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Reproduction, Fertility and Development

Supplementary Material

Transcriptome analyses of potential regulators of pre- and post-ovulatory follicles in the pigeon (*Columba livia*)

Lizhi Lu^A, Long Zhang^B, Tao Zeng^A, Xue Du^A, Zhengrong Tao^A, Guoqin Li^A, Shengliang Zhong^C, Jihui Wen^D, Caiquan Zhou^B and Xiaoqin Xu^{B,}*

^AInstitute of Animal Husbandry and Veterinary Science, Zhejiang Academy of Agricultural Science, 310021 Hangzhou, Zhejiang, China.

^BInstitute of Ecology, Key Laboratory of Southwest China Wildlife Resources Conservation (Ministry of Education), China West Normal University, 637009 Nanchong, Sichuan, China.

^CPingYang XingLiang Pigeon Farming Co. Ltd., 325000 Wenzhou, Zhejiang, China.

^DPingYang AoFeng Pigeon Farming Co. Ltd., 325000 Wenzhou, Zhejiang, China.

*Correspondence to: Xiaoqin Xu Institute of Ecology, Key Laboratory of Southwest China Wildlife Resources Conservation (Ministry of Education), China West Normal University, 637009 Nanchong, Sichuan, China Email: xuxiaoqin21@126.com

Table S1 All DEGs with altered expression in the two groups

Gene id	readcount P4	readcount P5	description
A306_00047	36.685	249.854	Interferon-induced very large GTPase 1
A306_00082	398.821	113.183	Collagen triple helix repeat-containing protein 1
A306_00134	202.132	3946.541	GTP-binding protein GEM
A306_00151	78.119	192.676	Y+L amino acid transporter 2
A306_00159	1503.317	736.808	Carbonic anhydrase 2
A306_00201	433.900	128.802	Tsukushin
A306_00215	12068.720	2084.362	Serpin H1
A306_00231	1157.575	140.028	Prolyl 4-hydroxylase subunit alpha-3
A306_00237	227.916	89.241	Solute carrier family 2%2C facilitated glucose transporter member 10
A306_00243	610.318	1216.737	Phosphatidylinositol 3%2C4%2C5-trisphosphate-dependent Rac exchanger 1 protein
A306_00286	106.113	25.762	Protein FAM83D
A306_00289	1532.817	8588.577	Transcription factor MafB
A306_00294	96.616	0.359	elastin microfibril interfacier 3
A306_00319	526.955	1060.788	WD repeat-containing protein 26
A306_00347	296.583	774.006	Protein C-ets-2
A306_00360	378.044	801.064	Protein dopey-2

A306_00375	122.652	266.932	Protein downstream neighbor of son like protein
A306_00408	152.863	586.080	A disintegrin and metalloproteinase with thrombospondin motifs 5
A306_00435	46.918	119.695	T-lymphocyte activation antigen CD80
A306_00455	1224.536	635.919	Roundabout like protein 1
A306_00461	226.999	529.337	SAM domain-containing protein SAMSN-1
A306_00510	2515.327	944.511	Coiled-coil domain-containing protein 80
A306_00513	777.278	3804.034	Coagulation factor V
A306_00529	56.705	159.812	Glycogen phosphorylase%2C liver form
A306_00542	1294.043	370.982	Thrombospondin-3
A306_00546	934.614	1642.667	Glucosylceramidase
A306_00572	2621.851	986.295	C2 domain-containing protein 2
A306_00576	56.956	313.066	Inactive serine protease 35
A306_00578	237.162	99.338	RWD domain-containing protein 2A
A306_00599	932.867	423.202	Myosin-VI
A306_00602	1987.297	853.797	Filamin-A-interacting protein 1
A306_00616	158.645	319.820	Opioid growth factor receptor-like protein 1
A306_00647	63.223	8.669	Bone morphogenetic protein 5
A306_00648	78.981	12.354	putative 3-hydroxymethyl-3-methylglutaryl-CoA lyase 2
A306_00670	2475.131	1069.475	Angiopoietin-2
A306_00698	501.666	126.163	Collectin-11

A306_00701	2210.010	1198.276	DNA-binding protein inhibitor ID-2
A306_00722	118.928	15.019	PQ-loop repeat-containing protein 3
A306_00743	237.540	102.368	Tetratricopeptide repeat protein 32
A306_00773	1313.653	506.814	Glycosyltransferase 8 domain-containing protein 4
A306_00795	205.771	35.108	Testican-3
A306_00835	482.889	1039.654	V-type proton ATPase 116 kDa subunit a isoform 3
A306_00901	277.196	65.488	Centromere protein F
A306_00913	62.151	261.159	Cyclic AMP-dependent transcription factor ATF-3
A306_00914	285.513	116.389	Neudesin
A306_00956	632.285	1271.273	WW domain-binding protein 2
A306_00980	1069.490	520.171	FH1/FH2 domain-containing protein 3
A306_00995	37.836	109.946	Glutaminy-peptide cyclotransferase
A306_01002	596.241	1121.160	Cysteine-rich motor neuron 1 protein
A306_01014	828.869	306.931	Cdc42 effector protein 3
A306_01048	58.194	11.165	MAM domain-containing glycosylphosphatidylinositol anchor protein 1
A306_01055	94.971	30.740	Potassium channel subfamily K member 5
A306_01080	181.529	528.897	Microphthalmia-associated transcription factor
A306_01085	261.129	36.612	Sushi domain-containing protein 5
A306_01115	84.479	194.907	Arf-GAP with dual PH domain-containing protein 2
A306_01184	1655.567	221.206	Chondroadherin

A306_01221	836.250	1761.035	SEC14-like protein 1
A306_01222	182.608	30.346	Alpha-1%2C6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase B
A306_01230	996.422	3352.298	Cytoglobin
A306_01231	236.273	549.459	Rhomboid family member 2
A306_01276	92.042	26.912	AMSH-like protease
A306_01277	62386.985	1451.189	Actin%2C aortic smooth muscle
A306_01285	363.120	168.058	Kinesin-like protein KIF20B
A306_01291	217.537	36.115	Protein phosphatase 1 regulatory subunit 3C
A306_01334	957.362	277.882	Centrin-3
A306_01338	520.286	1206.428	Arrestin domain-containing protein 3
A306_01352	838.697	177.931	RNA polymerase II elongation factor ELL2
A306_01404	2418.524	1081.880	Zinc finger protein SNAI2
A306_01433	441.120	179.733	Zinc finger protein basonuclin-2
A306_01452	308.340	781.746	Integrin beta-2
A306_01463	72.089	1.679	Collagen alpha-1(VII) chain
A306_01464	227.072	25.610	Tubulin alpha-1C chain
A306_01517	184.639	64.751	ADP-ribosylation factor 5
A306_01563	360.076	1220.178	cAMP-responsive element modulator
A306_01568	412.700	815.792	Rho GTPase-activating protein 12
A306_01583	705.914	116.486	Homeobox protein Mohawk

A306_01602	42.511	193.956	Putative myosin light chain kinase 3
A306_01654	3361.592	35426.465	Haptoglobin
A306_01711	263.837	118.716	Zinc finger protein 469
A306_01736	846.024	443.152	WAP four-disulfide core domain protein 1
A306_01737	306.199	37.818	Potassium voltage-gated channel subfamily G member 4
A306_01738	184.075	24.553	Potassium voltage-gated channel subfamily G member 4
A306_01744	183.795	591.595	Arylamine N-acetyltransferase%2C pineal gland isozyme NAT-3
A306_01760	539.459	1250.363	Y+L amino acid transporter 2
A306_01770	140.689	702.241	UPF0183 protein C16orf70 like protein
A306_01772	312.543	116.431	Guanine nucleotide-binding protein G(o) subunit alpha
A306_01776	86.952	592.254	Metallothionein-1
A306_01777	1228.025	5745.075	Metallothionein-2
A306_01793	2612.910	1511.949	MTSS1-like protein
A306_01849	653.460	1232.415	Histone H1.10
A306_01867	3841.958	37843.114	Matrix Gla protein
A306_01876	160.263	514.010	Triggering receptor expressed on myeloid cells 2
A306_01888	3137.083	1488.563	hypothetical protein
A306_01939	538.852	252.367	RAD51-associated protein 1
A306_01953	586.257	1317.492	Mitogen-activated protein kinase 14
A306_01954	798.159	1538.520	Mitogen-activated protein kinase 14

A306_02005	521.181	1028.007	1-phosphatidylinositol-3-phosphate 5-kinase
A306_02019	259.775	924.269	Inactive phospholipase C-like protein 1
A306_02084	1645.429	368.256	Dynein light chain 2%2C cytoplasmic
A306_02149	180.393	457.317	RAB3A-interacting protein
A306_02171	235.569	935.951	Protein yippee-like 1
A306_02185	88.490	9.396	Cortexin-1
A306_02230	1410.237	321.757	Adenosine deaminase
A306_02231	358.432	14.363	WNT1-inducible-signaling pathway protein 2
A306_02232	40.196	2.045	P2Y purinoceptor 1
A306_02233	48.121	10.349	Potassium channel subfamily K member 9
A306_02234	107.643	17.764	Regulating synaptic membrane exocytosis protein 4
A306_02249	967.897	500.808	Collagen alpha-1(XVIII) chain
A306_02254	11861.246	2642.009	Collagen alpha-2(VI) chain
A306_02271	183.606	729.494	UDP-GlcNAc:betaGal beta-1%2C3-N-acetylglucosaminyltransferase 2
A306_02279	1622.048	510.390	Selenoprotein M
A306_02280	1192.097	499.585	Smoothelin
A306_02281	318.517	139.498	Smoothelin
A306_02315	571.158	1473.230	Muskelin
A306_02316	1167.853	537.684	Podocalyxin-like protein 1
A306_02341	1787.560	4410.094	Exocyst complex component 5

A306_02386	122.517	21.695	Sterol-4-alpha-carboxylate 3-dehydrogenase%2C decarboxylating
A306_02389	368.989	102.222	ES1 protein like protein%2C mitochondrial
A306_02404	22.065	100.484	Pancreatic progenitor cell differentiation and proliferation factor-like protein
A306_02416	6038.345	2430.561	Adipocyte enhancer-binding protein 1
A306_02439	39.286	537.444	Polypeptide N-acetylgalactosaminyltransferase-like protein 2
A306_02498	251.907	2126.212	Stromelysin-3
A306_02515	150.463	442.833	Gamma-glutamyltransferase 5
A306_02528	3220.477	1325.753	14-3-3 protein eta
A306_02531	633.037	1147.153	Phosphatidylserine decarboxylase proenzyme
A306_02536	161.676	392.520	Phosphoinositide-3-kinase-interacting protein 1
A306_02548	1826.304	572.517	Dynein light chain 1%2C cytoplasmic
A306_02611	1354.329	2388.042	Dipeptidyl-peptidase 2
A306_02617	48.533	8.721	Heparan sulfate glucosamine 3-O-sulfotransferase 3A1
A306_02625	5.725	36.257	hypothetical protein
A306_02628	191.034	86.880	RNA pseudouridylate synthase domain-containing protein 1
A306_02689	46899.493	23336.844	Actin%2C cytoplasmic 1
A306_02716	3.119	26.860	Extracellular leucine-rich repeat and fibronectin type-III domain-containing protein 1
A306_02739	16.865	121.854	Protein FAM123C
A306_02742	339.843	1394.606	Kelch-like protein 24

A306_02788	1081.884	1958.366	AN1-type zinc finger protein 6
A306_02805	283.135	12.361	Aggrecan core protein
A306_02832	152.592	34.715	Transforming growth factor beta-1-induced transcript 1 protein
A306_02840	1019.699	3637.206	Serine protease HTRA1
A306_02858	2238.657	4744.156	Ornithine aminotransferase%2C mitochondrial
A306_02883	280.404	128.466	Fibronectin type III domain-containing protein 5
A306_02953	5379.687	2760.037	Peptidyl-prolyl cis-trans isomerase B
A306_03056	1142.005	2384.269	Lymphocyte-specific protein 1
A306_03062	1904.201	172.899	hypothetical protein
A306_03063	1602.053	147.365	hypothetical protein
A306_03064	3522.565	429.978	Insulin-like growth factor II
A306_03087	363.494	1136.341	Hermansky-Pudlak syndrome 5 protein
A306_03088	1316.735	41241.848	Serum amyloid A protein
A306_03116	1669.843	862.128	Suppression of tumorigenicity 5
A306_03117	401.596	148.211	Proline-rich protein BCA3
A306_03143	363.573	158.418	Alpha-parvin
A306_03144	246.759	105.449	Alpha-parvin
A306_03158	496.712	1011.042	Homeodomain-interacting protein kinase 3
A306_03169	1111.836	287.666	Reticulocalbin-1
A306_03189	515.339	109.211	Growth arrest-specific protein 2

A306_03201	191.262	514.645	Interleukin-1 receptor type I
A306_03217	182.181	524.645	LON peptidase N-terminal domain and RING finger protein 2
A306_03225	510.976	1644.204	Lysozyme g
A306_03230	177.714	490.002	Phospholipase D4
A306_03233	1191.515	2396.141	AKT kinase-transforming protein
A306_03246	605.135	1781.144	Apoptosis-stimulating of p53 protein 1
A306_03253	1859.595	811.605	Creatine kinase B-type
A306_03288	3042.121	5885.188	Ena/VASP-like protein
A306_03304	40.556	141.251	B2 bradykinin receptor
A306_03317	516.548	144.802	Serine/threonine-protein phosphatase 4 regulatory subunit 4
A306_03337	689.455	77.347	Fibulin-5
A306_03360	666.624	282.022	Leucine-rich repeat transmembrane protein FLRT2
A306_03380	208.144	661.313	Mitogen-activated protein kinase 11
A306_03383	962.921	527.209	Protein canopy like protein 2
A306_03395	146.331	422.697	Protein RUFY3
A306_03408	2520.623	660.855	Septin-11
A306_03451	24.164	1319.766	Solute carrier family 15 member 1
A306_03480	2878.393	1031.453	Epsilon-sarcoglycan
A306_03482	87034.628	8371.326	Collagen alpha-2(I) chain
A306_03510	214.925	22.328	hypothetical protein

A306_03541	212.363	440.475	Ceroid-lipofuscinosis neuronal protein 5
A306_03568	879.192	155.117	Protocadherin-20
A306_03572	109.812	23.168	Protein diaphanous like protein 3
A306_03577	79.837	1.034	Chondromodulin-1
A306_03594	994.275	2085.486	TSC22 domain family protein 1
A306_03615	111.575	316.368	Oleoyl-L-alpha-lysophosphatidic acid receptor
A306_03621	29.216	0.633	Motilin receptor
A306_03644	36.344	160.557	Copper-transporting ATPase 2
A306_03690	461.935	197.419	cGMP-dependent protein kinase 1%2C beta isozyme
A306_03707	54.581	481.807	Disintegrin and metalloproteinase domain-containing protein 8
A306_03730	688.552	211.929	Neuronal protein 3.1
A306_03740	179.421	79.368	Protein fem-1 like protein C
A306_03763	2170.911	985.841	Peptidyl-prolyl cis-trans isomerase C
A306_03764	100.297	23.342	Putative histone-lysine N-methyltransferase PRDM6
A306_03779	120.915	256.507	Myelin basic protein
A306_03794	113.975	29.667	Cerebellin-2
A306_03825	154.092	410.295	Solute carrier family 45 member 3
A306_03826	2.905	27.913	Krueppel-like factor 15
A306_03827	181.975	554.704	ETS domain-containing protein Elk-4
A306_03830	164.524	19.240	Kelch domain-containing protein 8A

