down		XM_344494
A_44_P3001 83	0.0206	1.2337	down	Slc48a1	NM_0011274 56
A_44_P1767 98	0.0450	1.2656	up		AA892313
A_44_P3671 43	0.0205	1.2048	up		AA818023
A_44_P9189 39	0.0003	2.2062	up		
A_44_P1073 30	0.0428	1.2723	down	LOC246295	NM_145082
A_43_P1796 4	0.0330	1.2155	up	Arcn1	NM_0010076 62
A_44_P4575 78	0.0211	1.3513	up		AA858732
A_43_P1826 8	0.0260	1.1850	down		CF110390
A_44_P8984 12	0.0037	1.9414	up		
A_44_P1038 773	0.0384	1.3914	up	Gpx7	NM_0011066 73
A_44_P2708 12	0.0031	1.3803	up	Tmem189	NM_0011137 52
A_44_P3788 74	0.0318	1.4659	up		BQ205721
A_44_P2081 57	0.0246	1.2729	down	Dnajc5	NM_024161
A_44_P5587 84	0.0279	1.2465	up		AW918767
A_42_P6716 01	0.0220	1.1239	up	Pigl	D88364
A_44_P2358 48	0.0171	1.3461	up		AI179535
A_44_P2192 50	0.0312	1.2234	up		AI411280
A_44_P1013 405	0.0222	1.2127	down	Acy3	NM_0010096 03
A_44_P9749 94	0.0083	1.5358	up		
A_44_P5386 02	0.0231	1.0940	up	Copb2	NM_021765
A_44_P3891 56	0.0015	2.2068	down	Ankrd56	XM_0010706 24

A_44_P1058 31	0.0125	1.4664	up	Clic4	NM_031818
A_44_P7475 45	0.0150	1.2531	down	Xpr1	BC161992
A_44_P8649 23	0.0222	1.3857	down		AW916836
A_44_P3414 56	0.0022	1.4935	up	Peli1	NM_0011005 65
A_44_P1003 372	0.0454	1.1527	down	Smpdl3a	NM_0010055 39
A_44_P1079 96	0.0169	1.6495	up	LOC367050	XM_0027270 20
A_44_P9510 89	0.0443	1.2848	up		
A_44_P3446 64	0.0429	1.5021	down	RGD130992 2	NM_0011704 72
A_44_P4141 12	0.0387	1.2774	up		AA900619
A_44_P8358 67	0.0410	1.1919	down		AW142828
A_44_P3917 06	0.0408	1.1968	down	Abcb8	NM_0010077 96
A_44_P4157 76	0.0282	1.5807	up		AA819759
A_44_P2297 69	0.0282	1.1246	down	Rps2	NM_031838
A_44_P1052 868	0.0330	1.2989	up	Syne1	AF452647
A_44_P3587 12	0.0078	1.4206	up		
A_44_P1007 449	0.0058	1.4711	down	RGD131015 9	NM_0011345 37
A_44_P5066 73	0.0041	1.6714	up		XM_220196
A_43_P1544 4	0.0064	1.3304	down	Smo	NM_012807
A_44_P9953 73	0.0090	1.1302	up	LOC682888	BP485722
A_44_P1077 73	0.0224	1.2860	up	RGD156081 5	XM_0010648 17
A_44_P3447 77	0.0032	1.3668	up		XM_230014
A_44_P8541 81	0.0059	1.4279	up		



A_42_P814081	0.0318	1.2036	up		EV768991
A_44_P426788	0.0105	1.3529	down	Pmepa1	NM_001107807
A_44_P468902	0.0311	1.6499	down		XM_226288
A_44_P385014	0.0003	2.7930	up	Atad2	NM_001134879
A_44_P464656	0.0119	1.3006	up		BF282271
A_44_P243153	0.0473	1.1389	down	Ncoa6	AF176351
A_44_P120669	0.0176	1.1411	up		AI511097
A_44_P197786	0.0389	1.3644	up		AA944397
A_44_P530424	0.0462	1.2170	down	N-pac	BC085931
A_44_P914096	0.0012	1.7171	up	RGD1560017	XM_342480
A_44_P556531	0.0026	1.4779	down	Emilin1	NM_001106710
A_44_P562860	0.0406	1.3523	down		
A_44_P929051	0.0062	1.8113	up		
A_44_P868863	0.0275	1.2106	down		
A_44_P354844	0.0158	1.1165	down	Thap11	NM_001107422
A_44_P880152	0.0019	1.9929	up	Nfyb	NM_031553
A_44_P307952	0.0341	1.3807	down		AI104089
A_44_P1008094	0.0234	1.2425	up	Exosc7	NM_001100725
A_44_P683994	0.0045	1.2194	up		
A_43_P16784	0.0052	1.1627	down	Med25	NM_001170426
A_43_P10230	0.0275	1.3073	down		XM_217630
A_43_P17175	0.0486	1.2850	down	Serpina1a	NM_001031642

A_44_P1057 707	0.0290	1.1241	up	Pno1	NM_199083
A_44_P1470 55	0.0260	1.7313	down	Gjb1	NM_017251
A_44_P4605 96	0.0404	1.2164	up		AI230748
A_44_P8558 08	0.0112	1.4368	up		
A_44_P7605 99	0.0116	1.2560	down	Tc2n	NM_0010251 52
A_42_P4954 28	0.0279	1.1888	up	Mlec	NM_0010139 83
A_44_P1015 839	0.0323	1.4643	down	RGD156344 0	NM_0011009 65
A_44_P3978 75	0.0298	1.3168	up	Khsrp	NM_133602
A_44_P8803 38	0.0429	1.3173	up		BE111926
A_44_P4279 96	0.0322	1.2579	up		AI408945
A_44_P3601 95	0.0261	1.2329	up		AA901338
A_44_P1050 728	0.0029	1.0963	up		AY724482
A_44_P1020 219	0.0005	1.4736	down	Rundc1	XM_0010814 65
A_44_P5387 89	0.0102	1.9328	up		XM_222813
A_44_P2293 76	0.0052	1.2175	up	Sdad1	NM_0010069 58
A_44_P1071 497	0.0238	1.2335	up		AI232289
A_43_P1954 6	0.0455	1.2016	up	Zc3h13	NM_0011704 71
A_44_P4505 00	0.0008	1.5736	up	LOC301231	
A_44_P5579 34	0.0078	1.4835	down	Thnsl2	NM_0010096 58
A_44_P1426 52	0.0433	1.1497	down	Pcgf1	NM_0010070 00
A_44_P5205 35	0.0258	1.1926	down	Pkp4	NM_0011064 82
A_44_P5688 05	0.0106	1.3845	up		CO556520

A_44_P1003 212	0.0345	1.1447	down	Igf2r	NM_012756
A_44_P1401 64	0.0001	1.5425	up		XM_219771
A_43_P2041 2	0.0451	1.2989	down	Arsg	NM_0010478 77
A_44_P3169 59	0.0254	1.4123	up		AI112954
A_42_P6641 21	0.0273	1.5749	up	Adora2a	NM_053294
A_44_P3745 86	0.0051	1.2222	down	Cyb5a	NM_022245
A_44_P2575 28	0.0478	1.1825	up	LOC287010	AF053093
A_42_P5470 27	0.0341	1.1211	down	Fuca2	NM_0010042 18
A_42_P4811 76	0.0086	1.1909	down	Scamp4	NM_031725
A_44_P1987 46	0.0369	1.5310	down	P2rx3	NM_031075
A_44_P2965 61	0.0289	1.2537	up		BG668164
A_44_P1007 689	0.0007	1.9072	up	RGD156395 2	NM_0011345 88
A_44_P2447 04	0.0053	1.6317	up		AW920988
A_44_P3876 80	0.0201	1.1475	up		BC098052
A_44_P5437 33	0.0040	2.0544	up		
A_44_P2194 14	0.0093	1.5642	up		BI297513
A_42_P8013 79	0.0433	1.1128	down	Fgfr11	NM_199114
A_44_P2006 47	0.0479	1.3686	up	Hmgb2	NM_017187
A_44_P1239 54	0.0136	1.3839	down		XM_226181
A_44_P9996 30	0.0178	1.1109	up	Cdc16	NM_0010247 44
A_42_P6982 40	0.0405	1.1960	down	Ptgr1	NM_138863
A_44_P9652 29	0.0397	1.2498	down		

A_44_P1458 91	0.0067	1.7113	up	Armex1	NM_0010243 67
A_44_P1035 720	0.0121	1.3151	up	Kin	NM_0011095 29
A_44_P3235 91	0.0201	1.1489	down	Ctr9	NM_0011006 61
A_44_P3282 83	0.0116	1.3813	down	Mtmr15	XM_219706
A_44_P2536 74	0.0169	1.2499	down		CB585046
A_43_P1011 8	0.0302	1.2096	down		FM074451
A_42_P6182 74	0.0053	1.2431	up	Tm9sf1	NM_0010121 55
A_44_P1910 21	0.0426	1.4939	down	Phyh	NM_053674
A_44_P1037 817	0.0190	1.1969	up	Lman2	NM_0011150 24
A_44_P8770 59	0.0249	1.2918	down	Ttpal	NM_0011065 37
A_44_P2316 57	0.0084	1.1309	down		XM_0027255 19
A_44_P5571 99	0.0210	1.3041	down	Mlycd	NM_053477
A_44_P4338 65	0.0237	1.1853	down	Xpc	NM_0011078 74
A_44_P5106 75	0.0252	1.8219	up	Il12rb1	NM_0011706 04
A_44_P6802 63	0.0254	1.2545	down		AW916515
A_44_P4897 82	0.0008	1.3392	up		XM_212905
A_44_P9599 60	0.0277	1.1786	up	Cdc42se2	NM_0011260 89
A_44_P4548 61	0.0093	2.1147	up		
A_44_P3045 21	0.0262	1.2361	down	Pacrgl	XM_341225
A_43_P1276 1	0.0290	1.1936	up	Atp2b1	NM_053311
A_44_P9201 20	0.0285	1.2766	down	Sorbs1	XM_0010665 36
A_44_P2125 51	0.0317	1.5635	up	Ccl4	NM_053858

A_43_P1381 2	0.0436	1.1422	down	Snx18	NM_0011076 52
A_42_P6242 51	0.0393	1.3099	up	Edc4	NM_0010330 68
A_44_P8559 45	0.0380	1.2112	up		
A_44_P4386 13	0.0144	1.4067	down	Aifm2	NM_0011394 83
A_44_P5061 86	0.0176	1.4553	up	N4bp2	XM_223405
A_44_P9271 61	0.0397	1.2822	up		AA946081
A_44_P3141 22	0.0433	1.8132	up		XM_212821
A_44_P1038 397	0.0176	1.2362	up		DV727624
A_44_P1362 32	0.0411	1.5881	up		BC110055
A_44_P2126 76	0.0376	1.5980	down	Crat	NM_0010040 85
A_43_P1955 4	0.0016	1.5431	down	Unk	NM_0011083 06
A_44_P2755 91	0.0011	1.2223	up		AW433647
A_43_P1988 9	0.0427	1.2966	down	Angptl6	NM_0011067 02
A_44_P1053 383	0.0011	1.2457	up	Rab7a	NM_023950
A_43_P1122 6	0.0303	1.2236	up	Map4k4	NM_0011069 04
A_44_P6788 14	0.0185	1.2977	up		AW142445
A_44_P7203 54	0.0364	1.7686	down		AI010615
A_44_P1031 483	0.0350	1.1769	up		XM_0010773 82
A_44_P2638 50	0.0428	1.3441	up		AI176621
A_44_P1050 595	0.0120	1.3642	down	Cela1	V01234
A_44_P5503 78	0.0307	1.3087	down	Ppp4c	NM_134359
A_42_P4603 40	0.0383	1.1875	down	Mal2	NM_198786

A_42_P4733 89	0.0496	1.1368	down	Bmyc	NM_0010131 63
A_44_P1440 01	0.0230	1.1607	down	Pam	NM_013000
A_44_P3879 50	0.0059	1.4531	up		AA858950
A_44_P4833 34	0.0021	1.0893	down	Lrrc47	NM_0011356 66
A_43_P1140 5	0.0141	1.3588	down		XR_085908
A_44_P6091 10	0.0059	1.5605	up		
A_44_P2578 98	0.0386	1.4309	up	Rreb1	NM_0011073 48
A_44_P8391 76	0.0087	1.4629	up	Usp25	NM_0011071 14
A_43_P1769 9	0.0108	1.2577	down	Fbx15	NM_0011072 22
A_44_P5576 34	0.0408	1.2069	down	Znf710	NM_0011345 63
A_44_P3671 94	0.0318	1.1452	up		AI111877
A_44_P5623 50	0.0476	1.5407	up		
A_44_P2036 40	0.0472	1.4631	down	Klhl25	NM_0010390 06
A_44_P1952 67	0.0447	1.3790	up		BF391710
A_44_P4690 69	0.0378	1.3225	down	Mapk8ip3	NM_0011006 73
A_44_P3823 72	0.0432	1.2410	up		
A_44_P4104 55	0.0484	1.2414	up	Wdr48	NM_0011358 95
A_44_P6851 39	0.0403	1.2872	down		XM_0010793 86
A_42_P8372 14	0.0158	1.1894	up	Mgmt	NM_012861
A_43_P1999 9	0.0125	6.9728	up	Fcrls	NM_0011077 02
A_44_P4366 28	0.0009	1.3719	up		AI176323
A_44_P6410 58	0.0263	1.3283	up	Rbpj	NM_0011066 31

A_44_P5368 32	0.0304	1.2707	up	Dennd2a	XM_231654
A_44_P2626 25	0.0238	1.3731	up		XM_344424
A_42_P6981 88	0.0072	1.2555	down		U68726
A_44_P3359 74	0.0426	2.0995	down	Aldh1a7	NM_017272
A_44_P4526 00	0.0195	1.6037	down	LOC691083	NM_0011448 62
A_44_P3326 74	0.0172	1.6608	down	Myh13	AF075250
A_44_P2198 54	0.0260	1.2812	up	Ncoa3	AF322224
A_43_P2221 0	0.0341	1.2117	down	Znf644	NM_0011394 84
A_44_P1467 03	0.0035	1.2510	down	Pccb	NM_017030
A_44_P2400 88	0.0374	1.2786	up		AI175366
A_44_P4432 28	0.0007	1.2384	down	Fech	NM_0011084 34
A_44_P3100 48	0.0089	1.2055	up	LOC682097	BC088309
A_44_P2841 69	0.0117	1.7366	up		
A_44_P8217 88	0.0463	1.9061	up		
A_44_P2129 85	0.0003	1.3133	down		EV770136
A_44_P1037 796	0.0092	1.0934	down	Arfgap1	BC070895
A_44_P5073 82	0.0442	1.1295	up		BI294894
A_44_P5608 41	0.0381	1.2378	up		
A_44_P4131 64	0.0019	1.3728	up		CB548260
A_44_P5271 85	0.0392	1.2333	down	Gtf3c1	NM_133541
A_42_P5210 06	0.0226	1.1902	down		AF329824
A_43_P1580 3	0.0291	1.4492	up		Z27105

A_43_P12519	0.0416	1.2060	up	S100a10	NM_031114
A_44_P425355	0.0268	1.3886	up		AA850598
A_44_P704181	0.0171	1.5282	up	Pigg	XM_223731
A_44_P365663	0.0004	1.6440	down		
A_44_P267106	0.0347	1.0521	up	LOC499782	NM_001109198
A_44_P910739	0.0288	1.1610	up		DY472814
A_44_P323955	0.0162	1.3962	up		
A_44_P508264	0.0131	1.2162	up	Cdkn1b	NM_031762
A_44_P731013	0.0310	1.1169	down		
A_44_P669345	0.0447	1.3073	down	Hdac8	NM_001126373
A_44_P548299	0.0281	1.3395	down	Thumpd1	NM_001009688
A_44_P148708	0.0486	1.1017	up		XM_001058768
A_44_P374247	0.0150	1.7293	down		BF395647
A_43_P17238	0.0214	1.2668	down	Rnd2	NM_001010953
A_44_P147106	0.0023	1.2670	up		XM_218374
A_42_P499767	0.0039	2.0343	down	Padi2	NM_017226
A_44_P194803	0.0241	1.2532	down	Baalc	NM_144762
A_43_P19496	0.0094	1.4568	down	Tmem151a	XM_219694
A_44_P379903	0.0016	1.4712	up		XM_224509
A_44_P336520	0.0300	1.2162	down		AI235811
A_44_P249092	0.0215	1.1965	down	Ggex	NM_031756
A_44_P821839	0.0033	1.1112	up		



A_44_P132184	0.0249	1.0756	down		BF290460
A_44_P492914	0.0237	1.1830	down		BF550034
A_43_P22590	0.0314	1.3579	down		XM_215841
A_44_P194637	0.0297	1.4824	down		CB703999
A_44_P890506	0.0040	1.4902	up		
A_44_P760452	0.0450	1.4018	down	Ccdc126	NM_001109232
A_44_P872615	0.0105	1.8975	up		
A_44_P246947	0.0424	1.4085	down	Slc25a4	NM_053515
A_44_P1033684	0.0075	1.5576	up	Prpf4b	NM_001011923
A_44_P113132	0.0198	1.1617	up		AA899907
A_44_P365462	0.0265	1.2021	down	Cacna1d	NM_017298
A_43_P15117	0.0286	1.3832	up		BF556558
A_44_P547185	0.0246	2.0330	down	Igfbp2	NM_013122
A_42_P456939	0.0321	1.1942	up	Slc35b4	NM_001106590
A_43_P17005	0.0277	1.3125	down	Hsd12	NM_001025697
A_44_P189893	0.0061	1.6999	down	LOC679262	XR_007339
A_44_P166046	0.0449	1.3864	down	Dak	NM_001039031
A_44_P330847	0.0255	1.8756	down		XM_001062130
A_44_P140532	0.0243	1.4004	up		
A_44_P476107	0.0426	1.2770	down		XM_217278
A_44_P294103	0.0088	1.5306	up		BI296804
A_44_P153617	0.0305	1.2340	up		BI295291

A_44_P602689	0.0018	1.2233	down		AW917134
A_43_P16992	0.0268	1.2890	down	Auh	NM_001108407
A_44_P998060	0.0028	1.7600	up	Mobkl3	NM_133528
A_44_P340570	0.0114	1.1941	up		AA925833
A_44_P296370	0.0051	2.6562	up		CO387735
A_43_P12510	0.0040	1.3673	down	Rab3b	NM_031091
A_44_P590268	0.0313	1.2420	down	LOC497940	NM_001017476
A_44_P590999	0.0147	1.2694	down	Tc2n	NM_001025152
A_44_P499759	0.0392	1.3021	down	Mto1	NM_001106841
A_44_P480208	0.0411	1.0917	down	Rps3	NM_001009239
A_44_P375125	0.0348	1.8193	down	Trpm5	XM_344979
A_43_P14444	0.0490	1.1620	down		BC091425
A_44_P164120	0.0160	1.3205	down	Gtf3c3	NM_001108239
A_42_P633709	0.0239	1.3712	down	Plk5	NM_001170557
A_42_P566906	0.0076	1.1781	down	Peci	NM_001006966
A_44_P294467	0.0163	1.2644	down	Paxip1	NM_001107844
A_44_P266119	0.0310	2.1527	up		AI176265
A_44_P444674	0.0424	1.3350	up		BF395964
A_44_P841775	0.0328	1.6287	up		
A_44_P176169	0.0125	1.1767	up		BI292019
A_42_P612220	0.0264	1.0961	down		AF220455
A_44_P500431	0.0104	1.1333	down	Lman1	NM_053886

A_43_P1641 5	0.0297	1.3085	down	Ndufv1	NM_0010069 72
A_44_P1057 211	0.0147	1.6507	down		BC162059
A_43_P1694 2	0.0016	1.5453	up		CB546044
A_44_P1009 656	0.0037	1.3154	down	RGD131190 6	NM_0011646 56
A_44_P1058 179	0.0426	1.4823	up		
A_44_P1958 16	0.0214	1.2480	up		BM986566
A_44_P1862 25	0.0334	1.2793	up		AI228076
A_44_P1082 17	0.0366	1.2577	down		XM_0010592 15
A_44_P3890 34	0.0143	1.4646	down	Trp53inp2	AJ297794
A_43_P2094 3	0.0133	1.3355	down		CB546260
A_44_P4331 47	0.0118	1.7872	down	Gnat3	NM_173139
A_44_P4825 43	0.0066	1.4681	up		L20996
A_44_P1840 57	0.0092	1.2330	up		BE116843
A_43_P2072 9	0.0092	1.2426	down	Bat2	NM_212462
A_44_P2606 73	0.0146	1.4245	down	Taf8	NM_0011081 97
A_44_P2120 33	0.0365	1.1966	up		BI300426
A_44_P7110 01	0.0379	1.2578	down		AW533360
A_44_P3682 63	0.0177	1.0743	up		
A_44_P9976 08	0.0357	1.0985	down	Ndufb10	NM_0011094 43
A_44_P2483 71	0.0017	1.6337	up		
A_43_P2005 7	0.0328	1.1786	up		CB545427
A_44_P9872 86	0.0017	1.7119	up		BF545850

A_44_P2722 66	0.0021	1.1974	down	Fam3a	NM_0011093 24
A_44_P6236 45	0.0453	1.3043	down		
A_44_P9181 28	0.0219	1.4733	down		
A_44_P2284 03	0.0277	1.7583	down		AA875092
A_43_P1740 8	0.0096	1.3289	up		CB547962
A_44_P1473 00	0.0019	1.4324	down	Clca5	NM_0011074 50
A_44_P2836 46	0.0095	1.7036	down	Plekhf1	NM_0010131 48
A_44_P4080 33	0.0024	2.0867	up		
A_44_P7808 05	0.0388	1.1910	down	Ino80c	NM_0010174 46
A_44_P1970 86	0.0058	1.1214	down	Rpusd4	NM_0010252 84
A_44_P1032 752	0.0415	1.2957	down	Tcea3	NM_0010150 08
A_44_P9257 04	0.0002	1.5898	up		AA999167
A_44_P1830 87	0.0060	1.1889	down	Moap1	NM_0010131 01
A_44_P1354 34	0.0012	1.3464	up		XM_222925
A_44_P3082 88	0.0382	1.2132	up		H31600
A_44_P2153 93	0.0216	1.6561	down	Fam107a	NM_0010251 29
A_44_P1013 713	0.0102	1.3772	up		
A_44_P1047 933	0.0127	2.6124	up		BF549893
A_42_P5507 02	0.0284	1.2742	down	Znhit2	NM_0011075 74
A_44_P1058 158	0.0390	1.1358	down	Plbd2	NM_139255
A_44_P4077 88	0.0389	2.3145	up		
A_44_P9445 50	0.0381	1.3277	up		

A_43_P1677 1	0.0123	1.1339	down	LOC680692	XM_0010568 96
A_43_P2078 2	0.0109	1.1553	up	RGD156484 6	XR_009022
A_44_P1119 21	0.0392	1.2185	down		AF352169
A_44_P4472 22	0.0289	1.2663	up	LOC500757	XR_007455
A_43_P2184 8	0.0239	1.2311	down	Nfxl1	NM_0011704 38
A_44_P2348 54	0.0418	1.2680	up		BF550234
A_44_P2182 47	0.0358	1.1275	down	Atpaf2	NM_0011070 06
A_44_P3012 48	0.0027	1.3306	up	Smek2	NM_0011083 67
A_44_P7138 02	0.0020	1.5054	up	LOC100360 380	XR_085747
A_44_P3585 76	0.0363	1.2694	down		
A_44_P6655 97	0.0415	1.3655	down		AW143403
A_44_P4283 26	0.0283	1.5284	down	Hmgcs2	NM_173094
A_44_P3492 50	0.0320	1.2125	down	Paf1	NM_0010248 98
A_44_P1523 73	0.0076	1.6900	up		
A_44_P4216 50	0.0357	1.1858	down	Lamp1	NM_012857
A_44_P8835 57	0.0469	1.3062	down	Mpv171	NM_0010982 40
A_44_P4730 74	0.0387	1.3436	down	Slc22a5	NM_019269
A_44_P2144 15	0.0492	1.1391	down	Yeats4	NM_0011275 27
A_44_P3280 16	0.0005	1.7751	down	Rxrg	NM_031765
A_44_P1218 87	0.0421	1.2520	down	Sidt2	NM_0011081 42
A_44_P1367 07	0.0301	1.1529	down		BG664788
A_44_P4640 27	0.0197	1.2261	down		XM_226645

A_44_P1939 15	0.0409	1.1101	down	Rbm45	NM_153306
A_44_P5186 24	0.0078	1.5067	up		AA924018
A_43_P1689 5	0.0071	1.1068	down	Gcap14	XM_224672
A_44_P1471 42	0.0268	1.3011	down		CO395473
A_44_P1044 830	0.0022	1.4652	up	Lactb	NM_0011068 33
A_43_P1040 3	0.0068	1.2120	down	Abhd12	NM_0010243 14
A_44_P1047 158	0.0437	1.1566	up	Tnip2	NM_0010247 71
A_44_P3822 79	0.0041	1.2060	down	Socs6	XM_0010635 12
A_44_P1018 997	0.0376	1.1391	up	Tmco1	NM_0010096 31
A_43_P1712 7	0.0013	1.6207	down		XM_221100
A_44_P3436 94	0.0218	1.0737	down	Hp1bp3	NM_199108
A_44_P7739 51	0.0198	1.1283	down		XR_008964
A_44_P3797 91	0.0146	1.2771	down	Pih1d1	NM_0010248 68
A_44_P1854 11	0.0314	1.3928	down	Trappe9	NM_0010341 56
A_43_P1303 5	0.0099	1.1319	up	Sfrs10	NM_057119
A_44_P9116 89	0.0029	1.2643	up		BM986549
A_44_P8189 56	0.0387	1.1615	down		XM_0027264 38
A_44_P4482 45	0.0482	1.3002	down	Ppp2r3a	NM_0010122 02
A_44_P1058 570	0.0135	1.1289	up	Sigirr	NM_0010248 87
A_44_P4803 53	0.0015	1.6485	up		XM_341846
A_42_P5198 68	0.0432	1.2121	down	Gsr	U73174
A_43_P1032 6	0.0231	1.1133	down		CF110545

A_43_P2174 9	0.0469	1.2942	down	Lnx2	NM_0011083 29
A_44_P1040 87	0.0288	1.3333	down		BF396482
A_44_P9059 80	0.0438	1.2437	up		AI178326
A_44_P2322 85	0.0001	1.3774	up		
A_42_P6946 79	0.0246	1.6471	up	Hdac4	XM_343629
A_44_P5938 98	0.0371	1.4046	up		
A_44_P6451 08	0.0233	1.2658	down		DY471256
A_44_P8349 80	0.0039	1.0989	down	Tollip	NM_0011096 68
A_44_P9293 13	0.0002	2.5716	up		
A_44_P7291 83	0.0033	1.3281	up		
A_42_P6185 38	0.0064	1.2978	up	Lta4h	NM_0010300 31
A_44_P2052 75	0.0266	1.4989	up		AA819474
A_44_P9521 29	0.0281	1.1443	down		CA509994
A_44_P4360 40	0.0093	1.6531	down	Rassf6	NM_0010256 71
A_44_P8025 11	0.0093	1.4725	down	RGD156631 9	NM_0011093 58
A_44_P3833 10	0.0106	1.4851	up	Gata3	NM_133293
A_44_P7156 67	0.0330	1.3132	down		
A_44_P2949 61	0.0407	1.2668	down	Exoc8	NM_139043
A_44_P9000 01	0.0390	1.3422	up	Arhgef15	NM_0011057 89
A_44_P3493 36	0.0057	1.5414	down		XM_223768
A_44_P9316 25	0.0097	1.1944	down		DV725773
A_44_P8068 09	0.0462	1.2536	down	Sh3bgr1	NM_0011733 39

A_44_P1158 00	0.0182	1.2166	up		AA818085
A_44_P1760 63	0.0021	1.6938	up		XM_221479
A_44_P8367 23	0.0113	1.2500	down		XM_218819
A_42_P5393 52	0.0012	1.3540	up	Adrm1	NM_031708
A_44_P2157 20	0.0013	2.5968	up		XM_232746
A_44_P4151 49	0.0267	1.2556	down		CB783186
A_44_P7659 23	0.0329	1.5321	down		
A_44_P3168 39	0.0241	1.3157	down	Aars2	NM_0011068 91
A_44_P4188 01	0.0145	1.3243	up		AI412376
A_44_P5083 48	0.0246	1.3500	up	Ahnak	AF454372
A_44_P7905 53	0.0006	1.2242	up		
A_44_P3541 24	0.0404	1.2826	down	Chmp1b	NM_0011095 33
A_44_P3365 83	0.0139	1.7977	up		AA875598
A_44_P2905 59	0.0040	1.1922	down	Pabpc4	NM_0011005 38
A_44_P5400 82	0.0290	1.4888	up		BG664561
A_44_P4685 04	0.0014	1.7264	up		
A_44_P8338 92	0.0049	1.3474	up		AI235737
A_43_P1243 8	0.0344	1.1587	down	Hmox2	NM_024387
A_44_P4774 84	0.0078	1.3219	up		AA859931
A_44_P5179 44	0.0088	1.4784	up		XM_217706
A_44_P5723 20	0.0072	1.3631	up		BE101099
A_44_P4967 21	0.0105	1.2941	down		CO572773