A306_03831	406.985	111.700	NUAK family SNF1-like kinase 2
A306_03832	560.516	279.914	Transmembrane and coiled-coil domains protein 2
A306_03841	140.216	594.244	DENN domain-containing protein 2D
A306_03853	219.240	11.890	Troponin I%2C slow skeletal muscle
A306_03854	51.640	2.015	Pleckstrin homology-like domain family A member 3
A306_03855	11507.741	2627.200	Cysteine and glycine-rich protein 1
A306_03857	633.151	285.296	Protein phosphatase 1 regulatory subunit 12B
A306_03871	332.426	32.484	ETS-related transcription factor Elf-3
A306_03899	245.665	598.802	Kinesin-like protein KIF16B
A306_03908	878.111	381.630	Protein HEG like protein 1
A306_03920	576.555	1070.320	Poly [ADP-ribose] polymerase 9
A306_03927	198.944	691.736	Voltage-dependent calcium channel gamma-like subunit
A306_03939	112.422	33.714	Inactive dipeptidyl peptidase 10
A306_03952	431.569	998.811	Anthrax toxin receptor 1
A306_03960	227.847	518.117	Mitogen-activated protein kinase 8
A306_04013	543.934	1089.715	Phosphatidylinositol-4%2C5-bisphosphate 3-kinase catalytic subunit beta isoform
A306_04030	190.844	394.572	Muscleblind-like protein 2
A306_04056	904.784	1835.093	Kelch domain-containing protein 2
A306_04098	26743.465	2084.780	Actin%2C gamma-enteric smooth muscle
A306_04110	17.530	65.874	AT-rich interactive domain-containing protein 5A

A306_04161	107.927	1600.732	Alpha-2A adrenergic receptor
A306_04182	58.301	15.032	Abhydrolase domain-containing protein 8
A306_04216	640.015	38.575	Transmembrane protein 59-like protein
A306_04225	47.706	147.975	Pyroglutamyl-peptidase 1
A306_04235	910.772	2813.536	Arrestin domain-containing protein 2
A306_04244	144.372	56.400	C3 and PZP-like alpha-2-macroglobulin domain-containing protein 8
A306_04257	415.636	949.231	Mps one binder kinase activator-like 2A
A306_04261	1132.364	2094.013	BTB/POZ domain-containing protein 2
A306_04283	316.608	146.426	Hydroxyacid-oxoacid transhydrogenase%2C mitochondrial
A306_04305	162.987	382.804	Protein FAM110B
A306_04313	590.746	1223.681	Tyrosine-protein kinase Lyn
A306_04355	832.422	436.793	Transcription factor Dp-1
A306_04387	30.335	323.915	Protein FAM134B
A306_04396	346.635	643.671	Catechol O-methyltransferase
A306_04423	42.417	3.075	Seizure 6-like protein
A306_04450	84.403	16.273	Synaptic vesicle 2-related protein
A306_04461	137.538	19.844	WSC domain-containing protein 2
A306_04485	1118.304	2156.516	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit
A306_04486	260.135	576.699	Voltage-gated hydrogen channel 1
A306_04497	12.617	61.599	UDP-GlcNAc:betaGal beta-1%2C3-N-acetylglucosaminyltransferase 4

A306_04524	236.574	530.263	Huntingtin-interacting protein 1-related protein
A306_04546	50.492	7.752	Protein FAM101A
A306_04554	130.943	44.518	Transmembrane protein 132B
A306_04564	644.875	328.377	putative G-protein coupled receptor 133
A306_04579	1101.398	2192.936	RB1-inducible coiled-coil protein 1
A306_04626	30.722	148.460	hypothetical protein
A306_04631	768.141	1514.444	Attractin
A306_04652	56.369	7.374	Prostatic acid phosphatase
A306_04683	1776.239	759.029	Tubulin alpha-1C chain
A306_04689	921.289	429.312	Zinc finger protein GLIS2
A306_04702	844.091	1533.682	Exportin-6
A306_04727	431.961	158.570	Periplakin
A306_04762	234.194	82.246	Transmembrane protein 204
A306_04809	255.804	78.477	Serine/threonine-protein kinase PLK1
A306_04818	20.782	0.717	Aquaporin-8
A306_04824	5333.128	1463.766	Fibroleukin
A306_04845	1306.833	4156.388	Nicotinamide phosphoribosyltransferase
A306_04853	3.254	168.216	Pendrin
A306_04854	293.371	909.497	E3 ubiquitin-protein ligase Hakai
A306_04855	3.341	773.511	Chloride anion exchanger

A306_04857	2966.456	1476.921	Laminin subunit beta-1
A306_04873	353.198	177.947	Suppressor of cytokine signaling 5
A306_04874	2080.666	1064.279	Multiple coagulation factor deficiency protein 2 like protein
A306_04898	2575.215	800.051	Putative glycosyltransferase AER61
A306_04904	221.252	663.774	Leucine-rich repeats and immunoglobulin-like domains protein 1
A306_04915	3995.466	284.136	Augurin
A306_04917	2985.697	572.313	Four and a half LIM domains protein 2
A306_04922	1281.706	710.671	Inorganic pyrophosphatase
A306_05005	789.816	400.025	Mediator of RNA polymerase II transcription subunit 30
A306_05009	1273.198	418.204	Collectin-10
A306_05017	3035.099	226.792	Collagen alpha-1(XIV) chain
A306_05020	169.006	444.019	Beta-1-syntrophin
A306_05033	39.916	3.701	Annexin A13
A306_05045	180.731	71.226	Protein FAM84B
A306_05070	120.967	279.098	Putative glycerol kinase 5
A306_05078	77.672	181.087	Sodium/hydrogen exchanger 9
A306_05080	492.022	1397.239	Phospholipid scramblase 1
A306_05093	258.153	1247.615	ERO1-like protein alpha
A306_05096	1132.042	333.181	Nidogen-2
A306_05099	199.187	78.194	hypothetical protein

A306_05119	679.076	1336.187	Protein phosphatase 1A
A306_05149	352.471	720.735	BTB/POZ domain-containing protein 6
A306_05151	544.275	269.787	Protein jagged-2
A306_05193	191.648	51.817	SID1 transmembrane family member 1
A306_05196	651.993	2025.336	V-type proton ATPase catalytic subunit A
A306_05198	117.792	27.909	Protein FAM46C
A306_05199	1835.462	727.258	Ganglioside-induced differentiation-associated protein 2
A306_05200	1115.118	529.565	WD repeat-containing protein 3
A306_05206	8162.644	813.084	3 beta-hydroxysteroid dehydrogenase/Delta 5-->4-isomerase
A306_05214	47.840	190.429	Cystatin-A
A306_05242	105.734	35.499	Cell division cycle-associated protein 3
A306_05246	18.913	123.077	Gamma-enolase
A306_05249	728.222	1712.686	Tyrosine-protein phosphatase non-receptor type 6
A306_05252	325.639	970.438	Complement C1s subcomponent
A306_05261	42.249	115.173	Protein FAM131B
A306_05305	63.526	12.594	Contactin-associated protein-like 4
A306_05352	581.418	1162.846	Abhydrolase domain-containing protein 3
A306_05359	1341.091	5310.575	Niemann-Pick C1 protein
A306_05414	626.749	265.361	SPARC-related modular calcium-binding protein 2
A306_05415	2660.134	1004.021	Thrombospondin-2

A306_05431	604.439	312.974	hypothetical protein
A306_05440	2639.702	135.828	Actin%2C alpha skeletal muscle
A306_05463	11767.974	1695.860	Nidogen-1
A306_05464	445.720	1289.261	Integral membrane protein GPR137B
A306_05470	399.920	124.631	Methionine synthase
A306_05484	707.472	111.948	Microtubule-associated proteins 1A/1B light chain 3C
A306_05525	860.410	239.993	R-spondin-3
A306_05531	297.650	116.509	Hairy/enhancer-of-split related with YRPW motif protein 2
A306_05532	488.146	236.434	HD domain-containing protein 2
A306_05533	234.914	49.642	Tumor protein D53 like protein
A306_05541	1117.700	2715.341	Heat shock factor protein 2
A306_05549	99.307	217.636	hypothetical protein
A306_05552	945.347	1908.924	Nogo-B receptor
A306_05554	98.371	245.802	Discoidin%2C CUB and LCCL domain-containing protein 1
A306_05577	2713.849	1420.911	Protein transport protein Sec61 subunit gamma
A306_05580	134.051	293.860	Vesicular%2C overexpressed in cancer%2C prosurvival protein 1
A306_05587	163.527	989.672	Calcium/calmodulin-dependent 3'%2C5'-cyclic nucleotide phosphodiesterase 1C
A306_05617	725.310	294.869	Uronyl 2-sulfotransferase
A306_05622	1294.651	4355.784	hypothetical protein
A306_05645	522.528	970.847	Connector enhancer of kinase suppressor of ras 3

A306_05656	941.580	1777.577	Sorting nexin-9
A306_05663	92.760	32.135	Synaptotagmin-like protein 3
A306_05684	60.036	152.012	Growth arrest-specific protein 7
A306_05692	24.190	81.639	Phytanoyl-CoA hydroxylase-interacting protein-like protein
A306_05698	564.544	190.723	Cell division control protein 2 like protein
A306_05706	722.856	1599.400	putative JmjC domain-containing histone demethylation protein 2C
A306_05711	566.688	1069.517	Sphingosine-1-phosphate lyase 1
A306_05736	202.359	501.358	hypothetical protein
A306_05740	174.405	64.827	E3 ubiquitin-protein ligase RING2
A306_05797	80.451	19.470	Protein FAM131A
A306_05812	3369.515	107.184	Cytochrome P450 2J2
A306_05817	765.992	407.999	HRAS-like suppressor
A306_05834	209.739	40.672	Tumor necrosis factor ligand superfamily member 13B
A306_05843	0.971	75.138	Sulfotransferase 1C2
A306_05857	58.853	199.934	Class E basic helix-loop-helix protein 41
A306_05866	191.379	405.481	Transmembrane 7 superfamily member 3
A306_05869	239.689	548.658	Serine/threonine-protein kinase 38-like protein
A306_05881	189.947	375.569	Lactosylceramide 4-alpha-galactosyltransferase
A306_05886	31.479	93.178	hypothetical protein
A306_05916	2326.610	242.326	Lutropin-choriogonadotropic hormone receptor

A306_05952	285.611	554.742	MKL/myocardin-like protein 2
A306_05965	422.727	109.763	Centrosomal protein of 120 kDa
A306_05969	1708.100	738.999	Alpha-aminoadipic semialdehyde dehydrogenase
A306_05971	126.391	14.738	hypothetical protein
A306_05981	99.237	329.122	hypothetical protein
A306_05982	245.778	785.882	Group XV phospholipase A2
A306_05989	142.904	50.373	Dipeptidase 2
A306_06033	711.578	160.678	Neprilysin
A306_06080	1447.065	635.469	Tenascin
A306_06086	2735.940	1378.820	Niban-like protein 1
A306_06154	1128.933	2090.811	Phosphoglycerate mutase 1
A306_06176	171.631	49.155	Kazal-type serine protease inhibitor domain-containing protein 1
A306_06207	760.908	277.426	Frizzled-2
A306_06209	39.050	6.192	Integrin alpha-IIb
A306_06287	90.162	242.024	Plexin domain-containing protein 1
A306_06329	565.711	233.101	N(G)%2CN(G)-dimethylarginine dimethylaminohydrolase 1
A306_06330	3476.108	625.534	Protein CEF-10
A306_06376	687.806	323.073	WD repeat%2C SAM and U-box domain-containing protein 1
A306_06383	16.878	82.766	Musculoskeletal embryonic nuclear protein 1
A306_06388	24.246	89.668	Angiopoietin-1

A306_06397	3827.787	1964.044	Septin-7
A306_06441	664.762	1254.954	DCC-interacting protein 13-beta
A306_06460	517.523	1181.925	Chaperone activity of bc1 complex-like%2C mitochondrial
A306_06479	17.358	118.250	hypothetical protein
A306_06480	55.993	253.239	Krueppel-like factor 15
A306_06484	18.867	79.617	Netrin-4
A306_06490	696.771	4636.375	Sodium- and chloride-dependent taurine transporter
A306_06491	139.563	482.967	Glutamate receptor-interacting protein 2
A306_06524	441.634	1143.723	cAMP-dependent protein kinase type II-alpha regulatory subunit
A306_06529	434.301	190.847	Peroxisomal acyl-coenzyme A oxidase 2
A306_06544	295.046	88.052	Pikachurin
A306_06566	17.331	0.000	hypothetical protein
A306_06586	922.647	2385.555	Tyrosine-protein phosphatase non-receptor type 13
A306_06603	795.339	1421.275	Anthrax toxin receptor 2
A306_06620	1372.083	531.910	A disintegrin and metalloproteinase with thrombospondin motifs 3
A306_06661	40.893	220.435	C-C motif chemokine 21
A306_06690	230.243	45.790	Ephrin type-A receptor 7
A306_06693	2160.254	6985.215	Metalloproteinase inhibitor 3
A306_06695	547.792	1396.331	F-box only protein 7
A306_06704	574.017	244.191	UPF0444 transmembrane protein C12orf23 like protein

A306_06709	2294.016	1282.868	Cytoskeleton-associated protein 4
A306_06727	1226.709	643.123	LIM and senescent cell antigen-like-containing domain protein 1
A306_06741	163.517	2.335	Receptor-type tyrosine-protein phosphatase zeta
A306_06782	1274.475	318.696	Lumican
A306_06783	9815.503	1723.563	Decorin
A306_06784	1433.557	3309.776	Protein BTG1
A306_06791	943.075	2155.536	Plexin-C1
A306_06817	486.397	930.949	hypothetical protein
A306_06833	3972.147	2169.121	PDZ and LIM domain protein 5
A306_06846	424.055	890.955	Disco-interacting protein 2 like protein C
A306_06848	307.242	590.974	La-related protein 4B
A306_06878	377.721	756.905	DENN domain-containing protein 4C
A306_06894	464.745	188.645	Dystrophin
A306_06903	628.824	116.845	Glutamate receptor 2
A306_06904	504.825	126.108	Protein ENED
A306_06906	311.918	54.412	Relaxin receptor 1
A306_06962	1192.254	2366.799	Protein ITFG3
A306_06963	494.666	983.910	hypothetical protein
A306_06972	77.416	23.062	Fox-1 like protein A
A306_06997	121.322	773.923	Suppressor of cytokine signaling 1