A_43_P1814 5	0.0395	1.1522	down		XR_007342
A_44_P2272 43	0.0420	2.0241	down	Dapl1	NM_0011085 82
A_44_P2440 63	0.0360	1.4697	down		XR_085956
A_44_P4428 67	0.0291	1.1043	down	Becn1	NM_053739
A_44_P2227 65	0.0255	1.1663	up		XM_342901
A_44_P5326 86	0.0141	1.4551	up	Efnb1	NM_017089
A_44_P7635 17	0.0055	1.2288	up		
A_44_P3055 72	0.0239	1.2645	up		BP489994
A_44_P4210 57	0.0052	1.4630	up		AI177452
A_44_P4386 75	0.0322	1.3455	down	Pappa	NM_0011079 39
A_44_P2683 25	0.0169	1.1978	up	Ccni	NM_0011059 98
A_44_P8836 59	0.0024	1.1764	up		
A_44_P5556 64	0.0021	1.6783	up		XM_228987
A_44_P5611 02	0.0029	1.7480	down	Camk2b	NM_0010423 54
A_44_P1191 53	0.0042	1.7293	up		
A_44_P7389 56	0.0058	1.3544	up		
A_42_P7575 00	0.0155	1.2763	down	Itpr2	NM_031046
A_43_P1187 1	0.0036	1.3804	down	Padi3	NM_017230
A_44_P1347 39	0.0046	1.1475	down	Csde1	NM_054006
A_44_P1148 43	0.0015	1.7152	up		XM_346028
A_44_P3015 74	0.0140	1.1892	down	Pcnx	NM_0011703 47
A_44_P2143 40	0.0039	1.2641	up		BG374235

A_44_P898105	0.0443	1.2794	up		
A_44_P597706	0.0014	1.8398	up		AA875152
A_43_P16086	0.0208	1.5405	up	Cish	NM_031804
A_44_P917381	0.0269	1.6037	down		DY471188
A_44_P234309	0.0095	1.1262	up	Smarca5	NM_001107419
A_44_P375900	0.0289	1.3689	down		AA866262
A_44_P996410	0.0356	1.3299	down	Hspb6	NM_138887
A_44_P483259	0.0003	1.6665	up	LOC367276	XM_346049
A_44_P504374	0.0165	1.0897	down	Mettl13	NM_001134501
A_44_P649558	0.0434	1.6287	up		BF283594
A_44_P1051631	0.0013	1.1996	down	Ilvbl	NM_001108738
A_44_P982240	0.0083	2.7002	up		
A_44_P225860	0.0097	1.5831	up		AI598417
A_44_P879099	0.0378	1.3708	up		AW915435
A_43_P20024	0.0423	1.2684	down	Gpd11	XM_343498
A_44_P148742	0.0447	1.2723	up		AA858676
A_44_P1030594	0.0357	1.2931	up	Cebpg	NM_012831
A_44_P536365	0.0088	1.3011	up	Nbr1	NM_001024765
A_44_P182099	0.0198	1.3461	down		AI030774
A_44_P944832	0.0384	1.0860	up		BG671311
A_44_P364447	0.0401	1.4348	up	Spats21	NM_001014102
A_44_P604422	0.0433	1.2501	down		AW142685

A_44_P9860 18	0.0348	1.3966	down		BF420742
A_43_P1706 5	0.0340	1.1996	up	Helz	NM_0011058 48
A_44_P4854 09	0.0053	1.7151	up		
A_44_P1968 05	0.0277	1.2801	down	Golga7	NM_0010077 31
A_43_P1004 0	0.0256	1.2523	down		AW921534
A_44_P4978 63	0.0005	1.4532	down	Dpfl	NM_0011057 29
A_44_P4080 11	0.0047	1.1511	up	Fusip1	NM_0010257 38
A_44_P4988 90	0.0341	1.1653	down	Acadvl	NM_012891
A_44_P5390 19	0.0111	1.2624	up	Qser1	NM_0011394 93
A_44_P5497 06	0.0267	1.2589	up		AI547541
A_44_P3332 81	0.0132	1.8335	up	LOC680967	XM_0027301 37
A_44_P4849 09	0.0403	1.7358	down	P2rx4	NM_031594
A_44_P4563 42	0.0007	1.8983	up	Dyrk2	NM_0011081 00
A_44_P2313 99	0.0149	1.1574	down	Samm50	NM_0010042 41
A_44_P3186 04	0.0266	1.4394	down	Vps33a	NM_022961
A_44_P2124 24	0.0411	1.2115	down	RGD156021 2	NM_0010776 76
A_44_P6380 87	0.0286	1.1347	down		DY471385
A_44_P3347 17	0.0312	1.4467	down	Klc3	NM_138520
A_44_P1909 99	0.0333	1.2268	up		BF281299
A_44_P5524 26	0.0007	1.4453	up		AA997760
A_44_P2180 23	0.0080	1.2792	up		XM_215586
A_44_P3980 14	0.0050	1.2115	down	Hdac3	NM_053448

A_44_P7310 07	0.0260	1.2583	up		CK479210
A_44_P1782 13	0.0047	1.2786	down	Sobpl	NM_0011046 40
A_42_P5619 30	0.0261	1.1892	up		BC104705
A_44_P7913 22	0.0010	1.8168	up		
A_44_P4321 83	0.0009	1.7817	up		BG153306
A_44_P2551 09	0.0409	1.1326	down	Snn	NM_0010340 83
A_44_P3142 60	0.0230	2.1014	up		
A_42_P5378 81	0.0436	1.1663	up	Itpa	NM_0011077 74
A_44_P1805 96	0.0244	1.2759	up		XM_228527
A_44_P5347 81	0.0206	1.5675	up	RGD156455 0	XM_220862
A_44_P2208 68	0.0128	1.1882	up	Rpn2	NM_031698
A_44_P4399 56	0.0467	1.2561	down	Itp2	NM_031046
A_44_P4633 02	0.0136	1.1006	down	Mrps28	NM_0010479 09
A_44_P1064 33	0.0067	1.5392	up		AI410419
A_44_P3001 00	0.0013	1.2592	down	Pex10	NM_0011094 05
A_44_P2366 70	0.0463	1.6322	down	LOC691410	XM_0010781 25
A_43_P1273 7	0.0310	1.1653	down	Hagh	NM_033349
A_44_P2880 91	0.0046	7.0691	up	P2rx2	NM_053656
A_44_P2788 43	0.0015	1.5433	up		XM_217505
A_44_P6685 82	0.0010	1.8610	up	Arhgap25	NM_0011092 47
A_44_P5415 05	0.0296	1.6845	down		XM_0010672 41
A_44_P1935 93	0.0145	1.4083	up		BP471069

A_44_P3833 60	0.0060	1.3151	down	Trim2	NM_0011085 52
A_44_P9143 46	0.0352	1.1477	down		XM_0010628 05
A_44_P8213 86	0.0273	2.2267	down		
A_44_P6522 43	0.0213	1.4375	up		
A_44_P7907 50	0.0155	1.3860	up		
A_44_P3895 06	0.0461	1.2601	down	RGD130810 1	NM_0011144 02
A_44_P2920 82	0.0034	1.2596	up		AI071579
A_44_P8219 72	0.0168	1.5544	up		
A_44_P5167 45	0.0043	1.2529	down	Acaa1	NM_012489
A_43_P2215 5	0.0409	1.4463	down	Optc	NM_0011071 76
A_44_P4909 54	0.0219	1.0990	up		XR_005671
A_44_P3907 34	0.0073	1.3925	down		AW143618
A_44_P3843 89	0.0014	2.0956	up	LOC691211	
A_42_P5150 28	0.0211	2.1427	down	Alpk2	XM_574162
A_44_P4865 59	0.0320	1.3112	up		AW532049
A_44_P4736 48	0.0296	1.5125	up		XM_213132
A_44_P3429 66	0.0485	1.3227	down	Rwdd3	NM_0011281 52
A_44_P1228 97	0.0355	1.3713	up		CA506280
A_42_P5333 12	0.0037	1.3163	down	Pc	NM_012744
A_44_P7173 49	0.0031	1.2266	up		
A_42_P5019 72	0.0458	1.1283	down	Ppp2r1b	NM_0010254 18
A_44_P5255 57	0.0004	1.2352	down	Fam108a1	NM_0010069 83

A_44_P8718 82	0.0498	1.3310	up		
A_44_P2387 33	0.0000	1.7384	up	Tmed5	NM_0010076 19
A_44_P8958 29	0.0458	1.3523	up		AI043705
A_44_P8457 05	0.0344	1.1745	up		CB728414
A_44_P7265 68	0.0284	1.2754	down	Ptpn3	BC103629
A_44_P1051 799	0.0459	1.1689	down		XM_0027257 83
A_44_P3139 18	0.0367	1.2513	down	Wdr42a	NM_0010142 31
A_44_P3873 85	0.0347	1.2675	up		BM389833
A_44_P5617 60	0.0153	1.2585	down		
A_44_P5484 40	0.0218	2.9019	down	Fndc7	NM_0011077 17
A_44_P3672 43	0.0359	1.1582	up	Ypel5	NM_0010352 21
A_44_P3144 31	0.0160	1.4824	down	Ccdc64b	NM_0011069 82
A_44_P1923 36	0.0147	1.4792	up	Tspan9	NM_0011078 90
A_44_P1461 92	0.0344	1.2605	up		AI176752
A_44_P1055 774	0.0343	1.7817	up		AA923925
A_44_P1758 46	0.0363	1.4601	up	LOC307671	XM_226278
A_43_P1030 2	0.0121	1.6419	down		CB548020
A_44_P9762 96	0.0046	1.3306	up		
A_44_P2719 23	0.0454	1.4587	down	Rom1	NM_0010096 90
A_42_P5357 43	0.0131	1.1276	down	Galnt11	NM_199393
A_44_P4443 39	0.0408	1.2557	up	Larp1	XM_220446
A_44_P6298 97	0.0207	1.2940	up		BF552300

A_44_P6675 09	0.0267	1.2244	up		
A_44_P1112 55	0.0494	1.3627	up		AI029306
A_42_P5633 76	0.0229	1.2512	down	Pcyox1	AF332142
A_44_P4967 88	0.0187	1.2451	up	Fip111	NM_0010082 95
A_44_P2788 10	0.0493	1.1574	up		XM_0027256 29
A_44_P4266 72	0.0473	1.1385	down	Bcas2	NM_0011064 58
A_44_P2366 36	0.0077	1.4836	up		
A_44_P8191 69	0.0089	1.5244	up		AA997848
A_44_P1045 526	0.0219	1.3663	up	Piga	NM_0011088 16
A_44_P3448 16	0.0271	1.2852	down	Smox	NM_0011348 54
A_44_P3836 79	0.0429	1.2782	down		AA998008
A_44_P1656 43	0.0397	1.9872	down	Sptb	AY238343
A_44_P4448 97	0.0060	1.2721	up	Ranbp2	XM_215401
A_44_P1346 85	0.0488	1.1227	up	Tpm3	NM_173111
A_44_P6525 50	0.0002	1.8238	up		
A_44_P1039 18	0.0407	1.3084	up		AA944422
A_43_P1163 6	0.0453	1.1668	up	Hspe1	NM_012966
A_44_P6231 15	0.0484	1.3684	up	Slc43a2	NM_0011058 12
A_44_P3469 38	0.0385	1.3609	down	RGD130931 3	NM_0010140 30
A_44_P5445 52	0.0203	1.1427	down	Usp3	NM_0010254 24
A_44_P2314 39	0.0385	1.8399	down	Slc39a11	NM_0010130 42
A_44_P2596 54	0.0094	2.0835	up		BF401583

A_44_P5935 25	0.0403	1.1601	up		XR_007360
A_44_P5565 79	0.0208	1.3109	down	H1fx	XM_575600
A_44_P1654 04	0.0315	1.4314	up		BE111651
A_44_P4674 23	0.0100	1.2011	up		AA923914
A_43_P1086 7	0.0160	1.6546	down		CB547678
A_43_P1013 9	0.0494	1.1381	up		CB547604
A_44_P7909 28	0.0046	1.4205	up		
A_44_P6382 64	0.0327	1.0998	down		
A_44_P4102 32	0.0248	1.2741	up	Dmtf1	NM_053693
A_44_P1046 697	0.0380	1.1929	down	Ctdsp1	NM_0011280 79
A_44_P1089 82	0.0444	1.1687	down	Sucla2	NM_0011083 87
A_44_P5010 51	0.0494	1.2343	down		AY383698
A_44_P8251 42	0.0455	1.3297	down		
A_44_P1929 88	0.0303	1.2654	down	Csnk1e	NM_031617
A_44_P5700 46	0.0292	1.1376	up		CB586512
A_44_P2932 64	0.0210	1.5025	up		XR_006781
A_44_P2145 95	0.0208	1.2568	up		AI059015
A_44_P2502 13	0.0215	1.2264	down	Rab4a	NM_013019
A_43_P2331 9	0.0243	1.5609	down	Usp13	NM_0011076 65
A_44_P9962 04	0.0064	1.2355	up		XM_233944
A_44_P9742 03	0.0004	1.7404	up		
A_44_P1958 17	0.0087	1.2302	up		AA850940



A_43_P1970 6	0.0383	3.0346	down	Actn2	NM_0011703 25
A_44_P4827 85	0.0186	1.1959	down	Znf511	NM_0011063 09
A_44_P5382 07	0.0287	1.4309	up		BF397290
A_44_P2431 11	0.0224	1.2450	down	Rab3d	NM_080580
A_44_P6511 51	0.0026	1.6032	up		AA800851
A_44_P3583 84	0.0135	1.2152	up	Dlat	NM_031025
A_44_P8679 00	0.0286	1.4909	up		
A_44_P2454 27	0.0232	1.2718	up	Trim39	NM_213562
A_44_P2317 37	0.0013	1.3596	up	RGD156275 5	XM_0010554 03
A_42_P6036 70	0.0342	1.1624	down		XR_008618
A_44_P4764 91	0.0050	1.7042	up		XM_0010566 42
A_44_P3482 44	0.0127	1.5982	up	Nadsyn1	BC101923
A_44_P3892 12	0.0118	1.8699	down	Morn4	NM_0010249 75
A_44_P3397 22	0.0444	1.3605	down	Cdh11	NM_053392
A_44_P2869 11	0.0444	1.0797	up	Mapk14	NM_031020
A_43_P1862 6	0.0159	1.3008	up	Atm	NM_0011068 21
A_44_P6213 38	0.0036	1.3505	up	Zfp458	NM_0010242 99
A_43_P2336 1	0.0373	1.2979	down	Aen	NM_0011084 87
A_43_P1853 7	0.0090	1.3227	down	Eml6	XM_573680
A_44_P5989 44	0.0442	1.4412	down		AW143747
A_44_P5457 17	0.0103	1.7468	down	Cacna1e	NM_019294
A_44_P3703 45	0.0055	1.2635	up	Aftph	XM_223651

A_43_P1286 4	0.0241	1.3118	down	Pgf	NM_053595
A_43_P1890 7	0.0246	1.3447	down	Lrig1	XM_232237
A_43_P1577 5	0.0035	1.1544	up	Ddx21	NM_0010372 01
A_44_P2369 30	0.0319	1.0909	up		CB606450
A_44_P3563 44	0.0010	1.8172	up	Ndufc2	NM_0010092 90
A_44_P9426 09	0.0496	1.2688	up		BF289902
A_44_P3326 75	0.0039	1.5274	down	Myh13	AF075250
A_42_P5929 81	0.0367	1.4258	down	Mfap2	NM_0011079 89
A_44_P3307 26	0.0326	1.1550	down	Sfrs14	NM_0011083 97
A_44_P3999 63	0.0149	1.1887	up		BM392140
A_43_P1797 6	0.0256	1.3347	down	Krba1	BC103730
A_44_P1291 40	0.0084	1.2585	up		BQ199204
A_44_P1114 53	0.0342	1.3926	up	Armc1	NM_0011064 25
A_42_P4988 68	0.0105	1.4744	down	Fsd1	BC160924
A_44_P2295 37	0.0270	1.2498	down	Epc2	NM_0011085 81
A_44_P1045 612	0.0045	1.2500	down	Fxyd3	NM_172317
A_44_P1608 72	0.0378	1.4788	down	Rap2a	NM_053741
A_44_P3060 80	0.0183	1.3163	up		AI102825
A_44_P4132 65	0.0200	1.1223	down		AA875527
A_44_P2813 93	0.0447	1.1914	up		XM_344684
A_44_P4569 23	0.0072	1.3700	down	Cblc	NM_0010349 20
A_44_P1463 35	0.0194	1.2411	up		CA505434

A_44_P1469 22	0.0194	7.5350	up		L07408
A_43_P1274 0	0.0454	1.2788	down	Eef1a1	NM_175838
A_44_P2532 68	0.0213	1.2762	up		XM_221603
A_44_P4612 01	0.0067	1.4343	up	Pcsk7	NM_019246
A_44_P2409 30	0.0098	1.2438	down	Scamp2	NM_023955
A_44_P6048 60	0.0258	1.1517	down		BC098774
A_44_P3404 34	0.0063	1.4473	down	Ttc38	NM_0011304 99
A_44_P8407 78	0.0278	1.1696	down	Dnajb6	NM_0010132 09
A_44_P1282 02	0.0222	3.9650	up		M87788
A_42_P7517 20	0.0171	1.4356	down	LOC683720	XR_009563
A_42_P5866 81	0.0153	1.1701	down	Upf2	NM_0011084 21
A_44_P5104 70	0.0068	1.6633	down	Pex11a	NM_053487
A_44_P1451 91	0.0064	1.8528	down		
A_43_P1253 4	0.0484	1.1816	down	Thra	NM_0010179 60
A_44_P2282 11	0.0428	1.3149	up		AI177092
A_43_P1659 9	0.0363	1.1654	down	Rdh14	NM_0011092 76
A_44_P6670 69	0.0372	1.1640	up	Qsox2	NM_0011094 34
A_44_P9778 65	0.0012	1.1816	down		
A_44_P4545 91	0.0190	1.2145	up	Fam120b	NM_0011074 66
A_44_P1173 35	0.0197	1.3899	up		XR_008794
A_44_P6713 40	0.0387	1.2141	down		XR_006448
A_44_P2849 54	0.0235	1.2106	up		NM_0011087 04

A_44_P5725 04	0.0157	1.4760	up		AA850577
A_44_P4828 59	0.0298	1.4360	down	Sema5a	NM_0011076 59
A_44_P1711 43	0.0044	1.3291	up		XM_229366
A_44_P1094 55	0.0303	1.2759	down	Gstm2	NM_177426
A_44_P4597 41	0.0134	1.1744	down	Hexa	NM_0010044 43
A_44_P3776 45	0.0266	1.2930	down		XM_342774
A_43_P1302 5	0.0306	1.3881	down	Gas6	NM_057100
A_44_P2458 25	0.0030	1.6006	up		XM_345039
A_44_P1087 59	0.0079	1.7716	up		BM388124
A_44_P8555 00	0.0023	1.5480	up		
A_44_P1510 37	0.0338	1.6313	up		AI044707
A_44_P1619 05	0.0440	1.7139	up		BQ193155
A_44_P1709 71	0.0365	1.2234	up		
A_44_P9143 57	0.0283	2.3276	down		
A_44_P8990 02	0.0068	1.2004	up		
A_44_P6389 87	0.0211	1.2606	up		DV717005
A_44_P1568 95	0.0025	1.6025	down	Sall3	NM_0011088 92
A_43_P1098 8	0.0054	1.3095	down	Nek7	NM_0011083 46
A_44_P4419 66	0.0190	1.4535	up		H31108
A_44_P4875 30	0.0026	1.4676	down	Tmem56	NM_0011358 79
A_44_P8066 41	0.0410	1.4382	up		XM_236024
A_44_P9593 99	0.0416	1.1600	up	Sar1a	NM_0010077 39

A_44_P1996 24	0.0440	1.2532	down	Bad	NM_022698
A_44_P4501 49	0.0044	1.1415	up	RGD156192 8	XM_0010673 10
A_44_P4446 19	0.0215	1.2436	up		BQ781880
A_44_P1099 93	0.0331	1.3022	down		XM_224713
A_44_P4406 33	0.0237	1.3295	down	Dlg3	NM_031639
A_44_P9866 36	0.0118	1.1470	down		DY472436
A_44_P1815 18	0.0473	1.1964	down	Ctnnbip1	NM_0011733 88
A_44_P3720 61	0.0142	1.2583	down	Cyp2d4	NM_138515
A_44_P1443 93	0.0130	1.2517	down	Ip6k2	NM_021660
A_44_P7461 89	0.0145	1.4115	down		
A_44_P1672 34	0.0012	2.0227	up		AI230614
A_43_P1493 1	0.0079	1.1226	up	Nfe2l2	NM_031789
A_44_P2642 30	0.0444	1.1429	down	Ankrd13c	XM_0010621 65
A_44_P1040 055	0.0085	1.2725	up	Azi2	NM_0010257 05
A_43_P1222 2	0.0284	1.0833	down	Pmpcb	NM_022395
A_44_P3803 29	0.0023	2.0505	up		
A_44_P5267 95	0.0001	2.8993	up	Tshz1	XM_225688
A_44_P9952 18	0.0149	1.1851	up		XM_0010547 97
A_44_P3357 52	0.0222	1.3001	down	RGD130600 0	NM_0011088 27
A_43_P1957 8	0.0240	1.2382	up	Noc3l	NM_0011085 23
A_44_P9911 14	0.0312	1.1153	up	Pds5b	NM_0011023 83
A_44_P4377 21	0.0495	1.2195	down		CO566833

A_42_P4953 97	0.0446	1.0803	up	Rpl21	NM_053330
A_44_P6301 22	0.0217	1.2658	up		
A_44_P5270 18	0.0374	1.4382	up	Olr386	NM_0010008 56
A_44_P4135 40	0.0164	1.2120	down		EX488580
A_44_P1030 501	0.0418	1.1277	down	Ccdc124	NM_0011060 71
A_44_P8556 72	0.0494	1.8077	up		
A_44_P7674 45	0.0147	1.3051	up		
A_44_P5751 73	0.0253	1.2757	up		
A_44_P3884 37	0.0439	1.8251	up		BG378180
A_44_P7420 86	0.0278	1.3992	up		AI639039
A_44_P7945 08	0.0034	1.3368	down		
A_44_P5076 73	0.0433	1.3676	down		AA891542
A_44_P2771 67	0.0267	1.3133	up		BE109711
A_44_P3340 03	0.0251	1.4115	up		BI302750
A_43_P1789 0	0.0261	1.1982	down	Fam198a	CB606389
A_44_P3611 44	0.0064	1.5822	down	Nacc2	NM_0011005 33
A_44_P3117 97	0.0344	1.8563	down	Cpxml	NM_0011065 11
A_43_P1866 4	0.0083	1.2562	down	RGD131109 5	NM_0011345 32
A_44_P1350 82	0.0389	1.4590	down	P2rx1	NM_012997
A_44_P4622 18	0.0416	1.3573	up		BQ195521
A_44_P3746 20	0.0158	1.3446	down	Cdkn1c	NM_182735
A_44_P9655 38	0.0396	1.9134	up		AI029706

A_44_P1890 43	0.0044	1.2581	down	Gphn	NM_022865
A_44_P3387 03	0.0406	1.1674	down		AW918458
A_44_P3109 60	0.0130	1.1901	up		M59859
A_44_P2668 79	0.0145	1.1493	down	Rdbp	NM_212548
A_44_P2720 48	0.0076	1.1663	up		XM_0027284 48
A_44_P1165 97	0.0344	1.2920	down	Cx3cl1	NM_134455
A_44_P2108 83	0.0266	1.1782	down	Btbd3	NM_0011077 82
A_44_P7517 48	0.0040	1.6389	up		
A_44_P6061 12	0.0160	1.1039	up		BC107915
A_44_P1014 005	0.0090	1.2678	up	Cdc42se1	NM_0010390 44
A_44_P2417 05	0.0001	2.1313	up		BG668296
A_44_P4389 04	0.0386	1.2502	down	Cldn8	NM_0010377 74
A_44_P9735 51	0.0401	1.1781	up		AI101150
A_44_P2932 83	0.0156	1.2633	up		XM_234433
A_42_P5169 41	0.0196	1.2033	up	Ube4b	XM_233679
A_44_P1816 40	0.0126	1.2957	up		AI136692
A_44_P1937 72	0.0408	1.1832	up		AA818945
A_43_P1324 4	0.0003	1.4065	up	Rap1b	U07795
A_44_P2307 80	0.0371	1.2208	up		AI010145
A_44_P2250 97	0.0136	1.0814	down	LOC689226	NM_0011275 73
A_43_P1922 4	0.0290	1.4320	down	Zhx3	NM_0010470 97
A_43_P1318 3	0.0076	1.1144	down	Syf2	NM_133417

A_44_P7625 96	0.0447	1.6344	up	Mars2	XM_237156
A_44_P4521 86	0.0232	3.0635	up		AF347030
A_44_P2012 95	0.0477	1.2563	down	Mybpc2	NM_0011062 57
A_44_P2219 80	0.0139	1.4364	up	Cdc21l	NM_145766
A_43_P2051 5	0.0103	1.2683	down	Zfand1	XM_342213
A_44_P4607 02	0.0172	1.1897	up		BQ207841
A_44_P3722 51	0.0223	1.4266	down	Bcan	NM_012916
A_44_P5290 82	0.0372	1.2796	up		AI411809
A_44_P9295 74	0.0276	1.7849	down		
A_44_P7921 43	0.0117	1.1768	down		AW920896
A_44_P2476 15	0.0002	1.4523	up	Trio	NM_0011076 58
A_44_P4043 36	0.0232	1.4585	up		AA925866
A_44_P3402 61	0.0282	1.5362	down	RGD130580 7	NM_0010252 76
A_44_P1934 05	0.0155	1.2688	up		AW528582
A_44_P5436 11	0.0078	1.3825	down		XM_344411
A_44_P5586 36	0.0063	1.2616	up	Ppp1r9b	NM_053474
A_43_P1926 7	0.0490	1.0720	down	Riok2	NM_0010096 87
A_44_P8376 69	0.0010	1.2079	up	Abce1	NM_0011084 46
A_44_P6995 23	0.0353	1.2239	up		
A_44_P2274 21	0.0110	1.3159	up		
A_44_P3458 41	0.0021	1.3878	up		BI275582
A_44_P7408 45	0.0079	1.2321	up		E00898



A_44_P2402 92	0.0073	1.3733	up		AI556244
A_43_P1231 1	0.0341	1.3847	up	Srd5a2	NM_022711
A_44_P3823 18	0.0286	1.2648	up	Pftk1	NM_0011086 17
A_44_P2777 75	0.0002	2.8287	up		AI105643
A_44_P2042 71	0.0174	1.2557	up		EV775538
A_43_P1967 3	0.0431	1.4084	down	Lrba	NM_0011085 55
A_44_P5228 27	0.0397	1.5658	down	Htra3	XM_341237
A_44_P5970 13	0.0221	1.1605	up		
A_44_P4112 80	0.0343	1.1969	up		AI012428
A_44_P1059 322	0.0023	1.5634	up	Whdc1	NM_0011307 28
A_43_P1296 7	0.0413	1.3545	down	Cap2	NM_053874
A_44_P1218 39	0.0094	1.6863	up		XM_345657
A_44_P2883 59	0.0080	1.6881	up		XM_223826
A_44_P7935 91	0.0177	1.2668	down		XM_0027254 40
A_44_P1612 08	0.0110	1.2553	down		XM_230955
A_44_P1080 17	0.0219	1.6212	down	Nphp3	XM_343461
A_44_P1016 84	0.0023	1.2315	up		AW916490
A_44_P2828 43	0.0168	1.8290	up	Dhx32	NM_0011300 39
A_42_P7631 57	0.0243	1.2716	down	Cyp2t1	NM_134369
A_44_P9580 51	0.0472	1.0924	down		AW919166
A_44_P1580 59	0.0439	1.1535	up		AI171503
A_42_P6877 67	0.0353	1.1206	down	Dnlz	NM_0011309 90

A_44_P9962 68	0.0121	1.4547	up	Rasd2	NM_133568
A_42_P7002 09	0.0279	2.2008	up	Slc7a3	NM_017217
A_44_P5360 89	0.0470	1.7284	up	Klre1	NM_181372
A_44_P2435 56	0.0309	1.1281	up		XM_225514
A_43_P1010 1	0.0305	1.2471	down		
A_44_P2271 21	0.0251	1.3652	down	Txndc16	XM_341301
A_44_P2504 14	0.0267	1.1125	down		CV117922
A_44_P3358 16	0.0035	1.2922	up		AA924717
A_44_P3909 10	0.0065	1.4739	up		AA946072
A_42_P4577 73	0.0241	1.1950	down	Txndc15	NM_0010249 98
A_44_P1486 03	0.0084	1.6598	up		AI043899
A_44_P4993 18	0.0209	1.5133	up	LOC294154	NM_0010396 07
A_44_P7762 09	0.0090	1.3343	up		XM_0010531 32
A_44_P8685 73	0.0430	1.1604	up	Chmp7	NM_0011088 72
A_44_P5559 85	0.0031	1.4762	up		BI284716
A_44_P3615 82	0.0195	1.4840	up		AA925871
A_44_P4827 53	0.0289	1.3395	down		XM_218993
A_44_P2368 47	0.0258	1.2756	up	Efnb3	NM_0011009 80
A_44_P6839 03	0.0169	1.4143	up	Rps6ka2	NM_057128
A_44_P1613 32	0.0472	1.7507	up		XM_573515
A_44_P3091 60	0.0167	1.3024	down	Npl	NM_0010139 84
A_44_P2349 47	0.0118	1.3435	down		AA925064