A306_07001	331.511	826.034	Lipopolysaccharide-induced tumor necrosis factor-alpha factor like protein
A306_07033	141.509	49.604	EF-hand domain-containing protein D2
A306_07038	253.742	75.594	Cytidine deaminase
A306_07048	3065.871	1493.363	Neuroblastoma suppressor of tumorigenicity 1
A306_07051	151.446	386.597	PQ-loop repeat-containing protein 2
A306_07095	3427.599	442.608	Nexilin
A306_07099	354.340	63.498	Adenylate kinase isoenzyme 5
A306_07168	8.923	58.479	Cyclic nucleotide-gated channel cone photoreceptor subunit alpha
A306_07207	80.673	20.771	Ephrin type-A receptor 6
A306_07225	5202.542	2213.593	Follistatin-related protein 1
A306_07238	71.964	6.641	Tubulin alpha chain
A306_07239	14840.136	5887.881	Tubulin alpha-1A chain
A306_07240	3708.122	1215.472	Tubulin alpha-1C chain
A306_07267	166.237	43.460	Methyltransferase-like protein 7A
A306_07277	1028.024	485.696	BNIP2 motif-containing molecule
A306_07286	254.822	1139.342	Ras-related protein Rab-31
A306_07289	344.153	757.579	Twisted gastrulation like protein 1
A306_07309	187.482	739.882	Macrophage mannose receptor 1
A306_07320	692.256	1250.964	Outcome predictor in acute leukemia 1
A306_07321	2570.055	68.865	Steroid 17-alpha-hydroxylase/17%2C20 lyase

A306_07322	2702.529	100.712	Steroid 17-alpha-hydroxylase/17%2C20 lyase
A306_07358	18.662	71.946	putative mast cell antigen 32 like protein
A306_07363	847.330	256.058	Importin subunit alpha-2
A306_07365	3504.300	34502.682	Cathepsin L1
A306_07400	1042.345	255.415	Iporin
A306_07417	170.514	4739.437	Avidin
A306_07420	18.146	0.694	Avidin
A306_07421	87.819	0.000	Avidin
A306_07435	2949.489	731.573	Insulin-like growth factor-binding protein 2
A306_07436	601.226	1277.175	Insulin-like growth factor-binding protein 5
A306_07437	3564.868	1936.445	Tensin
A306_07446	298.195	977.100	Natural resistance-associated macrophage protein 1
A306_07481	8207.267	1783.795	Desmin
A306_07482	7626.523	1288.492	hypothetical protein
A306_07484	153.291	42.905	hypothetical protein
A306_07489	80.027	20.891	Amiloride-sensitive cation channel 4-A
A306_07524	108.622	39.666	STE20/SPS1-related proline-alanine-rich protein kinase
A306_07526	353.164	117.116	Kinetochore protein Spc25
A306_07610	9544.820	26013.519	Cystatin
A306_07644	1465.123	3433.220	UBX domain-containing protein 4

A306_07653	94.705	28.304	Neurexophilin-2
A306_07654	328.805	149.633	von Willebrand factor D and EGF domain-containing protein
A306_07663	239.767	524.877	Ras-related protein Rab-20
A306_07664	3126.632	1323.398	Collagen alpha-2(IV) chain
A306_07665	1896.899	829.737	Collagen alpha-2(IV) chain
A306_07666	30529.870	8009.417	Collagen alpha-1(IV) chain
A306_07676	1836.036	5441.230	ATP-binding cassette sub-family A member 1
A306_07714	90.268	1031.708	Suppressor of cytokine signaling 3
A306_07733	631.131	284.415	Pyrroline-5-carboxylate reductase 2
A306_07779	913.539	29.382	Troponin C%2C slow skeletal and cardiac muscle
A306_07819	88.769	14.774	Hepatocyte growth factor-like protein
A306_07832	183.313	375.174	Inositol-pentakisphosphate 2-kinase
A306_07833	1565.925	367.694	Extracellular matrix protein 2
A306_07840	50.242	11.563	Sodium- and chloride-dependent GABA transporter 3
A306_07845	292.366	840.461	Ninjurin-1
A306_07846	240.111	700.277	hypothetical protein
A306_07859	416.969	965.417	Branched-chain-amino-acid aminotransferase%2C cytosolic
A306_07886	322.236	49.170	Complement C1q tumor necrosis factor-related protein 4
A306_07897	561.643	1708.733	Transcription factor PU.1
A306_07917	786.695	65.597	Midkine

A306_07919	696.615	98.823	Cyclic AMP-responsive element-binding protein 3-like protein 1
A306_07938	256.493	99.015	Nucleolar and spindle-associated protein 1
A306_07964	109.972	317.871	Calpain-3
A306_08002	659.971	43.177	SPARC-related modular calcium-binding protein 1
A306_08013	10110.538	3768.162	Alpha-actinin-1
A306_08031	36.125	417.220	Bcl-2-modifying factor
A306_08047	345.121	113.875	Neuroendocrine protein 7B2
A306_08065	16.531	157.913	Cochlin
A306_08098	1792.464	876.544	Protein transport protein Sec23A
A306_08136	1237.151	276.898	Transforming growth factor beta-3
A306_08140	1481.216	723.642	Vasohibin-1
A306_08146	118.352	10.261	Neuroglobin
A306_08231	163.952	747.187	Patatin-like phospholipase domain-containing protein 2
A306_08285	416.821	1489.960	Monocarboxylate transporter 4
A306_08302	1087.413	2342.362	NFX1-type zinc finger-containing protein 1
A306_08314	1081.555	2296.546	Phospholipid transfer protein
A306_08330	9514.897	24218.363	Protein-glutamine gamma-glutamyltransferase 2
A306_08334	355.000	1025.203	Bactericidal permeability-increasing protein
A306_08358	714.943	263.807	Targeting protein for Xklp2
A306_08362	346.664	168.208	GTP-binding protein REM 1

A306_08371	31.641	1.285	R-spondin-4
A306_08389	70.582	2773.290	Tumor necrosis factor receptor superfamily member 6B
A306_08391	424.267	1989.481	Zinc finger CCCH-type with G patch domain-containing protein
A306_08462	1322.441	3808.520	Cathepsin Z
A306_08470	467.577	863.265	Serine/threonine-protein phosphatase 4 regulatory subunit 1
A306_08486	23.239	1.324	hypothetical protein
A306_08487	51.627	3.243	Cerebellin-4
A306_08488	107.514	33.536	Docking protein 5
A306_08492	517.655	988.746	Zinc finger protein 217
A306_08493	491.872	258.344	Teashirt like protein 2
A306_08497	216.649	548.132	putative phospholipid-transporting ATPase IIA
A306_08499	158.886	46.712	Potassium voltage-gated channel subfamily G member 1
A306_08505	129.882	295.351	RNA-binding protein Raly
A306_08540	528.138	1117.219	Lethal(3)malignant brain tumor-like 3 protein
A306_08555	120.944	1875.066	Vascular non-inflammatory molecule 3
A306_08556	48.912	223.712	Pantetheinase
A306_08563	1642.079	347.450	Transcription factor 21
A306_08575	114.111	449.219	Ensconsin
A306_08603	759.870	16.150	Purkinje cell protein 4-like protein 1
A306_08604	40.433	5.472	Myelin protein P0

A306_08607	3891.184	1941.622	Transgelin-2
A306_08622	412.518	190.177	Protein FAM107B
A306_08640	360.242	180.831	Voltage-dependent calcium channel subunit alpha-2/delta-1
A306_08641	179.820	412.509	Hepatocyte growth factor
A306_08645	1090.512	590.419	Guanine nucleotide-binding protein G(i)%2C alpha-1 subunit
A306_08682	343.023	899.600	Ubiquitin-associated and SH3 domain-containing protein B
A306_08714	362.477	1129.902	Nuclear receptor subfamily 1 group D member 2
A306_08730	301.928	578.962	Mitogen-activated protein kinase kinase kinase 3
A306_08794	986.856	512.257	hypothetical protein
A306_08795	854.744	436.548	Ephrin-B1
A306_08810	310.308	142.504	Chromosome-associated kinesin KIF4
A306_08864	846.309	4332.497	Spondin-2
A306_08865	4.058	44.723	Glycoprotein 25L
A306_08868	327.717	106.920	Protein atonal like protein 8
A306_08909	114.165	37.606	Putative uncharacterized transposon-derived protein ZK1236.4
A306_08917	418.096	135.408	Multifunctional protein ADE2
A306_08941	725.257	117.334	Ras-like protein family member 11B
A306_08972	226.655	10.420	Protein shisa-3 like protein
A306_08999	95.495	312.527	Toll-like receptor 1
A306_09009	485.694	210.908	Arf-GAP with Rho-GAP domain%2C ANK repeat and PH domain-containing protein 2

A306_09014	636.820	316.858	TBC1 domain family member 19
A306_09018	20.017	425.518	Sodium-dependent phosphate transport protein 2B
A306_09034	202.848	70.964	Condensin complex subunit 3
A306_09056	353.256	107.412	Solute carrier family 2%2C facilitated glucose transporter member 9
A306_09065	1658.317	283.132	Cytokine-like protein 1
A306_09071	272.402	93.985	Janus kinase and microtubule-interacting protein 3
A306_09084	246.434	972.707	1-acylglycerol-3-phosphate O-acyltransferase ABHD5
A306_09107	164.765	415.764	Tetratricopeptide repeat protein 38
A306_09158	14773.185	4046.210	Myosin light polypeptide 6
A306_09182	387.719	119.756	Collagen alpha-1(XVI) chain
A306_09183	1969.044	870.360	Peflin
A306_09214	327.779	78.794	Collagen alpha-2(VIII) chain
A306_09219	720.544	294.520	Protein FAM176B
A306_09232	119.976	42.133	R-spondin-1
A306_09238	659.948	352.803	Type II inositol-1%2C4%2C5-trisphosphate 5-phosphatase
A306_09264	705.872	327.209	Syndecan-3
A306_09266	869.569	2143.208	Lysosomal-associated transmembrane protein 5
A306_09276	674.452	143.836	Transmembrane protein 200B
A306_09287	6.987	73.166	Microfibrillar-associated protein 3-like protein
A306_09293	1540.646	669.254	Palladin

A306_09297	303.378	84.816	Transducin-like enhancer protein 1
A306_09301	370.263	810.162	Ubiquitin-conjugating enzyme E2 R1
A306_09316	2814.790	1029.080	Calponin-2
A306_09356	356.216	1998.390	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3
A306_09369	206.632	463.162	hypothetical protein
A306_09427	1945.760	3535.142	Cation-dependent mannose-6-phosphate receptor
A306_09434	284.846	43.909	Microfibrillar-associated protein 5
A306_09508	310.522	105.726	Guanylate cyclase soluble subunit alpha-3
A306_09531	318.550	130.783	ALX homeobox protein 1
A306_09536	239.511	110.943	Receptor-type tyrosine-protein phosphatase gamma
A306_09562	1023.338	1826.560	Intersectin-2
A306_09624	648.724	1264.836	Arf-GAP with SH3 domain%2C ANK repeat and PH domain-containing protein 1
A306_09634	50.286	141.633	SRC-like-adaptor
A306_09648	187.045	79.737	Kinetochore protein NDC80 like protein
A306_09651	687.339	1378.667	elastin microfibril interfacier 2
A306_09656	273.747	1065.748	Homeobox protein AKR
A306_09691	275.962	529.309	Retinoic acid-induced protein 2
A306_09705	308.164	134.893	Mitotic checkpoint serine/threonine-protein kinase BUB1 beta
A306_09715	1844.249	1008.275	Carbohydrate sulfotransferase 14
A306_09766	65.247	218.344	Glioma pathogenesis-related protein 1

A306_09774	10660.408	1480.805	Cysteine and glycine-rich protein 2
A306_09783	146.212	5.736	UPF0567 protein ENSP00000298105 like protein
A306_09803	1698.266	879.291	Laminin subunit alpha-4
A306_09860	6634.690	2114.712	Fibrillin-1
A306_09887	437.532	123.749	Putative protein C10orf47 like protein
A306_09895	36.855	467.817	Coiled-coil domain-containing protein 3
A306_09941	71.060	18.375	Telomeric repeat-binding factor 1
A306_09942	65.257	7.070	RPE-spondin
A306_09976	370.166	879.051	Peroxisomal membrane protein PMP34
A306_09988	213.889	521.312	Dual specificity protein phosphatase 16
A306_09992	1095.662	2921.872	Cyclin-dependent kinase inhibitor 1B
A306_10028	116.564	266.603	Mitogen-activated protein kinase 12
A306_10037	104.478	16.728	Deoxyribonuclease gamma
A306_10044	94.924	12.974	Collagen alpha-1(VII) chain
A306_10061	541.617	157.280	Gap junction gamma-1 protein
A306_10062	203.665	47.805	hypothetical protein
A306_10073	259.748	119.217	hypothetical protein
A306_10086	578.177	209.526	Bone morphogenetic protein 4
A306_10087	253.562	115.986	Cyclin-dependent kinase inhibitor 3
A306_10091	26.892	105.865	Myosin-X

A306_10106	1010.203	2485.479	Protein BTG2
A306_10107	683.027	37.929	Fibromodulin
A306_10108	564.499	247.686	Prolargin
A306_10109	546.094	210.764	hypothetical protein
A306_10129	3370.223	792.229	Leiomodlin-1
A306_10130	18.382	102.598	Protein shisa-4
A306_10162	1886.895	942.094	Splicing factor%2C arginine/serine-rich 3
A306_10182	1308.759	139.117	Olfactomedin-like protein 3
A306_10184	1235.284	2281.501	Homeodomain-interacting protein kinase 1
A306_10206	3.540	50.151	Interleukin-10
A306_10235	3889.857	7798.821	Amyloid-like protein 2
A306_10289	2024.660	893.666	Serine protease 23
A306_10312	526.377	1753.498	Ankyrin repeat domain-containing protein 10
A306_10317	10.514	192.496	Nuclear receptor subfamily 1 group D member 1
A306_10331	24.744	0.717	Pro-opiomelanocortin A
A306_10334	525.287	1135.336	Tripartite motif-containing protein 35
A306_10368	43.174	120.357	Mastermind-like protein 3
A306_10370	117.945	268.767	Histone-lysine N-methyltransferase SETD7
A306_10379	18588.780	4603.535	Caldesmon
A306_10424	1078.003	434.237	Synaptopodin-2

A306_10426	162.593	343.473	Inactive ubiquitin carboxyl-terminal hydrolase 53
A306_10430	149.416	42.839	Mitotic spindle assembly checkpoint protein MAD2A
A306_10501	6.660	57.459	hypothetical protein
A306_10513	131.272	279.967	Integrin beta-8
A306_10518	165.824	369.396	Histone deacetylase 9
A306_10543	181.946	426.147	ELL-associated factor 1
A306_10546	140.752	354.377	Calpain-7
A306_10547	181.391	418.549	Calpain-7
A306_10561	21.949	142.349	hypothetical protein
A306_10567	15.330	0.000	Gastrin-releasing peptide receptor
A306_10625	164.852	53.116	hypothetical protein
A306_10626	182.205	65.402	Actin filament-associated protein 1-like 2
A306_10672	185.781	35.411	Secreted frizzled-related protein 1
A306_10687	73.026	231.405	Rho-related GTP-binding protein RhoQ
A306_10696	722.526	276.685	VPS10 domain-containing receptor SorCS2
A306_10722	131.938	355.163	Lateral signaling target protein 2 like protein
A306_10733	1915.288	256.761	Methionine-R-sulfoxide reductase B3%2C mitochondrial
A306_10794	105396.325	378920.605	Ferritin heavy chain
A306_10796	2561.967	5045.661	Guanine nucleotide exchange factor for Rab3A
A306_10821	1281.051	442.540	G1/S-specific cyclin-D1

A306_10822	197.282	1195.972	Two pore calcium channel protein 2
A306_10842	1284.260	2247.310	Signal recognition particle 72 kDa protein
A306_10848	24414.938	7769.553	Insulin-like growth factor-binding protein 7
A306_10850	202.268	615.412	putative E3 ubiquitin-protein ligase HERC3
A306_10852	42.720	128.807	Protein FAM13B
A306_10882	122.763	47.869	Neuronal acetylcholine receptor subunit alpha-7
A306_10891	49.421	161.917	Aquaporin-9
A306_10924	294.018	108.391	Aminopeptidase N
A306_10929	762.088	1550.250	Cathepsin H
A306_10945	312.013	94.090	Kinesin-like protein KIF23
A306_10951	471.090	174.711	Integrin alpha-11
A306_10952	1390.629	473.754	Integrin alpha-11
A306_11042	483.944	1994.180	Aldehyde oxidase
A306_11062	734.199	1702.054	Bone morphogenetic protein receptor type-2
A306_11089	95.459	7.826	Myosin light chain 1%2C cardiac muscle
A306_11090	202.284	72.619	Parathyroid hormone/parathyroid hormone-related peptide receptor
A306_11154	959.294	2168.380	Cadherin-2
A306_11159	119.517	30.936	Transcription initiation factor TFIID subunit 4B
A306_11169	69.136	188.773	Tetratricopeptide repeat protein 39C
A306_11170	3251.248	940.715	Placenta-specific protein 9

A306_11171	825.919	1712.905	Annexin A11
A306_11226	364.747	1849.014	Class E basic helix-loop-helix protein 40
A306_11326	1174.921	644.567	Multimerin-2
A306_11328	781.465	349.258	Transducin-like enhancer protein 2
A306_11355	164.309	54.440	Maternal embryonic leucine zipper kinase
A306_11382	822.720	1546.104	F-box only protein 34
A306_11398	1654.575	778.266	Lamina-associated polypeptide 2%2C isoforms beta/delta/epsilon/gamma
A306_11444	521.842	242.122	Tetraspanin-18
A306_11467	105.845	332.783	NAD-dependent deacetylase sirtuin-5
A306_11469	547.233	1478.717	Ran-binding protein 9
A306_11474	771.263	1382.773	E3 ubiquitin-protein ligase MYLIP
A306_11549	4.223	66.685	Rab effector MyRIP
A306_11550	2.639	25.571	Rab effector MyRIP
A306_11572	1122.273	609.568	Exosome complex exonuclease RRP43
A306_11600	2209.698	6669.690	Phosphoglycerate kinase
A306_11609	483.002	168.475	Chordin-like protein 1
A306_11612	569.073	2339.006	Long-chain-fatty-acid--CoA ligase 4
A306_11652	505.712	3775.778	ATP-binding cassette sub-family A member 10
A306_11657	116.299	353.046	Monocarboxylate transporter 7
A306_11659	147.387	609.709	Regulator of G-protein signaling 9

A306_11686	111.745	815.186	Ectonucleotide pyrophosphatase/phosphodiesterase family member 6
A306_11701	1166.655	265.506	Sorbin and SH3 domain-containing protein 2
A306_11704	143.737	493.033	Cytochrome P450 4V2
A306_11724	434.747	169.668	Spindle and kinetochore-associated protein 2
A306_11740	66.753	7778.438	Prostaglandin G/H synthase 2
A306_11742	665.801	2820.086	Cytosolic phospholipase A2
A306_11759	285.419	47.100	Rho GTPase-activating protein 6
A306_11773	202.890	52.198	G2/mitotic-specific cyclin-B3
A306_11780	633.199	1187.808	CD2-associated protein
A306_11781	1145.920	4864.806	Tumor necrosis factor receptor superfamily member 21
A306_11798	29.196	3.098	Klotho
A306_11846	64.349	191.690	Gamma-sarcoglycan
A306_11855	934.231	457.386	Serine/threonine-protein kinase LATS2
A306_11887	1432.001	542.441	KDEL motif-containing protein 2
A306_11900	453.694	159.674	Guanylate cyclase soluble subunit alpha-2
A306_11916	229.514	719.435	Porimin
A306_11921	21.069	1.370	Angiopoietin-related protein 5
A306_11943	288.806	118.136	Sphingosine 1-phosphate receptor 3
A306_11948	63.944	210.677	Immunoglobulin superfamily member 1
A306_11957	22222.179	2616.225	Myosin regulatory light polypeptide 9

A306_11983	266.044	73.996	Protein ECT2
A306_11986	322.881	837.870	Tumor necrosis factor ligand superfamily member 10
A306_11993	7078.587	3831.315	60S ribosomal protein L22-like 1
A306_11999	100.285	245.967	putative G-protein coupled receptor 160
A306_12004	86.680	7.700	Ras-related protein Rab-38
A306_12005	1352.647	2519.062	Dipeptidyl-peptidase 1
A306_12009	311.775	71.693	NADPH oxidase 4
A306_12027	183.557	58.351	Receptor-type tyrosine-protein phosphatase delta
A306_12041	19.893	80.307	Programmed cell death 1 ligand 1
A306_12047	373.633	173.494	Proprotein convertase subtilisin/kexin type 5
A306_12091	235.715	764.698	5'-nucleotidase domain-containing protein 3
A306_12099	58.342	150.176	Tubulin alpha-2 chain
A306_12103	231.289	662.105	BH3-interacting domain death agonist
A306_12139	154.286	351.085	FYVE%2C RhoGEF and PH domain-containing protein 4
A306_12146	17708.081	3527.848	Myosin light chain kinase%2C smooth muscle
A306_12148	164.318	58.771	Adenylate cyclase type 5
A306_12149	282.304	106.520	Adenylate cyclase type 5
A306_12163	231.010	453.747	Transcription factor CP2-like protein 1
A306_12171	1433.652	714.337	Ras-related protein M-Ras
A306_12207	3558.027	8094.245	Pyruvate kinase muscle isozyme

A306_12231	404.444	190.061	Ephrin type-B receptor 2
A306_12238	125.212	48.328	SERTA domain-containing protein 4
A306_12251	249.796	28.493	Protocadherin-10
A306_12298	252.033	854.437	6-phosphofructo-2-kinase/fructose-2%2C6-biphosphatase 4
A306_12325	1314.946	205.249	Versican core protein
A306_12326	1924.149	332.910	Versican core protein
A306_12348	304.779	77.109	MAL-like protein
A306_12353	607.610	2306.875	Proto-oncogene tyrosine-protein kinase MER
A306_12372	1276.144	2461.936	Ras and Rab interactor 2
A306_12405	1019.560	554.743	Septin-8
A306_12416	45.054	5.371	Protein sprouty like protein 4
A306_12432	1458.757	716.699	Dihydropyrimidinase-related protein 3
A306_12447	97.622	222.561	Glycerol-3-phosphate acyltransferase 3
A306_12448	179.706	74.244	hypothetical protein
A306_12449	459.073	1371.327	Acyl-CoA desaturase
A306_12465	355.520	1016.340	Phosphoinositide 3-kinase adapter protein 1
A306_12490	1080.204	579.768	Adenosine kinase
A306_12501	772.583	299.792	Calcium-activated potassium channel subunit alpha-1
A306_12557	214.930	419.219	Surfeit locus protein 1
A306_12564	66.491	15.907	hypothetical protein

A306_12577	7205.168	1584.674	Collagen alpha-1(V) chain
A306_12602	271.045	623.286	Calmodulin-regulated spectrin-associated protein 1
A306_12613	1920.562	3478.090	Gelsolin
A306_12627	371.408	701.875	hypothetical protein
A306_12642	367.018	181.166	Methylcytosine dioxygenase TET1
A306_12686	152.408	26.147	hypothetical protein
A306_12687	32644.149	18906.105	Thymosin beta-4
A306_12688	110.191	327.656	Toll-like receptor 7
A306_12698	396.435	114.922	Actin-binding protein anillin
A306_12705	15392.291	4027.192	Secreted frizzled-related protein 4
A306_12718	282.091	112.260	Collagen alpha-1(XI) chain
A306_12735	73.671	272.043	Interferon-induced very large GTPase 1
A306_12738	762.539	1843.122	hypothetical protein
A306_12765	978.521	2119.262	Phosphatidylcholine-sterol acyltransferase
A306_12779	23.254	121.176	hypothetical protein
A306_12780	14.193	63.493	hypothetical protein
A306_12801	2155.034	582.451	Kinesin-like protein KIFC3
A306_12802	685.652	182.479	Kinesin-like protein KIFC3
A306_12815	66.640	9.699	Protein NDRG4
A306_12825	80.036	2.335	Cadherin-20

A306_12841	325.579	642.322	EF-hand domain-containing protein D1
A306_12855	4485.343	1365.048	LIM and senescent cell antigen-like-containing domain protein 2
A306_12860	2593.629	841.830	KN motif and ankyrin repeat domain-containing protein 3
A306_12895	32.938	144.327	Norrin
A306_12912	5170.202	918.071	Sushi repeat-containing protein SRPX
A306_12915	561.942	1194.893	Cytochrome b-245 heavy chain
A306_12934	428.319	942.944	Leucine-rich repeat flightless-interacting protein 2
A306_12965	128.328	9.373	Dynein heavy chain 7%2C axonemal
A306_12968	323.614	1172.036	Tomoregulin-2
A306_12993	400.956	1140.735	SH3 domain-containing kinase-binding protein 1
A306_13000	1320.241	3740.773	Cathepsin K
A306_13086	1764.475	707.318	Cholinesterase
A306_13097	1280.436	677.919	Podoplanin
A306_13106	202.960	613.056	Tumor necrosis factor receptor superfamily member 1B
A306_13143	173.657	416.894	Phosphatidylinositol-4%2C5-bisphosphate 3-kinase catalytic subunit delta isoform
A306_13151	7723.599	20706.625	Alpha-enolase
A306_13161	1361.118	659.945	Agrin
A306_13166	21.141	70.019	Tumor necrosis factor receptor superfamily member 18
A306_13169	85.402	8.985	Protein FAM132A
A306_13181	863.869	153.060	Putative oxidoreductase C663.06c

A306_13185	480.317	1384.323	von Willebrand factor A domain-containing protein 1
A306_13256	62.450	12.919	Osteocrin
A306_13265	442.029	152.719	Lipoma-preferred partner like protein
A306_13266	310.010	1095.397	B-cell lymphoma 6 protein like protein
A306_13324	390.978	835.646	Neuroserpin
A306_13335	119.062	285.687	Sorting nexin-10
A306_13386	383.205	103.900	Tissue factor
A306_13389	5590.656	2438.174	Calponin-3
A306_13419	144.809	310.246	Guanine nucleotide exchange factor VAV3
A306_13431	217.002	481.903	Leukocyte common antigen
A306_13448	155.305	1405.674	Regulator of G-protein signaling 2
A306_13460	551.641	169.734	Discoidin domain-containing receptor 2
A306_13461	86.184	21.585	Discoidin domain-containing receptor 2
A306_13465	822.628	387.385	Carboxyl-terminal PDZ ligand of neuronal nitric oxide synthase protein
A306_13474	114.605	8.016	Regenerating islet-derived protein 4
A306_13476	85.413	26.856	D-3-phosphoglycerate dehydrogenase
A306_13507	560.281	1848.373	Coiled-coil and C2 domain-containing protein 1B
A306_13515	1507.624	549.064	Podocan
A306_13522	58.118	236.105	Zinc finger protein GLIS1
A306_13538	381.635	105.328	24-dehydrocholesterol reductase

A306_13556	258.207	521.408	Cytochrome P450 2J2
A306_13557	295.104	589.964	Cytochrome P450 2J2
A306_13588	351.929	156.288	Leptin receptor
A306_13600	383.893	958.969	Growth arrest and DNA-damage-inducible protein GADD45 alpha
A306_13629	187.245	63.237	Kinetochore protein Nuf2
A306_13685	149.923	13.591	Brorin
A306_13698	628.781	287.526	PTB domain-containing engulfment adapter protein 1
A306_13699	3370.337	874.678	Collagen alpha-1(III) chain
A306_13700	12145.483	2867.552	Collagen alpha-2(V) chain
A306_13705	390.637	111.201	CD276 antigen
A306_13714	1211.699	119.939	Immunoglobulin superfamily containing leucine-rich repeat protein 2
A306_13715	2055.016	732.549	Immunoglobulin superfamily containing leucine-rich repeat protein
A306_13737	9538.386	3142.912	Myosin-10
A306_13739	30.711	158.645	Neuronal PAS domain-containing protein 2
A306_13740	742.838	1532.841	TBC1 domain family member 8B
A306_13741	18.205	279.130	E3 ubiquitin-protein ligase RNF128
A306_13751	1138.514	296.356	hypothetical protein
A306_13753	240.419	112.876	Splicing factor%2C arginine/serine-rich 17B
A306_13789	137.256	393.384	Sestrin-3
A306_13809	306.368	808.098	Dedicator of cytokinesis protein 11

A306_13810	78.682	225.868	Interleukin-13 receptor alpha-1
A306_13820	2548.135	1396.902	Glypican-4
A306_13830	798.303	222.315	Four and a half LIM domains protein 1
A306_13861	399.603	199.460	Single-stranded DNA-binding protein 2
A306_13868	774.426	300.555	SH3 domain-binding protein 4
A306_13888	116.795	331.732	Platelet-activating factor receptor
A306_13891	2592.638	1430.311	DNA-binding protein inhibitor ID-3
A306_13893	1141.488	635.159	Arf-GAP with SH3 domain%2C ANK repeat and PH domain-containing protein 3
A306_13969	239.845	98.834	Citron Rho-interacting kinase
A306_13998	744.158	198.791	Lysyl oxidase like protein 2
A306_14002	45.707	1.679	Homeobox protein Nkx-3.1
A306_14015	791.057	1590.679	BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like protein
A306_14050	134.088	329.948	hypothetical protein
A306_14051	234.198	614.520	Acyl-CoA:lysophosphatidylglycerol acyltransferase 1
A306_14058	348.361	9.260	Integrin beta-like protein 1
A306_14065	1477.919	3494.319	Pyruvate kinase muscle isozyme
A306_14069	44.925	3.098	Keratin-like protein KRT222
A306_14073	185.733	31.367	Keratin%2C type I cytoskeletal 19
A306_14078	67.472	13.646	Keratin%2C type I cytoskeletal 19
A306_14080	51.889	3.052	Keratin%2C type I cytoskeletal 13

A306_14081	148.100	9.938	Keratin%2C type I cytoskeletal 19
A306_14082	1774.060	134.324	Keratin%2C type I cytoskeletal 14
A306_14125	423.086	208.876	UDP-glucose 4-epimerase
A306_14133	130.475	355.637	ATP-binding cassette sub-family G member 1
A306_14135	54.036	138.337	Lymphocyte antigen 6E
A306_14183	1050.788	554.807	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-10
A306_14202	4775.125	2589.320	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4
A306_14219	7952.102	837.166	Collagen alpha-1(I) chain
A306_14220	14826.339	1298.450	Collagen alpha-1(I) chain
A306_14235	46.425	6.272	Potassium voltage-gated channel subfamily H member 6
A306_14261	409.690	190.554	Prostaglandin E synthase 3
A306_14275	3592.218	88.126	Estradiol 17-beta-dehydrogenase 1
A306_14277	6863.554	2400.821	Polymerase I and transcript release factor
A306_14278	2363.605	5795.517	Signal transducer and activator of transcription 3
A306_14314	922.092	1795.620	Zinc finger protein ZPR1
A306_14315	16002.835	104651.419	Apolipoprotein A-I
A306_14330	2.001	128.907	Transmembrane protease%2C serine 4
A306_14331	5.031	32.869	Sodium channel subunit beta-4
A306_14350	62.760	249.773	Interleukin-18
A306_14355	2375.899	676.130	Out at first protein like protein