A_44_P3346 92	0.0426	1.3842	up		AI549079
A_44_P8039 58	0.0013	1.2432	up		DV717280
A_44_P4505 18	0.0455	1.2005	down	Rangrf	NM_0011057 90
A_44_P3216 22	0.0394	1.4841	down	Itfg3	NM_0010097 01
A_44_P3062 73	0.0090	1.2788	up		AI105154
A_44_P4479 07	0.0145	1.4624	down	Cgn	XM_227472
A_44_P2766 98	0.0462	1.1203	down	RGD131126 5	NM_0010141 73
A_43_P1671 8	0.0350	1.2533	down	Cdc23	NM_0011006 59
A_44_P4712 70	0.0050	1.7866	up		XM_232762
A_44_P5551 07	0.0464	1.3227	up	Pcbd1	M83740
A_44_P2618 96	0.0418	1.3276	up		BM383777
A_44_P2954 08	0.0445	1.6636	down		XM_0010759 37
A_44_P3438 88	0.0144	1.3255	up		BU759225
A_44_P2950 08	0.0468	1.3629	up		
A_44_P9764 21	0.0086	1.4605	down		
A_44_P1034 375	0.0315	1.1621	up	Ptgfrn	NM_019243
A_44_P5581 33	0.0090	1.4036	down		XM_343295
A_44_P4796 64	0.0076	1.2625	up		AI011156
A_44_P9586 50	0.0470	1.1762	up	Isyl	NM_0010141 88
A_44_P6046 35	0.0182	1.1636	up		AW144037
A_44_P3410 54	0.0306	1.5232	up		AA891725
A_42_P6044 25	0.0297	1.1798	down	Hebp1	BC168221

A_44_P9769 18	0.0407	4.6704	down		
A_44_P8071 46	0.0329	1.1709	up		
A_44_P6650 65	0.0184	1.5791	up		AW918432
A_44_P9311 86	0.0057	1.3398	up		XR_009414
A_44_P3126 06	0.0286	1.5119	up		BG153336
A_44_P4034 57	0.0205	1.0755	up	Fam119a	XM_237209
A_44_P8841 88	0.0096	1.1756	up		
A_44_P3079 07	0.0052	1.4387	up		AI177510
A_43_P1963 4	0.0149	1.5236	down	Chst1	NM_0010119 55
A_44_P2285 99	0.0290	1.1637	up	Sec22b	NM_0010256 86
A_42_P8375 68	0.0323	1.1920	down	L1cam	NM_017345
A_44_P1185 31	0.0186	1.3878	down		AW919008
A_44_P7314 87	0.0229	1.2620	down	Fbxo44	XM_575958
A_43_P1104 0	0.0416	1.1832	down	Tppp3	NM_0010096 39
A_43_P1173 4	0.0242	1.3674	up	Gnai1	NM_013145
A_44_P1348 25	0.0100	1.2304	up	Tbce	NM_0010121 61
A_44_P4220 06	0.0179	1.1864	up		XM_344715
A_44_P2696 52	0.0448	1.2229	up		
A_44_P9662 20	0.0189	1.3275	down		
A_44_P2605 42	0.0117	1.6300	up		XM_346356
A_43_P1040 5	0.0040	1.4141	up	Klhdc5	NM_0011092 57
A_43_P1954 5	0.0308	1.3675	down	Meis3	NM_0011084 72

A_44_P3045 60	0.0063	1.3134	up	RGD156509 3	XM_342164
A_44_P1028 765	0.0164	1.1864	down	R3hdm2	NM_0011305 57
A_44_P4620 58	0.0413	1.1202	up	RGD156254 7	XM_0010803 93
A_44_P9449 35	0.0455	1.4032	up		
A_44_P7472 51	0.0055	1.3198	up		
A_44_P9334 59	0.0126	1.1337	down	RGD130887 4	NM_0010340 03
A_44_P1864 54	0.0031	1.9988	up	Hivep1	NM_0011057 51
A_44_P1482 52	0.0477	2.5493	up		AI231547
A_43_P1660 9	0.0028	1.1876	down	Mkrm1	NM_0010042 33
A_44_P3562 42	0.0008	1.0922	down	Zcchc8	NM_0011059 29
A_44_P1402 14	0.0047	1.3831	up	RGD156006 9	XM_0010756 37
A_44_P2908 67	0.0452	1.1643	up		
A_44_P3533 54	0.0103	1.5023	up		AW533421
A_43_P1845 5	0.0243	1.2164	up	Med1	NM_0011343 61
A_44_P4385 29	0.0064	1.4314	up		
A_44_P4019 39	0.0363	1.1729	down		XM_0010613 91
A_44_P1395 00	0.0306	1.6857	down		AI233983
A_44_P1003 794	0.0083	1.3878	up	Nr3c1	NM_012576
A_44_P1517 08	0.0414	1.9263	up		S82585
A_44_P4505 16	0.0093	1.4431	up		XM_237116
A_44_P6176 30	0.0380	2.3822	up		AW914552
A_44_P8237 11	0.0453	1.3291	down	LOC685326	XM_0010633 53

A_44_P6024 19	0.0322	1.5669	up		BE110143
A_44_P8256 44	0.0117	1.2801	down		
A_42_P7744 39	0.0292	1.1671	up		BG663067
A_44_P4937 68	0.0191	1.6057	up		CA509937
A_44_P1047 364	0.0040	1.6757	up	RGD156626 5	NM_0011345 89
A_44_P3541 18	0.0392	1.2116	down	Chmp1b	NM_0011095 33
A_43_P1094 8	0.0153	1.3590	down		BM388975
A_44_P8986 58	0.0091	1.4320	up		
A_44_P5920 86	0.0491	1.2131	down		
A_43_P1315 5	0.0288	1.2250	down	Slc6a20	NM_133296
A_44_P3966 79	0.0005	1.2593	up		FM117181
A_44_P4432 71	0.0075	1.3133	down	Rbpjl	NM_0011086 04
A_44_P2567 74	0.0191	1.2456	up		CA506767
A_44_P4761 80	0.0107	1.5555	up		
A_43_P2060 2	0.0451	1.1305	down		BC158782
A_44_P5437 11	0.0221	1.1584	up	RGD156356 4	XM_0027285 05
A_44_P2238 40	0.0184	1.4140	up		AA859845
A_44_P4358 67	0.0038	1.5884	up	Atp5hl1	XM_0010575 86
A_44_P3794 61	0.0005	2.2861	up	Dhx16	NM_212496
A_44_P1426 70	0.0018	1.8296	up	LOC100364 757	XM_0027275 84
A_44_P4314 88	0.0122	1.2209	up	RGD156296 2	XM_235716
A_44_P6213 78	0.0402	1.2288	up		

A_44_P5504 54	0.0314	1.4569	down		XM_0010789 04
A_42_P6588 15	0.0169	1.2193	up	Atp6v1e1	NM_198745
A_42_P5615 80	0.0118	1.1031	up	Rps27a	NM_031113
A_44_P9796 59	0.0131	1.2739	up		
A_44_P4172 39	0.0252	1.6144	down		
A_44_P5011 62	0.0191	2.2374	up		L17080
A_44_P1026 984	0.0204	2.0756	down	Asb12	NM_0010373 67
A_44_P2789 23	0.0335	1.2315	down	Oxnad1	NM_0011072 95
A_44_P1402 33	0.0003	1.7115	up		
A_44_P1721 87	0.0071	1.2662	up		BI303604
A_44_P3935 21	0.0191	1.3161	down	Col23a1	NM_181636
A_44_P1310 84	0.0444	1.2563	up	Rbmx2	NM_0011137 86
A_44_P6677 48	0.0451	1.6695	up		
A_44_P7113 21	0.0468	1.3473	up		AI406667
A_44_P2800 26	0.0120	1.6357	up		BE349669
A_44_P3938 35	0.0149	1.1606	up		XM_227733
A_44_P9743 13	0.0024	1.4285	up		XM_577103
A_44_P2140 94	0.0227	1.2435	up		AA924354
A_43_P1000 6	0.0089	1.1267	up	Map2k3	NM_0011006 74
A_44_P5743 68	0.0044	1.4239	up		AA963828
A_44_P5061 24	0.0307	1.3202	up		XM_222590
A_44_P3578 35	0.0429	1.4186	up		BF282088

A_44_P2793 31	0.0190	1.4687	down		XM_343561
A_44_P8883 03	0.0442	1.1553	up	LOC685031	XM_0010620 12
A_44_P8370 70	0.0066	1.3731	up		
A_44_P2599 31	0.0121	1.3352	down	Arsb	NM_033443
A_44_P5624 19	0.0222	1.2700	up		
A_44_P4232 63	0.0241	1.4539	up		AI234620
A_44_P1037 275	0.0303	1.4036	up	Vkorc111	NM_203338
A_44_P6833 92	0.0411	1.2285	up		
A_44_P5626 44	0.0015	1.8545	up		BE113195
A_44_P4656 84	0.0446	1.4327	up		BE120816
A_44_P3919 15	0.0012	1.7286	up		
A_44_P7458 27	0.0151	1.1813	down		
A_44_P4781 44	0.0320	1.8054	up	LOC290595	NM_0011060 63
A_44_P3906 69	0.0350	1.1728	down		AW921499
A_44_P3486 62	0.0478	1.2848	up		AI237711
A_44_P3471 05	0.0235	1.1247	up		XM_345436
A_44_P4142 73	0.0431	2.4583	down	Cox8b	NM_012786
A_44_P3625 15	0.0169	1.5182	down		BF283269
A_43_P1522 0	0.0233	1.1648	down	Celsr2	AB011529
A_44_P1025 454	0.0332	1.1119	up	Foxp1	NM_0010341 31
A_44_P7411 99	0.0034	1.3447	up		AW534447
A_44_P1637 83	0.0038	1.6702	up		



A_42_P5337 92	0.0492	1.1179	down	Srpk2	NM_0011065 75
A_44_P9476 70	0.0109	1.1525	up		
A_43_P1047 0	0.0184	1.2064	up	Ext1	NM_0011305 40
A_44_P1157 98	0.0424	1.2024	up		BI277793
A_42_P7265 73	0.0092	1.2538	down	Npr2	NM_053838
A_44_P3470 23	0.0078	2.3736	up		XM_227709
A_44_P1135 88	0.0351	1.2182	up		AA893307
A_44_P4020 91	0.0112	1.3077	up		AI059903
A_44_P8204 21	0.0445	1.3169	up		BF522212
A_44_P9301 60	0.0168	1.1551	up	Pdcd6ip	NM_0010299 10
A_44_P5544 15	0.0303	1.1652	down		BI281796
A_44_P3697 60	0.0498	1.1869	down	Igbp1	NM_031624
A_44_P2147 97	0.0133	1.2734	up		BQ206248
A_44_P8525 73	0.0137	1.1758	up		
A_44_P7070 95	0.0079	1.3200	up		BF564078
A_44_P8083 10	0.0304	1.4336	down	Asb3	NM_0011088 64
A_44_P9808 30	0.0184	1.6578	up		
A_44_P6064 64	0.0003	2.0015	up		EV763276
A_44_P3214 88	0.0192	1.1761	down	LOC100294 508	NM_0011596 55
A_44_P1424 54	0.0005	1.8606	up		XM_0010692 57
A_43_P1837 0	0.0209	1.1831	down		
A_44_P5054 62	0.0156	1.3149	up		AI711598

A_44_P2907 03	0.0244	1.2504	down	LOC100363 748	XR_085745
A_44_P2386 42	0.0155	1.1966	up	Tbpl1	NM_0011272 01
A_44_P9912 39	0.0132	1.1806	up	Sh3glb1	NM_0010119 29
A_44_P5187 64	0.0326	1.6730	down	LOC363060	NM_0010142 09
A_44_P2163 95	0.0181	1.2964	down	Gadd45a	NM_024127
A_44_P2751 89	0.0217	1.2466	up		XM_0010604 19
A_44_P5565 28	0.0390	1.3717	down	Emilin1	NM_0011067 10
A_44_P9142 61	0.0374	1.1289	up		
A_43_P1669 6	0.0152	1.2375	down	Rnf19a	NM_0011305 60
A_43_P1022 7	0.0229	1.1324	up	Abi1	NM_024397
A_44_P3114 55	0.0258	1.2199	down	Nrg2	NM_0011361 51
A_44_P3707 15	0.0226	1.6700	down		
A_44_P3241 40	0.0220	1.4302	up		XM_0010604 56
A_44_P4450 90	0.0096	1.1808	down	Gaa	NM_199118
A_44_P8834 45	0.0428	2.6671	up		
A_43_P1024 8	0.0273	1.1087	down	Ublcp1	NM_0010141 17
A_44_P1941 67	0.0499	8.1612	up	RT1-Ba	X14879
A_44_P1324 11	0.0226	1.1086	up	RGD131023 0	NM_0010390 15
A_44_P6522 13	0.0087	1.4278	up		
A_44_P2556 52	0.0392	1.1931	down	Akap9	NM_0010370 93
A_44_P3604 86	0.0104	1.4614	down	Cyp4b1	NM_016999
A_44_P3664 29	0.0190	1.2408	up		AA955240

A_44_P8369 50	0.0102	1.1150	up		
A_44_P2951 25	0.0203	1.3060	up		
A_44_P3677 26	0.0035	1.2451	down	Isca1	NM_181626
A_44_P7601 60	0.0308	1.6147	up		
A_44_P1015 606	0.0494	1.2053	up	Sfrs8	NM_0010349 24
A_43_P1458 1	0.0160	1.2462	up	Cbll1	NM_0011080 18
A_44_P3008 18	0.0469	1.1445	up		AF030087
A_44_P1060 234	0.0439	1.1828	down	Pdcl3	NM_0010257 09
A_43_P1818 6	0.0214	1.1257	down		XM_232226
A_44_P6674 69	0.0212	1.2465	up		
A_44_P6389 52	0.0288	1.4373	down		
A_44_P2364 07	0.0076	1.5242	down	Lnx1	NM_0011083 58
A_44_P5232 08	0.0309	1.6209	down		XM_217114
A_43_P1907 2	0.0096	1.3682	down	Fam83h	NM_0011305 65
A_44_P9278 40	0.0035	1.2452	down	Agpat3	NM_0011063 78
A_44_P4792 39	0.0309	1.4164	up		BE117476
A_44_P4939 24	0.0428	1.2730	down	Man2b1	NM_199404
A_44_P7603 60	0.0326	1.5979	up		
A_44_P2443 88	0.0018	1.2925	up		AABR030579 77
A_44_P4561 91	0.0102	1.3289	up		DV714691
A_44_P9668 88	0.0002	3.7755	up		
A_44_P4956 11	0.0022	1.2154	up	Wdfy3	NM_0011705 51

A_44_P5269 33	0.0268	1.2899	down	Ctnnb1	NM_053357
A_44_P6557 53	0.0262	1.7367	up		
A_44_P3735 16	0.0173	1.2786	up	Pitpnc1	XM_573213
A_44_P8686 11	0.0200	1.2666	down		
A_44_P5392 31	0.0134	1.4111	up		
A_44_P3885 72	0.0227	1.1551	down	Ubxn1	NM_0010348 29
A_44_P7363 97	0.0230	1.1544	down		
A_44_P1161 87	0.0211	1.3615	up		BG669136
A_44_P4967 06	0.0478	1.2464	down	Ikbke	NM_0011088 54
A_44_P3588 07	0.0036	1.3994	down	Surf6	NM_0010150 14
A_44_P2268 58	0.0496	1.3845	down	Mrfap1	NM_0010092 64
A_44_P2534 68	0.0412	1.3419	up		XM_343922
A_44_P1565 89	0.0316	1.2871	down	Ngef	NM_0011362 41
A_44_P2486 34	0.0355	1.2778	down	Selo	NM_0010854 85
A_44_P2747 56	0.0316	1.4835	down	Cdcp1	NM_0011068 69
A_44_P1147 20	0.0475	1.4312	down	Adprhl2	NM_0011086 80
A_43_P1091 9	0.0100	1.1765	up	Exosc8	NM_0011064 32
A_44_P4875 62	0.0392	1.3347	down	Net1	NM_0010390 23
A_44_P2052 89	0.0439	1.7158	up		AA858990
A_44_P3981 67	0.0420	1.2628	down	Prdx1	NM_057114
A_44_P4126 72	0.0336	1.1545	down	Rufy2	NM_0011685 86
A_44_P4347 66	0.0281	1.1384	up		BX883047

A_44_P6989 89	0.0123	1.7670	up		
A_44_P5435 76	0.0420	1.3370	up		
A_43_P2171 9	0.0451	1.3152	down	Mpzl2	NM_0011068 18
A_44_P2781 40	0.0383	1.1303	down		AW143234
A_44_P3775 93	0.0012	1.6926	up	LOC100361 838	XM_0027253 90
A_44_P7265 01	0.0271	1.3589	down		AW919920
A_44_P1553 21	0.0416	2.7468	up		M67496
A_44_P1122 37	0.0066	1.3690	up		
A_44_P8026 72	0.0441	3.0718	up		AW914691
A_44_P4326 31	0.0341	1.1331	up		BF388440
A_44_P1000 383	0.0003	1.5072	up	Eprs	BC088324
A_44_P6993 98	0.0098	1.1588	down	Zfp445	XM_236726
A_44_P3830 88	0.0067	2.0606	down		AF366899
A_42_P8139 75	0.0303	1.0951	up	Kdm3a	NM_175764
A_44_P7611 79	0.0232	1.1522	up		
A_44_P5256 81	0.0150	1.6176	up	RGD156618 6	XM_0010701 55
A_44_P5074 19	0.0119	1.2062	up	Trak2	NM_133560
A_44_P4734 49	0.0041	1.4301	up		XM_227913
A_44_P1712 61	0.0439	1.8372	down	Sh2d7	XM_0010724 62
A_44_P4333 83	0.0131	1.3409	up		S58644
A_44_P1628 92	0.0478	1.7254	up		U68562
A_44_P4690 57	0.0002	1.5175	up	RGD156152 7	XM_236973

A_44_P9744 25	0.0150	1.6526	up		
A_44_P4620 10	0.0002	1.1969	down	Zbtb17	NM_0010121 05
A_44_P1022 978	0.0067	1.5870	up		AA801048
A_44_P3380 59	0.0312	1.4437	down	RGD131118 8	NM_0011358 97
A_43_P1716 4	0.0264	1.3581	up	Pcaf	XM_217321
A_43_P1205 9	0.0378	1.2807	down	Rnase4	NM_020082
A_42_P5260 30	0.0087	1.2553	down	Decr1	NM_057197
A_44_P3103 36	0.0004	1.5061	up		AW521171
A_44_P5917 29	0.0455	1.3030	down	Gnal	XM_341626
A_44_P5451 14	0.0321	1.3214	up		AA899814
A_44_P7618 86	0.0295	1.1287	up	Zswim1	XM_230846
A_44_P3859 88	0.0105	1.1196	down	Ahcy11	NM_0011085 61
A_44_P6529 41	0.0243	1.3138	down		
A_44_P8227 89	0.0435	1.0964	up		
A_44_P4115 05	0.0109	1.3893	up	Ccnd1	NM_171992
A_44_P2027 26	0.0255	1.2770	down		BF406960
A_44_P2676 10	0.0040	1.4158	up	Trib2	NM_0011080 15
A_44_P9146 32	0.0108	1.4266	up		
A_44_P4265 24	0.0333	1.4842	down	Creg1	NM_0011059 66
A_44_P2559 05	0.0063	1.4903	down	Tnk1	NM_0011070 12
A_44_P3599 39	0.0344	1.2754	up		AA859649
A_44_P2298 87	0.0125	1.7340	down	Acbd4	NM_0010120 13

A_43_P21280	0.0461	1.2565	down	Agap1	NM_001108230
A_44_P574914	0.0129	1.4684	down		EV773002
A_44_P358782	0.0276	1.4270	down	Wdr47	NM_001100702
A_44_P548790	0.0089	1.4347	up	LOC299915	XM_235301
A_44_P200624	0.0041	1.5344	up		AA998294
A_44_P1011253	0.0305	1.1419	up	Nars	NM_001025635
A_44_P170524	0.0132	1.4039	down	Tpcn1	NM_139332
A_44_P235591	0.0446	1.3277	up		CA504421
A_44_P247139	0.0096	1.1117	up	MGC112830	NM_001025718
A_44_P683608	0.0125	1.2818	up		CK599356
A_44_P1049252	0.0159	1.2106	down	Naprt1	NM_207609
A_44_P515048	0.0293	1.2123	up		AW140632
A_44_P560458	0.0400	1.1537	down		XM_001062165
A_44_P623479	0.0383	1.4914	up		
A_44_P242206	0.0182	1.2036	up		AW918133
A_43_P23188	0.0079	1.2917	down		BC107473
A_44_P314169	0.0335	1.2344	down		DY561793
A_44_P125409	0.0159	1.0821	up		XM_216889
A_44_P181783	0.0225	1.6029	up		BE118901
A_44_P526046	0.0356	1.3898	up		BQ196010
A_44_P318444	0.0001	1.7915	down	Bco2	NM_001127712
A_44_P322677	0.0062	1.7871	up		AW434781

A_43_P2182 1	0.0499	1.2842	down		CB547114
A_44_P8368 06	0.0176	1.5190	up		XR_006817
A_43_P1710 8	0.0318	1.1591	up	Srrm1	NM_0011079 86
A_44_P3236 64	0.0440	1.0839	up	RGD155968 2	XM_341363
A_42_P8332 12	0.0089	1.1218	up	Eif4h	NM_0010069 57
A_43_P1695 4	0.0497	1.2301	down	LOC686323	NM_0011275 70
A_44_P3779 10	0.0244	1.2462	down	Iqcb1	NM_0011070 92
A_44_P1216 82	0.0024	1.4758	up		XM_230870
A_44_P8084 72	0.0238	1.3397	up		
A_44_P4406 63	0.0006	1.2196	down	Prdm9	NM_0011089 03
A_44_P8832 54	0.0160	1.1306	up		XM_0010604 99
A_44_P3331 09	0.0474	1.2917	down	Pcdhb20	NM_0011093 95
A_44_P1113 68	0.0318	1.2332	up	Pak1ip1	NM_0010373 56
A_44_P1748 81	0.0010	2.6210	up		AI577346
A_44_P3850 30	0.0491	1.2641	up		AI170067
A_44_P5102 06	0.0069	1.4448	up		BE119829
A_44_P3836 76	0.0417	1.2690	down		AA964750
A_44_P5601 95	0.0293	1.2260	up		
A_44_P4901 88	0.0175	1.3462	down		XR_085884
A_44_P5291 14	0.0049	1.4493	up		AA818669
A_43_P1429 0	0.0476	1.1361	down	Slc35a5	XM_573283
A_44_P2169 20	0.0373	1.6014	up		AA924413



A_44_P9413 42	0.0438	1.2860	up	Reep5	NM_0011088 88
A_44_P7296 21	0.0200	1.2437	up	Maml1	NM_0011069 97
A_44_P8215 28	0.0085	1.7548	up		
A_44_P2899 51	0.0142	1.2410	up		AW914233
A_44_P4501 40	0.0289	1.2839	up		XM_224783
A_44_P1499 25	0.0140	1.5997	down		XM_0027265 85
A_44_P4024 25	0.0442	1.1164	up	Bwk1	NM_198743
A_44_P1937 36	0.0196	1.4050	up		AI011505
A_43_P1192 6	0.0218	1.1088	down		J02752
A_44_P8217 92	0.0122	1.2275	down		
A_44_P8656 20	0.0411	1.3273	down		AW914057
A_44_P1949 09	0.0206	1.3292	down	Ripk4	NM_0011071 03
A_43_P1234 6	0.0203	1.4590	down	Mertk	NM_022943
A_43_P1146 2	0.0157	1.2621	up	Ets1	L20681
A_44_P3062 38	0.0054	1.6260	up		BF287427
A_42_P8176 68	0.0080	1.2098	down		BC086427
A_44_P7626 70	0.0122	1.3547	down		FM074540
A_44_P2408 28	0.0372	1.1063	down	Giyd2	NM_0010092 92
A_44_P3872 90	0.0317	1.2462	down	Twf1	NM_0010085 21
A_44_P5741 34	0.0153	1.2116	down	Slc35f5	NM_0011059 50
A_44_P1042 50	0.0433	1.2166	up	Mrps14	NM_0011059 63
A_42_P5099 67	0.0317	1.8271	down	Slc7a9	NM_053929

A_44_P9185 16	0.0467	1.3641	up		
A_43_P1350 9	0.0070	1.5156	down	Slc39a13	NM_0010391 96
A_44_P4875 94	0.0006	1.3056	down		XM_0027262 33
A_44_P1071 355	0.0355	1.1493	down	Usp10	NM_0010341 46
A_44_P2275 71	0.0307	1.4411	down		
A_44_P2774 23	0.0396	1.3472	up		AI177752
A_44_P9023 75	0.0160	1.4613	up		
A_44_P5685 60	0.0097	1.3058	up		CD371170
A_43_P2043 0	0.0203	1.3683	down	Lats2	NM_0011072 67
A_44_P1522 05	0.0196	1.6489	down		XM_575674
A_44_P1605 45	0.0207	1.1880	up		DV725496
A_44_P2004 31	0.0062	1.6641	up		AA965274
A_44_P7285 24	0.0468	1.2404	down		
A_42_P6488 00	0.0296	1.3891	down		AA998304
A_44_P7707 24	0.0018	1.2352	up		
A_44_P4700 43	0.0298	1.2288	up	Brd1	NM_0011081 03
A_44_P1750 78	0.0242	1.2565	down	Col27a1	NM_198747
A_44_P4616 57	0.0214	1.2402	up		XM_219533
A_43_P1305 4	0.0320	1.1682	down	Hadh	NM_057186
A_44_P9252 39	0.0453	1.2344	up		AA998060
A_44_P1050 333	0.0301	1.2305	up		XR_009210
A_44_P4956 48	0.0388	1.2990	down	Sec24b	NM_0011064 74

A_44_P8966 98	0.0029	1.1666	down		AW914836
A_44_P2090 58	0.0240	1.1769	up	Satb1	NM_0010121 29
A_44_P1817 18	0.0421	1.4224	down		BI285476
A_44_P1019 772	0.0468	1.1656	up		BF523849
A_44_P5034 71	0.0161	1.7885	down	Itga7	NM_030842
A_44_P8532 68	0.0480	1.1888	down		EV777007
A_44_P1133 60	0.0012	1.4313	up		AI102738
A_44_P1112 74	0.0449	1.2185	up		CA508891
A_42_P7888 10	0.0198	1.6074	down		AW918709
A_43_P1734 5	0.0388	1.3398	down	Ubp1	XM_238562
A_44_P3604 78	0.0390	1.4042	up		AF151373
A_43_P2071 7	0.0211	1.8893	down	Lars2	NM_0011087 87
A_44_P5409 44	0.0233	1.2413	down	Plekha5	AF468695
A_44_P2046 48	0.0270	1.5455	up		AB040488
A_44_P5087 24	0.0140	1.1483	up		
A_44_P2765 30	0.0128	1.4801	down	Ogfod2	NM_0011059 27
A_44_P3826 11	0.0448	1.2769	down	Tmub2	NM_0010316 51
A_44_P4062 48	0.0361	1.2046	down		BM392313
A_44_P3433 93	0.0006	1.4981	down		AI009597
A_44_P5276 22	0.0396	1.3183	up		
A_44_P1008 607	0.0151	1.2536	up		XM_341112
A_44_P4638 31	0.0337	1.3568	down	Zfp423	NM_053583

A_44_P4621 69	0.0306	1.4651	up		XM_344035
A_44_P6510 53	0.0025	1.5753	up	Supt16h	NM_0011072 61
A_44_P2723 53	0.0250	1.2255	up	LOC367117	NM_0010479 19
A_44_P1797 87	0.0129	1.2442	down	Panx2	NM_199409
A_44_P6089 72	0.0051	1.3820	down		
A_44_P1145 00	0.0278	1.4490	up	Gipc2	NM_0010372 10
A_44_P7005 37	0.0317	1.2571	up	Prdm15	NM_0011071 04
A_44_P5289 39	0.0003	1.8665	down		AA859805
A_43_P1071 2	0.0017	1.1883	down		CO385963
A_43_P1305 9	0.0498	1.1349	up	Uba3	AF336829
A_44_P7769 37	0.0339	1.1081	down	RGD156019 1	CR754170
A_44_P7421 38	0.0144	1.2272	up		AW918487
A_44_P5014 10	0.0090	1.6517	up		
A_44_P1023 480	0.0067	1.5774	up	Snrnp48	NM_0011061 07
A_44_P2776 69	0.0088	1.3593	up	RGD155996 1	NM_0011637 36
A_44_P6537 76	0.0103	1.3221	down		
A_44_P1589 73	0.0034	1.2131	down	Rab35	NM_0010130 46
A_44_P6891 18	0.0371	1.2039	down		CO402250
A_44_P2073 69	0.0427	1.2038	down		BE113217
A_44_P9610 09	0.0063	1.1649	down		FM069449
A_44_P6235 37	0.0054	1.5035	up		
A_44_P2966 31	0.0146	1.2495	up	Krccl	NM_0010094 13