A306_14356	32.303	4.589	Tripartite motif-containing protein 29
A306_14359	893.167	92.974	Thy-1 membrane glycoprotein
A306_14366	2064.906	819.564	Cell surface glycoprotein MUC18
A306_14371	179.365	76.103	ATP-binding cassette sub-family G member 4
A306_14401	62.826	283.897	Inositol monophosphatase 2
A306_14429	8076.547	23767.803	Cathepsin B
A306_14439	305.771	80.342	Kinesin-like protein KIF20A
A306_14450	421.171	183.203	Drebrin
A306_14515	58623.619	14722.797	secreted protein%2C acidic%2C cysteine-rich (osteonectin)
A306_14521	10394.643	4781.142	Annexin A6
A306_14523	13813.584	4727.506	Glutathione peroxidase 3
A306_14527	1116.680	468.321	hypothetical protein
A306_14539	1665.144	4388.385	Macrophage colony-stimulating factor 1 receptor
A306_14550	1925.889	7493.082	Sequestosome-1
A306_14556	391.734	172.503	Deoxycytidine kinase
A306_14558	2177.293	782.599	A disintegrin and metalloproteinase with thrombospondin motifs 2
A306_14559	32.114	186.989	hypothetical protein
A306_14587	235.458	79.124	Pterin-4-alpha-carbinolamine dehydratase 2
A306_14606	237.419	950.565	Folliculin-interacting protein 1
A306_14619	503.911	172.443	Complement C1q tumor necrosis factor-related protein 2

A306_14621	358.027	105.546	Securin
A306_14625	46.038	6.957	Gamma-aminobutyric acid receptor subunit alpha-1
A306_14629	215.262	76.357	Hyaluronan mediated motility receptor
A306_14639	169.129	49.314	Kv channel-interacting protein 1
A306_14640	3744.544	325.252	Putative calcium-activated potassium channel subunit beta
A306_14643	180.885	367.368	Dedicator of cytokinesis protein 2
A306_14646	468.296	243.334	Slit like protein 3 protein
A306_14681	100.497	254.540	Proteinase-activated receptor 2
A306_14704	147.806	53.090	Hairy/enhancer-of-split related with YRPW motif protein 1
A306_14705	744.076	393.348	28S ribosomal protein S28%2C mitochondrial
A306_14714	878.525	333.222	Tetraspan membrane protein of hair cell stereocilia like protein
A306_14720	1523.345	820.640	Transcriptional enhancer factor TEF-5
A306_14721	620.868	1165.702	Sphingomyelin phosphodiesterase 2
A306_14725	271.430	528.255	Fanconi anemia group E protein
A306_14752	92.926	20.303	Hyaluronan and proteoglycan link protein 1
A306_14771	245.230	114.849	mTERF domain-containing protein 2
A306_14780	1344.341	226.448	Bcl-2-related ovarian killer protein
A306_14783	593.040	2124.090	Pituitary tumor-transforming gene 1 protein-interacting protein
A306_14805	1183.638	2686.284	Ovotransferrin
A306_14808	561.208	2176.913	Solute carrier organic anion transporter family member 2A1

A306_14810	2155.341	841.362	Angiomotin-like protein 2
A306_14831	193.817	79.194	UPF0524 protein C3orf70 like protein
A306_14850	86.777	244.518	Gasdermin-A1
A306_14851	62.733	173.992	Gasdermin-A3
A306_14856	5.509	69.122	Nuclear receptor subfamily 1 group D member 1
A306_14863	438.090	814.284	Nuclear receptor subfamily 2 group C member 1
A306_14869	50.356	6.944	Chloride intracellular channel protein 3
A306_14875	120.687	1480.294	Extracellular fatty acid-binding protein
A306_14877	332.485	2069.382	Lipocalin
A306_14911	148.964	307.374	Amyloid beta A4 precursor protein-binding family B member 1-interacting protein
A306_14936	547.222	218.495	Insulin-induced gene 1 protein
A306_15002	310.742	114.381	Paired mesoderm homeobox protein 2
A306_15003	761.453	263.802	Prostaglandin E synthase
A306_15026	160.963	1756.440	Protein KIAA1199 like protein
A306_15075	3347.808	1615.468	Tubulin beta-7 chain
A306_15083	484.490	24.033	XK-related protein 2
A306_15093	424.248	189.197	Myocardin
A306_15164	166.440	654.252	CCAAT/enhancer-binding protein alpha
A306_15187	200.775	399.240	CKLF-like MARVEL transmembrane domain-containing protein 3
A306_15193	6230.899	1417.606	Cadherin-11

A306_15201	174.271	41.693	Receptor-type tyrosine-protein phosphatase R
A306_15240	1887.888	743.699	Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1
A306_15257	364.238	743.527	40S ribosomal protein S27-like protein
A306_15259	27944.687	2342.701	Tropomyosin alpha-1 chain
A306_15325	731.031	119.149	Cell division cycle protein 20 like protein
A306_15338	9.500	71.256	Laminin subunit gamma-2
A306_15339	9.741	65.205	hypothetical protein
A306_15342	226.407	673.508	Neutrophil cytosol factor 2
A306_15348	2514.457	5693.400	Calcyclin-binding protein
A306_15361	170.792	373.916	Tyrosine-protein kinase ABL2
A306_15362	461.234	1634.112	Sterol O-acyltransferase 1
A306_15367	73.741	207.755	ADAMTS-like protein 2
A306_15401	116.213	251.945	Solute carrier family 35 member E3
A306_15432	540.707	1067.953	Transcription cofactor vestigial-like protein 4
A306_15472	273.250	125.031	Cartilage intermediate layer protein 1
A306_15483	108.544	303.493	Arrestin domain-containing protein 4
A306_15486	271.762	1011.467	Insulin-like growth factor 1 receptor
A306_15527	534.346	1005.837	Phosphatidylinositol-4-phosphate 5-kinase type-1 gamma
A306_15536	296.785	123.060	Structural maintenance of chromosomes protein 2
A306_15553	94.383	31.669	Mps one binder kinase activator-like 2B

A306_15584	3759.743	1882.741	Protein S100-A10
A306_15592	1153.839	328.458	Four and a half LIM domains protein 5
A306_15623	813.113	2021.690	Nuclear factor interleukin-3-regulated protein
A306_15626	313.680	814.507	CDC42 small effector protein 2
A306_15669	736.724	148.125	Collagen alpha-1(XXVI) chain
A306_15689	1740.695	873.125	TATA-binding protein-associated factor 2N
A306_15692	783.033	140.308	Ras-like protein family member 10B
A306_15738	5342.410	435.882	Pigment epithelium-derived factor
A306_15784	309.162	1031.596	Protein phosphatase Slingshot like protein 2
A306_15801	127.313	495.843	Centromere protein V
A306_15809	1042.591	2092.725	Tax1-binding protein 3
A306_15819	809.149	2223.325	Serine/threonine-protein kinase ULK2
A306_15862	3083.430	1641.814	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthetase 1
A306_15867	1034.696	3174.102	Nephronectin
A306_15877	221.123	66.210	Centromere-associated protein E
A306_15878	139.797	40.444	Centromere-associated protein E
A306_15902	3470.917	18768.810	Selenoprotein P
A306_15910	23.517	1.705	Nitric oxide synthase%2C brain
A306_15944	526.989	190.895	Proline dehydrogenase%2C mitochondrial
A306_15960	463.006	243.810	SH2 domain-containing protein 3C

A306_15963	2280.242	714.463	Adenylate kinase isoenzyme 1
A306_15993	1360.078	522.177	Caveolin-1
A306_16008	247.204	737.763	Dedicator of cytokinesis protein 4
A306_16043	909.408	466.736	Death-associated protein 1
A306_16067	252.537	118.085	Polyamine-modulated factor 1
A306_16077	298.166	63.027	Complement C1q tumor necrosis factor-related protein 1
A306_16093	517.013	187.036	2-amino-3-ketobutyrate coenzyme A ligase%2C mitochondrial
A306_16109	310.536	119.985	ER lumen protein retaining receptor 3
A306_16135	291.383	115.426	Protein CIP2A like protein
A306_16152	1945.086	857.228	Keratin%2C type II cytoskeletal 8
A306_16181	440.594	201.313	Ankyrin repeat domain-containing protein 6
A306_16183	357.151	773.092	Ubiquitin-conjugating enzyme E2 J1
A306_16187	125.553	296.286	hypothetical protein
Novel00001	23.071	74.696	myosin-51 [Schizosaccharomyces japonicus yFS275]>gi 530775173 gb EEB05913.2 myosin-51 [Schizosaccharomyces japonicus yFS275]
Novel00002	908.073	2398.473	myosin-51 [Schizosaccharomyces japonicus yFS275]>gi 530775173 gb EEB05913.2 myosin-51 [Schizosaccharomyces japonicus yFS275]
Novel00004	9.486	257.288	
Novel00013	412.969	886.051	protein of unknown function [Taphrina deformans PYCC 5710]
Novel00019	4709.004	2027.979	

Novel00053	32.480	2.319	
Novel00074	22.580	0.000	
Novel00110	718.843	301.101	hypothetical protein LRAMOSA03080 [Absidia idahoensis var. thermophila]
Novel00118	114.689	8.578	
Novel00143	1283.829	2258.331	Atypical/RIO/RIO1 protein kinase [Trichophyton interdigitale H6]>gi 633047314 gb KDB23829.1 Atypical/RIO/RIO1 protein kinase [Trichophyton interdigitale MR816]
Novel00147	41.231	577.498	
Novel00181	964.401	516.661	
Novel00209	1077.419	205.184	related to calmodulin-dependent protein kinase [Sporisorium reilianum SRZ2]
Novel00211	1234.689	563.878	hypothetical protein RO3G_00315 [Rhizopus delemar RA 99-880]
Novel00214	1139.630	2493.841	
Novel00219	114.666	41.824	
Novel00228	552.450	13.818	
Novel00244	566.735	189.507	hypothetical protein MVEG_08974 [Mortierella verticillata NRRL 6337]
Novel00251	598.716	114.882	hypothetical protein KAFR_0G03570 [Kazachstania africana CBS 2517]>gi 372465112 emb CCF59389.1 hypothetical protein KAFR_0G03570 [Kazachstania africana CBS 2517]
Novel00258	1160.613	2909.907	hypothetical protein SEPMUDRAFT_147966 [Sphaerulina musiva SO2202]
Novel00261	395.526	169.491	

Novel00267	549.193	288.372	Cdc15p [Rhizophagus irregularis DAOM 197198w]
Novel00282	2080.794	171.390	
Novel00283	1048.416	107.883	
Novel00290	4004.025	1979.168	hypothetical protein GLOINDRAFT_339662 [Rhizophagus irregularis DAOM 181602]>gi 595482014 gb EXX69885.1 hypothetical protein RirG_092140 [Rhizophagus irregularis DAOM 197198w]
Novel00305	49.852	5.833	
Novel00308	76.838	262.389	
Novel00333	1777.413	851.880	hypothetical protein GLOINDRAFT_43037, partial [Rhizophagus irregularis DAOM 181602]
Novel00338	750.036	241.134	
Novel00342	2173.575	262.896	
Novel00360	1831.679	4204.903	hypothetical protein HMPREF1544_03536 [Mucor circinelloides f. circinelloides 1006PhL]
Novel00388	300.114	45.090	
Novel00404	991.707	1770.274	
Novel00407	194.178	5.125	sulfate anion transporter [Mucor ambiguus]
Novel00409	288.905	68.695	
Novel00432	51.295	4.593	
Novel00433	151.724	13.023	Actin-binding FH2 domain-containing protein [Rozella allomycis CSF55]
Novel00435	715.311	348.535	
Novel00457	969.149	277.352	

Novel00462	594.274	308.880	
Novel00471	878.814	1629.330	hypothetical protein GLOINDRAFT_350013 [Rhizophagus irregularis DAOM 181602]
Novel00474	899.407	1976.055	hypothetical protein [Parasitella parasitica]
Novel00509	61.512	803.966	
Novel00511	294.478	583.410	hypothetical protein RO3G_14386 [Rhizopus delemar RA 99-880]
Novel00532	31.102	445.727	
Novel00555	1674.491	794.753	
Novel00558	202.596	775.301	hypothetical protein BATDEDRAFT_20919 [Batrachochytrium dendrobatidis JAM81]>gi 328766788 gb EGF76840.1 hypothetical protein BATDEDRAFT_20919 [Batrachochytrium dendrobatidis JAM81]
Novel00563	129.873	12.861	
Novel00569	1905.455	997.873	
Novel00589	102.322	38.149	hypothetical protein CIHG_10539 [Coccidioides immitis H538.4]
Novel00590	108.735	28.126	hypothetical protein CC85DRAFT_329204 [Trichosporon oleaginosus]
Novel00595	1181.697	583.612	hypothetical protein MVEG_01860 [Mortierella verticillata NRRL 6337]
Novel00597	446.922	1180.715	hypothetical protein MVEG_01503 [Mortierella verticillata NRRL 6337]
Novel00598	73.135	190.466	Putative cation exchanger C3A12,06c OS=Schizosaccharomyces pombe (strain 972 / ATCC 24843) GN=SPAC3A12.06c PE=3 SV=1 [Rhizoctonia solani AG-1 IB]
Novel00617	175.747	75.960	
Novel00623	223.108	864.829	

Novel00627	96.671	330.685	
Novel00646	726.327	242.983	hypothetical protein RMCBS344292_17476 [Rhizopus microsporus]
Novel00663	252.452	687.070	
Novel00673	66.133	161.924	hypothetical protein MVEG_06318 [Mortierella verticillata NRRL 6337]
Novel00694	215.751	75.773	hypothetical protein MVEG_04822 [Mortierella verticillata NRRL 6337]
Novel00736	343.138	645.587	sodium/hydrogen exchanger [Fomitiporia mediterranea MF3/22]>gi 393219782 gb EJD05269.1 sodium/hydrogen exchanger [Fomitiporia mediterranea MF3/22]
Novel00737	1321.229	2341.896	Cation/H ⁺ exchanger domain-containing protein [Rozella allomyces CSF55]
Novel00767	4025.303	95.340	
Novel00796	865.594	1638.728	
Novel00806	253.615	71.169	
Novel00822	83.636	398.994	RHTO0S01e10660g1_1 [Rhodosporidium toruloides]
Novel00857	41.276	2.361	
Novel00859	24.026	2.468	
Novel00869	2307.484	5020.751	
Novel00873	6.963	64.757	
Novel00899	1478.984	2866.166	
Novel00906	412.610	1050.445	4 family polyadenylate binding protein [Colletotrichum graminicola M1.001]>gi 310798668 gb EFQ33561.1 4 family polyadenylate binding protein [Colletotrichum graminicola M1.001]