A_42_P5616 28	0.0053	1.5269	down		AW917665
A_44_P5074 69	0.0014	1.5905	up	Myof	XM_220031
A_44_P4127 10	0.0370	1.4121	down	Adhfe1	NM_0010254 23
A_44_P3287 67	0.0114	1.4911	down	Smcr7l	NM_0010077 09
A_44_P1017 415	0.0059	1.2183	up	Wdr43	NM_0010377 91
A_42_P5277 38	0.0184	1.2310	down	Nlr1	NM_0010250 10
A_44_P1454 08	0.0010	1.2772	down		CB791980
A_44_P2987 09	0.0296	1.4697	up		BM986655
A_42_P4713 35	0.0468	1.1780	down	Znf76	NM_0011347 55
A_43_P1198 1	0.0491	1.1131	down	Aes	NM_019220
A_44_P5296 72	0.0205	1.1798	up		
A_44_P9628 90	0.0067	1.2312	up		
A_44_P1494 06	0.0132	1.4792	down	Cbr4	NM_182672
A_44_P1851 74	0.0087	1.3981	down		EX493555
A_44_P1425 94	0.0191	1.1162	down		XM_230719
A_43_P1035 3	0.0033	1.3204	up		XM_213569
A_44_P7218 23	0.0006	2.5666	up	Zbtb20	NM_0011058 80
A_42_P7438 25	0.0204	1.1883	up	Psme3	NM_0010118 94
A_44_P2013 79	0.0102	1.3162	down	Ldb1	NM_0011076 01
A_44_P1990 38	0.0176	1.5501	down	Zfp385d	NM_0010139 92
A_42_P4722 74	0.0035	1.3422	down	Slurp1	NM_0011305 44
A_44_P5218 93	0.0037	1.3758	down		BG669130

A_44_P1799 99	0.0303	1.1975	down		AJ224680
A_44_P2106 63	0.0416	1.6681	up		XM_341899
A_44_P5296 91	0.0208	1.2162	up	Rbbp8	NM_0011344 17
A_44_P5403 04	0.0389	1.2055	up		BG671895
A_44_P1003 517	0.0093	1.1505	up	Psm6	NM_198730
A_44_P1201 67	0.0080	1.2490	up		AW914891
A_44_P3769 79	0.0172	1.1659	down	Yrdc	NM_175604
A_44_P1827 92	0.0455	1.1810	down	Fkbp8	NM_0010371 80
A_44_P4902 53	0.0045	1.3740	up	RGD156248 9	XM_0010714 19
A_44_P4360 63	0.0006	1.5887	up		
A_44_P4736 87	0.0355	1.0907	up	Zcrb1	NM_0010349 40
A_44_P7920 63	0.0014	1.2643	down		
A_44_P9930 27	0.0129	1.2378	up	Pla2g16	NM_017060
A_44_P4005 27	0.0226	1.1587	up	Zfp347	NM_133390
A_44_P3234 96	0.0334	1.3317	down	Inpp5d	NM_019311
A_44_P1791 65	0.0005	2.2150	up	Fgl2	NM_053455
A_44_P5849 26	0.0457	2.5636	up		
A_44_P7248 20	0.0003	2.1651	up		BI395747
A_44_P4593 22	0.0011	1.4113	up		XR_009585
A_44_P6313 61	0.0454	1.2883	up		
A_44_P1983 15	0.0364	1.1895	up		BF523839
A_44_P6933 79	0.0188	1.1241	down		

A_44_P1567 05	0.0009	1.6048	up		XM_223490
A_44_P3221 18	0.0204	1.1294	up	Rps7	X56846
A_44_P1038 946	0.0364	1.1455	up	Csde1	NM_054006
A_44_P2501 94	0.0301	1.0987	up	G3bp1	NM_133565
A_44_P5900 86	0.0471	1.5687	down		FM100783
A_42_P5478 47	0.0499	1.2299	down	Fbp2	NM_053716
A_44_P9307 23	0.0233	1.4984	up		XR_009205
A_44_P1970 41	0.0280	1.1837	down	Ypel5	NM_0010352 21
A_44_P1021 01	0.0173	1.3843	up		AI073261
A_44_P3764 23	0.0035	1.3702	up		AI599243
A_44_P7710 52	0.0278	1.4683	down	Slc41a3	NM_0010374 92
A_44_P4147 75	0.0293	1.1231	down	Cno	NM_0011007 66
A_44_P4944 39	0.0243	1.1605	down	Cnnm2	NM_0010119 42
A_44_P3042 38	0.0475	1.5902	up	LOC316717	M58436
A_44_P1005 540	0.0111	1.1953	up	Brd7	NM_0011084 40
A_44_P4712 17	0.0178	1.9794	up		
A_44_P1848 74	0.0017	1.8139	up	RGD156363 6	XM_0010685 93
A_44_P8211 04	0.0196	1.5019	up		AA963229
A_44_P4946 96	0.0020	1.3461	up		
A_44_P1942 56	0.0146	1.4661	down	Gstt2	NM_012796
A_44_P9328 28	0.0037	1.4381	up		
A_44_P1618 23	0.0020	1.7161	up	RGD130904 9	NM_0010139 56

A_44_P2212 87	0.0194	1.2505	down	Cc2d1b	BC089922
A_44_P2033 55	0.0204	1.5472	down	Hapln2	NM_022285
A_44_P7502 50	0.0339	1.2568	down		
A_44_P6077 52	0.0287	1.6176	down		
A_44_P3974 23	0.0341	1.2660	up	Tmcc3	NM_0011080 84
A_44_P3206 55	0.0039	1.9331	up	F2r	NM_012950
A_43_P1502 3	0.0302	1.3469	up	Thbd	NM_031771
A_43_P1823 8	0.0322	1.3467	down	Arfip2	NM_0010042 22
A_44_P7512 64	0.0260	1.5318	up		
A_44_P2270 83	0.0369	1.1467	down	Klhl5	NM_0010470 93
A_44_P4685 44	0.0454	1.3969	down	Cyb5r1	NM_0010131 26
A_44_P1630 53	0.0371	1.4699	up		AI230440
A_44_P2158 17	0.0221	1.1312	down	Arih2	NM_0010122 75
A_42_P6273 94	0.0447	1.2121	down		BC089998
A_42_P4707 57	0.0130	1.0891	down	Rnf34	NM_0010040 75
A_44_P9021 99	0.0091	1.2044	up		
A_44_P6050 02	0.0386	1.7775	up	Slc45a4	XM_235397
A_44_P5418 30	0.0135	1.6483	up		AI233305
A_44_P5247 79	0.0105	1.4132	down	Slc4a5	NM_212512
A_44_P4504 96	0.0018	1.3661	down		XM_0010647 79
A_43_P1319 9	0.0467	1.3195	down	Folr1	NM_133527
A_44_P5632 81	0.0200	1.5047	up		



A_44_P1059 623	0.0111	1.1917	up		XM_231361
A_44_P4206 46	0.0002	1.7558	up	Ergic2	NM_0010249 84
A_44_P7005 88	0.0102	1.1838	up		FM068923
A_44_P9678 24	0.0389	1.4076	down		AW142574
A_44_P2706 69	0.0119	1.1177	up		DV727326
A_44_P8840 37	0.0052	1.1890	up		
A_44_P4388 49	0.0417	1.1450	up	Mrpl22	NM_0011057 81
A_42_P6842 64	0.0047	1.4112	down	RGD156181 7	NM_0011064 22
A_44_P6397 05	0.0151	1.2966	up		
A_44_P6076 32	0.0028	1.3625	down	Tmem121	XM_0010792 43
A_44_P3915 99	0.0389	1.2452	down	Tbc1d7	NM_0011084 11
A_44_P1005 199	0.0027	1.6604	up	Lrig3	BC168689
A_44_P2121 02	0.0292	1.4986	up		AI044349
A_44_P9781 50	0.0495	1.1894	up		
A_44_P1121 92	0.0479	1.1704	down	Ankrd28	XM_224620
A_44_P5185 23	0.0193	1.2862	down	Ankrd39	NM_0011350 14
A_43_P2319 7	0.0230	1.2135	up	MGC95208	NM_0010055 52
A_42_P5721 23	0.0470	1.2842	down	Fxyd1	NM_031648
A_44_P6818 36	0.0279	1.2898	up		CO572285
A_44_P1023 264	0.0422	1.1162	up	Slc37a4	NM_031589
A_44_P7882 69	0.0064	1.3022	up		DV720777
A_44_P1376 99	0.0316	1.3716	down	Mpst	NM_138843

A_43_P1199 7	0.0072	1.6311	up	Klrc2	NM_019261
A_44_P7295 72	0.0160	1.1257	up	Nfatc3	NM_0011084 47
A_44_P2878 03	0.0165	1.3604	up		AA996470
A_44_P2064 39	0.0092	1.3355	up		XM_222435
A_42_P5619 46	0.0393	1.1098	up	Pex12	NM_053921
A_44_P8806 18	0.0378	1.1683	down	Slc25a36	XM_576451
A_44_P4030 65	0.0075	1.3036	up		
A_44_P1807 31	0.0226	1.4733	down	Zfpm2	NM_0011305 01
A_44_P2626 08	0.0397	1.2744	up	Bdp1	NM_0011064 03
A_44_P1621 15	0.0499	1.3476	up		CV079281
A_44_P2427 04	0.0182	1.1959	down		BE329450
A_43_P1065 6	0.0116	1.7103	down	Casc4	XM_342506
A_44_P5186 73	0.0020	1.4014	down	Epb4.9	NM_0011083 85
A_44_P7021 92	0.0046	1.7397	up		
A_44_P8503 36	0.0004	1.8108	up		BG673380
A_44_P2047 89	0.0175	1.1720	down	Pex11b	NM_0010256 84
A_44_P7573 72	0.0138	1.3989	down		XM_0010579 87
A_44_P8065 60	0.0081	1.5261	up		
A_44_P6516 72	0.0064	1.3937	up		
A_44_P5060 39	0.0223	1.3767	down	Tsc1	NM_021854
A_44_P9963 38	0.0204	1.2002	up	Arid4a	NM_0011080 29
A_44_P3138 15	0.0052	1.3267	down	Tesk2	NM_133396

A_44_P2864 71	0.0348	1.1668	up	Sec24a	NM_0011057 80
A_44_P7275 04	0.0333	1.4401	down		BF289421
A_44_P3107 71	0.0466	1.1626	up		DY471696
A_44_P4797 77	0.0284	1.2547	up		AI105455
A_42_P6226 23	0.0362	1.3223	down	Tbc1d10a	BC093603
A_44_P4842 28	0.0447	1.5513	down		AI104132
A_43_P1269 8	0.0413	1.1298	down	Lgals3	NM_031832
A_44_P5080 19	0.0199	1.0761	down	Mapkapk5	NM_0010257 61
A_44_P1055 06	0.0153	1.3748	up		
A_43_P1570 9	0.0377	1.1149	down	Sra1	NM_183329
A_44_P1581 07	0.0345	1.4650	down	Sorbs2	NM_053770
A_44_P1747 49	0.0434	1.7014	down		BF396509
A_44_P6681 37	0.0114	1.4085	down	Sf3a1	NM_0011072 35
A_44_P4056 55	0.0123	1.0987	up	LOC499339	NM_0010250 36
A_43_P1786 8	0.0487	1.7231	down	Gdpd2	NM_0011069 44
A_43_P1876 8	0.0203	1.4393	down	Ace2	NM_0010120 06
A_43_P1525 9	0.0117	1.1662	up	Tnfrsf1a	NM_013091
A_44_P6085 19	0.0005	1.8899	up	RGD156466 4	NM_0011100 55
A_44_P1016 309	0.0015	1.2101	down	Dis3l2	NM_0011090 07
A_44_P4123 49	0.0103	1.4589	up		
A_44_P6228 41	0.0083	1.4625	up		
A_43_P1047 4	0.0365	1.1786	up		

A_44_P1016 829	0.0243	1.2849	up	Trib1	NM_023985
A_44_P2369 55	0.0080	1.5281	down		BF555796
A_44_P3297 84	0.0249	1.1930	up	RGD156558 4	NM_0011062 79
A_44_P1447 96	0.0005	1.5076	up		XM_341403
A_44_P1697 37	0.0408	1.1272	up		BQ782032
A_44_P7825 53	0.0320	1.6492	down		
A_44_P5559 76	0.0242	1.2974	up		BM388581
A_44_P1251 60	0.0087	1.3611	up		AA849965
A_44_P4145 09	0.0406	1.1592	up		U08214
A_44_P3191 80	0.0045	1.4507	down		BC098809
A_44_P3779 65	0.0226	1.2054	up		AI102620
A_44_P5112 54	0.0106	1.3129	up		XM_229109
A_44_P1006 60	0.0012	1.6190	up	LOC100362 391	XM_0027284 89
A_44_P1001 914	0.0154	1.2848	up	Ccdc93	NM_0010249 97
A_44_P4710 53	0.0285	1.0861	up	Rg9mtd2	NM_0010442 32
A_44_P1609 43	0.0443	1.0581	down	Zfyve27	NM_199104
A_44_P5405 70	0.0008	1.7347	up	Cox7c	NM_0011347 05
A_44_P7480 50	0.0165	1.1935	up		
A_44_P3389 62	0.0451	1.1549	down	Taf5l	NM_0011074 42
A_44_P4492 82	0.0073	1.4236	up		BI294916
A_44_P8336 26	0.0173	1.1414	up	Pls3	NM_031084
A_44_P6505 50	0.0475	1.2762	up		BF289404

A_44_P2088 87	0.0348	1.3422	down	Rpusd1	NM_0011057 74
A_44_P2570 58	0.0025	1.7777	up	Adamts1	AF149118
A_44_P3068 10	0.0220	1.3138	down	Trpt1	NM_0011063 31
A_42_P6366 08	0.0370	1.2015	down	Zkscan3	NM_0010120 53
A_44_P5873 35	0.0438	1.5054	up		BF389602
A_44_P4372 03	0.0005	2.8026	up		CF110025
A_42_P6610 18	0.0459	1.1382	up	Phlpp1	NM_021657
A_44_P1240 91	0.0031	1.1971	up		XM_232669
A_44_P2101 16	0.0495	1.0763	down	Twf1	NM_0010085 21
A_44_P7451 00	0.0122	1.1743	up	Cisd2	XM_215704
A_44_P2639 57	0.0098	1.3341	up	Oxr1	BC166763
A_44_P4504 71	0.0264	1.2889	down	Ppp1r16a	NM_0011305 66
A_44_P8116 06	0.0426	1.1666	up	Ripk2	BC107468
A_43_P2028 5	0.0393	1.2413	down		CB548449
A_44_P9958 87	0.0010	1.3989	up		
A_44_P4450 31	0.0395	1.2626	down	Fbxo32	NM_133521
A_44_P5415 82	0.0289	1.4583	down		XM_343383
A_44_P8844 37	0.0018	1.6851	up		
A_42_P7434 95	0.0121	1.2029	up	Rwdd1	NM_147146
A_44_P1123 22	0.0042	1.4913	up		XR_006437
A_44_P5325 57	0.0128	1.4804	down	LOC304131	NM_0010139 79
A_44_P4439 16	0.0130	1.3141	up	Fam102b	NM_0011635 68

A_44_P2695 82	0.0003	2.0315	up	Dusp8	NM_0011085 10
A_44_P5519 09	0.0174	1.1957	up	Ep400	NM_0011071 49
A_44_P2723 09	0.0024	1.6189	up	LOC100362 125	XM_0027267 10
A_44_P3040 11	0.0226	1.2206	down	Tmem132a	NM_178021
A_44_P5749 59	0.0190	1.2778	down	LOC681694	NM_0010442 79
A_44_P3361 48	0.0203	1.2164	down		DV717140
A_44_P4627 53	0.0473	1.2365	up	Ahsa2	NM_0011072 41
A_44_P8583 98	0.0189	1.3536	down	LOC498145	NM_0010174 85
A_44_P4525 12	0.0035	1.2080	up		
A_44_P4501 07	0.0203	1.3608	up	RGD156007 6	XM_0010739 16
A_43_P1306 6	0.0185	1.1230	down	Echs1	NM_078623
A_44_P4029 95	0.0389	1.1725	up		
A_44_P2620 78	0.0499	1.4266	up	Gfi1	NM_012566
A_44_P4856 40	0.0005	1.2099	up	RGD156545 9	XM_0010816 26
A_44_P4265 41	0.0180	1.1929	down	Arhgap24	NM_0010120 32
A_44_P1039 809	0.0289	1.2149	up	Rasip1	NM_0011062 61
A_44_P5286 21	0.0287	1.2614	down	Hadh	NM_057186
A_44_P4440 34	0.0073	1.3075	up	Zfp748	XM_0010563 56
A_44_P5837 74	0.0001	2.6213	up		BF286548
A_44_P5531 70	0.0418	1.2104	down	RGD130739 9	NM_0010480 43
A_44_P9920 56	0.0069	1.7605	up	Tmem106a	NM_0010249 67
A_44_P8985 66	0.0201	1.4528	up		

A_44_P3987 92	0.0002	1.4184	up	Tpt1	NM_053867
A_44_P4903 24	0.0390	1.3152	up		XM_0027288 96
A_42_P4549 90	0.0363	1.1295	up		XM_0027294 25
A_44_P1007 247	0.0402	1.1469	up	Elmo2	NM_0011349 55
A_44_P4285 75	0.0011	1.5854	up		AY321319
A_43_P2126 9	0.0468	1.2697	up		CB546606
A_44_P1120 98	0.0006	1.5642	up		
A_44_P3062 96	0.0405	1.1495	up		BI303604
A_44_P5327 54	0.0367	1.1223	up	Pbx3	NM_0011078 34
A_44_P5215 87	0.0074	1.2707	up	Arhgef3	NM_0011060 61
A_44_P2851 61	0.0410	1.2570	up		AI101103
A_44_P3034 92	0.0381	1.2897	up		AI168935
A_42_P5407 74	0.0476	1.1175	down	Acadm	NM_016986
A_44_P3497 69	0.0106	1.3962	up		XM_227850
A_43_P1803 9	0.0378	1.1979	up	Map3k7ip2	NM_0010120 62
A_44_P3047 52	0.0023	1.3630	up		XM_226367
A_44_P8376 44	0.0001	2.6208	up	Ankfy1	NM_0011070 18
A_44_P2779 57	0.0054	1.3308	up		AA997603
A_44_P3855 79	0.0384	1.1052	up		AW918085
A_44_P6108 36	0.0042	1.8688	up		CO570498
A_44_P3810 08	0.0356	1.2250	up		BI285943
A_44_P1652 03	0.0250	1.1874	up		AA996426

A_44_P4722 71	0.0287	1.2547	up	Rgl1	NM_0011059 57
A_44_P4138 25	0.0053	1.2462	up		CA508891
A_44_P1024 476	0.0281	1.2079	up	Kif13a	NM_0011074 62
A_44_P4596 79	0.0249	1.3553	up		XR_006781
A_42_P5291 93	0.0123	1.2541	up	Sdhc	NM_0010055 34
A_44_P7138 33	0.0201	2.1413	down		XM_575015
A_44_P7452 53	0.0231	1.1094	up		
A_44_P5147 81	0.0102	1.3340	up		BQ782745
A_44_P8084 51	0.0254	1.2476	down		
A_44_P8233 17	0.0159	1.1218	down		
A_44_P8481 09	0.0401	1.2533	up		AW916604
A_44_P3090 81	0.0295	1.3298	down	Hspa2	NM_021863
A_44_P2901 68	0.0156	1.1895	down	Fah	NM_017181
A_44_P5277 98	0.0015	2.1677	up		AABR030558 81
A_44_P2509 00	0.0074	1.5536	up		XR_008936
A_44_P4445 39	0.0021	1.2990	up		AI578566
A_44_P5578 85	0.0067	1.2483	up		
A_43_P1581 9	0.0275	2.1644	down	Prss22	NM_0011069 84
A_43_P1053 8	0.0394	1.1011	up	Pex19	NM_0011073 75
A_44_P7768 57	0.0086	1.2471	up		AW920955
A_44_P9995 32	0.0149	1.2079	up	Rpl36al	NM_031105
A_44_P4079 54	0.0500	1.2657	up		XM_228823



A_44_P1722 86	0.0139	1.7614	up	AI072186
A_44_P2536 23	0.0497	1.2509	up	BF558976

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S2 Table Analyzed transcriptomics parameters of lung tissue of Bufei Jianpi formula-treated rats

ProbeName	P-value(B_vs_D)	FCAbsolute(B_vs_D)	regulation(B_vs_D)	GeneSymbol	GenbankAccession
A_42_P504653	0.028773	2.27091	down	F10	NM_017143
A_44_P549509	0.025315	1.115081	up	Rbm6	NM_001108186
A_44_P884555	0.005092	1.239808	up		BE113337
A_44_P675887	7.67E-04	1.349034	down		AW920694
A_42_P799113	0.03482	1.342838	up	Egfl7	NM_139104
A_44_P177907	0.038628	1.083391	up	Rccd1	XM_218819
A_44_P745811	0.0413	1.49267	down		
A_43_P14304	0.044091	1.16404	up		
A_43_P12841	0.013861	1.382113	up	Enpp1	NM_053535
A_44_P150185	0.039139	1.180293	up	Ltbp2	NM_021586
A_44_P1013851	0.012401	1.282629	up	Bmp2	NM_017178
A_42_P635881	0.023532	1.254802	down	Slc32a1	NM_031782
A_44_P868890	0.004368	1.277633	up	Gli2	NM_001107169
A_42_P602724	0.031219	1.900892	down	Ubd	NM_053299
A_43_P12708	0.007842	1.193455	up	Src	NM_031977
A_44_P241799	0.016773	1.489082	up		AI170252
A_42_P693715	0.036801	1.104317	up		AI412866
A_44_P462107	0.049641	1.216739	up	Dst	NM_001108208
A_44_P974594	0.046572	1.301499	down	Lrriq3	NM_001024307

A_44_P519 345	7.99E-04	1.131574	up		CF110294
A_44_P666 786	0.022389	1.162318	up	Akt1s1	NM_001106 259
A_44_P760 031	0.010481	1.153259	up	Rab11fip3	BC081997
A_44_P324 554	0.035905	1.276778	up		BF523761
A_44_P150 137	0.004656	1.396633	up		AA924386
A_44_P885 330	0.021444	1.113343	down		
A_43_P208 27	0.049426	1.435569	down	RGD15662 43	NM_001134 635
A_44_P256 188	0.012095	7.047386	up		BC103490
A_44_P681 677	0.021552	1.239688	up		BF289693
A_44_P102 265	0.048773	1.342857	up		AI227928
A_43_P131 89	0.023759	1.198553	up	Ppp1r14c	NM_133425
A_44_P431 109	0.043015	1.544165	up	Irs1	NM_012969
A_43_P115 29	0.039487	1.373952	up	Calcr1	NM_012717
A_44_P852 219	0.045337	1.201692	down		
A_44_P992 854	0.034831	1.643763	up	Rhoa	BC061732
A_44_P566 326	0.002925	1.413695	up		
A_44_P430 083	0.021573	1.192111	up	Far2	XM_575726
A_43_P123 55	0.018071	1.298148	up	Lphn1	NM_022962
A_43_P171 31	0.011467	1.303371	up	LOC30202 2	NM_001127 530
A_44_P213 415	0.032331	1.299912	up	Vdac1	NM_031353
A_44_P763 162	0.029935	1.141378	up	Ptpn4	NM_001100 479
A_44_P323 404	0.018114	1.273304	up	Cntf	NM_013166

A_42_P517 515	0.013223	1.267232	down	Fam96a	NM_001008 327
A_44_P390 700	0.030168	1.436274	down	Fhl2	NM_031677
A_44_P131 583	0.007149	1.20162	up		DV729096
A_44_P328 664	0.048655	1.116947	down		XM_233179
A_44_P100 847	0.02768	1.287002	down	Ttc7	NM_001100 756
A_44_P513 903	0.029823	1.180817	up		CB781747
A_44_P102 0311	0.025164	1.277252	up		XR_085753
A_44_P788 091	0.014293	1.374002	up		CK839277
A_44_P478 340	0.008026	1.960517	down	Msc	CX569607
A_43_P101 70	0.014269	1.23452	up		CB545779
A_44_P640 481	0.005148	1.174617	up		
A_44_P340 884	0.034594	1.202143	up		XM_343922
A_44_P143 349	0.034068	1.168152	up	Arfip1	NM_021763
A_44_P350 098	0.037128	1.195947	down	Alg9	NM_001109 000
A_44_P195 306	0.021864	1.129777	up	Ywhab	NM_019377
A_44_P555 567	0.027648	1.378138	up	Zfp407	XM_225679
A_44_P543 965	0.020931	1.231276	up		
A_44_P807 294	0.039468	1.140112	down	Cyb561d1	NM_001108 562
A_44_P364 792	0.028993	1.335156	up		BI288898
A_44_P669 569	0.030666	1.345512	down		
A_42_P749 820	0.015172	1.338552	down	Cdh13	NM_138889
A_44_P100 1517	0.002912	1.880745	up		AA963004

A_44_P732 138	0.010413	1.454839	up		
A_44_P291 755	0.028723	1.310811	up		AI230320
A_42_P568 060	0.002534	1.143599	up	Ppp4r2	NM_001106 613
A_44_P681 064	0.009676	1.542779	up		CO405369
A_44_P902 209	0.003503	1.123739	up	Add1	NM_016990
A_44_P546 432	0.022325	1.781387	up		
A_44_P512 575	0.038396	1.22666	up		BG378190
A_44_P140 248	0.037472	1.626414	down	Hfe2	NM_001012 080
A_44_P255 236	0.048772	1.29992	down	Acta1	NM_019212
A_43_P108 74	0.043171	1.3779	down	Tpm2	NM_001024 345
A_44_P456 256	0.001397	1.595391	up		AA925161
A_44_P830 181	0.042964	1.335595	up		
A_44_P684 242	0.015499	1.387717	up		
A_43_P123 34	0.048445	1.51185	down	Ptprq	NM_022925
A_44_P884 698	0.040888	1.160761	up	Ptpn4	NM_001100 479
A_44_P219 712	0.048296	2.793683	up	Ostn	AY398682
A_43_P155 72	0.042151	1.316937	up	Vegfa	NM_031836
A_44_P250 476	0.047867	1.261423	down	Zdhhc13	NM_001039 037
A_44_P836 445	0.041491	1.413331	up	Aph1a	NM_001014 255
A_44_P183 142	0.046541	1.293191	up		XM_343286
A_44_P371 798	0.027338	1.22287	up		AI136559
A_44_P295 680	0.040471	1.496738	up		AI385133

A_44_P102 1246	0.033379	1.197418	up		AA965157
A_44_P139 211	0.033038	1.223524	up		AA925900
A_44_P105 984	0.036916	1.216695	up		BF406511
A_44_P443 019	0.03969	1.196242	down		XR_008646
A_43_P174 73	0.035322	1.154898	up	Bcl9	NM_001107 703
A_44_P396 123	0.032076	1.174195	up	S100a16	NM_001108 557
A_44_P912 777	0.048744	1.099597	up	RGD13105 53	NM_001008 517
A_44_P647 819	0.012311	1.173471	up		AW142419
A_44_P538 658	0.011296	1.277675	down	Slc7a7	NM_031341
A_42_P582 777	0.04219	1.177679	up	Mapk1ip1	NM_001122 782
A_44_P729 285	0.030086	1.212834	up		
A_44_P260 891	0.045041	1.299453	up		BU759568
A_44_P442 546	0.01255	1.318633	down	Prm1	NM_001002 850
A_44_P458 494	0.01353	1.20554	up		AA924972
A_44_P352 820	0.020979	1.25244	up		AA892319
A_44_P350 709	0.030723	1.302478	up		BF285026
A_44_P134 561	0.0064	1.374067	down	Aifm2	NM_001139 483
A_44_P881 169	0.020869	1.218604	up		BE329329
A_42_P469 142	0.011669	1.23588	up	Lmo7	NM_001001 515
A_43_P112 15	0.048721	1.073104	up	Pdcd5	NM_001106 247
A_43_P134 51	0.037792	1.31538	up	Apbb2	XM_223399
A_44_P277 719	0.022251	1.354008	up		BF393654

A_44_P213 246	0.008418	1.5334	down	RGD13104 95	XM_228270
A_44_P402 193	0.043799	1.225168	up		BQ193921
A_44_P183 359	0.008398	1.10796	up	C2cd2l	NM_001011 996
A_44_P396 507	0.045661	1.133644	up	Pelp1	NM_001024 270
A_44_P189 832	0.027207	1.151361	down	Myst3	NM_001100 570
A_44_P875 945	0.022812	1.41847	down		BI296619
A_44_P394 925	0.017129	1.392447	up		AI137780
A_44_P350 888	0.007492	1.489608	up		AA957004
A_44_P403 133	0.034579	1.531064	down		XM_344628
A_42_P797 381	0.042554	1.74748	down	Tap2	NM_032056
A_44_P650 755	0.026896	1.180229	down		BG673332
A_44_P209 926	0.04695	1.24626	down	Hectd1	XM_343060
A_44_P247 810	0.048511	1.487668	down	Olr327	NM_001000 249
A_44_P545 107	0.04951	1.350205	up		BQ192866
A_44_P254 540	0.023759	1.269833	up		AW915585
A_44_P297 596	0.012848	1.290254	up	Ctnnd1	NM_001107 740
A_43_P127 09	0.009717	1.525424	down	Trpv1	NM_031982
A_44_P427 560	0.038973	1.131652	up	Pom121	NM_053622
A_42_P794 052	0.041621	1.382314	down		XM_001077 260
A_44_P900 888	0.027105	1.264457	up		DY472577
A_44_P546 352	0.001521	1.238166	up	Tmtc3	NM_001135 858
A_44_P387 808	0.04423	1.248965	up		BQ195079

A_44_P354 208	0.036799	1.34872	up		XM_232315
A_44_P431 465	0.022778	1.349873	up	Sema3e	NM_001106 579
A_44_P552 118	0.041881	1.100154	up	Cnih	NM_001106 029
A_44_P352 402	0.006933	1.440486	down		BE101481
A_44_P220 861	0.049427	1.26788	up	Npff	NM_022586
A_44_P100 207	0.037451	1.505863	down	Cnp	NM_012809
A_44_P380 771	0.045402	1.241053	up		CB327159
A_44_P415 406	0.025778	1.259024	up		AA858773
A_44_P622 216	0.026821	1.363821	up	Snx19	NM_001108 131
A_44_P325 439	0.049371	1.127359	up	Fbxw4	NM_001107 600
A_44_P552 006	0.035716	1.213517	up		AI178635
A_42_P657 494	0.038573	1.225667	down	Fam103a1	NM_001127 451
A_44_P220 351	0.035949	1.208386	up	Wasl	NM_001110 365
A_44_P164 824	0.045392	1.189651	up	Ttyh3	NM_001107 124
A_44_P999 869	0.003107	1.13454	up	Ptpn11	NM_013088
A_44_P102 4721	0.037133	1.666759	down	Slc28a2	NM_031664
A_44_P503 579	0.0329	1.101602	up	Rpl17	NM_201415
A_42_P557 394	0.013997	1.584819	down	Isg20	NM_001008 510
A_44_P128 711	0.020819	1.179122	down	Sh3bgrl	NM_001173 339
A_44_P519 948	0.039512	1.596389	down	Fcar	NM_201992
A_44_P963 064	0.030115	1.304174	up		
A_44_P202 161	0.015905	1.322265	up		CB547705



A_44_P701 236	0.038934	1.376749	up		
A_44_P121 051	0.040264	1.116592	up	Rpl17	NM_201415
A_44_P489 688	0.011744	1.377629	down	B3gnt8	NM_001107 492
A_44_P510 809	0.023771	1.20106	up	Ptk2	NM_013081
A_44_P929 767	0.004409	1.43826	up	Sdc3	NM_053893
A_44_P868 139	0.010494	1.252712	down		
A_44_P976 992	0.024816	1.749747	down		
A_42_P836 063	0.043446	1.165825	down	Kbtbd3	NM_001108 121
A_44_P424 087	0.049143	1.178908	up	Iqgap1	NM_001108 489
A_42_P760 177	0.047886	1.175335	up	Macf1	NM_001135 758
A_44_P116 870	0.027307	1.361408	up	Dclk2	NM_001009 691
A_44_P208 415	0.030412	1.202479	down		XM_223330
A_44_P386 099	0.035931	1.153293	up		AI175475
A_44_P994 238	0.045898	1.592057	down	Ogn	NM_001106 103
A_44_P808 602	0.043018	1.284134	up		
A_44_P395 020	0.013752	1.265276	up		AI407351
A_44_P142 194	0.045149	1.230966	up		AY539899
A_43_P175 65	0.016592	1.333225	up		BC092613
A_44_P355 013	0.015795	1.257875	up		U02094
A_44_P991 634	0.044709	1.213485	up		
A_42_P624 382	0.037537	1.137158	up	Cdipt	NM_138899
A_44_P511 314	0.029686	1.352948	down	Osr1	NM_001106 716

A_44_P681 889	0.042406	1.306347	up		AA964497
A_44_P791 696	0.013037	1.206142	up		DV725758
A_44_P185 311	0.049587	1.075806	up		XM_343845
A_42_P755 414	0.041617	1.39648	up		AW918668
A_44_P359 278	0.022947	1.348486	up		AI176699
A_44_P592 461	0.014858	1.203856	up		BC091283
A_44_P870 678	0.023504	1.207091	down		
A_44_P474 509	0.031613	1.699625	up		CO394478
A_44_P329 756	0.024499	1.301431	up		AI059074
A_44_P231 893	0.018718	1.18784	up	Fam125b	XM_342420
A_44_P441 596	0.025833	1.428037	up	Rapgef2	NM_001107 684
A_44_P321 686	0.019776	1.238182	down	Fam55c	NM_001109 435
A_44_P886 440	0.034842	1.201824	down		DV722143
A_44_P140 557	0.026877	1.16142	up	Dock6	NM_001108 997
A_44_P529 455	0.035352	1.583783	up	Gnrh1	M15527
A_44_P104 7375	0.043564	1.097652	up	Rnf10	NM_001011 904
A_44_P976 320	0.022888	1.136965	up		
A_44_P227 194	0.014439	1.332915	down		
A_44_P555 935	0.029347	1.143043	up		BF419161
A_44_P240 523	0.017735	1.189168	up		AI169232
A_44_P103 6481	0.039135	1.377103	up		CB609784
A_44_P675 934	0.030576	1.353982	up		BQ194543

A_42_P598 733	0.024454	1.149883	up	Dnajc21	NM_138856
A_44_P352 825	0.047422	1.244729	up		AA892319
A_44_P905 727	0.019133	1.354594	down		
A_43_P158 74	0.03318	1.278996	up	Cep350	AF287357
A_44_P103 3521	0.009803	1.22219	up		AA875280
A_44_P420 927	0.024114	1.218958	down		XM_219401
A_42_P479 422	0.038612	1.164545	up	Traf7	NM_001127 548
A_44_P806 646	0.00938	1.232793	up	Znf609	NM_001173 371
A_44_P107 097	0.046082	1.370313	down	Dcps	NM_153302
A_44_P100 5858	0.032096	1.152889	up	Ube2h	NM_001172 127
A_44_P441 947	0.012869	1.074675	down		DY315912
A_44_P808 019	0.006335	1.145093	down		
A_44_P231 955	0.008612	1.237246	down	Rem1	NM_001025 753
A_43_P197 91	0.037414	1.12905	up		XM_002729 624
A_43_P211 65	0.044021	1.309585	down	Kpna6	NM_001015 029
A_44_P152 048	0.032588	1.296767	up	Irx1	NM_001107 331
A_44_P251 476	0.008697	1.434803	up		AI407309
A_44_P324 574	0.017608	1.360964	up		AA817956
A_44_P467 591	0.004446	1.357801	down	Neu2	NM_017130
A_44_P282 567	0.035706	1.196169	up		AI060229
A_44_P330 332	0.012632	1.319867	up	Prkaca	NM_001100 922
A_44_P459 893	0.040504	1.340142	up		BQ200384

A_44_P359 190	0.048928	1.128858	down	Gabpa	NM_001108 841
A_44_P127 958	0.004147	1.251344	up	Myo9a	NM_134335
A_44_P105 1765	0.049733	1.109644	up	Thap3	NM_001108 695
A_44_P332 429	0.043294	1.657707	down	C1s	NM_138900
A_44_P313 410	0.046803	1.314227	up		AI179677
A_43_P183 29	0.038663	1.146233	up	Stim1	NM_001108 496
A_43_P135 33	0.041579	1.170619	up		EV771450
A_44_P452 868	0.020375	1.325019	up		XM_343854
A_44_P187 238	0.008337	1.101148	down	Rpo1-3	NM_001037 787
A_44_P341 910	0.018307	4.199264	down	Retnlg	NM_181625
A_44_P223 549	0.015136	1.659863	up	Pdgfb	NM_031524
A_44_P103 1109	0.024606	1.108868	up	Npdc1	NM_001004 231
A_44_P280 037	0.018353	2.086409	up		AI072877
A_43_P105 91	0.044255	1.098806	up	Tcea1	NM_001025 735
A_44_P958 991	0.037179	1.212974	down		
A_44_P103 9444	0.021132	1.262843	up	Lasp1	NM_032613
A_42_P542 744	7.95E-04	1.268371	up	Dchs1	NM_001107 544
A_43_P193 41	0.029647	1.272032	down		XM_342827
A_44_P321 359	0.048812	1.331649	down		XM_226455
A_43_P110 98	0.024122	1.139163	up	Cdc42bpb	NM_053620
A_44_P105 7903	0.016419	1.110319	up	Mll5	XM_231287
A_44_P183 979	0.030314	1.085976	up		AW141315

A_44_P177 146	0.03604	1.186801	up		AI599699
A_44_P751 956	0.001829	1.328227	up		AI599448
A_44_P148 440	0.038033	1.092844	up	Arl8a	NM_001109 071
A_44_P242 601	0.006409	1.487594	up		CA505735
A_44_P105 2324	0.042125	1.299802	up	Lamp3	NM_001012 015
A_44_P638 554	0.002687	1.178087	up		
A_42_P473 425	0.041716	1.266912	up	Unc13d	NM_138844
A_44_P708 381	0.033703	2.352564	down		CB315312
A_43_P185 17	0.046145	1.165072	up	Baz2a	NM_001107 158
A_43_P108 43	0.021534	1.269169	up	Ahcyl1	NM_001108 561
A_44_P168 842	0.023627	1.150611	down		
A_44_P186 317	0.008653	1.428521	down	Eps8	XM_232499
A_44_P529 904	0.014814	1.264991	up	Bend7	XM_341560
A_44_P488 167	0.037252	1.310409	up		AA900165
A_43_P111 72	0.041651	1.064807	up	Fis1	NM_001105 919
A_44_P869 077	0.009148	1.143515	up		CN541273
A_44_P103 5802	0.011626	1.103426	up		XM_214528
A_44_P207 350	0.048429	1.256298	up		AA999155
A_44_P758 912	0.018908	1.105753	up		BF522863
A_43_P209 41	0.008137	1.162425	down	Drg1	NM_001009 685
A_44_P602 724	0.013569	1.186537	up		BF522056
A_44_P413 997	0.040671	1.288053	up		CB578722

A_44_P304 202	0.031343	1.303786	down	Slc6a2	NM_031343
A_44_P170 919	0.042529	1.890068	down	Gpr183	NM_001109 386
A_44_P124 074	0.00791	1.435542	down		XM_217067
A_44_P306 096	0.033885	1.067108	up	Srp9	NM_001126 095
A_44_P435 059	0.020484	1.22213	down	Hmgb3	NM_001173 341
A_43_P119 08	0.016585	1.31624	up	Sema3a	NM_017310
A_44_P226 941	0.043327	1.78336	down	Pln	NM_022707
A_44_P443 717	0.022894	1.570239	down		BQ194049
A_44_P325 522	0.047288	1.80951	down	Lmnb1	NM_053905
A_44_P324 340	0.024922	1.121834	up	Mfsd6	NM_001106 911
A_42_P686 567	0.033849	1.108637	up		
A_44_P248 562	0.010361	1.269698	down		XM_235784
A_44_P373 153	0.03343	1.239988	up	Myo6	XM_236444
A_44_P381 917	0.021216	1.718454	down	Sphk1	NM_133386
A_44_P104 1455	0.029977	1.13426	up		AW144006
A_42_P560 996	0.035738	1.240169	up		XM_001061 864
A_44_P130 036	0.003404	1.225107	up		AA957486
A_44_P507 881	0.01825	1.276661	up		AI502676
A_43_P166 97	0.033839	1.116461	up		
A_44_P590 627	0.033732	1.324087	down		
A_44_P294 461	0.042602	1.880367	up		AA925221
A_44_P128 195	0.026738	1.555056	down	Ppp1r1b	NM_138521

A_44_P368 241	0.012333	1.540986	down	Pola1	NM_053479
A_44_P198 669	0.025591	1.198207	down	LOC50068 4	NM_001047 959
A_44_P488 475	0.010513	1.105609	up		XM_001073 009
A_44_P215 744	0.012731	1.360995	down	Lrrc9	XM_001077 512
A_44_P101 4700	0.034406	1.352843	down	Cog2	NM_001110 494
A_44_P532 341	0.011012	1.47333	down		
A_44_P849 693	0.025987	1.378856	up		AA892165
A_44_P163 158	0.008875	1.28143	up		AI233777
A_44_P104 8388	0.00702	1.102309	up	Acd	NM_001037 193
A_44_P529 562	0.04035	1.147718	down	Slc30a1	NM_022853
A_43_P199 39	0.034774	1.228182	up		
A_44_P683 133	0.011893	1.499653	down		
A_44_P634 724	0.033131	1.208261	down		AW143399
A_44_P284 859	0.048198	1.12434	up	Htatsf1	NM_001108 259
A_44_P219 788	0.047978	1.125986	up	Surf2	NM_001033 866
A_44_P158 135	0.013527	1.410068	up		BG378050
A_43_P180 11	0.034564	1.198112	up	Stam2	NM_001012 085
A_44_P311 955	0.041026	1.185443	up	Prkce	NM_017171
A_44_P132 815	0.019462	1.281012	up		AY148302
A_44_P543 753	0.042471	1.249235	down		
A_43_P155 12	0.038779	1.256404	up	Tpra1	NM_053534
A_44_P459 052	0.01412	2.401578	down	Slc28a2	U67084

A_44_P680 369	0.046078	1.533396	up		BF545930
A_44_P101 9245	0.031642	1.200546	up	Zmat3	NM_022548
A_44_P699 916	8.23E-04	1.3024	up		
A_44_P135 641	0.039732	1.416365	down	Rapsn	NM_001108 584
A_44_P715 835	0.03767	1.206588	down		
A_44_P356 014	0.024431	1.190459	down	Cog6	NM_001004 262
A_44_P265 466	0.030985	1.317102	up		AA875232
A_44_P371 552	0.040351	1.076203	down	Pcbp2	NM_001013 223
A_44_P622 091	0.018816	1.210245	up	Ppm1f	BC166854
A_44_P245 019	0.0163	1.511259	up		AW143927
A_44_P418 233	0.012623	1.240249	up		AI555458
A_44_P240 881	0.013174	1.657648	down	Art3	NM_001012 034
A_44_P211 111	0.022437	1.225344	down		XM_236367
A_44_P915 344	0.012968	2.959552	down	Emx2	NM_001109 169
A_44_P242 499	0.041348	1.4752	up		BE118080
A_44_P542 933	0.02592	1.223364	up	Zfp3611	NM_017172
A_44_P103 3739	0.043968	1.138107	up	Akap11	NM_012773
A_42_P610 788	0.032006	1.210844	down	Ampd3	NM_031544
A_44_P235 028	0.006159	1.434468	down		AI101484
A_44_P234 460	0.01801	1.304975	up		XM_216715
A_44_P313 898	0.04481	1.208227	down	LOC10036 4026	XM_002725 617
A_44_P480 749	0.044217	1.282065	down	Wbscr22	NM_001135 743



A_44_P970 110	0.037819	1.37869	up		AW253396
A_44_P610 377	0.020586	1.302869	up		
A_44_P313 283	0.020601	1.17613	up	Capn2	NM_017116
A_44_P270 700	0.048468	1.345045	down		BG663460
A_44_P548 730	0.040144	1.256575	up	Bcl9l	NM_001106 817
A_42_P537 501	0.033656	1.273874	up	Dpp4	NM_012789
A_44_P297 840	0.045532	1.310807	down		XM_343376
A_44_P457 362	0.04411	1.256892	up	Col16a1	NM_001015 033
A_44_P201 558	0.049745	1.312197	up		XM_230607
A_44_P775 982	0.003852	1.241999	down	Armc9	NM_001109 663
A_44_P262 677	0.043274	1.239155	down	Hist2h3c2	NM_001107 698
A_44_P495 236	0.007119	1.31329	up		AI176723
A_44_P225 691	0.006705	1.166687	up	Znf142	NM_001108 225
A_44_P669 819	0.033521	1.522143	up		
A_42_P640 923	0.01922	1.348801	down	Cflar	NM_057138
A_44_P982 956	0.017433	1.44113	up		
A_44_P643 268	0.014702	1.184337	up	Glt8d3	NM_001100 887
A_43_P172 35	0.040006	1.112483	up		
A_42_P771 346	0.026901	1.238068	up	Acvr11	NM_022441
A_44_P201 537	0.019304	1.149883	up		AY724487
A_44_P426 578	2.48E-04	1.447792	down		
A_44_P149 789	0.027309	1.153521	up		XM_215921

A_44_P267 993	0.019799	1.279736	down		BC158695
A_42_P459 349	0.004231	1.164559	down	Sgk493	NM_001108 007
A_44_P109 998	0.018425	1.193152	up		XM_227287
A_44_P225 566	0.012234	1.115832	up	Cask	NM_022184
A_43_P122 43	0.04155	1.170654	down	Prdx3	NM_022540
A_44_P121 430	0.042668	1.246309	up	Peg12	NM_001170 562
A_44_P205 476	0.034889	1.134563	up		BI302853
A_44_P807 394	0.008951	1.253951	up		
A_44_P238 424	0.021864	1.409362	up	Akap5	NM_133515
A_44_P106 923	0.031682	1.110906	down	Sp1	NM_012655
A_44_P984 158	0.026985	1.321781	down	LOC69175 9	BI291259
A_44_P225 378	0.035829	1.621462	up		AA945587
A_42_P805 179	0.031558	1.091818	up		CF110294
A_44_P546 866	0.036488	1.459044	up		BF391339
A_44_P146 123	0.028666	1.115947	up		AA892855
A_44_P225 323	0.035852	1.662732	up		
A_44_P365 611	0.027326	1.31169	down	Gpr31	NM_001169 132
A_44_P808 189	0.02357	1.170997	up		
A_43_P152 45	0.018662	1.19942	up	Npr1	NM_012613
A_44_P152 521	0.018002	1.223865	up		BG373526
A_44_P345 207	0.004474	1.205105	up		BI295182
A_44_P105 7955	0.026573	1.206246	down	Cd164	NM_031812

A_44_P434 844	0.019008	1.261051	down	Rqcd1	NM_001009 357
A_44_P432 826	0.009217	1.258325	up	Rap1gds1	NM_001107 728
A_44_P715 686	0.017768	1.232201	up		
A_43_P166 36	0.038072	1.159284	down	Dhdds	NM_001011 978
A_44_P310 632	0.002378	1.498553	up		AI231342
A_44_P523 000	0.015206	1.904325	down		XM_001080 361
A_44_P179 474	0.048223	1.162456	up		AI232477
A_43_P100 49	0.003856	1.203839	up	Tm2d2	NM_001017 444
A_44_P897 620	0.023268	1.183295	up		BQ781487
A_44_P913 155	0.040379	1.213866	up		AW915016
A_44_P235 217	0.010441	1.273439	up		AI228247
A_44_P637 792	0.022099	1.141869	down	Cbfb	NM_001013 191
A_44_P328 758	0.029061	1.211226	down	Acpl2	NM_001007 710
A_42_P806 077	0.043046	1.244947	up		AW532188
A_43_P141 79	0.009266	1.132862	up	Ap2m1	NM_053837
A_44_P414 469	0.043988	1.315296	up	Hadha	NM_130826
A_44_P754 744	0.02864	1.397172	up		
A_44_P446 944	0.038402	1.488118	up		AI136427
A_44_P237 578	0.010357	1.213037	up		XM_344763
A_44_P313 652	0.013555	1.571368	down	RT1-EC2	M10094
A_44_P888 644	0.041368	1.627679	up		
A_44_P141 767	0.003045	1.333853	up	Tox3	NM_001106 171

A_43_P150 22	0.044336	1.258563	down		AW916092
A_44_P105 7403	0.026061	1.167073	up		BF396321
A_44_P469 883	0.03933	1.249965	up		BI285137
A_44_P853 775	0.008572	1.308479	down	LOC69122 1	XM_001077 260
A_44_P222 030	0.017615	1.307493	up	Tbx3	NM_181638
A_44_P826 742	0.017748	1.39047	down		
A_44_P308 479	0.036927	1.439282	up		AA997228
A_44_P538 012	0.029349	1.112448	down		BG672309
A_42_P478 500	0.035675	1.099659	down	Slc22a17	NM_177421
A_44_P404 824	0.036062	1.141559	up	Map1lc3a	NM_199500
A_44_P381 822	0.042308	1.30157	down		L34821
A_44_P820 981	0.048962	1.605171	down		AW920863
A_44_P606 290	0.035502	1.210087	down		
A_44_P105 634	0.014929	1.299008	down	RGD13593 78	NM_001007 658
A_44_P838 611	0.048214	1.215214	up		
A_44_P147 426	0.020311	1.199414	down	Nt5dc1	NM_001106 393
A_44_P483 514	0.019003	1.323586	up		AA944197
A_44_P239 368	0.035631	1.212969	down		BG901182
A_44_P207 346	0.003007	1.209404	up		AA901241
A_44_P367 798	0.041434	1.116637	up	Ipmk	NM_134417
A_44_P897 008	0.002649	1.420289	up	Irgq	NM_001135 742
A_44_P175 954	0.045716	1.239128	down	Slc25a5	NM_057102

A_44_P522 080	0.038893	1.174388	up	Higd2a	BI278481
A_44_P302 265	0.045107	1.459028	down	Pfn3	NM_001109 487
A_44_P344 340	0.024087	1.206889	up	Zfoc1	U78135
A_44_P384 404	0.028853	1.79359	down	Ms4a11	XM_342028
A_44_P439 033	0.033079	1.196567	down		BF282476
A_44_P102 8918	0.020172	1.131081	up		AA996422
A_44_P478 591	0.004198	1.317797	up	LOC68679 1	XM_001064 525
A_43_P154 44	0.003775	1.361597	down	Smo	NM_012807
A_44_P274 083	0.019229	1.184995	down	Aqp11	NM_173105
A_44_P464 656	0.017359	1.21095	down		BF282271
A_44_P300 348	0.017385	1.254617	up		AI012336
A_44_P438 641	0.020008	1.110257	down	LOC30030 3	XM_213108
A_44_P135 845	4.61E-04	1.229249	down	Tecpr2	XM_234543
A_44_P379 976	0.013723	1.245758	up	Lrrc8a	NM_001024 782
A_44_P293 480	0.046166	1.252482	up		AI012480
A_44_P321 043	0.021879	1.642173	down	RGD15617 59	XM_217910
A_44_P484 779	0.001544	1.293963	up	Utrn	NM_013070
A_44_P441 221	0.006053	1.331322	up		XM_236909
A_44_P469 357	0.023447	1.066839	down	RGD15658 40	NM_001168 523
A_44_P375 339	0.033977	1.597704	down	Ptk6	NM_001108 968
A_44_P973 681	0.045539	1.535756	down		AW141066
A_44_P993 914	0.026876	1.306178	up	Pdia5	NM_001014 125

A_44_P623 197	0.019613	1.598911	up	Mast4	XM_226732
A_44_P929 254	0.029926	1.153564	down		
A_44_P658 658	0.030584	1.213088	up		BF390608
A_44_P142 944	0.042284	1.528525	up		AA925384
A_44_P148 560	0.039894	1.25719	up		AW143690
A_43_P210 84	0.046527	1.240212	up	Pex26	NM_001106 618
A_44_P947 936	0.037611	1.131479	down		
A_44_P277 340	0.045732	1.187778	up	Megf9	NM_001107 940
A_43_P132 21	0.02385	1.108166	up	Ppp6c	NM_133589
A_44_P137 978	0.046864	1.121028	up	Rbbp8	NM_001134 417
A_44_P391 068	0.03382	1.618185	down	Gstm3	NM_020540
A_44_P149 743	0.016418	1.368516	up	Sema6a	NM_001108 430
A_44_P312 877	0.037036	1.316796	up		BF420507
A_44_P867 229	0.038771	1.344957	up		AW915047
A_44_P365 114	0.038497	1.191804	up		AI232346
A_44_P696 462	0.006568	1.276864	up		AA957996
A_44_P549 724	0.03557	1.52737	up		AW919937
A_44_P103 6480	0.046727	1.330811	up		XR_006927
A_44_P328 283	0.036006	1.407707	down	Mtmr15	XM_219706
A_42_P472 077	0.010364	1.427832	up		AW140877
A_43_P183 45	0.024667	1.219309	up	LOC68453 4	XM_001070 862
A_44_P788 211	0.028154	1.115416	down	Sft2d2	NM_001034 011

A_44_P318 932	0.042015	1.121676	down		XM_231081
A_44_P667 917	0.030751	1.094067	down		
A_44_P438 613	0.010219	1.321634	down	Aifm2	NM_001139 483
A_42_P522 562	0.043451	1.109186	up		EV767388
A_44_P700 241	0.028657	1.166784	up	Usp46	XM_214034
A_44_P446 556	0.041387	1.200999	up	Macf1	NM_001135 758
A_44_P186 914	0.036442	1.606986	down	Ggt5	NM_019235
A_44_P230 259	0.006501	2.130912	up		BE111654
A_42_P456 155	0.017534	1.125709	up	Uqcr	NM_001126 097
A_44_P988 589	0.007841	1.509806	up		AI176031
A_43_P176 99	0.030192	1.197564	down	Fbxl5	NM_001107 222
A_44_P221 077	0.016587	1.698258	up	Tmem100	NM_001017 479
A_43_P199 99	0.048348	3.449622	up	Fcrls	NM_001107 702
A_44_P436 628	0.044877	1.21084	up		AI176323
A_44_P143 541	0.008844	1.152427	up	Lrrfip2	NM_001024 761
A_44_P588 967	0.029687	1.384479	up		AI008244
A_44_P240 088	0.015668	1.233813	up		AI175366
A_44_P255 625	0.002044	1.270465	down		
A_44_P105 2067	0.033846	1.196168	down	Plekha4	NM_199101
A_44_P238 693	0.00546	1.222671	up	Nav2	NM_138529
A_44_P242 774	0.035963	1.342378	up		AI230406
A_44_P139 694	0.00644	1.178418	up	Tnfaip1	NM_182950

A_42_P577 560	0.047738	1.531511	down	Tinagl1	NM_053582
A_44_P902 385	0.035213	1.070234	down		
A_44_P101 2748	0.046175	1.147979	up	Plscr3	NM_001012 139
A_44_P910 739	0.045085	1.188063	up		DY472814
A_44_P508 264	0.043951	1.156938	up	Cdkn1b	NM_031762
A_44_P778 851	0.00893	1.786552	down		
A_44_P320 500	0.007451	1.392875	up		AW252169
A_44_P182 934	0.044948	1.195256	up	Rpl35a	NM_021264
A_44_P284 220	0.049194	1.39059	up		XM_001071 742
A_43_P151 17	0.026282	1.395186	up		BF556558
A_44_P619 218	0.003075	1.175404	up		BF548909
A_44_P188 995	0.02548	1.323298	up		AI409460
A_42_P549 942	0.048081	1.417653	down	Fbn2	NM_031826
A_44_P297 420	0.03006	1.450199	down		XM_219327
A_42_P729 693	0.029162	1.142603	up	Synj2bp	NM_022599
A_44_P336 489	0.048146	1.070346	down	Txndc13	NM_001100 529
A_42_P722 862	0.027002	1.275158	up	Selm	NM_001115 013
A_44_P365 947	0.02739	1.197575	down	LOC60629 4	NM_001031 627
A_44_P189 785	0.043948	1.274385	down	Ap3b1	NM_001107 646
A_44_P101 7079	0.026864	1.067024	up	Rnaseh1	NM_001013 097
A_44_P649 412	0.048877	1.228144	up		AI011243
A_44_P164 120	0.035118	1.268456	down	Gtf3c3	NM_001108 239



A_42_P566 906	0.018633	1.136386	down	Peci	NM_001006 966
A_43_P202 05	0.020803	1.237562	up	Ldb2	NM_001106 009
A_44_P173 218	0.012247	1.296256	up	Rapgef2	NM_001107 684
A_44_P438 627	0.029149	1.223213	down		XM_233310
A_44_P409 913	0.037829	1.24418	down		XM_341043
A_42_P737 542	0.002005	1.170452	down	Fam98b	XM_575208
A_43_P115 58	0.009498	1.873359	down	Apod	NM_012777
A_44_P603 427	0.014342	1.23423	down		BC090004
A_44_P550 662	0.029941	1.753212	down	Ms4a6a	XM_215145
A_42_P715 210	0.039706	1.173632	down	RGD15647 09	NM_001107 205
A_44_P323 550	0.012049	1.443374	down	Atp5sl	NM_001009 705
A_44_P294 138	0.010437	1.608799	up		AI230985
A_44_P362 343	0.031199	1.253672	up		AA859680
A_44_P499 075	0.0307	1.388426	down		
A_44_P299 293	0.037607	1.479105	down	Skap1	NM_173311
A_43_P174 08	0.02755	1.264902	up		CB547962
A_43_P116 22	0.034236	1.109208	down	Cd59	NM_012925
A_44_P154 182	0.039225	2.505205	down	Cyp2s1	NM_001107 495
A_44_P227 010	0.015319	1.54505	down	Tmem224	NM_001107 476
A_43_P195 05	0.042481	1.261558	down	Agfg2	NM_001107 131
A_44_P163 159	0.00674	1.373998	up		AA924792
A_44_P945 248	0.017635	1.18666	up		

A_44_P360 772	0.008402	1.468392	down	Tagln	NM_031549
A_44_P390 265	0.036605	1.206063	up		AA858718
A_44_P635 239	0.005192	1.936365	up	Nrep	AY724475
A_44_P489 729	0.047484	1.181375	down		XM_223019
A_44_P136 707	0.036697	1.149772	up		BG664788
A_44_P464 027	0.035339	1.126198	down		XM_226645
A_42_P535 555	0.005863	1.141544	up	Papd5	NM_001107 416
A_44_P340 448	0.018954	1.088224	up	Usp7	NM_001024 790
A_44_P185 673	0.011355	1.33438	up		BE115614
A_44_P382 279	0.020061	1.126869	down	Socs6	XM_001063 512
A_43_P171 27	0.009836	1.427879	down		XM_221100
A_44_P296 819	0.041964	1.253755	up		BE106940
A_44_P905 980	0.031274	1.20279	up		AI178326
A_44_P838 436	0.038244	1.331572	up		
A_44_P593 898	0.022071	1.589098	up		
A_44_P347 174	0.049397	1.144835	up	Cecr5	NM_001107 884
A_44_P561 679	0.013403	1.125332	up		
A_43_P126 92	0.03204	1.327556	up	Git1	NM_031814
A_43_P162 50	0.042542	1.287881	up	Col4a3	NM_001135 759
A_44_P576 312	0.016706	1.161632	up		
A_44_P103 4201	0.03735	1.201635	up	Lamb3	NM_001100 841
A_44_P273 291	0.03163	1.109186	up		AW519820