Novel00918	133.116	4.273	
Novel00919	2444.728	903.546	
Novel00930	406.759	942.601	hypothetical protein RirG_089970 [Rhizophagus irregularis DAOM 197198w]
Novel00932	580.265	47.010	
Novel00934	361.230	51.445	
Novel00935	32.230	4.028	
Novel00939	557.349	157.411	related to allantoinase [Fusarium fujikuroi IMI 58289]>gi 829104522 gb KLO81280.1 allantoinase [Fusarium fujikuroi]>gi 829146713 gb KLP16828.1 allantoinase [Fusarium fujikuroi]
Novel00957	453.045	1465.907	hypothetical protein BATDEDRAFT_34265 [Batrachochytrium dendrobatidis JAM81]>gi 328773515 gb EGF83552.1 hypothetical protein BATDEDRAFT_34265 [Batrachochytrium dendrobatidis JAM81]
Novel00966	961.451	363.501	hypothetical protein BATDEDRAFT_36288 [Batrachochytrium dendrobatidis JAM81]>gi 328766376 gb EGF76431.1 hypothetical protein BATDEDRAFT_36288 [Batrachochytrium dendrobatidis JAM81]
Novel00967	204.520	84.330	hypothetical protein BATDEDRAFT_36288 [Batrachochytrium dendrobatidis JAM81]>gi 328766376 gb EGF76431.1 hypothetical protein BATDEDRAFT_36288 [Batrachochytrium dendrobatidis JAM81]
Novel00985	169.022	59.114	kinesin family protein [Lichtheimia corymbifera JMRC:FSU:9682]
Novel00995	6.383	61.283	
Novel00996	2496.798	1416.466	hypothetical protein CY34DRAFT_803439 [Suillus luteus UH-Slu-Lm8-n1]
Novel01005	65.752	17.832	

Novel01008	193.906	83.343	hypothetical protein, variant [Mortierella verticillata NRRL 6337]>gi 672820604 gb KFH65501.1 hypothetical protein MVEG_08978 [Mortierella verticillata NRRL 6337]
Novel01016	39.146	0.000	
Novel01017	1540.664	525.536	hypothetical protein BATDEDRAFT_14212 [Batrachochytrium dendrobatidis JAM81]>gi 328767036 gb EGF77087.1 hypothetical protein BATDEDRAFT_14212, partial [Batrachochytrium dendrobatidis JAM81]
Novel01022	6118.062	1295.921	
Novel01023	1641.316	332.785	
Novel01024	1397.623	314.502	
Novel01036	1691.057	3076.396	
Novel01050	7.354	68.482	
Novel01054	302.036	71.070	
Novel01073	891.355	212.503	
Novel01095	433.842	56.846	
Novel01104	0.693	72.705	
Novel01110	1955.613	3422.566	hypothetical protein [Podospora anserina S mat+]>gi 170946309 emb CAP73110.1 unnamed protein product [Podospora anserina S mat+]>gi 681095383 emb CDP25512.1 Putative protein similar to ECM14 of Saccharomyces cerevisiae [Podospora anserina S mat+]
Novel01122	452.029	67.372	
Novel01125	42.382	8.133	

Novel01134	2070.611	8207.164	MFS general substrate transporter [Glarea lozoyensis ATCC 20868]>gi 512199199 gb EPE28033.1 MFS general substrate transporter [Glarea lozoyensis ATCC 20868]
Novel01142	624.814	241.231	GTP-binding protein [Encephalitozoon romaleae SJ-2008]>gi 396082089 gb AFN83701.1 GTP-binding protein [Encephalitozoon romaleae SJ-2008]
Novel01143	61.355	15.448	hypothetical protein RSAG8_11481, partial [Rhizoctonia solani AG-8 WAC10335]
Novel01160	643.982	326.683	
Novel01191	51.537	422.227	hypothetical protein, variant [Exophiala mesophila]
Novel01197	1793.573	245.619	
Novel01224	40139.603	5670.396	
Novel01225	36.885	3.046	
Novel01248	271.398	62.210	
Novel01256	3193.265	1573.372	Putative RNA recognition domain-containing protein [Rhizopus microsporus]
Novel01268	669.650	2644.877	hypothetical protein BATDEDRAFT_10823, partial [Batrachochytrium dendrobatidis JAM81]>gi 328771638 gb EGF81678.1 hypothetical protein BATDEDRAFT_10823, partial [Batrachochytrium dendrobatidis JAM81]
Novel01284	7.503	131.415	pol protein [Metarhizium acridum CQMa 102]>gi 322699332 gb EFY91094.1 pol protein [Metarhizium acridum CQMa 102]
Novel01286	39.483	291.289	RNA-directed DNA polymerase from mobile element jockey-like, partial [Mucor ambiguus]

Novel01289	250.189	640.701	protein of unknown function [Taphrina deformans PYCC 5710]
Novel01290	934.278	401.150	
Novel01293	198.697	49.087	
Novel01308	1526.855	863.940	
Novel01313	27.159	148.403	
Novel01341	311.486	108.477	
Novel01342	46.251	4.360	
Novel01378	671.113	340.374	
Novel01470	47.460	176.663	
Novel01476	9.486	52.103	
Novel01491	43.421	128.948	
Novel01517	146.989	54.256	
Novel01544	66.641	15.347	
Novel01553	112.680	20.506	
Novel01564	2989.974	777.738	hypothetical protein MVEG_09545 [Mortierella verticillata NRRL 6337]
Novel01576	1698.554	736.027	
Novel01579	42.537	7.270	
Novel01590	352.483	155.311	
Novel01592	400.952	180.605	
Novel01599	33.275	1.305	SEC7-like, alpha orthogonal bundle domain-containing protein [Rozella allomyces CSF55]

Novel01606	114.483	322.784	
Novel01615	27.814	87.374	
Novel01633	923.647	125.300	
Novel01647	92.111	26.672	
Novel01648	1200.932	349.097	
Novel01651	54.326	237.273	
Novel01659	576.088	187.466	
Novel01661	93.199	1.980	RNA-directed DNA polymerase from mobile element jockey-like, partial [Mucor ambiguus]
Novel01682	7815.293	837.072	
Novel01707	138.928	410.056	
Novel01719	619.170	186.973	FK506-binding protein 2 [Cryptococcus gattii IND107]
Novel01728	12.385	65.961	
Novel01732	12767.569	6982.257	
Novel01740	82.772	877.225	Glycoside hydrolase family 15 domain-containing protein [Rozella allomyces CSF55]
Novel01741	243.599	5119.812	
Novel01743	2897.380	5038.643	hypothetical protein AURDEDRAFT_113842, partial [Auricularia delicata TFB-10046 SS5]>gi 393238702 gb EJD46238.1 hypothetical protein AURDEDRAFT_113842, partial [Auricularia delicata TFB-10046 SS5]
Novel01745	80.443	236.893	
Novel01760	44.755	9.376	hypothetical protein BATDEDRAFT_35992 [Batrachochytrium]

Novel01765	878.551	2887.449	dendrobatidis JAM81]>gi 328767358 gb EGF77408.1 hypothetical protein BATDEDRAFT_35992 [Batrachochytrium dendrobatidis JAM81] hypothetical protein BATDEDRAFT_33865 [Batrachochytrium dendrobatidis JAM81]>gi 328773687 gb EGF83724.1 hypothetical protein BATDEDRAFT_33865 [Batrachochytrium dendrobatidis JAM81] DHAL_EMENI Aldehyde dehydrogenase (ALDDH) [Aspergillus nidulans FGSC A4]>gi 146345365 sp P08157.2 ALDH_EMENI RecName: Full=Aldehyde dehydrogenase; Short=ALDDH; Short=ALDH>gi 13309884 gb AAK18072.1 AF260123_1 aldehyde dehydrogenase ALDH [Aspergillus
Novel01768	73.319	2484.303	nidulans]>gi 40747497 gb EAA66653.1 DHAL_EMENI Aldehyde dehydrogenase (ALDDH) [Aspergillus nidulans FGSC A4]>gi 259489183 tpe CBF89245.1 TPA: Aldehyde dehydrogenase (ALDDH)(ALDH)(EC 1.2.1.3) [Source:UniProtKB/Swiss-Prot;Acc:P08157] [Aspergillus nidulans FGSC A4]
Novel01789	351.613	31.352	
Novel01800	344.177	35.344	
Novel01801	5679.120	1157.408	
Novel01810	248.484	592.751	hypothetical protein BAUCODRAFT_30074 [Baudoinia compniacensis UAMH 10762]>gi 449303689 gb EMC99696.1 hypothetical protein BAUCODRAFT_30074 [Baudoinia compniacensis UAMH 10762]
Novel01815	150.721	6.098	
Novel01834	144.876	41.063	hypothetical protein WALSEDRAFT_65680 [Wallemia sebi CBS 633.66]>gi 388579777 gb EIM20097.1 hypothetical protein

			WALSEDRAFT_65680 [Wallemia sebi CBS 633.66]
			Piso0_005683 [Millerozyma farinosa CBS
Novel01859	507.685	250.997	7064]>gi 359376561 emb CCE87143.1 Piso0_005683 [Millerozyma farinosa CBS 7064]
Novel01873	1138.076	610.517	hypothetical protein CC85DRAFT_261099 [Trichosporon oleaginosus]
Novel01904	2239.852	942.850	
Novel01906	2531.930	1095.166	
Novel01913	205.537	78.162	
Novel01920	42.681	111.761	
Novel01926	52.664	11.825	
Novel01928	43.117	2.632	
			hypothetical protein BATDEDRAFT_23648 [Batrachochytrium dendrobatidis JAM81]>gi 328772184 gb EGF82223.1 hypothetical protein BATDEDRAFT_23648 [Batrachochytrium dendrobatidis JAM81]
Novel01940	202.474	399.507	
Novel01960	174.244	362.752	
Novel02007	534.853	271.406	hypothetical protein [Parasitella parasitica]
Novel02014	45.762	142.859	
Novel02025	85.099	11.405	
Novel02029	75.001	1.034	
Novel02031	60.303	10.090	
Novel02033	204.419	25.831	
Novel02034	234.675	99.969	ATP-binding cassette alpha-factor transporter STE6 [Rhizophagus

irregularis DAOM 197198w]

Novel02035	879.224	330.166	ABC transporter domain-containing protein [Rozella allomycis CSF55]
Novel02089	771.351	323.077	
Novel02091	55.658	285.872	
Novel02092	65.392	4.619	
Novel02102	8.024	78.288	
Novel02106	358.130	44.432	
Novel02112	1307.125	2688.068	
Novel02113	217.039	86.850	hypothetical protein PAXRUDRAFT_10476 [Paxillus rubicundulus Ve08.2h10]
Novel02114	135.437	37.567	
Novel02115	145.885	50.566	
Novel02135	120.448	31.042	
Novel02137	3.030	33.967	
Novel02139	513.476	1148.017	
Novel02143	86.904	383.659	
Novel02152	708.704	155.834	hypothetical protein RMatCC62417_08929 [Rhizopus microsporus]
Novel02153	560.328	141.009	calcium channel subunit cch1 [Lichtheimia corymbifera JMRC:FSU:9682]
Novel02165	139.635	19.524	
Novel02204	112.268	3.072	
Novel02205	37.511	1.344	

Novel02247	743.236	1727.554	hypothetical protein HIM_11380 [Hirsutella minnesotensis 3608]
Novel02294	1081.060	2009.535	Transforming acidic coiled-coil domain-containing protein [Rozella allomyces CSF55]
Novel02303	748.655	2258.026	
Novel02310	42.909	4.822	
Novel02319	4501.079	1774.703	
Novel02329	142.396	34.089	
Novel02344	1314.223	473.580	zinc metalloproteinase [Mitosporidium daphniae]
Novel02350	415.395	811.165	
Novel02375	204.177	72.142	
Novel02378	61.590	11.524	
Novel02409	200.869	43.642	
Novel02449	232.253	56.936	
Novel02464	651.855	210.260	
Novel02466	202.078	68.960	
Novel02469	845.730	242.549	
Novel02472	188.763	68.986	
Novel02473	42.536	8.346	
Novel02477	2217.571	1220.580	Aspartyl/asparaginyl beta-hydroxylase [Beauveria bassiana D1-5]
Novel02489	66.931	335.955	
Novel02490	53.509	187.941	

Novel02502	41.243	6.602	
Novel02530	21795.773	3689.935	
Novel02542	337.543	1057.324	hypothetical protein FGSG_13123 [Fusarium graminearum PH-1]>gi 558863501 gb ESU13584.1 hypothetical protein FGSG_13123 [Fusarium graminearum PH-1]
Novel02544	311.950	116.179	hypothetical protein S40285_00391 [Stachybotrys chlorohalonata IBT 40285]
Novel02546	606.105	165.916	
Novel02549	333.923	1846.108	Ins2-domain-containing protein [Lichtheimia corymbifera JMRC:FSU:9682]
Novel02550	75.573	19.970	
Novel02554	192.329	13.569	
Novel02558	157.650	46.336	
Novel02559	211.039	54.213	hypothetical protein GLAREA_01845 [Glarea lozoyensis ATCC 20868]>gi 512197097 gb EPE25933.1 hypothetical protein GLAREA_01845 [Glarea lozoyensis ATCC 20868]
Novel02569	6.710	37.688	
Novel02570	240.145	77.722	
Novel02582	64.670	10.866	
Novel02583	31.885	4.060	
Novel02584	75.602	14.298	
Novel02592	31.639	3.030	

Novel02593	1040.927	83.027	
Novel02595	90.230	13.330	
Novel02630	739.594	1541.039	
Novel02633	338.556	94.488	
Novel02638	377.684	771.928	
Novel02654	53.976	9.263	
Novel02680	117.862	20.128	hypothetical protein BATDEDRAFT_35354 [Batrachochytrium dendrobatidis JAM81]>gi 328769123 gb EGF79167.1 hypothetical protein BATDEDRAFT_35354 [Batrachochytrium dendrobatidis JAM81]
Novel02682	249.367	44.416	
Novel02706	276.244	647.955	hypothetical protein BATDEDRAFT_84904 [Batrachochytrium dendrobatidis JAM81]>gi 328773321 gb EGF83358.1 hypothetical protein BATDEDRAFT_84904 [Batrachochytrium dendrobatidis JAM81]
Novel02745	317.232	62.850	
Novel02752	906.829	188.157	
Novel02763	72.084	183.851	
Novel02790	7123.986	2685.475	
Novel02797	326.196	101.356	kelch repeat-containing protein [Colletotrichum higginsianum]
Novel02819	315.676	130.012	
Novel02824	833.425	2082.395	
Novel02828	23681.054	8778.399	hypothetical protein CNBN2010 [Cryptococcus neoformans var. neoformans B-3501A]>gi 50254426 gb EAL17176.1 hypothetical protein

CNBN2010 [Cryptococcus neoformans var. neoformans B-3501A]

Novel02830	246.398	689.112	ATPase, AAA-type domain-containing protein [Rozella allomyces CSF55]
Novel02849	507.926	101.316	
Novel02865	371.873	77.409	
Novel02903	2762.363	10694.903	
Novel02910	25.661	110.593	
Novel02911	218.535	535.883	
Novel02912	1772.377	3826.280	
Novel02920	5925.101	2740.849	
Novel02930	267.435	87.378	hypothetical protein [Parasitella parasitica]
Novel02931	229.083	65.309	
Novel02935	141.283	377.186	inositol phosphatase [Schizopora paradoxa]
Novel02947	3259.589	1294.621	
Novel02955	1385.536	558.352	
Novel02994	4505.199	2015.440	actin-binding protein [Kluyveromyces marxianus]
Novel02995	160.588	36.971	
Novel03009	504.341	123.519	
Novel03011	2.904	142.319	
Novel03012	4.201	140.671	
Novel03013	0.671	19.265	