A_44_P452 062	0.024922	2.116971	down	Olr48	NM_001000 122
A_44_P192 876	0.03764	1.261184	up		BI274340
A_44_P113 403	0.021504	1.200024	up		BF555514
A_44_P226 928	0.009698	1.35339	up	Pdzd2	NM_022940
A_44_P806 809	0.011002	1.336842	down	Sh3bgrl	NM_001173 339
A_44_P325 808	0.042969	1.164464	up	Optn	NM_145081
A_44_P513 251	0.049184	1.286316	down		XM_222985
A_44_P496 026	0.031831	1.168609	up	Eml4	NM_001108 008
A_44_P974 940	0.038758	3.303	down	RGD15623 92	XM_346007
A_44_P731 839	0.03517	1.205535	up		
A_42_P585 119	0.029099	1.205528	up	RGD73502 9	NM_199493
A_44_P965 236	0.027945	1.224246	up		
A_43_P112 01	0.00776	1.115381	up	Rmnd5b	NM_001017 473
A_44_P549 011	0.016704	1.32156	up	Apba2	NM_031780
A_44_P443 030	0.04693	1.169262	up	11-Sep	NM_001107 208
A_44_P234 815	0.030799	1.1607	up		BG672591
A_44_P263 812	0.03575	1.179661	up		AA851658
A_44_P620 763	0.04936	1.105795	up		AI175871
A_44_P381 343	0.007006	1.684606	up		AI103156
A_44_P163 176	0.049632	1.103037	up	Tor1aip2	NM_199100
A_44_P464 812	0.034354	1.794409	up	Epha4	NM_001162 411
A_44_P114 589	0.018	1.138124	up	Znf821	BC158722

A_44_P792 495	0.032279	1.092618	up		
A_44_P190 838	0.036791	1.324021	up	Fat4	XM_227060
A_44_P529 682	0.004783	1.343546	up	Chit1	NM_001079 689
A_44_P531 178	0.045761	1.090698	up		AI171952
A_44_P536 365	0.030756	1.337926	up	Nbr1	NM_001024 765
A_43_P135 81	0.006145	1.186595	up		CB547833
A_44_P542 308	0.011739	1.684081	up		AW523747
A_44_P144 871	0.030773	1.259477	down	Coq4	NM_001031 662
A_44_P196 805	0.027662	1.259117	down	Golga7	NM_001007 731
A_44_P374 097	0.02373	1.370786	up		BI293584
A_44_P196 984	0.032117	1.177789	down	Fktn	NM_001108 667
A_44_P218 781	0.01476	1.346438	up		BF548818
A_44_P314 492	0.024639	1.433339	down	Tiam1	NM_001100 558
A_44_P495 055	0.018941	1.359449	up		BM387285
A_42_P810 736	0.028001	1.206081	up	Timeless	NM_031340
A_44_P314 260	0.019818	2.296701	up		
A_44_P421 226	0.039974	1.745291	up		AI101521
A_44_P975 347	0.004748	1.393299	down		
A_44_P381 342	0.02456	1.524935	up		AI170757
A_44_P481 013	0.040262	1.295204	up		AI230230
A_44_P424 825	0.014042	1.092358	down		BQ198825
A_44_P288 091	0.003896	6.259776	up	P2rx2	NM_053656

A_44_P837 980	0.001145	1.283066	up		
A_44_P542 081	0.042684	1.534273	down		AI169627
A_44_P993 660	0.016365	1.159194	up		BG666613
A_44_P135 525	0.032066	2.390875	down		L20987
A_42_P515 028	0.035449	1.847522	down	Alpk2	XM_574162
A_44_P263 186	0.041951	1.273131	up		AI070126
A_44_P560 884	0.037249	1.191042	up		
A_44_P895 829	0.009469	1.389832	up		AI043705
A_44_P313 918	0.018382	1.231884	down	Wdr42a	NM_001014 231
A_44_P622 593	0.025278	1.188398	up	Gspt1	NM_001003 978
A_44_P561 760	0.001913	1.268022	down		
A_44_P413 534	0.044808	1.17629	up		AA997113
A_44_P175 846	0.042486	1.428785	up	LOC30767 1	XM_226278
A_44_P273 796	0.038875	1.176022	down	Zfp472	NM_182823
A_44_P276 106	0.031499	1.103139	up	Apc	NM_012499
A_44_P629 897	0.02549	1.287127	up		BF552300
A_44_P490 490	0.043744	1.234653	up		AI044674
A_43_P129 72	0.01665	1.391984	up	Sdc3	NM_053893
A_44_P849 277	0.023231	1.392299	up		AI137972
A_44_P102 5918	0.026665	1.173672	up	Vwf	XM_342759
A_44_P868 315	0.028784	1.076755	down	Hnrnpa3	NM_001111 294
A_43_P108 67	0.029389	1.447329	down		CB547678

A_43_P101 39	0.036957	1.137392	up		CB547604
A_44_P712 688	0.00281	1.295335	down	Trim14	NM_001107 934
A_44_P755 663	0.017961	1.225285	down		
A_43_P219 76	0.044109	1.147598	up	N4bp2	XM_223405
A_44_P207 260	0.038018	1.259486	down		AA875489
A_44_P287 602	0.024665	1.223101	up		AA800053
A_44_P348 435	0.049291	1.272092	up		AW915757
A_44_P138 126	0.003903	1.321892	down	Enox2	XM_229131
A_44_P554 332	0.03821	1.09543	down	Cycs	NM_012839
A_43_P141 99	0.016496	1.200591	up		
A_44_P519 620	0.022409	1.223982	down	Litaf	NM_001105 735
A_44_P372 718	0.043813	1.128909	down		
A_44_P358 384	0.044471	1.14376	up	Dlat	NM_031025
A_44_P526 357	0.033469	1.234729	up		AI179356
A_44_P459 144	0.009707	1.625128	down	Inhba	NM_017128
A_44_P404 836	0.03055	1.506894	down	Cp	NM_012532
A_44_P763 879	0.048325	1.216963	up		
A_44_P246 452	0.007447	1.279529	up		CB545779
A_44_P370 345	9.18E-04	1.330957	up	Aftph	XM_223651
A_44_P101 1315	0.026026	1.369968	up	Rgs7	NM_019343
A_44_P280 062	0.043702	1.278589	up		CO399725
A_44_P525 817	0.047355	1.089584	up	Brd4	NM_001100 903

A_43_P128 64	0.039964	1.288142	down	Pgf	NM_053595
A_44_P101 7315	0.038612	1.08177	up	Vhl	NM_052801
A_42_P460 758	0.042828	1.360862	down		BF412134
A_42_P781 585	0.009859	1.846228	down	Bex4	NM_001037 554
A_44_P111 197	0.023539	1.276181	down		AI044643
A_44_P513 059	0.047603	1.681604	down	Sfrp1	AF167308
A_44_P435 320	0.020704	1.226859	up		AA851161
A_44_P994 293	0.004052	1.16614	down		L07578
A_44_P527 985	0.047391	1.285555	down		BQ782789
A_44_P792 507	0.005553	1.205223	up		CO406134
A_44_P340 434	0.002446	1.521489	down	Ttc38	NM_001130 499
A_44_P503 240	0.031519	1.384371	up	Sytl5	NM_178333
A_44_P380 265	0.047583	1.945174	down	RGD15605 70	XM_229665
A_44_P145 191	0.022607	1.881243	down		
A_44_P371 984	0.045004	1.257251	up	Dpp4	J02997
A_43_P183 02	0.03582	1.205254	down	Mycbp2	NM_001106 055
A_44_P478 868	0.016564	1.246621	up		BQ198742
A_44_P256 906	0.014193	1.14225	up		BQ209066
A_44_P977 865	0.017604	1.178464	down		
A_44_P117 335	0.044766	1.234996	up		XR_008794
A_44_P122 439	0.01403	1.393515	up		BF395372
A_44_P145 290	0.039944	1.193627	up		XM_213626

A_44_P605 605	0.035929	1.095606	down		
A_44_P459 741	0.031069	1.139599	down	Hexa	NM_001004 443
A_44_P381 344	0.03014	1.519623	up		AI511453
A_44_P914 357	0.033889	2.374336	down		
A_43_P108 90	0.00562	1.109879	up	Tbca	NM_001013 245
A_44_P295 703	0.020664	1.115532	down		AI177361
A_44_P929 423	0.019679	1.173285	up	Itga9	XM_001061 864
A_44_P423 651	0.03718	1.221848	up	Prss12	NM_053504
A_44_P338 914	0.03286	1.417479	up		BQ209894
A_44_P125 352	0.018505	1.571784	up		BI293607
A_44_P900 229	0.026166	1.26086	up		
A_44_P624 335	0.046701	1.332341	up		
A_44_P747 655	0.031386	1.476692	down		
A_44_P246 010	0.033199	1.239643	down	Kif16b	NM_001107 783
A_44_P419 403	0.046101	1.229132	down		XM_238899
A_43_P174 00	0.016042	1.383247	down	Pmm2	NM_001106 973
A_44_P745 129	0.04814	1.69742	down		
A_44_P886 690	0.037383	1.238463	up	Lpar2	NM_001109 109
A_44_P446 994	0.016384	1.128887	down		BF550209
A_43_P178 90	0.01666	1.188142	down	Fam198a	CB606389
A_44_P361 144	0.034379	1.408034	down	Nacc2	NM_001100 533
A_44_P311 797	0.028195	1.747933	down	Cpxm1	NM_001106 511



A_44_P583 957	0.042288	1.213238	down		
A_44_P189 043	0.008674	1.263373	down	Gphn	NM_022865
A_44_P217 452	0.007248	1.235416	up	Tgoln1	NM_138840
A_44_P807 940	0.046189	1.132017	up		
A_44_P822 364	0.039783	1.209615	up		
A_44_P230 622	0.031712	1.266525	up		BM386671
A_44_P439 658	0.01879	1.667512	down		AI105088
A_44_P293 283	0.009832	1.295009	down		XM_234433
A_44_P188 996	0.046299	1.300718	up		AA964521
A_44_P884 020	0.026392	1.162993	up		
A_44_P181 836	0.026679	1.272744	up		AW915351
A_44_P538 406	0.029504	1.220738	up	Fkbp1a	NM_013102
A_44_P990 309	0.030187	1.257627	down	Znf655	NM_001008 362
A_44_P870 133	0.014126	1.226208	up		
A_44_P302 012	0.023122	1.109577	up	RGD15663 55	XM_235722
A_44_P529 082	0.048696	1.278391	up		AI411809
A_44_P380 384	0.007175	1.37425	up	Dscr6	NM_001105 892
A_44_P340 261	0.022092	1.573048	down	RGD13058 07	NM_001025 276
A_44_P339 361	0.039256	1.203787	up		CA509438
A_44_P741 723	0.011471	1.147947	down	Il13ra1	NM_145789
A_44_P558 636	0.032077	1.204492	up	Ppp1r9b	NM_053474
A_44_P260 268	0.011909	1.18707	down	Tinf2	NM_001006 962

A_44_P100 0543	0.003622	1.309256	up		CA339586
A_44_P740 845	0.021365	1.210261	up		E00898
A_44_P643 256	0.041716	1.661457	up		
A_44_P699 332	0.008904	1.187378	up		
A_44_P382 318	0.005777	1.403685	up	Pftk1	NM_001108 617
A_44_P248 591	0.001691	1.418545	up		XM_343383
A_44_P188 015	0.007799	1.382014	up		AA818078
A_44_P837 519	0.011848	1.653317	up		
A_43_P160 37	0.034075	1.430943	down	Prkcq	AB020614
A_44_P664 191	0.038549	1.140874	up	Arhgef2	NM_001012 079
A_44_P899 530	0.038419	1.459857	up		
A_44_P730 251	0.021927	1.14416	up	Slc25a24	NM_001127 544
A_42_P708 614	0.01605	1.129875	up	Ndufa6	NM_001130 505
A_44_P460 754	0.047625	1.316851	up		AA859861
A_43_P218 85	0.046044	1.287653	up	Antxr1	NM_001044 249
A_44_P118 315	0.049211	1.187609	up		XM_001073 919
A_44_P335 816	0.040107	1.160523	up		AA924717
A_44_P303 009	0.015826	1.39537	up		CB605594
A_44_P390 910	0.018908	1.401294	up		AA946072
A_44_P555 985	0.049038	1.249445	up		BI284716
A_44_P110 400	0.011658	1.480366	up	Aloxe3	NM_001105 793
A_44_P263 691	0.045392	1.149919	up		AI409493

A_44_P213 272	0.02571	1.810967	down		
A_44_P100 3210	0.043035	1.141476	up		AF452728
A_44_P368 017	0.002417	1.632133	up	Pcdh17	NM_001107 279
A_44_P103 4375	0.022703	1.241535	up	Ptgfrn	NM_019243
A_44_P105 9827	0.033653	1.202911	up		AW143339
A_44_P884 188	0.007639	1.17597	up		
A_43_P166 26	0.035155	2.756746	down	Metrn	NM_001009 962
A_42_P571 169	0.022978	1.106148	up	Ttc17	BC168714
A_44_P311 046	0.015852	1.532739	up		AA946377
A_44_P246 538	0.014677	1.276435	up	Tgfb2	NM_031131
A_43_P190 47	0.00952	1.112543	down	Golph31	NM_001007 698
A_42_P473 302	0.017908	1.139454	up		DV728597
A_43_P104 05	0.005591	1.375866	up	Klhdc5	NM_001109 257
A_44_P231 811	0.03834	1.197305	down		XM_224540
A_43_P164 60	0.032999	1.21235	up	Tmub2	NM_001031 651
A_44_P399 015	0.039224	1.267518	up		BF393902
A_44_P899 822	0.035552	1.093173	up		
A_44_P356 812	0.022597	1.170003	up	Kctd5	NM_001105 768
A_44_P356 242	0.045078	1.096694	up	Zcche8	NM_001105 929
A_44_P353 354	0.032062	1.372433	up		AW533421
A_44_P113 879	0.041681	1.305567	down	Slco1a5	NM_030838
A_44_P119 370	0.031701	1.249594	down	RGD13096 51	XM_341702

A_44_P976 979	0.038413	1.520256	down		
A_44_P397 441	0.009329	1.103507	up	Eif1	NM_001105 837
A_44_P684 304	0.0372	1.16415	up	Mypop	NM_001109 139
A_44_P281 155	0.044739	1.319543	down	Nek7	NM_001108 346
A_43_P121 50	0.013917	1.314364	down	Pik3r2	NM_022185
A_43_P127 07	0.042885	1.675918	up	Ptms	NM_031975
A_44_P454 646	0.018847	1.134189	down	Fam69a	NM_001170 456
A_42_P467 956	0.049378	1.232209	up	Sestd1	NM_001134 514
A_44_P367 345	0.014081	1.404457	up		AA957788
A_44_P143 939	0.045316	1.200336	up		DV726898
A_42_P515 454	0.020032	1.30284	up	Csnk1e	NM_031617
A_44_P407 600	0.046436	1.249313	up	Fam36a	NM_001105 976
A_44_P546 632	0.015898	1.36437	up		BF559342
A_43_P126 82	0.029204	1.201652	up	Rest	NM_031788
A_44_P249 743	0.043828	1.494434	up		BI294956
A_42_P830 311	0.048511	1.502984	down	Mrap	NM_001135 834
A_44_P730 740	0.046967	1.356422	down		XM_002727 745
A_44_P103 7364	0.025197	1.220767	up	Atp9b	BC084699
A_44_P147 726	0.041431	1.257337	up	Pgs1	XM_221142
A_42_P640 019	0.046465	1.178967	up		
A_44_P101 8464	0.024687	1.207081	up	Htra2	NM_001106 599
A_44_P122 545	0.003735	1.251564	up		AI317872

A_44_P806 889	0.011928	1.252069	up		
A_43_P107 42	0.016418	1.660201	down		CB547617
A_44_P644 149	0.022447	1.620653	up		
A_42_P658 815	0.040691	1.164431	up	Atp6v1e1	NM_198745
A_44_P979 659	0.019832	1.190366	up		
A_44_P102 6984	0.016077	1.577108	down	Asb12	NM_001037 367
A_44_P309 688	0.007511	1.140281	down		XM_001064 690
A_44_P941 963	0.031265	1.15558	up		CX570462
A_44_P597 401	0.021779	1.246361	up		AI009946
A_44_P226 470	0.015512	1.196942	up		AW534166
A_44_P363 410	0.04412	1.265716	up	Ppfia1	NM_001106 320
A_44_P639 923	0.031249	1.499216	up		
A_44_P165 196	0.042171	1.337737	up		BI303655
A_43_P100 06	0.003784	1.162144	up	Map2k3	NM_001100 674
A_44_P574 368	0.043378	1.233081	up		AA963828
A_44_P540 660	0.047919	1.299277	up	Ccdc50	NM_182736
A_44_P357 835	0.032162	1.374448	up		BF282088
A_44_P606 828	0.038434	1.307645	down		CF108700
A_44_P279 331	0.016674	1.642058	down		XM_343561
A_44_P339 290	0.043102	1.755216	up		AW534967
A_44_P235 177	0.011051	1.406502	up		BM387083
A_44_P129 330	0.020709	1.269007	down	Rhpn2	NM_001107 505

A_44_P854 045	0.030491	1.243011	up		XM_001055 616
A_44_P310 851	0.025485	1.189316	down	LOC68985 2	NM_001101 005
A_44_P885 003	0.012453	1.179498	up	Arap2	NM_001107 216
A_44_P884 221	0.032633	1.105836	up		
A_44_P465 684	0.038585	1.508212	up		BE120816
A_42_P652 202	0.015746	1.221781	up	Rabggta	L10415
A_44_P372 950	0.020745	1.341826	up	RGD13048 84	NM_001107 436
A_44_P112 149	0.037213	1.127627	up	Tnks2	NM_001107 607
A_44_P304 402	0.042544	1.071047	up	Tpp2	NM_031137
A_44_P509 203	0.004554	4.146414	up	Rnf146	AI177765
A_44_P362 515	0.01954	1.484148	down		BF283269
A_44_P102 5454	0.025924	1.123084	up	Foxp1	NM_001034 131
A_44_P902 067	0.048258	1.336202	up		
A_44_P947 670	0.027361	1.08613	up		
A_44_P265 702	0.019835	1.334193	up	Ppfibp1	NM_001107 896
A_44_P105 871	0.032668	1.183531	up		AI411021
A_44_P620 032	0.026516	1.337556	up		AI317880
A_44_P930 160	0.03492	1.129772	up	Pdcd6ip	NM_001029 910
A_44_P351 943	0.005165	1.342533	up	Nfx1	NM_001024 784
A_44_P332 422	0.042534	1.506129	down	C1s	NM_138900
A_43_P176 63	0.046276	1.204923	up	Socs5	NM_001109 274
A_44_P387 246	0.013623	1.251257	up	Sin3a	NM_001108 761

A_44_P860 400	0.01763	1.281708	up		CK839443
A_44_P166 544	0.040367	1.326657	up		CK478588
A_44_P244 076	0.022981	1.280211	up		CK476138
A_44_P290 703	0.045923	1.204403	down	LOC10036 3748	XR_085745
A_44_P809 962	0.042108	1.173821	up		
A_44_P526 441	0.023982	1.227174	up		BE112479
A_44_P150 654	0.047837	1.247753	up		AI171992
A_44_P665 620	0.026452	1.222834	up		BP490619
A_44_P557 428	0.048844	1.775289	down		AF370009
A_44_P352 061	0.030266	1.299603	up		XM_234862
A_44_P107 132	0.047781	1.481454	down	Mapk8ip1	NM_053777
A_44_P139 494	0.019167	1.764441	down	LOC68896 6	CN543488
A_44_P196 939	0.040364	1.439017	down		XM_001080 437
A_44_P513 385	0.022577	1.177154	up	Dab2	NM_024159
A_44_P243 599	0.004778	1.345782	down	RGD15663 20	NM_001106 520
A_44_P463 759	0.021974	1.457781	up	Prickle1	NM_199396
A_44_P769 703	0.044208	1.823211	up	Nrep	NM_178096
A_44_P176 042	0.045518	2.421349	down	Slfn1	XM_001068 751
A_44_P158 173	0.020423	1.165309	up		AA964184
A_44_P215 917	0.02143	1.876106	up	Plexd2	NM_001134 481
A_44_P520 810	0.012578	1.38393	down	LOC10035 9818	XM_002727 014
A_44_P496 706	0.005164	1.43598	down	Ikbke	NM_001108 854

A_44_P129 853	0.020608	1.329178	up		FM142573
A_44_P807 993	0.018161	1.247584	up		
A_44_P147 047	0.004111	1.229772	up	Adam10	Z48444
A_44_P557 894	0.024124	1.136795	down		XR_008926
A_44_P466 183	0.04216	1.433129	up	Rap2b	NM_133410
A_44_P941 990	0.018593	1.104935	up		BF548061
A_44_P138 224	0.035169	1.239644	up	Vezt	NM_001006 984
A_42_P747 311	0.017125	1.212929	up		AF175208
A_44_P652 021	0.04217	1.239013	down		
A_42_P467 994	0.024713	1.161967	up	Slc12a4	NM_019229
A_42_P745 623	0.011076	1.337367	up	Sec14l1	NM_001108 309
A_44_P383 088	0.022443	1.578453	down		AF366899
A_42_P830 209	0.0203	1.66638	down	Frmpd1	NM_001107 937
A_44_P207 403	0.025507	1.617278	up		AA998473
A_44_P507 419	0.005566	1.232424	up	Trak2	NM_133560
A_44_P237 564	0.039556	1.165218	up		BF560252
A_44_P467 090	0.031425	1.232867	up		BF419646
A_44_P999 889	0.027428	1.101823	up	Tmem57	NM_001025 699
A_42_P554 066	0.024901	1.246993	down	Tasp1	NM_001044 243
A_43_P171 64	0.034612	1.28521	up	Pcaf	XM_217321
A_44_P103 2732	0.047153	1.286719	up	B4galt6	NM_031740
A_44_P580 559	0.045684	1.141251	up		FM082204



A_44_P545 114	0.033431	1.268457	up		AA899814
A_44_P267 610	0.017809	1.357484	up	Trib2	NM_001108 015
A_43_P211 66	0.024743	1.483861	up	Ptprm	NM_001168 632
A_42_P815 346	0.018249	1.293044	up		AA998118
A_44_P331 199	0.035269	1.220674	up		BE120644
A_44_P363 949	0.031114	1.258946	up		AI103314
A_44_P235 591	0.04065	1.392385	up		CA504421
A_42_P571 260	0.033604	1.376491	down	Maf1	NM_001014 085
A_44_P684 795	0.043569	1.23215	up	Irs2	NM_001168 633
A_44_P240 526	0.026408	1.231439	up		AI071379
A_44_P554 486	0.036571	1.18732	up		AA850579
A_44_P526 046	0.046183	1.382402	up		BQ196010
A_44_P531 076	0.049376	1.178824	up		AI010962
A_44_P135 728	0.008387	1.213139	up		
A_43_P219 25	0.049016	1.597554	up	Mll2	XM_002729 854
A_42_P482 349	0.03647	1.07317	up	Rab3gap2	NM_001040 154
A_44_P665 667	0.009475	1.36988	up		AI171211
A_44_P362 425	0.004086	1.275598	up		BM384026
A_44_P808 472	0.030115	1.228972	up		
A_44_P516 306	0.004057	1.14008	up	Pygo2	NM_001106 447
A_44_P992 812	0.023522	1.43889	up	Pcdhac2	NM_201422
A_44_P684 740	0.021138	1.322638	up	Pcdh17	NM_001107 279

A_44_P815 724	0.028097	1.406288	up		
A_44_P866 810	0.012957	1.12206	up	Tead2	NM_001107 512
A_44_P414 136	0.008619	1.352433	up		AA818098
A_44_P412 452	0.005485	1.596116	up	Sh3pxd2a	NM_001107 606
A_44_P141 872	0.039047	1.387364	up		BG372685
A_44_P145 239	0.03479	1.142782	down	LOC68392 0	XM_002724 599
A_44_P315 773	0.032874	1.358286	up		AI028932
A_44_P368 679	0.026573	1.445548	up		BF283449
A_44_P253 073	0.01224	1.734332	down	Aspn	NM_001014 008
A_44_P115 769	0.010632	1.507092	up		AI171654
A_42_P817 668	0.017951	1.316072	down		BC086427
A_44_P729 396	0.037967	1.174644	up		
A_44_P666 038	0.022332	1.251837	up		CF110295
A_43_P117 63	0.003807	1.425238	up	Add1	Z49081
A_43_P112 10	0.026298	1.281644	up	Srpr	NM_001034 150
A_44_P724 632	0.045972	1.14772	up		AI176008
A_44_P457 468	0.006028	1.122942	down		XM_236837
A_44_P455 826	0.035804	1.211609	up		AI178769
A_44_P362 016	0.045361	1.98155	up		AY325180
A_44_P551 054	0.002346	1.664709	up	Rassf3	NM_001108 747
A_44_P552 072	0.032521	1.273236	up		BI281621
A_44_P137 545	0.024773	1.701397	up	Iars	U75923

A_44_P515 798	0.014036	1.632816	down	Ucma	NM_001106 121
A_44_P439 812	0.02292	1.1369	up		AI171267
A_44_P438 426	0.027727	1.755154	down	Scara5	NM_001135 855
A_42_P746 851	0.010511	1.347611	up		AW916157
A_44_P886 124	0.044739	1.220248	up		
A_44_P376 454	0.02372	1.200817	up		AA858545
A_44_P255 449	0.005953	1.252264	up	Col4a3bp	NM_001108 935
A_44_P249 930	0.044123	1.30476	up		AW140722
A_44_P287 766	0.046697	1.206341	up		AI603162
A_44_P423 036	0.02361	1.227437	up		AI232307
A_44_P273 503	0.028668	1.140581	up	Pigp	AA926031
A_44_P828 963	0.025209	1.487822	down	Sit1	NM_001024 344
A_42_P816 427	0.00698	1.599502	down	Wisp1	NM_031716
A_44_P905 187	0.028792	1.510563	down	Dnajc6	NM_001107 949
A_44_P638 170	0.035255	1.303199	down		XM_001072 957
A_44_P296 651	0.035396	1.312084	up		AI706451
A_42_P453 737	0.025696	1.326601	up		AW918040
A_44_P740 179	0.021999	1.235348	down		AI180087
A_44_P228 806	0.038945	1.242854	up		AI170276
A_44_P970 247	0.046633	1.095106	up	Nicn1	NM_001034 999
A_44_P185 174	0.029172	1.552901	down		EX493555
A_44_P538 086	0.028802	1.425259	up	Mboat2	NM_001108 016

A_43_P196 40	0.024231	1.192458	up	Tnks1bp1	XM_215763
A_43_P103 53	0.048617	1.169057	up		XM_213569
A_42_P472 274	0.003212	1.422646	down	Slurp1	NM_001130 544
A_44_P687 542	0.032713	1.196688	up	LOC68801 8	XR_009418
A_44_P240 621	0.03584	1.321946	up		BP466593
A_44_P837 538	0.040939	1.937934	up		M23953
A_44_P115 378	0.026583	1.148773	up	Ssbp3	NM_053358
A_44_P107 850	0.025017	1.433426	up		XM_002727 665
A_44_P350 652	0.03905	1.112934	up		BI395724
A_44_P381 906	0.009526	1.329695	up	Slk	NM_019349
A_42_P739 488	0.04954	1.260259	up		BF556222
A_42_P766 027	0.021494	1.555508	up		BC089996
A_44_P538 275	0.038381	1.278222	down		L26525
A_44_P211 630	0.022701	1.196186	up		BU946548
A_44_P104 0503	0.032252	1.377202	up	Pctp	AF040261
A_44_P935 107	0.046398	1.210387	up		FM093176
A_44_P195 999	0.031858	1.366576	up		AA800882
A_44_P808 013	0.018635	1.135914	down		CO402766
A_44_P596 051	0.028825	1.724517	down		DY471163
A_44_P992 468	0.004608	1.155778	up	Trappc5	NM_001108 850
A_42_P470 757	0.006108	1.094666	down	Rnf34	NM_001004 075
A_44_P524 779	0.040129	1.391162	down	Slc4a5	NM_212512

A_43_P109 52	0.027872	1.15499	up		AABR03057 257
A_44_P172 787	0.009188	1.263524	down	Serpina11	NM_001008 776
A_44_P854 406	0.010755	1.221004	up		EV770773
A_44_P101 3872	0.027463	1.182137	up	Mon1b	NM_001107 433
A_44_P384 083	0.040337	1.121136	down	Nyw1	NM_001134 341
A_44_P577 155	0.045374	1.131929	up		
A_44_P287 803	0.03514	1.459485	up		AA996470
A_42_P669 544	0.04946	1.212433	up	Cpm	NM_001108 098
A_44_P527 521	0.044475	1.189854	up	RGD13060 58	NM_001134 572
A_44_P154 773	0.0446	1.200127	down		XR_008646
A_44_P358 582	0.024014	1.258998	down		XM_222276
A_44_P131 209	0.028269	1.150827	down		XR_085617
A_44_P195 839	0.030939	1.151531	down	Chmp1b	NM_001109 533
A_44_P310 771	0.015169	1.214276	up		DY471696
A_44_P101 6988	0.014392	1.282918	up	Stard9	XM_230493
A_42_P758 052	0.029103	1.084861	up	Acp6	NM_001031 645
A_44_P334 139	0.043017	1.157455	up		XM_001075 972
A_44_P174 749	0.0343	1.769452	down		BF396509
A_42_P544 898	0.01448	1.531351	up	Bcl6b	NM_001108 279
A_44_P591 895	0.008235	1.275599	up		
A_44_P137 623	0.014214	1.342016	up	Ppp1r9b	NM_053474
A_44_P101 6829	0.035968	1.264336	up	Trib1	NM_023985

A_43_P166 30	0.025258	1.129481	up	Ostc	NM_001108 566
A_42_P732 259	0.030217	1.522345	down	Fam26f	NM_001024 976
A_44_P627 982	0.043097	1.144145	down		
A_44_P901 368	0.028792	1.220498	up		
A_44_P652 617	0.048849	1.328353	up	Chd8	NM_022933
A_44_P100 197	0.032669	1.19923	down	Zfp799	NM_001009 537
A_44_P113 244	0.038343	1.176659	down		AI044569
A_44_P112 322	0.013372	1.432456	up		XR_006437
A_44_P532 557	0.019193	1.382802	down	LOC30413 1	NM_001013 979
A_44_P991 399	0.040015	1.101744	up	Paf1	NM_001024 898
A_44_P136 679	0.043765	1.233567	down	Isoc1	NM_001014 242
A_44_P574 959	0.032946	1.238532	down	LOC68169 4	NM_001044 279
A_44_P121 935	0.028582	1.175787	up	Hdac10	NM_001035 000
A_44_P545 948	0.036549	1.614602	down		
A_44_P353 955	0.04451	1.818727	down		XM_574644
A_44_P121 325	0.019625	1.138354	up	Rab22a	NM_001108 966
A_44_P101 1018	0.046378	1.123218	down	Nkap	NM_001024 872
A_44_P408 347	0.034843	1.240033	up		BE109513
A_44_P745 488	0.036568	1.139328	up	Pcnx	NM_001170 347
A_44_P103 9809	0.035206	1.199276	up	Rasip1	NM_001106 261
A_42_P604 331	0.031133	1.369711	up	Spock2	NM_001108 533
A_44_P414 139	0.015609	1.237114	up		BE117892

A_44_P181 616	0.036133	1.178952	up		AA926004
A_44_P531 273	0.048485	1.127428	up		AI169642
A_44_P532 754	0.012765	1.144906	up	Pbx3	NM_001107 834
A_44_P745 115	0.031186	1.19698	up	Pogk	NM_001107 194
A_44_P285 161	0.009913	1.22884	up		AI101103
A_44_P303 492	0.008526	1.592822	up		AI168935
A_44_P712 484	0.002156	1.13736	up	RGD13097 62	XM_222205
A_44_P840 399	0.024972	1.361139	up		
A_44_P212 294	0.020287	1.160545	up		DY472414
A_44_P437 001	0.009102	1.439571	up		BF407099
A_44_P408 050	0.006224	1.246763	up	Ckap4	NM_001108 740
A_42_P479 920	0.013908	1.051432	up	Srp14	NM_001106 497
A_43_P114 48	0.043248	1.41161	down	Cp	NM_012532
A_44_P472 271	0.011224	1.270874	up	Rgl1	NM_001105 957
A_42_P557 293	0.031633	1.218435	up	Rfesd	NM_001108 540
A_44_P200 233	0.027328	1.071365	up	Nrd1	NM_012993
A_44_P314 876	0.038392	1.18827	up	Six5	NM_001107 485
A_44_P452 978	0.011642	1.543826	up		BE110169
A_44_P730 016	0.02538	1.207151	up		
A_44_P113 662	0.008486	1.171244	up		AA925959
A_44_P848 109	0.019352	1.24783	up		AW916604
A_44_P275 142	0.037688	1.154931	up	Ankrd26	XM_232319

A_44_P159 040	0.005487	1.122013	up	Vegfb	NM_053549
A_44_P219 128	0.019359	1.335667	up		AW527533

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S3 Table Analyzed proteomics parameters of lung tissue of chronic obstructive pulmonary disease rats

Identified Proteins	Accession Number	Molecular Weight	Ref	log2 (B/A)	Ratio (B/A)
Sideroflexin-3	IPI00200069	35 kDa	Ref	-1	0.5
Keratin, type I cytoskeletal 18	IPI00480679	48 kDa	Ref	-0.7	0.615572207
Proteasome subunit beta type-3	IPI00214889	23 kDa	Ref	-0.7	0.615572207
Sodium/potassium-transporting ATPase subunit alpha-1	IPI00326305	113 kDa	Ref	-0.7	0.615572207
Protein DJ-1	IPI00212523	20 kDa	Ref	-0.6	0.659753955
Annexin A3	IPI00207390	36 kDa	Ref	-0.6	0.659753955
inorganic pyrophosphatase	IPI00915560	33 kDa	Ref	-0.6	0.659753955
Calpain-2 catalytic subunit	IPI00388249	80 kDa	Ref	-0.6	0.659753955
Alpha-1-macroglobulin	IPI00326140	167 kDa	Ref	-0.5	0.707106781
Phosphoglycerate kinase 1	IPI00231426	45 kDa	Ref	-0.5	0.707106781
Uteroglobin	IPI00189150	10 kDa	Ref	-0.5	0.707106781
Uncharacterized protein	IPI00199867	95 kDa	Ref	-0.5	0.707106781
Guanine nucleotide-binding protein G(i) subunit alpha-2	IPI00231925	41 kDa	Ref	-0.5	0.707106781
Hemoglobin subunit alpha-1/2	IPI00287835	15 kDa	Ref	-0.4	0.757858283
myosin-6	IPI00189809	224 kDa	Ref	-0.4	0.757858283
Uncharacterized protein	IPI00231136	137 kDa	Ref	-0.4	0.757858283
Carbonic anhydrase 1	IPI00360930	28 kDa	Ref	-0.4	0.757858283
inter-alpha-inhibitor H4 heavy chain	IPI00188541	104 kDa	Ref	-0.4	0.757858283
Uncharacterized protein	IPI00781155	37 kDa	Ref	-0.3	0.812252396

Serpin H1	IPI002047 03	47 kDa	Re f	-0.3	0.81225239 6
Lumican	IPI002064 03	38 kDa	Re f	-0.3	0.81225239 6
Complement C4	IPI002130 36	192 kDa	Re f	-0.3	0.81225239 6
Isoform 1 of Cell division control protein 42 homolog	IPI002856 06	21 kDa	Re f	-0.3	0.81225239 6
Protein disulfide-isomerase	IPI001988 87	57 kDa	Re f	-0.3	0.81225239 6
Isoform 1 of Alpha-1B-glycoprotein	IPI001890 58	56 kDa	Re f	-0.3	0.81225239 6
chloride intracellular channel 3	IPI003719 90	27 kDa	Re f	-0.3	0.81225239 6
Carbonic anhydrase 2	IPI002307 87	29 kDa	Re f	-0.3	0.81225239 6
Uncharacterized protein	IPI001900 20	115 kDa	Re f	-0.3	0.81225239 6
Myosin light chain 4	IPI002144 57	21 kDa	Re f	-0.3	0.81225239 6
Zero beta-1 globin	IPI002071 46	16 kDa	Re f	-0.2	0.87055056 3
L-lactate dehydrogenase A chain	IPI001977 11	36 kDa	Re f	-0.2	0.87055056 3
Actin, alpha cardiac muscle 1	IPI001940 87	42 kDa	Re f	-0.2	0.87055056 3
Transgelin	IPI002311 96	23 kDa	Re f	-0.2	0.87055056 3
Glyceraldehyde-3-phosphate dehydrogenase	IPI005552 52	36 kDa	Re f	-0.2	0.87055056 3
Isoform 1 of Tropomyosin alpha-1 chain	IPI001978 88	33 kDa	Re f	-0.2	0.87055056 3
Trifunctional enzyme subunit alpha, mitochondrial	IPI002126 22	83 kDa	Re f	-0.2	0.87055056 3
destrin-like	IPI003731 40	19 kDa	Re f	-0.2	0.87055056 3
Annexin A8	IPI003580 87	37 kDa	Re f	-0.2	0.87055056 3
Pulmonary surfactant-associated protein A	IPI003275 02	26 kDa	Re f	-0.2	0.87055056 3
Plasmalemma vesicle-associated protein	IPI002045 04	50 kDa	Re f	-0.2	0.87055056 3
Tropomodulin 3	IPI003735 05	39 kDa	Re f	-0.2	0.87055056 3

Actin-related protein 2	IPI003620 72	45 kDa	Re f	-0.2	0.87055056 3
Uncharacterized protein	IPI002102 24	309 kDa	Re f	-0.2	0.87055056 3
ADP/ATP translocase 1	IPI002319 27	33 kDa	Re f	-0.2	0.87055056 3
RCG39189, isoform CRA_a	IPI003646 21	54 kDa	Re f	-0.2	0.87055056 3
Serum albumin	IPI001917 37	69 kDa	Re f	-0.1	0.93303299 2
Myosin-9	IPI002091 13	226 kDa	Re f	-0.1	0.93303299 2
Isoform 1 of Serotransferrin	IPI006792 02	76 kDa	Re f	-0.1	0.93303299 2
Isoform 1 of Murinoglobulin-1	IPI002126 66	165 kDa	Re f	-0.1	0.93303299 2
Isoform 2 of Tropomyosin beta chain	IPI001877 31	33 kDa	Re f	-0.1	0.93303299 2
Alpha-1-antiproteinase	IPI003240 19	46 kDa	Re f	-0.1	0.93303299 2
14-3-3 protein epsilon	IPI003251 35	29 kDa	Re f	-0.1	0.93303299 2
EH domain-containing protein 2	IPI002114 48	61 kDa	Re f	-0.1	0.93303299 2
Apolipoprotein A-I	IPI001977 03	30 kDa	Re f	-0.1	0.93303299 2
Aldehyde dehydrogenase, mitochondrial	IPI001977 70	56 kDa	Re f	-0.1	0.93303299 2
Peptidyl-prolyl cis-trans isomerase A	IPI003877 71	18 kDa	Re f	-0.1	0.93303299 2
Guanine deaminase	IPI003258 84	51 kDa	Re f	-0.1	0.93303299 2
Malate dehydrogenase, mitochondrial	IPI001976 96	36 kDa	Re f	-0.1	0.93303299 2
Vesicle amine transport protein 1 homolog (T californica), isoform CRA_a	IPI002019 69	43 kDa	Re f	-0.1	0.93303299 2
Transitional endoplasmic reticulum ATPase	IPI002120 14	89 kDa	Re f	-0.1	0.93303299 2
Thioredoxin	IPI002313 68	12 kDa	Re f	-0.1	0.93303299 2
Acetyl-CoA acetyltransferase, mitochondrial	IPI003243 02	45 kDa	Re f	-0.1	0.93303299 2

Heat shock protein HSP 90-beta	IPI004715 84	83 kDa	Re f	-0.1	0.93303299 2
Desmin	IPI004215 17	53 kDa	Re f	-0.1	0.93303299 2
Glutathione S-transferase Mu 2	IPI004112 30	26 kDa	Re f	-0.1	0.93303299 2
ATP-citrate synthase isoform 1	IPI002146 65	121 kDa	Re f	-0.1	0.93303299 2
Phosphatidylethanolamine-binding protein 1	IPI002309 37	21 kDa	Re f	-0.1	0.93303299 2
protein disulfide-isomerase A6	IPI003659 29	49 kDa	Re f	-0.1	0.93303299 2
Uncharacterized protein	IPI003649 32	31 kDa	Re f	-0.1	0.93303299 2
Aconitate hydratase, mitochondrial	IPI004215 39	85 kDa	Re f	-0.1	0.93303299 2
Bifunctional purine biosynthesis protein PURH	IPI003933 33	64 kDa	Re f	-0.1	0.93303299 2
Citrate synthase, mitochondrial	IPI002069 77	52 kDa	Re f	-0.1	0.93303299 2
Peroxiredoxin-1	IPI002117 79	22 kDa	Re f	-0.1	0.93303299 2
Fructose-bisphosphate aldolase A	IPI002317 34	39 kDa	Re f	-0.1	0.93303299 2
60S acidic ribosomal protein P2	IPI001888 04	12 kDa	Re f	-0.1	0.93303299 2
C9 protein	IPI002314 23	64 kDa	Re f	-0.1	0.93303299 2
Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	IPI002010 32	38 kDa	Re f	-0.1	0.93303299 2
Uncharacterized protein	IPI002026 51	87 kDa	Re f	-0.1	0.93303299 2
Triosephosphate isomerase	IPI002317 67	27 kDa	Re f	-0.1	0.93303299 2
Alpha-actinin-1	IPI002090 82	103 kDa	Re f	-0.1	0.93303299 2
Heat shock 70 kDa protein 1A/1B	IPI001967 51	70 kDa	Re f	-0.1	0.93303299 2
tensin 1	IPI003627 55	204 kDa	Re f	-0.1	0.93303299 2
Actin, cytoplasmic 1	IPI001898 19	42 kDa	Re f	0.1	1.07177346 3
myosin, heavy chain 11, smooth muscle isoform 3	IPI007641 67	228 kDa	Re f	0.1	1.07177346 3

Polymerase I and transcript release factor	IPI00201300	44 kDa	Ref	0.1	1.071773463
Uncharacterized protein	IPI00190577	404 kDa	Ref	0.1	1.071773463
Serine protease inhibitor A3K	IPI00200593	47 kDa	Ref	0.1	1.071773463
Annexin A5	IPI00471889	36 kDa	Ref	0.1	1.071773463
Uncharacterized protein	IPI00367479	229 kDa	Ref	0.1	1.071773463
Liver regeneration protein Irryan	IPI00392216	68 kDa	Ref	0.1	1.071773463
Laminin subunit beta-2	IPI00212868	196 kDa	Ref	0.1	1.071773463
Keratin, type I cytoskeletal 19	IPI00207014	45 kDa	Ref	0.1	1.071773463
Fatty acid synthase	IPI00200661	273 kDa	Ref	0.1	1.071773463
Tubulin beta-2C chain	IPI00400573	50 kDa	Ref	0.1	1.071773463
Uncharacterized protein	IPI00197362	17 kDa	Ref	0.1	1.071773463
Heat shock cognate 71 kDa protein	IPI00208205	71 kDa	Ref	0.1	1.071773463
Plectin 6	IPI00209000	534 kDa	Ref	0.1	1.071773463
Keratin, type II cytoskeletal 8	IPI00389571	54 kDa	Ref	0.1	1.071773463
Glucose-6-phosphate isomerase	IPI00364311	63 kDa	Ref	0.1	1.071773463
Catalase	IPI00231742	60 kDa	Ref	0.1	1.071773463
Heat shock protein beta-1	IPI00201586	23 kDa	Ref	0.1	1.071773463
ras GTPase-activating-like protein IQGAP1	IPI00365769	189 kDa	Ref	0.1	1.071773463
Annexin A4, isoform CRA_a	IPI00231968	36 kDa	Ref	0.1	1.071773463
Serine (Or cysteine) peptidase inhibitor, clade B, member 6a, isoform CRA_a	IPI00782070	43 kDa	Ref	0.1	1.071773463
Ubiquitin-40S ribosomal protein S27a	IPI00190240	18 kDa	Ref	0.1	1.071773463
Lamin C2	IPI00188879	53 kDa	Ref	0.1	1.071773463

Elongation factor 1-alpha 1	IPI001953 72	50 kDa	Re f	0.1	1.07177346 3
Peroxiredoxin-2	IPI002015 61	22 kDa	Re f	0.1	1.07177346 3
Alcohol dehydrogenase [NADP+]	IPI002308 59	37 kDa	Re f	0.1	1.07177346 3
Superoxide dismutase [Cu-Zn]	IPI002316 43	16 kDa	Re f	0.1	1.07177346 3
Glutathione peroxidase 1	IPI001923 01	22 kDa	Re f	0.1	1.07177346 3
Basal cell adhesion molecule	IPI001923 10	68 kDa	Re f	0.1	1.07177346 3
Uncharacterized protein	IPI003707 05	81 kDa	Re f	0.1	1.07177346 3
Adenine phosphoribosyltransferase	IPI009509 65	20 kDa	Re f	0.1	1.07177346 3
Malate dehydrogenase, cytoplasmic	IPI001987 17	36 kDa	Re f	0.1	1.07177346 3
Nucleolin, isoform CRA_c	IPI002318 27	77 kDa	Re f	0.1	1.07177346 3
Endoplasmic reticulum resident protein 29	IPI002071 84	29 kDa	Re f	0.1	1.07177346 3
Aspartate aminotransferase, mitochondrial	IPI002109 20	47 kDa	Re f	0.1	1.07177346 3
Dynactin subunit 2	IPI002130 15	44 kDa	Re f	0.1	1.07177346 3
Ras-related protein Rab-7a	IPI002155 64	24 kDa	Re f	0.1	1.07177346 3
Rab GDP dissociation inhibitor alpha	IPI003249 86	51 kDa	Re f	0.1	1.07177346 3
Enoyl-CoA delta isomerase 1, mitochondrial	IPI002155 74	32 kDa	Re f	0.1	1.07177346 3
Histone H1.2	IPI002316 50	22 kDa	Re f	0.1	1.07177346 3
actin-related protein 3B	IPI003581 27	48 kDa	Re f	0.1	1.07177346 3
Stress-70 protein, mitochondrial	IPI003632 65	74 kDa	Re f	0.1	1.07177346 3
Vimentin	IPI002309 41	54 kDa	Re f	0.2	1.14869835 5
Isoform Short of Annexin A2	IPI003251 46	39 kDa	Re f	0.2	1.14869835 5
Purine nucleoside phosphorylase	IPI008706 31	32 kDa	Re f	0.2	1.14869835 5

Hnrpk protein	IPI001949 74	51 kDa	Re f	0.2	1.14869835 5
Isoform M2 of Pyruvate kinase isozymes M1/M2	IPI003391 97	58 kDa	Re f	0.2	1.14869835 5
Dipeptidase 1	IPI003276 97	46 kDa	Re f	0.2	1.14869835 5
Alpha-enolase	IPI004648 15	47 kDa	Re f	0.2	1.14869835 5
Elongation factor 2	IPI002032 14	95 kDa	Re f	0.2	1.14869835 5
Glutathione S-transferase (Fragment)	IPI002311 50	26 kDa	Re f	0.2	1.14869835 5
Uncharacterized protein (Fragment)	IPI003648 58	100 kDa	Re f	0.2	1.14869835 5
EH domain-containing protein 1	IPI003603 40	61 kDa	Re f	0.2	1.14869835 5
Uncharacterized protein	IPI008864 70	28 kDa	Re f	0.2	1.14869835 5
Ras-related protein Rap-1b	IPI003633 95	21 kDa	Re f	0.2	1.14869835 5
Isoform B0b of Heterogeneous nuclear ribonucleoproteins A2/B1	IPI002129 69	34 kDa	Re f	0.2	1.14869835 5
Protein phosphatase 2 (Formerly 2A), regulatory subunit A, alpha isoform	IPI003654 23	65 kDa	Re f	0.2	1.14869835 5
Biliverdin reductase B (Flavin reductase (NADPH)) (Predicted), isoform CRA_b	IPI003926 76	22 kDa	Re f	0.2	1.14869835 5
Ac2-048	IPI003823 00	34 kDa	Re f	0.2	1.14869835 5
Keratin, type II cytoskeletal 7	IPI004217 88	51 kDa	Re f	0.2	1.14869835 5
Retinol-binding protein 1	IPI002318 25	16 kDa	Re f	0.2	1.14869835 5
SEC14-like protein 3	IPI002089 39	46 kDa	Re f	0.3	1.23114441 3
Uncharacterized protein	IPI001900 88	90 kDa	Re f	0.3	1.23114441 3
Creatine kinase B-type	IPI004702 88	43 kDa	Re f	0.3	1.23114441 3
collagen, type VI, alpha 2	IPI003728 39	110 kDa	Re f	0.3	1.23114441 3
Xanthine dehydrogenase/oxidase	IPI002316 94	146 kDa	Re f	0.3	1.23114441 3
Hemopexin	IPI001955 16	51 kDa	Re f	0.3	1.23114441 3

Transglutaminase 2, C polypeptide	IPI002051 35	77 kDa	Re f	0.3	1.23114441 3
GPI-anchored ceruloplasmin	IPI003258 47	124 kDa	Re f	0.3	1.23114441 3
Isoform 1 of Tropomyosin alpha-3 chain	IPI003722 59	29 kDa	Re f	0.3	1.23114441 3
78 kDa glucose-regulated protein	IPI002066 24	72 kDa	Re f	0.3	1.23114441 3
Vitamin D-binding protein	IPI001940 97	54 kDa	Re f	0.3	1.23114441 3
Isoform PYBP1 of Polypyrimidine tract-binding protein 1	IPI002315 55	57 kDa	Re f	0.3	1.23114441 3
Nucleoside diphosphate kinase B	IPI003251 89	17 kDa	Re f	0.3	1.23114441 3
cytochrome P450 2B2	IPI001932 34	57 kDa	Re f	0.3	1.23114441 3
Calreticulin	IPI001917 28	48 kDa	Re f	0.3	1.23114441 3
Isoform B23.1 of Nucleophosmin	IPI001975 53	33 kDa	Re f	0.3	1.23114441 3
Isovaleryl-CoA dehydrogenase, mitochondrial	IPI001937 16	46 kDa	Re f	0.3	1.23114441 3
Rho GDP-dissociation inhibitor 1	IPI001969 94	23 kDa	Re f	0.3	1.23114441 3
Dipeptidyl peptidase 4	IPI002084 22	88 kDa	Re f	0.3	1.23114441 3
RT1 class I histocompatibility antigen, AA alpha chain	IPI003820 98	42 kDa	Re f	0.3	1.23114441 3
Uncharacterized protein	IPI003594 91	92 kDa	Re f	0.3	1.23114441 3
Uncharacterized protein	IPI003706 54	29 kDa	Re f	0.3	1.23114441 3
Fibulin-5	IPI003261 79	50 kDa	Re f	0.3	1.23114441 3
Moesin	IPI002123 14	68 kDa	Re f	0.4	1.31950791 1
LOC367586 protein	IPI003613 46	51 kDa	Re f	0.4	1.31950791 1
Annexin A1	IPI002316 15	39 kDa	Re f	0.4	1.31950791 1
Uncharacterized protein	IPI009483 84	146 kDa	Re f	0.4	1.31950791 1
Phosphoglycerate mutase 1	IPI004214 28	29 kDa	Re f	0.4	1.31950791 1



UDP-glucose:glycoprotein glucosyltransferase 1	IPI002055 19	176 kDa	Re f	0.4	1.31950791 1
Cysteine-rich protein 2	IPI002003 52	23 kDa	Re f	0.4	1.31950791 1
Inter-alpha-trypsin inhibitor heavy chain H3	IPI003269 84	99 kDa	Re f	0.4	1.31950791 1
Glutathione S-transferase Mu 1	IPI002316 39	26 kDa	Re f	0.4	1.31950791 1
collagen, type IV, alpha 2	IPI003653 80	163 kDa	Re f	0.4	1.31950791 1
Carboxylesterase 3	IPI003269 72	62 kDa	Re f	0.5	1.41421356 2
GF20391-like isoform 1	IPI009580 96	25 kDa	Re f	0.5	1.41421356 2
Serpina3n-like protein	IPI002110 75	48 kDa	Re f	0.5	1.41421356 2
Isoform 1 of Endoplasmin	IPI003659 85	93 kDa	Re f	0.5	1.41421356 2
Protein S100-A9	IPI002312 62	13 kDa	Re f	0.5	1.41421356 2
Myosin regulatory light chain 12B	IPI004216 25	20 kDa	Re f	0.6	1.5157165 67
Serine (Or cysteine) peptidase inhibitor, clade B, member 9	IPI003648 90	42 kDa	Re f	0.6	1.5157165 67
Septin-2	IPI002083 04	42 kDa	Re f	0.6	1.5157165 67
T-complex protein 1 subunit delta	IPI003371 68	58 kDa	Re f	0.6	1.5157165 67
Uncharacterized protein	IPI005595 83	29 kDa	Re f	0.6	1.5157165 67
Uncharacterized protein (Fragment)	IPI010164 79	375 kDa	Re f	0.7	1.6245047 93
Ubiquitin-like modifier-activating enzyme 1	IPI003683 47	118 kDa	Re f	0.8	1.7411011 27
Electron transfer flavoprotein subunit alpha, mitochondrial	IPI002053 32	35 kDa	Re f	0.8	1.7411011 27
LMO7b	IPI004213 45	157 kDa	Re f	0.9	1.8660659 83

S4 Table Analyzed proteomics parameters of lung tissue of Bufei Jianpi formula-treated rats

Identified Proteins	Accession Number	Molecular Weight	B	log <sub>2</sub> (B/D)	ratio (B/D)
Ras homolog gene family, member C	IPI00191114	22 kDa	Ref	-1	0.5
Tubulin alpha-1A chain	IPI00189795	50 kDa	Ref	-0.6	0.65975
Electron transfer flavoprotein subunit alpha, mitochondrial	IPI00205332	35 kDa	Ref	-0.6	0.65975
actin-related protein 3B	IPI00358127	48 kDa	Ref	-0.6	0.65975
Pgm2 protein	IPI00361827	69 kDa	Ref	-0.6	0.65975
Uncharacterized protein (Fragment)	IPI00364858	100 kDa	Ref	-0.6	0.65975
Serine (Or cysteine) peptidase inhibitor, clade B, member 9	IPI00364890	42 kDa	Ref	-0.6	0.65975
Ubiquitin-like modifier-activating enzyme 1	IPI00368347	118 kDa	Ref	-0.6	0.65975
Keratin, type I cytoskeletal 18	IPI00480679	48 kDa	Ref	-0.6	0.65975
GF20391-like isoform 1	IPI00958096	25 kDa	Ref	-0.6	0.65975
Uncharacterized protein	IPI00191919	77 kDa	Ref	-0.5	0.707107
Moesin	IPI00212314	68 kDa	Ref	-0.5	0.707107
Alcohol dehydrogenase [NADP+]	IPI00230859	37 kDa	Ref	-0.5	0.707107
Superoxide dismutase [Cu-Zn]	IPI00231643	16 kDa	Ref	-0.5	0.707107
collagen, type IV, alpha 2	IPI00365380	163 kDa	Ref	-0.5	0.707107
laminin, gamma 2	IPI00393413	131 kDa	Ref	-0.5	0.707107
Uncharacterized protein (Fragment)	IPI01016479	375 kDa	Ref	-0.5	0.707107
Isovaleryl-CoA dehydrogenase, mitochondrial	IPI00193716	46 kDa	Ref	-0.4	0.757858
Transitional endoplasmic reticulum ATPase	IPI00212014	89 kDa	Ref	-0.4	0.757858

GPI-anchored ceruloplasmin	IPI003258	124	Re	-0.4	0.7578
	47	kDa	f		58
collagen, type VI, alpha 2	IPI003728	110	Re	-0.4	0.7578
	39	kDa	f		58
Phosphoglycerate mutase 1	IPI004214	29 kDa	Re	-0.4	0.7578
	28		f		58
Lamin C2	IPI001888	53 kDa	Re	-0.3	0.8122
	79		f		52
Isoform 1 of Alpha-1B-glycoprotein	IPI001890	56 kDa	Re	-0.3	0.8122
	58		f		52
Cysteine-rich protein 2	IPI002003	23 kDa	Re	-0.3	0.8122
	52		f		52
Uncharacterized protein	IPI002026	87 kDa	Re	-0.3	0.8122
	51		f		52
Isoform PYBP1 of Polypyrimidine tract-binding protein 1	IPI002315	57 kDa	Re	-0.3	0.8122
	55		f		52
Annexin A1	IPI002316	39 kDa	Re	-0.3	0.8122
	15		f		52
Nucleolin, isoform CRA_c	IPI002318	77 kDa	Re	-0.3	0.8122
	27		f		52
Guanine nucleotide-binding protein G(i) subunit alpha-2	IPI002319	41 kDa	Re	-0.3	0.8122
	25		f		52
ADP/ATP translocase 1	IPI002319	33 kDa	Re	-0.3	0.8122
	27		f		52
Annexin A4, isoform CRA_a	IPI002319	36 kDa	Re	-0.3	0.8122
	68		f		52
Nucleoside diphosphate kinase B	IPI003251	17 kDa	Re	-0.3	0.8122
	89		f		52
Uncharacterized protein	IPI003594	92 kDa	Re	-0.3	0.8122
	91		f		52
Isoform 1 of Endoplasmin	IPI003659	93 kDa	Re	-0.3	0.8122
	85		f		52
LMO7b	IPI004213	157	Re	-0.3	0.8122
	45	kDa	f		52
Myosin regulatory light chain 12B	IPI004216	20 kDa	Re	-0.3	0.8122
	25		f		52
Tubulin polymerization-promoting protein family member 3	IPI001878	19 kDa	Re	-0.2	0.8705
	57		f		51
Uncharacterized protein	IPI001900	90 kDa	Re	-0.2	0.8705
	88		f		51
Calreticulin	IPI001917	48 kDa	Re	-0.2	0.8705
	28		f		51
Isoform B23.1 of Nucleophosmin	IPI001975	33 kDa	Re	-0.2	0.8705
	53		f		51