Novel03019	849.218	1698.334	
Novel03057	180.851	408.374	
Novel03087	1395.293	607.463	
Novel03105	48.801	167.270	
Novel03106	15.734	70.237	
Novel03107	11611.369	2475.024	hypothetical protein MVEG_07901 [Mortierella verticillata NRRL 6337]
Novel03122	4577.649	16481.709	myosin-1 [Mucor ambiguus]
Novel03158	72.592	752.583	hypothetical protein LRAMOSA10425 [Absidia idahoensis var. thermophila]
Novel03159	27.377	276.499	Protein kinase, catalytic domain-containing protein [Rozella allomyces CSF55]
Novel03169	650.916	1175.457	
Novel03185	2412.293	1277.548	
Novel03197	771.846	1588.118	
Novel03225	456.130	120.183	hypothetical protein LRAMOSA09344 [Absidia idahoensis var. thermophila]
Novel03228	766.974	405.825	hypothetical protein GLOINDRAFT_341523 [Rhizophagus irregularis DAOM 181602]>gi 595480890 gb EXX69132.1 calcium-transporting ATPase PMC1 [Rhizophagus irregularis DAOM 197198w]
Novel03229	1424.967	729.624	hypothetical protein GLOINDRAFT_341523 [Rhizophagus irregularis DAOM 181602]>gi 595480890 gb EXX69132.1 calcium-transporting ATPase PMC1 [Rhizophagus irregularis DAOM 197198w]
Novel03280	2.602	107.166	

Novel03287	126.171	271.963	
Novel03289	1733.150	643.183	
Novel03310	154.812	1073.130	
Novel03312	752.457	305.293	
Novel03325	1660.663	423.881	
Novel03434	439.718	874.235	hypothetical protein RO3G_03394 [Rhizopus delemar RA 99-880]
Novel03447	2606.695	1491.936	lipid phosphate phosphatase 1 [Fistulina hepatica ATCC 64428]
Novel03465	26.526	94.338	hypothetical protein HETIRDRAFT_322274 [Heterobasidion irregulare TC 32-1]>gi 575064159 gb ETW79775.1 hypothetical protein HETIRDRAFT_322274 [Heterobasidion irregulare TC 32-1]
Novel03467	50.804	6.508	
Novel03479	323.006	944.079	
Novel03480	85.221	281.674	
Novel03488	786.553	1778.800	
Novel03501	1.699	135.327	
Novel03504	378.968	2215.111	Pkinase-domain-containing protein [Dacryopinax sp. DJM-731 SS1]
Novel03513	64.351	6.708	
Novel03562	367.050	775.796	
Novel03564	39.775	207.756	
Novel03585	3789.246	1492.698	hypothetical protein M404DRAFT_923547 [Pisolithus tinctorius Marx 270]

Novel03586	744.698	114.532	hypothetical protein GLOINDRAFT_256362 [Rhizophagus irregularis DAOM 181602]
Novel03598	3117.745	980.158	
Novel03600	161.918	7.177	
Novel03601	52.625	3.056	
Novel03610	10.227	47.557	
Novel03625	2549.092	801.154	
Novel03658	117.761	19.808	
Novel03659	206.948	44.872	
Novel03682	63.358	1.266	
Novel03695	3.967	70.583	
Novel03709	1908.757	955.698	hypothetical protein BATDEDRAFT_34355 [Batrachochytrium dendrobatidis JAM81]>gi 328772598 gb EGF82636.1 hypothetical protein BATDEDRAFT_34355 [Batrachochytrium dendrobatidis JAM81]
Novel03713	30.135	1.660	
Novel03714	73.270	14.624	
Novel03724	2342.195	352.499	Dit2p [Rhizophagus irregularis DAOM 197198w]
Novel03734	54.501	5.071	
Novel03746	240.755	35.384	
Novel03747	137.184	22.173	
Novel03748	217.947	30.164	

Novel03754	361.455	79.603	
Novel03757	68.080	16.896	
Novel03797	458.847	1180.780	DDHD-domain-containing protein [Aureobasidium melanogenum CBS 110374]
Novel03801	10.854	108.813	
Novel03830	2632.960	1463.469	Glutathione S-transferase A1 [Talaromyces marneffeii PM1]
Novel03860	517.661	189.144	
Novel03884	26.398	301.569	
Novel03887	204.617	467.855	
Novel03890	728.169	3714.621	hypothetical protein BATDEDRAFT_12607 [Batrachochytrium dendrobatidis JAM81]>gi 328768998 gb EGF79043.1 hypothetical protein BATDEDRAFT_12607, partial [Batrachochytrium dendrobatidis JAM81]
Novel03891	608.279	1868.416	LALA0S07e05336g1_1 [Lachancea lanzarotensis]
Novel03895	0.693	151.520	
Novel03913	68.825	173.341	
Novel03916	170.804	539.712	
Novel03917	120.121	36.189	Adenylyl cyclase class-3/4/guanylyl cyclase domain-containing protein [Rozella allomyces CSF55]
Novel03943	528.945	266.663	
Novel03952	265.245	110.507	hypothetical protein MVEG_10671 [Mortierella verticillata NRRL 6337]
Novel03966	108.202	357.516	
Novel03979	57.219	160.603	hypothetical protein V501_05529 [Pseudogymnoascus pannorum VKM

			F-4519 (FW-2642)]
Novel03990	300.454	820.923	
Novel04014	219.042	422.363	
Novel04035	923.994	444.218	hypothetical protein PaG_03325 [Pseudozyma aphidis DSM 70725]
Novel04070	2450.736	592.840	
Novel04091	121.294	445.410	hypothetical protein PV09_00424 [Verruconis gallopava]
Novel04108	32.163	4.664	
Novel04109	6.637	51.867	
Novel04110	21.716	222.134	
Novel04145	352.091	80.293	
Novel04168	3.226	27.754	
Novel04177	149.625	24.046	
Novel04183	3654.938	2077.152	
Novel04198	719.285	126.672	
Novel04201	866.297	1847.529	AaceriACR005Wp [Saccharomycetaceae sp. 'Ashbya aceri']
Novel04223	2489.297	641.835	
Novel04231	100.549	545.335	hypothetical protein GLOINDRAFT_334164 [Rhizophagus irregularis DAOM 181602]>gi 595497381 gb EXX78038.1 Ptp1p [Rhizophagus irregularis DAOM 197198w]
Novel04233	54.682	251.304	
Novel04238	65.111	6.176	

Novel04254	588.066	289.152	protein of unknown function [Taphrina deformans PYCC 5710]
Novel04287	1.262	58.776	
Novel04290	2069.254	4897.522	
Novel04312	863.029	286.756	
Novel04313	2433.469	916.364	
Novel04332	362.968	1199.890	
Novel04353	25.930	113.704	
Novel04376	17.743	97.643	
Novel04380	1.297	24.160	
Novel04394	422.829	858.425	hypothetical protein BATDEDRAFT_37041 [Batrachochytrium dendrobatidis JAM81]>gi 328769907 gb EGF79950.1 hypothetical protein BATDEDRAFT_37041 [Batrachochytrium dendrobatidis JAM81]
Novel04396	793.162	304.871	
Novel04399	198.120	11.608	
Novel04400	42.362	4.654	
Novel04417	216.120	49.863	
Novel04438	66.905	0.000	
Novel04439	77.305	0.672	
Novel04454	1980.578	910.179	
Novel04463	134.538	51.323	hypothetical protein MVEG_09988 [Mortierella verticillata NRRL 6337]
Novel04496	1327.910	3608.763	hypothetical protein RMATCC62417_03918 [Rhizopus microsporus]

Novel04515	151.781	40.723	
Novel04517	531.252	199.056	hypothetical protein BATDEDRAFT_27468 [Batrachochytrium dendrobatidis JAM81]>gi 328767712 gb EGF77761.1 hypothetical protein BATDEDRAFT_27468 [Batrachochytrium dendrobatidis JAM81]
Novel04520	209.341	2021.637	
Novel04521	17.450	225.422	
Novel04526	1257.211	420.243	
Novel04530	39.029	3.998	PTR2 family proton/oligopeptide symporter domain-containing protein [Rozella allomycis CSF55]
Novel04548	1191.782	2804.519	
Novel04562	631.929	330.685	
Novel04568	450.759	828.408	SET domain-containing protein [Rozella allomycis CSF55]
Novel04569	1374.736	2516.377	
Novel04570	1166.784	2146.003	SET domain-containing protein [Rozella allomycis CSF55]
Novel04572	41.517	142.280	
Novel04596	565.022	273.347	hypothetical protein BATDEDRAFT_14125 [Batrachochytrium dendrobatidis JAM81]>gi 328767303 gb EGF77353.1 hypothetical protein BATDEDRAFT_14125 [Batrachochytrium dendrobatidis JAM81]
Novel04637	515.651	136.330	
Novel04642	16.489	60.617	
Novel04643	4.560	32.545	
Novel04652	802.575	56.327	

Novel04658	614.553	279.210	
Novel04687	912.666	222.082	
Novel04695	186.853	71.689	
Novel04727	1308.345	4296.715	
Novel04729	64.212	14.328	
Novel04749	2836.987	634.861	
Novel04755	1988.965	1080.584	
Novel04756	715.050	240.517	
Novel04759	562.752	232.885	
Novel04770	12962.816	3456.810	
Novel04772	17005.102	4392.016	
Novel04780	106.635	32.877	AP-1 complex subunit sigma-1 OS=Schizosaccharomyces pombe (strain 972 / ATCC 24843) GN=vas2 PE=1 SV=1 [Rhizoctonia solani AG-1 IB]
Novel04813	542.491	192.000	
Novel04853	275.353	104.391	
Novel04858	539.270	124.078	
Novel04864	24.017	85.621	
Novel04879	454.922	883.951	hypothetical protein M408DRAFT_310752 [Serendipita vermifera MAFF 305830]
Novel04883	860.918	325.477	hypothetical protein RMatCC62417_06138 [Rhizopus microsporus]
Novel04885	838.635	167.361	hypothetical protein PGTG_21792 [Puccinia graminis f. sp. tritici CRL 75-36-700-3]>gi 375168683 gb EHS63716.1 hypothetical protein

PGTG_21792 [Puccinia graminis f. sp. tritici CRL 75-36-700-3]

Novel04886	413.377	9.444	
Novel04887	52.709	7.851	
Novel04889	456.952	211.702	
Novel04939	918.220	417.980	hypothetical protein GLOINDRAFT_334779 [Rhizophagus irregularis DAOM 181602]
Novel04949	32802.639	3491.866	
Novel04963	216.247	73.224	hypothetical protein HMPREF1544_06370 [Mucor circinelloides f. circinelloides 1006PhL]
Novel04984	584.589	300.103	
Novel04985	1258.353	692.684	
Novel04986	422.514	210.169	
Novel04990	406.166	117.290	hypothetical protein K443DRAFT_382732 [Laccaria amethystina LaAM-08-1]
Novel04991	9293.487	2767.635	hypothetical protein CY34DRAFT_13969 [Suillus luteus UH-Slu-Lm8-n1]
Novel05031	862.302	377.326	hypothetical protein HMPREF1544_08383 [Mucor circinelloides f. circinelloides 1006PhL]
Novel05036	592.790	240.481	hypothetical protein LRAMOSA09343 [Absidia idahoensis var. thermophila]
Novel05049	369.951	688.634	Putative NAK protein kinase [Rhizopus microsporus]
Novel05051	993.980	1847.281	
Novel05052	1031.330	551.239	hypothetical protein LRAMOSA05333 [Absidia idahoensis var. thermophila]

Novel05085	46.768	3.698	
Novel05119	70.711	15.684	
Novel05167	14.252	61.230	
Novel05179	5036.825	9295.661	hypothetical protein FG05_13962 [Fusarium graminearum]
Novel05180	691.487	1387.545	
Novel05181	4875.613	9519.125	hypothetical protein FAVG1_10977 [Fusarium avenaceum]
Novel05199	2069.116	824.992	protein-tyrosine phosphatase Pyp3 [Schizosaccharomyces pombe 972h-]>gi 417568 sp P32587.1 PYP3_SCHPO RecName: Full=Tyrosine-protein phosphatase 3; AltName: Full=Protein-tyrosine phosphatase 3; Short=PTPase 3>gi 5018 emb CAA49609.1 protein-tyrosine phosphatase [Schizosaccharomyces pombe]>gi 2330667 emb CAB11188.1 protein-tyrosine phosphatase Pyp3 [Schizosaccharomyces pombe]
Novel05210	177.271	377.313	NAD(P)-binding protein [Trichosporon oleaginosus]
Novel05217	85.021	206.125	
Novel05218	1514.195	3687.402	
Novel05230	206.947	457.040	
Novel05233	747.362	1411.621	vacuolar protein sorting-associated protein vps13 [Aspergillus flavus NRRL3357]>gi 220699145 gb EED55484.1 vacuolar protein sorting-associated protein vps13 [Aspergillus flavus NRRL3357]
Novel05251	220.472	81.023	
Novel05281	277.386	86.560	conserved hypothetical protein [Mucor ambiguus]

Novel05290	550.162	265.256	
Novel05291	556.824	279.408	
Novel05294	3786.927	2040.245	
Novel05295	361.971	178.135	
Novel05297	311.548	132.459	
Novel05298	566.900	238.574	hypothetical protein GLAREA_09982 [Glarea lozoyensis ATCC 20868]>gi 512205467 gb EPE34288.1 hypothetical protein GLAREA_09982 [Glarea lozoyensis ATCC 20868]
Novel05322	29983.366	13990.712	hypothetical protein RMATCC62417_08792 [Rhizopus microsporus]
Novel05346	740.344	301.224	
Novel05359	935.053	165.083	
Novel05361	7171.591	1183.384	
Novel05362	143.022	26.631	hypothetical protein PHLGIDRAFT_33284 [Phlebiopsis gigantea 11061_1 CR5-6]
Novel05397	920.951	443.944	
Novel05398	2230.117	1094.941	
Novel05414	85.393	11.553	
Novel05471	253.645	1104.983	hypothetical protein SETTUDRAFT_119998 [Setosphaeria turcica Et28A]>gi 482806235 gb EOA83308.1 hypothetical protein SETTUDRAFT_119998 [Setosphaeria turcica Et28A]
Novel05499	122.077	304.479	hypothetical protein PNEG_00746 [Pneumocystis murina B123]>gi 470319531 gb EMR11150.1 hypothetical protein PNEG_00746 [Pneumocystis murina B123]

Novel05500	567.625	134.714	
Novel05501	427.176	90.695	
Novel05513	3120.182	827.091	
Novel05514	893.312	357.438	
Novel05517	2228.485	5696.438	Fkh2p [Rhizophagus irregularis DAOM 197198w]
Novel05522	4827.637	2437.481	hypothetical protein GLOINDRAFT_226857 [Rhizophagus irregularis DAOM 181602]
Novel05538	886.831	464.650	
Novel05544	16.129	0.000	
Novel05554	95.430	9.496	
Novel05555	32.073	4.422	
Novel05570	1773.800	1007.550	
Novel05576	9375.740	758.143	
Novel05577	537.515	149.294	hypothetical protein RO3G_13362 [Rhizopus delemar RA 99-880]
Novel05579	13579.091	945.188	
Novel05596	5.009	33.894	
Novel05597	1.630	36.206	
Novel05642	274.992	52.453	
Novel05665	1.610	75.750	
Novel05667	353.213	1009.014	hypothetical protein VHEMI06090 [Torrubiella hemipterigena]
Novel05668	37.268	271.406	hypothetical protein NECHADRAFT_33272 [Nectria haematococca mpVI]