Fatty acid synthase	IPI002006	273	Re	-0.2	0.8705
	61	kDa	f		51
Isoform 1 of Heterogeneous nuclear ribonucleoprotein D0	IPI002010	38 kDa	Re	-0.2	0.8705
	32		f		51
Plasmalemma vesicle-associated protein	IPI002045	50 kDa	Re	-0.2	0.8705
	04		f		51
UDP-glucose:glycoprotein glucosyltransferase 1	IPI002055	176	Re	-0.2	0.8705
	19	kDa	f		51
Endoplasmic reticulum resident protein 29	IPI002071	29 kDa	Re	-0.2	0.8705
	84		f		51
Carbonic anhydrase 2	IPI002307	29 kDa	Re	-0.2	0.8705
	87		f		51
Xanthine dehydrogenase/oxidase	IPI002316	146	Re	-0.2	0.8705
	94	kDa	f		51
14-3-3 protein zeta/delta	IPI003248	28 kDa	Re	-0.2	0.8705
	93		f		51
Isoform Short of Annexin A2	IPI003251	39 kDa	Re	-0.2	0.8705
	46		f		51
T-complex protein 1 subunit delta	IPI003371	58 kDa	Re	-0.2	0.8705
	68		f		51
RCG61183, isoform CRA_b	IPI003621	78 kDa	Re	-0.2	0.8705
	06		f		51
laminin, gamma 1	IPI003638	177	Re	-0.2	0.8705
	49	kDa	f		51
Myosin light polypeptide 6	IPI003659	17 kDa	Re	-0.2	0.8705
	44		f		51
Uncharacterized protein	IPI003674	229	Re	-0.2	0.8705
	79	kDa	f		51
Uncharacterized protein	IPI003708	60 kDa	Re	-0.2	0.8705
	15		f		51
RT1 class I histocompatibility antigen, AA alpha chain	IPI003820	42 kDa	Re	-0.2	0.8705
	98		f		51
ATP synthase subunit alpha, mitochondrial	IPI003969	60 kDa	Re	-0.2	0.8705
	10		f		51
Desmin	IPI004215	53 kDa	Re	-0.2	0.8705
	17		f		51
Complement C3 (Fragment)	IPI004806	186	Re	-0.2	0.8705
	39	kDa	f		51
60S acidic ribosomal protein P2	IPI001888	12 kDa	Re	-0.1	0.9330
	04		f		33
Actin, cytoplasmic 1	IPI001898	42 kDa	Re	-0.1	0.9330
	19		f		33
Serum albumin	IPI001917	69 kDa	Re	-0.1	0.9330
	37		f		33

Hnrpk protein	IPI001949 74	51 kDa	Re f	-0.1	0.9330 33
Hemopexin	IPI001955 16	51 kDa	Re f	-0.1	0.9330 33
Heat shock 70 kDa protein 1A/1B	IPI001967 51	70 kDa	Re f	-0.1	0.9330 33
Isoform 1 of Tropomyosin alpha-1 chain	IPI001978 88	33 kDa	Re f	-0.1	0.9330 33
Polymerase I and transcript release factor	IPI002013 00	44 kDa	Re f	-0.1	0.9330 33
Heat shock protein beta-1	IPI002015 86	23 kDa	Re f	-0.1	0.9330 33
Vesicle amine transport protein 1 homolog (T californica), isoform CRA_a	IPI002019 69	43 kDa	Re f	-0.1	0.9330 33
Transglutaminase 2, C polypeptide	IPI002051 35	77 kDa	Re f	-0.1	0.9330 33
Keratin, type I cytoskeletal 19	IPI002070 14	45 kDa	Re f	-0.1	0.9330 33
Septin-2	IPI002083 04	42 kDa	Re f	-0.1	0.9330 33
Uncharacterized protein	IPI002118 13	233 kDa	Re f	-0.1	0.9330 33
Laminin subunit beta-2	IPI002128 68	196 kDa	Re f	-0.1	0.9330 33
Dynactin subunit 2	IPI002130 15	44 kDa	Re f	-0.1	0.9330 33
ATP-citrate synthase isoform 1	IPI002146 65	121 kDa	Re f	-0.1	0.9330 33
Glutathione S-transferase P	IPI002312 29	23 kDa	Re f	-0.1	0.9330 33
C9 protein	IPI002314 23	64 kDa	Re f	-0.1	0.9330 33
Protein disulfide-isomerase A3	IPI003247 41	57 kDa	Re f	-0.1	0.9330 33
Alpha-1-macroglobulin	IPI003261 40	167 kDa	Re f	-0.1	0.9330 33
LOC367586 protein	IPI003613 46	51 kDa	Re f	-0.1	0.9330 33
Actin-related protein 2	IPI003620 72	45 kDa	Re f	-0.1	0.9330 33
Stress-70 protein, mitochondrial	IPI003632 65	74 kDa	Re f	-0.1	0.9330 33
Isoform 1 of Gelsolin	IPI003639 74	86 kDa	Re f	-0.1	0.9330 33

Vinculin	IPI003652	117	Re	-0.1	0.9330
	86	kDa	f		33
ras GTPase-activating-like protein	IPI003657	189	Re	-0.1	0.9330
IQGAP1	69	kDa	f		33
protein disulfide-isomerase A6	IPI003659	49 kDa	Re	-0.1	0.9330
	29		f		33
collagen, type VI, alpha 1	IPI003718	110	Re	-0.1	0.9330
	53	kDa	f		33
destrin-like	IPI003731	19 kDa	Re	-0.1	0.9330
	40		f		33
Peptidyl-prolyl cis-trans isomerase A	IPI003877	18 kDa	Re	-0.1	0.9330
	71		f		33
Transgelin-2	IPI005551	22 kDa	Re	-0.1	0.9330
	71		f		33
Non-erythroid spectrin beta	IPI005552	274	Re	-0.1	0.9330
	87	kDa	f		33
Uncharacterized protein	IPI005656	288	Re	-0.1	0.9330
	77	kDa	f		33
Serine (Or cysteine) peptidase inhibitor, clade B, member 6a, isoform CRA_a	IPI007820	43 kDa	Re	-0.1	0.9330
	70		f		33
Purine nucleoside phosphorylase	IPI008706	32 kDa	Re	-0.1	0.9330
	31		f		33
Uteroglobin	IPI001891	10 kDa	Re	0.1	1.0717
	50		f		73
Chloride intracellular channel protein 5	IPI001895	28 kDa	Re	0.1	1.0717
	03		f		73
myosin-6	IPI001898	224	Re	0.1	1.0717
	09	kDa	f		73
Ubiquitin-40S ribosomal protein S27a	IPI001902	18 kDa	Re	0.1	1.0717
	40		f		73
Glutathione peroxidase 1	IPI001923	22 kDa	Re	0.1	1.0717
	01		f		73
Elongation factor 1-alpha 1	IPI001953	50 kDa	Re	0.1	1.0717
	72		f		73
X-prolyl aminopeptidase (Aminopeptidase P) 2, membrane-bound	IPI001976	76 kDa	Re	0.1	1.0717
	84		f		73
L-lactate dehydrogenase A chain	IPI001977	36 kDa	Re	0.1	1.0717
	11		f		73
Peroxiredoxin-2	IPI002015	22 kDa	Re	0.1	1.0717
	61		f		73
Serpin H1	IPI002047	47 kDa	Re	0.1	1.0717
	03		f		73
Isoform 1 of Fibrinogen beta chain	IPI002053	54 kDa	Re	0.1	1.0717
	89		f		73

Citrate synthase, mitochondrial	IPI002069 77	52 kDa	Re f	0.1	1.0717 73
Selenium-binding protein 1	IPI002080 26	53 kDa	Re f	0.1	1.0717 73
Alpha-actinin-1	IPI002090 82	103 kDa	Re f	0.1	1.0717 73
Myosin-9	IPI002091 13	226 kDa	Re f	0.1	1.0717 73
Uncharacterized protein	IPI002092 58	285 kDa	Re f	0.1	1.0717 73
Proteasome activator complex subunit 2	IPI002119 70	27 kDa	Re f	0.1	1.0717 73
Cathepsin D	IPI002127 31	45 kDa	Re f	0.1	1.0717 73
Isoform B0b of Heterogeneous nuclear ribonucleoproteins A2/B1	IPI002129 69	34 kDa	Re f	0.1	1.0717 73
Complement C4	IPI002130 36	192 kDa	Re f	0.1	1.0717 73
Alpha-actinin-4	IPI002134 63	105 kDa	Re f	0.1	1.0717 73
Myosin light chain 4	IPI002144 57	21 kDa	Re f	0.1	1.0717 73
Transgelin	IPI002311 96	23 kDa	Re f	0.1	1.0717 73
Protein S100-A9	IPI002312 62	13 kDa	Re f	0.1	1.0717 73
ADP-ribosylation factor 3	IPI002316 74	21 kDa	Re f	0.1	1.0717 73
Retinol-binding protein 1	IPI002318 25	16 kDa	Re f	0.1	1.0717 73
Rab GDP dissociation inhibitor alpha	IPI003249 86	51 kDa	Re f	0.1	1.0717 73
Isoform M2 of Pyruvate kinase isozymes M1/M2	IPI003391 97	58 kDa	Re f	0.1	1.0717 73
Serum deprivation-response protein	IPI003624 16	46 kDa	Re f	0.1	1.0717 73
tensin 1	IPI003627 55	204 kDa	Re f	0.1	1.0717 73
Uncharacterized protein	IPI003629 31	34 kDa	Re f	0.1	1.0717 73
Keratin, type II cytoskeletal 8	IPI003895 71	54 kDa	Re f	0.1	1.0717 73
Tubulin beta-2C chain	IPI004005 73	50 kDa	Re f	0.1	1.0717 73

Keratin, type II cytoskeletal 7	IPI004217 88	51 kDa	Re f	0.1	1.0717 73
Creatine kinase B-type	IPI004702 88	43 kDa	Re f	0.1	1.0717 73
Heat shock protein HSP 90-beta	IPI004715 84	83 kDa	Re f	0.1	1.0717 73
myosin, heavy chain 11, smooth muscle isoform 3	IPI007641 67	228 kDa	Re f	0.1	1.0717 73
Dihydropyrimidinase-related protein 2	IPI008701 12	62 kDa	Re f	0.1	1.0717 73
Uncharacterized protein	IPI009483 84	146 kDa	Re f	0.1	1.0717 73
Adenine phosphoribosyltransferase	IPI009509 65	20 kDa	Re f	0.1	1.0717 73
Filamin, alpha (Predicted), isoform CRA_a	IPI009517 91	280 kDa	Re f	0.1	1.0717 73
Isoform 2 of Tropomyosin beta chain	IPI001877 31	33 kDa	Re f	0.2	1.1486 98
Basal cell adhesion molecule	IPI001923 10	68 kDa	Re f	0.2	1.1486 98
Vitamin D-binding protein	IPI001940 97	54 kDa	Re f	0.2	1.1486 98
Aldehyde dehydrogenase, mitochondrial	IPI001977 70	56 kDa	Re f	0.2	1.1486 98
Pincher	IPI002002 71	61 kDa	Re f	0.2	1.1486 98
Zero beta-1 globin	IPI002071 46	16 kDa	Re f	0.2	1.1486 98
Plastin-3	IPI002102 34	71 kDa	Re f	0.2	1.1486 98
EH domain-containing protein 2	IPI002114 48	61 kDa	Re f	0.2	1.1486 98
Protein DJ-1	IPI002125 23	20 kDa	Re f	0.2	1.1486 98
Isoform 1 of Murinoglobulin-1	IPI002126 66	165 kDa	Re f	0.2	1.1486 98
Enoyl-CoA delta isomerase 1, mitochondrial	IPI002155 74	32 kDa	Re f	0.2	1.1486 98
Phosphatidylethanolamine-binding protein 1	IPI002309 37	21 kDa	Re f	0.2	1.1486 98
Peroxiredoxin-6	IPI002312 60	25 kDa	Re f	0.2	1.1486 98
Profilin-1	IPI002313 58	15 kDa	Re f	0.2	1.1486 98



Isoform 1 of Cell division control protein 42 homolog	IPI00285606	21 kDa	Ref	0.2	1.148698
Fibulin-5	IPI00326179	50 kDa	Ref	0.2	1.148698
Inter-alpha-trypsin inhibitor heavy chain H3	IPI00326984	99 kDa	Ref	0.2	1.148698
Ac2-048	IPI00382300	34 kDa	Ref	0.2	1.148698
Alpha-enolase	IPI00464815	47 kDa	Ref	0.2	1.148698
Uncharacterized protein	IPI00204261	97 kDa	Ref	0.3	1.231144
78 kDa glucose-regulated protein	IPI00206624	72 kDa	Ref	0.3	1.231144
Aspartate aminotransferase, mitochondrial	IPI00210920	47 kDa	Ref	0.3	1.231144
Peroxiredoxin-1	IPI00211779	22 kDa	Ref	0.3	1.231144
Ras-related protein Rab-7a	IPI00215564	24 kDa	Ref	0.3	1.231144
Fructose-bisphosphate aldolase A	IPI00231734	39 kDa	Ref	0.3	1.231144
Catalase	IPI00231742	60 kDa	Ref	0.3	1.231144
Hemoglobin subunit alpha-1/2	IPI00287835	15 kDa	Ref	0.3	1.231144
Pulmonary surfactant-associated protein A	IPI00327502	26 kDa	Ref	0.3	1.231144
Dipeptidase 1	IPI00327697	46 kDa	Ref	0.3	1.231144
RCG39189, isoform CRA_a	IPI00364621	54 kDa	Ref	0.3	1.231144
Calpain-2 catalytic subunit	IPI00388249	80 kDa	Ref	0.3	1.231144
Biliverdin reductase B (Flavin reductase (NADPH)) (Predicted), isoform CRA_b	IPI00392676	22 kDa	Ref	0.3	1.231144
Uncharacterized protein	IPI00781155	37 kDa	Ref	0.3	1.231144
Uncharacterized protein	IPI00199867	95 kDa	Ref	0.4	1.319508
Cytochrome P450 4B1	IPI00206129	59 kDa	Ref	0.4	1.319508
Uncharacterized protein	IPI00231136	137 kDa	Ref	0.4	1.319508

Glutathione S-transferase Mu 1	IPI002316 39	26 kDa	Re f	0.4	1.3195 08
Histone H1.2	IPI002316 50	22 kDa	Re f	0.4	1.3195 08
Isoform 1 of Tropomyosin alpha-3 chain	IPI003722 59	29 kDa	Re f	0.4	1.3195 08
Uncharacterized protein	IPI001900 20	115 kDa	Re f	0.5	1.4142 14
Protein disulfide-isomerase	IPI001988 87	57 kDa	Re f	0.5	1.4142 14
Trifunctional enzyme subunit alpha, mitochondrial	IPI002126 22	83 kDa	Re f	0.5	1.4142 14
Proteasome subunit beta type-3	IPI002148 89	23 kDa	Re f	0.5	1.4142 14
Myosin-Ic	IPI003938 67	120 kDa	Re f	0.5	1.4142 14
LOC500183 protein	IPI005683 89	26 kDa	Re f	0.5	1.4142 14
Uncharacterized protein	IPI008864 70	28 kDa	Re f	0.5	1.4142 14
cytochrome P450 2B2	IPI001932 34	57 kDa	Re f	0.6	1.5157 2
Uncharacterized protein	IPI002102 24	309 kDa	Re f	0.6	1.5157 2
Prohibitin	IPI002117 56	30 kDa	Re f	0.6	1.5157 2
Carbonic anhydrase 1	IPI003609 30	28 kDa	Re f	0.6	1.5157 2
Uncharacterized protein	IPI005595 83	29 kDa	Re f	0.6	1.5157 2
Phosphoglycerate kinase 1	IPI002314 26	45 kDa	Re f	0.7	1.6245
Uncharacterized protein	IPI003707 05	81 kDa	Re f	0.7	1.6245
Protein phosphatase 2 (Formerly 2A), regulatory subunit A, alpha isoform	IPI003654 23	65 kDa	Re f	1	2

S5 Table the 42 overlapping proteins between COPD and BJJ-treated group proteomics measurements

Identified Proteins (295)	Accession Number	log2(B/A)	B/A	log2(B/D)	B/D
Carbonic anhydrase 1	IPI00189	-0.3	0.8122	-0.3	0.8122
	058		52		52
Zero beta-1 globin	IPI00191	-0.1	0.9330	-0.1	0.9330
	737		33		33
Malate dehydrogenase, mitochondrial	IPI00192	0.1	1.0717	0.1	1.0717
	301		73		73
Vesicle amine transport protein 1 homolog (T californica), isoform CRA_a	IPI00192	0.1	1.0717	0.2	1.1486
	310		73		98
Heat shock 70 kDa protein 1A/1B	IPI00194	0.3	1.2311	0.2	1.1486
	097		44		98
ADP/ATP translocase 1	IPI00196	-0.1	0.9330	-0.1	0.9330
	751		33		33
Isoform 1 of Cell division control protein 42 homolog	IPI00197	-0.2	0.8705	-0.1	0.9330
	888		51		33
Aldehyde dehydrogenase, mitochondrial	IPI00201	0.1	1.0717	0.1	1.0717
	561		73		73
Trifunctional enzyme subunit alpha, mitochondrial	IPI00201	-0.1	0.9330	-0.1	0.9330
	969		33		33
chloride intracellular channel 3	IPI00204	-0.2	0.8705	-0.2	0.8705
	504		51		51
Uncharacterized protein	IPI00205	0.3	1.2311	-0.1	0.9330
	135		44		33
Alpha-actinin-1	IPI00206	0.3	1.2311	0.3	1.2311
	624		44		44
Acetyl-CoA acetyltransferase, mitochondrial	IPI00210	0.1	1.0717	0.3	1.2311
	920		73		44
destrin-like	IPI00212	-0.1	0.9330	-0.4	0.7578
	014		33		58
Desmin	IPI00215	0.1	1.0717	0.3	1.2311
	564		73		44
inter-alpha-inhibitor H4 heavy chain	IPI00230	-0.3	0.8122	-0.2	0.8705
	787		52		51
Fatty acid synthase	IPI00231	0.5	1.4142	0.1	1.0717
	262		14		73
Uncharacterized protein	IPI00231	-0.1	0.9330	-0.1	0.9330
	423		33		33
14-3-3 protein epsilon	IPI00231	0.1	1.0717	0.3	1.2311
	742		73		44

Peroxiredoxin-1	IPI00231 825	0.2	1.1486 98	0.1	1.0717 73
Calpain-2 catalytic subunit	IPI00231 925	-0.5	0.7071 07	-0.3	0.8122 52
Uncharacterized protein	IPI00231 927	-0.2	0.8705 51	-0.3	0.8122 52
Glutathione S-transferase Mu 2	IPI00324 986	0.1	1.0717 73	0.1	1.0717 73
Protein DJ-1	IPI00326 140	-0.5	0.7071 07	-0.1	0.9330 33
Polymerase I and transcript release factor	IPI00326 179	0.3	1.2311 44	0.2	1.1486 98
protein disulfide-isomerase A6	IPI00327 697	0.2	1.1486 98	0.3	1.2311 44
Carbonic anhydrase 2	IPI00362 072	-0.2	0.8705 51	-0.1	0.9330 33
Aconitate hydratase, mitochondrial	IPI00365 423	0.2	1.1486 98	1	2
Tropomodulin 3	IPI00365 929	-0.1	0.9330 33	-0.1	0.9330 33
Triosephosphate isomerase	IPI00372 259	0.3	1.2311 44	0.4	1.3195 08
Isoform 1 of Tropomyosin alpha-1 chain	IPI00387 771	-0.1	0.9330 33	-0.1	0.9330 33
Alpha-1-antiproteinase	IPI00389 571	0.1	1.0717 73	0.1	1.0717 73
Bifunctional purine biosynthesis protein PURH	IPI00392 676	0.2	1.1486 98	0.3	1.2311 44
Isoform 2 of Tropomyosin beta chain	IPI00400 573	0.1	1.0717 73	0.1	1.0717 73
Pulmonary surfactant-associated protein A	IPI00421 517	-0.1	0.9330 33	-0.2	0.8705 51
Citrate synthase, mitochondrial	IPI00421 788	0.2	1.1486 98	0.1	1.0717 73
Fructose-bisphosphate aldolase A	IPI00470 288	0.3	1.2311 44	0.1	1.0717 73
Sideroflexin-3	IPI00480 679	-0.7	0.615 57	-0.6	0.659 75
Plectin 6	IPI00559 583	0.6	1.515 72	0.6	1.515 72
Uncharacterized protein	IPI00886 470	0.2	1.1486 98	0.5	1.4142 14
Annexin A5	IPI00948 384	0.4	1.3195 08	0.1	1.0717 73

Transitional endoplasmic reticulum ATPase	IPI00950 965	0.1	1.0717 73	0.1	1.0717 73
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S6 Table. Chemical information of 175 candidate targets derived from system pharmacology

<b>Target name</b>	<b>Gene name</b>
Nitric oxide synthase, inducible	MAPK8
Prostaglandin G/H synthase 1	POR
Dopamine D1 receptor	CYCS
Insulin receptor	GABRA6
Muscarinic acetylcholine receptor M3	MMP1
Thrombin	ACPP
Potassium voltage-gated channel subfamily H member 2	OPRM1
Muscarinic acetylcholine receptor M1	IL2
Estrogen receptor	PLA2G4A
Androgen receptor	APP
D(1B) dopamine receptor	CTRB1
Beta-1 adrenergic receptor	ATP5B
Sodium channel protein type 5 subunit alpha	
Peroxisome proliferator activated receptor gamma	CHRM3
Coagulation factor Xa	katA
Apoptosis regulator Bcl-2	AR
Muscarinic acetylcholine receptor M5	LDLR
Arachidonate 5-lipoxygenase	BCL2
4-aminobutyrate aminotransferase, mitochondrial	mvaA
Prostaglandin G/H synthase 2	CHRNA7
Nitric-oxide synthase, endothelial	
Alpha-2A adrenergic receptor	ADRA1D
5-hydroxytryptamine 1A receptor	ABAT
5-hydroxytryptamine receptor 3A	HTR2C
Carbonic anhydrase II	penP
Coagulation factor VII	katA
Alpha-2C adrenergic receptor	ADRA2B
Vascular endothelial growth factor receptor 2	SLC6A3
Gamma-aminobutyric-acid receptor alpha-2 subunit	TOP1
Ornithine decarboxylase	CHRM1
Muscarinic acetylcholine receptor M4	LTA4H
Retinoic acid receptor RXR-alpha	NOS2
Delta-type opioid receptor	F10
Acetylcholinesterase	DHCR7
CGMP-inhibited 3',5'-cyclic phosphodiesterase A	CAT
Histamine H1 receptor	GOT1
5-hydroxytryptamine 2A receptor	HTR1B
Gamma-aminobutyric-acid receptor alpha-5 subunit	HTR1A
Sodium-dependent noradrenaline transporter	EGF

Low-density lipoprotein receptor	GSTP1
Alpha-1A adrenergic receptor	AKR1B1
Gamma-aminobutyric-acid receptor alpha-3 subunit	topA
Aspartate aminotransferase, cytoplasmic	AHR
5-hydroxytryptamine 2C receptor	HTR2A
Progesterone receptor	NQO1
Muscarinic acetylcholine receptor M2	IL6
Alpha-2B adrenergic receptor	ADRA2A
Alpha-1B adrenergic receptor	ADRA1A
Aldo-keto reductase family 1 member C3	AKR1C1
mRNA of Protein-tyrosine phosphatase, non-receptor type 1	IFNG
Acetyl-CoA carboxylase 1	ACHE
72 kDa type IV collagenase	CA2
Sodium-dependent dopamine transporter	KCNH2
Glutathione reductase, mitochondrial	ESR1
Cytosolic phospholipase A2	PDE3A
Mineralocorticoid receptor	HMOX1
Beta-2 adrenergic receptor	ADRB1
Tumor necrosis factor	MTOR
Alpha-1D adrenergic receptor	ADRA1B
Neuronal acetylcholine receptor subunit alpha-2	MAPK1
DNA topoisomerase II	CCNA2
Aldose reductase	AKR1C3
Sodium-dependent serotonin transporter	PGR
D(2) dopamine receptor	F7
Epidermal growth factor receptor	CYP3A4
Mu-type opioid receptor	E
Multidrug resistance-associated protein 1	IL1B
Estrogen receptor beta	DRD5
Glucocorticoid receptor	EGFR
Gamma-aminobutyric acid receptor subunit alpha-1	gyrB
5-hydroxytryptamine 1B receptor	HTR1A
Maltase-glucoamylase, intestinal	GSK3B
Dipeptidyl peptidase IV	COL1A1
Urokinase-type plasminogen activator	PPP3CA
Hepatocyte growth factor receptor	ODC1
Glycogen phosphorylase, muscle form	fhuA
Interleukin-6	GSR
Interstitial collagenase	GSTM1
Mitogen-activated protein kinase 1	pbsA1
Serum paraoxonase/arylesterase 1	PPARG
Cathepsin D	cphA
Interferon gamma	GJA1
Fatty acid synthase	OPRD1

Collagenase 3	CCL2
Beta-secretase	blaZ
Peroxisome proliferator activated receptor delta	CHRM2
Mitogen-activated protein kinase 14	MET
Transcription factor AP-1	RXRB
C-C motif chemokine 2	KCNMA1
Interleukin-1 beta	NR3C1
Mitogen-activated protein kinase 3	HRH1
Glycogen synthase kinase-3 beta	GABRA1
E-selectin	camC
Myeloperoxidase	R
Cell division control protein 2 homolog	CALM1
Tissue-type plasminogen activator	RXRA
Gap junction alpha-1 protein	EGLN1
Vascular cell adhesion protein 1	PON1
Stromelysin-1	PTGS1
Heat shock protein HSP 90	GABRE
Thrombomodulin	PIM1
Tissue factor	RB1
Neutrophil collagenase	MAPK14
NAD(P)H dehydrogenase [quinone] 1	17
Cell division protein kinase 2	PKIA
Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit, gamma isoform	CHRM4
Beta-lactamase	ADRB2
Leukotriene A-4 hydrolase	GSTM2
Amine oxidase [flavin-containing] B	MAOA
Amine oxidase [flavin-containing] A	ADRA2C
Xanthine dehydrogenase/oxidase	SLC6A2
Cell division protein kinase 4	F7
Neuronal acetylcholine receptor protein, alpha-7 chain	NR3C2
Prostaglandin E2 receptor EP3 subtype	MT-ND6
Serine/threonine-protein kinase mTOR	NCOA2
Superoxide dismutase [Cu-Zn]	PTGS2
Cytochrome P450 3A4	CDK4
Cellular tumor antigen p53	CASP7
Serine/threonine-protein kinase Chk1	NCOA1
Amyloid beta A4 protein	MAOB
mRNA of PKA Catalytic Subunit C-alpha	INSR
Mitogen-activated protein kinase 8	IGHG1
Cytochrome P450 1A2	CDK2
Alcohol dehydrogenase 1B	ACACA
Alcohol dehydrogenase 1C	ADH1B
Collagen alpha-1(I) chain	katB



Glutathione S-transferase P	FASN
Pro-epidermal growth factor	MPO
Catalase	SHV-7
Vascular endothelial growth factor A	SCN5A
NADPH--cytochrome P450 reductase	MAP2
Estrogen sulfotransferase	DRD2
Retinoic acid receptor RXR-beta	NOS3
Placenta growth factor	CHRM5
Cytochrome P450-cam	TP53
Lysozyme	PYGM
Ig gamma-1 chain C region	SLC6A2
NADH-ubiquinone oxidoreductase chain 6	MGAM
DNA topoisomerase 1	MMP13
Ferrichrome-iron receptor	DPP4
DNA gyrase subunit B	COL3A1
3-hydroxy-3-methylglutaryl-coenzyme A reductase	HMGCR
Chymotrypsinogen B	katA
Heme oxygenase 1	GABRG3
Nicotinate-nucleotide--dimethylbenzimidazole phosphoribosyltransferase	MAPK3
Collagen alpha-1(III) chain	CTSD
Retinoblastoma-associated protein	cobT
ATP synthase subunit beta, mitochondrial	GOT1
Trypsin-1	CHEK1
Glutathione S-transferase Mu 1	ESR2
78 kDa glucose-regulated protein	MMP2
Proto-oncogene serine/threonine-protein kinase Pim-1	MMP8
Prostatic acid phosphatase	CHRNA2
Cyclin-A2	CDK1
Sterol O-acyltransferase 1	PTGER3
Aryl hydrocarbon receptor	ALOX5
Glutamate receptor 2	SELE
Aldo-keto reductase family 1 member C1	ADH1C
Nuclear receptor coactivator 2	ABCC1
Nuclear receptor coactivator 1	ACACA
Gamma-aminobutyric-acid receptor subunit alpha-6	DRD1
Gamma-aminobutyric acid receptor subunit gamma-3	gyrB
Egl nine homolog 1	CYP1A2
7-dehydrocholesterol reductase	HSPA5
Caspase-7	blaB
cAMP-dependent protein kinase inhibitor alpha	ampC
Cytochrome c	CRK2
Glutathione S-transferase Mu 2	SULT1E1
Calcium-activated potassium channel subunit alpha 1	ampC
Calmodulin	ampC

Gamma-aminobutyric acid receptor subunit epsilon	gyrB
Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform	ODC1
Interleukin-2	GRIA2
Microtubule-associated protein 2	HSP90

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