Novel05671	263.382	719.130	77-13-4]>gi 256727209 gb EEU40569.1 hypothetical protein NECHADRAFT_33272 [Nectria haematococca mpVI 77-13-4] PAH-inducible cytochrome P450 monooxygenase PC-PAH 3 [Coniophora puteana RWD-64-598 SS2]>gi 392592356 gb EIW81682.1 PAH-inducible cytochrome P450 monooxygenase PC-PAH 3 [Coniophora puteana RWD-64-598 SS2]
Novel05677	895.052	353.526	
Novel05678	8350.240	2850.259	
Novel05696	658.752	2064.944	Similar to Glutamine synthetase; acc. no. Q86ZU6 [Pyronema omphalodes CBS 100304]
Novel05706	38.107	105.373	
Novel05715	178.023	64.843	hypothetical protein MVEG_08778 [Mortierella verticillata NRRL 6337]
Novel05730	201.882	456.891	
Novel05738	1933.812	762.620	
Novel05744	826.709	2047.498	hypothetical protein GLOINDRAFT_344706, partial [Rhizophagus irregularis DAOM 181602]
Novel05748	2083.003	1144.477	related to alpha-actinin [Sporisorium reilianum SRZ2]
Novel05753	81.772	23.843	
Novel05754	285.954	106.127	hypothetical protein RMATCC62417_14628 [Rhizopus microsporus]
Novel05776	2102.276	3857.970	hypothetical protein E5Q_00585 [Mixia osmundae IAM 14324]>gi 658168018 gb KEI42727.1 hypothetical protein L969DRAFT_42685 [Mixia osmundae IAM 14324]
Novel05778	225.181	72.024	

Novel05802	16.622	102.374	
Novel05837	83.624	20.313	
Novel05852	82.702	223.084	
Novel05853	197.182	468.287	hypothetical protein BATDEDRAFT_92248 [Batrachochytrium dendrobatidis JAM81]>gi 328766905 gb EGF76957.1 hypothetical protein BATDEDRAFT_92248 [Batrachochytrium dendrobatidis JAM81]
Novel05868	166.101	353.202	
Novel05869	1014.729	1826.702	hypothetical protein DI09_28p130 [Mitosporidium daphniae]
Novel05876	229.419	47.583	
Novel05912	1030.263	323.533	hypothetical protein BATDEDRAFT_18312, partial [Batrachochytrium dendrobatidis JAM81]>gi 328773079 gb EGF83116.1 hypothetical protein BATDEDRAFT_18312, partial [Batrachochytrium dendrobatidis JAM81]
Novel05925	26.972	99.557	
Novel05990	548.272	233.175	
Novel06054	9.360	45.764	
Novel06055	141.285	617.819	
Novel06104	107.409	23.395	
Novel06109	65.790	285.786	
Novel06110	128.543	23.035	
Novel06123	3.030	38.641	
Novel06161	130.895	35.706	
Novel06165	2.938	51.237	

Novel06177	4.510	37.785
Novel06190	165.800	40.220
Novel06192	92.732	23.329

Table S2 Protein Network of the two groups

node1_protein	node2_protein	score	node1_name	node2_name
ENSGALP00000000518(Novel03009)	ENSGALP00000003945(A306_13700)	800	Itgb3	COL5A2
ENSGALP00000000518(Novel03009)	ENSGALP00000004024(A306_13699, Novel04772,Novel04770)	800	Itgb3	COL3A1,COL3A1,COL3A1
ENSGALP00000000518(Novel03009)	ENSGALP00000006113(Novel04687)	800	Itgb3	LAMC3
ENSGALP00000000518(Novel03009)	ENSGALP00000006240(Novel01024, Novel01023,Novel01022)	800	Itgb3	COL6A3,COL6A3,COL6A3
ENSGALP00000000518(Novel03009)	ENSGALP00000007360(A306_15338, Novel00873)	800	Itgb3	LAMC2,LAMC2
ENSGALP00000000518(Novel03009)	ENSGALP00000007904(Novel02319)	800	Itgb3	Col4a4
ENSGALP00000000518(Novel03009)	ENSGALP00000008307(Novel00282, Novel00283)	800	Itgb3	Col11a1,COL11A1
ENSGALP00000000518(Novel03009)	ENSGALP00000008717(A306_03144, A306_03143)	800	Itgb3	PARVA,PARVA
ENSGALP00000000518(Novel03009)	ENSGALP00000009093(Novel05748)	819	Itgb3	Flna
ENSGALP00000000518(Novel03009)	ENSGALP00000009873(A306_02254)	800	Itgb3	COL6A2
ENSGALP00000000518(Novel03009)	ENSGALP00000011509(A306_06080)	900	Itgb3	TNC
ENSGALP00000000518(Novel03009)	ENSGALP00000012240(A306_14911)	899	Itgb3	APBB1IP

ENSGALP00000000518(Novel03009)) ENSGALP00000012817(A306_04857)	800	Itgb3	LAMB1
ENSGALP00000000518(Novel03009)	ENSGALP00000012982(A306_10952, A306_10951)	807	Itgb3	ITGA11,ITGA11
ENSGALP00000000518(Novel03009)	ENSGALP00000012986(Novel00471)	899	Itgb3	PTPN1
ENSGALP00000000518(Novel03009)	ENSGALP00000015409(Novel04035, A306_08013)	800	Itgb3	ACTN4,ACTN1
ENSGALP00000000518(Novel03009)	ENSGALP00000015662(Novel01224)	800	Itgb3	THBS1
ENSGALP00000000518(Novel03009)	ENSGALP00000015687(A306_03482)	800	Itgb3	COL1A2
ENSGALP00000000518(Novel03009)	ENSGALP00000024147(A306_09803)	800	Itgb3	LAMA4
ENSGALP00000000518(Novel03009)	ENSGALP00000027146(A306_07666)	800	Itgb3	COL4A1
ENSGALP00000000518(Novel03009)	ENSGALP00000027157(A306_07664, A306_07665,Novel03312)	800	Itgb3	Col4a2,COL4A2,COL4A2
ENSGALP00000000518(Novel03009)	ENSGALP00000030752(A306_01184)	800	Itgb3	Chad
ENSGALP00000000518(Novel03009)	ENSGALP00000035064(Novel05555, Novel05554)	800	Itgb3	COL2A1,COL2A1
ENSGALP00000000518(Novel03009)	ENSGALP00000036103(Novel06190, Novel06192)	800	Itgb3	LAMA1,LAMA1
ENSGALP00000000518(Novel03009)	ENSGALP00000036892(A306_05415)	800	Itgb3	THBS2

ENSGALP00000000518(Novel03009)	ENSGALP00000038092(A306_09860)	899	Itgb3	FBN1
ENSGALP00000000518(Novel03009)	ENSGALP00000038147(A306_15993)	800	Itgb3	CAV1
ENSGALP00000000518(Novel03009)	ENSGALP00000038245(A306_12577)	800	Itgb3	COL5A1
ENSGALP00000000518(Novel03009)	ENSGALP00000038878(Novel05677, Novel05678)	800	Itgb3	COL6A1, COL6A1
ENSGALP00000000792(A306_09264)	ENSGALP00000003945(A306_13700)	800	SDC3	COL5A2
ENSGALP00000000792(A306_09264)	ENSGALP00000004024(A306_13699, Novel04772, Novel04770)	800	SDC3	COL3A1, COL3A1, COL3A1
ENSGALP00000000792(A306_09264)	ENSGALP00000006240(Novel01024, Novel01023, Novel01022)	800	SDC3	COL6A3, COL6A3, COL6A3
ENSGALP00000000792(A306_09264)	ENSGALP00000007904(Novel02319)	800	SDC3	Col4a4
ENSGALP00000000792(A306_09264)	ENSGALP00000008307(Novel00282, Novel00283)	800	SDC3	Col11a1, COL11A1
ENSGALP00000000792(A306_09264)	ENSGALP00000009873(A306_02254)	800	SDC3	COL6A2
ENSGALP00000000792(A306_09264)	ENSGALP00000011509(A306_06080)	834	SDC3	TNC
ENSGALP00000000792(A306_09264)	ENSGALP00000015662(Novel01224)	801	SDC3	THBS1
ENSGALP00000000792(A306_09264)	ENSGALP00000015687(A306_03482)	800	SDC3	COL1A2

ENSGALP00000000792(A306_09264)	ENSGALP00000027146(A306_07666)	800	SDC3	COL4A1
ENSGALP00000000792(A306_09264)	ENSGALP00000027157(A306_07664, A306_07665,Novel03312)	800	SDC3	Col4a2,COL4A2,COL4A2
ENSGALP00000000792(A306_09264)	ENSGALP00000035064(Novel05555, Novel05554)	800	SDC3	COL2A1,COL2A1
ENSGALP00000000792(A306_09264)	ENSGALP00000036892(A306_05415)	800	SDC3	THBS2
ENSGALP00000000792(A306_09264)	ENSGALP00000038245(A306_12577)	800	SDC3	COL5A1
ENSGALP00000000792(A306_09264)	ENSGALP00000038878(Novel05677, Novel05678)	800	SDC3	COL6A1,COL6A1
ENSGALP00000000992(A306_03827)	ENSGALP00000001201(A306_01954, A306_01953)	800	ELK4	MAPK14,MAPK14
ENSGALP00000000992(A306_03827)	ENSGALP00000014011(A306_10028)	800	ELK4	MAPK12
ENSGALP00000000992(A306_03827)	ENSGALP00000014013(A306_03380, Novel03891)	800	ELK4	Mapk11,mapk14b
ENSGALP00000001104(A306_00201)	ENSGALP00000013090(A306_11609)	929	TSKU	CHRDL1
ENSGALP00000001104(A306_00201)	ENSGALP00000026226(A306_00647)	929	TSKU	BMP5
ENSGALP00000001115(A306_05982)	ENSGALP00000038517(A306_11742)	899	PLA2G15	PLA2G4A
ENSGALP00000001135(A306_15527)	ENSGALP00000002197(A306_12613)	800	Pip5k1c	GSN

ENSGALP00000001135(A306_15527)	ENSGALP00000002441(A306_09238)	899	Pip5k1c	INPP5B
ENSGALP00000001135(A306_15527)	ENSGALP00000004061(A306_13143)	911	Pip5k1c	PIK3CD
ENSGALP00000001135(A306_15527)	ENSGALP00000008740(A306_04013)	911	Pip5k1c	PIK3CB
ENSGALP00000001135(A306_15527)	ENSGALP00000015409(Novel04035, A306_08013)	800	Pip5k1c	ACTN4,ACTN1
ENSGALP00000001201(A306_01954, A306_01953)	ENSGALP00000001453(A306_09988)	801	MAPK14,M APK14	DUSP16
ENSGALP00000001201(A306_01954, A306_01953)	ENSGALP00000014013(A306_03380, Novel03891)	901	MAPK14,M APK14	Mapk11,mapk14b
ENSGALP00000001201(A306_01954, A306_01953)	ENSGALP00000016479(A306_15201)	800	MAPK14,M APK14	PTPRR
ENSGALP00000001201(A306_01954, A306_01953)	ENSGALP00000037247(Novel00258)	832	MAPK14,M APK14	JUN
ENSGALP00000001201(A306_01954, A306_01953)	ENSGALP00000038517(A306_11742)	904	MAPK14,M APK14	PLA2G4A
ENSGALP00000001310(A306_10206)	ENSGALP00000012772(A306_14350)	783	IL10	IL18
ENSGALP00000001406(A306_14721)	ENSGALP00000023676(Novel03447)	899	Smpd2	PLPP2
ENSGALP00000001453(A306_09988)	ENSGALP00000014011(A306_10028)	800	DUSP16	MAPK12
ENSGALP00000001453(A306_09988)	ENSGALP00000014013(A306_03380, Novel03891)	800	DUSP16	Mapk11,mapk14b

ENSGALP00000002197(A306_12613)	ENSGALP00000014354(A306_02005)	800	GSN	PIKFYVE
ENSGALP00000002212(A306_07779)	ENSGALP00000005564(A306_15259, Novel02947)	899	TNNC1	TPM1,TPM4
ENSGALP00000002212(A306_07779)	ENSGALP00000008730(A306_11089)	899	TNNC1	MYL3
ENSGALP00000002212(A306_07779)	ENSGALP00000014107(Novel02903)	899	TNNC1	VIM
ENSGALP00000002212(A306_07779)	ENSGALP00000026200(A306_06894, Novel02955)	899	TNNC1	DMD,DMD
ENSGALP00000002212(A306_07779)	ENSGALP00000039262(A306_09158)	905	TNNC1	MYL6
ENSGALP00000002289(A306_14621)	ENSGALP00000016189(A306_15325)	887	PTTG1	CDC20
ENSGALP00000002289(A306_14621)	ENSGALP00000023184(Novel00930)	823	PTTG1	ANAPC4
ENSGALP00000002441(A306_09238)	ENSGALP00000004061(A306_13143)	899	INPP5B	PIK3CD
ENSGALP00000002441(A306_09238)	ENSGALP00000008740(A306_04013)	899	INPP5B	PIK3CB
ENSGALP00000002667(A306_14629)	ENSGALP00000010115(A306_08358)	791	HMMR	TPX2
ENSGALP00000002942(A306_13419)	ENSGALP00000004061(A306_13143)	900	VAV3	PIK3CD
ENSGALP00000002942(A306_13419)	ENSGALP00000008740(A306_04013)	900	VAV3	PIK3CB

ENSGALP00000002942(A306_13419)	ENSGALP00000012130(A306_01452)	800	VAV3	ITGB2
ENSGALP00000002942(A306_13419)	ENSGALP00000023439(A306_05249)	803	VAV3	PTPN6
ENSGALP00000002942(A306_13419)	ENSGALP00000037528(A306_10687)	899	VAV3	RHOQ
ENSGALP00000002963(A306_14646)	ENSGALP00000024963(A306_00455)	736	SLIT3	Robo1
ENSGALP00000003143(A306_04396)	ENSGALP00000004625(Novel04991)	899	Comt	AOC3
ENSGALP00000003302(A306_14640)	ENSGALP00000007968(A306_12501)	966	KCNMB1	KCNMA1
ENSGALP00000003737(A306_13151)	ENSGALP00000012878(A306_11600)	947	ENO1	PGK
ENSGALP00000003737(A306_13151)	ENSGALP00000034108(A306_14065, A306_12207)	993	ENO1	PKM,PKM
ENSGALP00000003737(A306_13151)	ENSGALP00000038677(A306_06154)	947	ENO1	PGAM1
ENSGALP00000003945(A306_13700)	ENSGALP00000012982(A306_10952, A306_10951)	800	COL5A2	ITGA11,ITGA11
ENSGALP00000003945(A306_13700)	ENSGALP00000017656(A306_10513)	800	COL5A2	ITGB8
ENSGALP00000004024(A306_13699, Novel04772,Novel04770)	ENSGALP00000012982(A306_10952, A306_10951)	800	COL3A1,CO L3A1,COL3 A1	ITGA11,ITGA11
ENSGALP00000004024(A306_13699,	ENSGALP00000017656(A306_10513	800	COL3A1,CO	ITGB8

Novel04772,Novel04770))		L3A1,COL3 A1		
ENSGALP00000004024(A306_13699, Novel04772,Novel04770)	ENSGALP00000018265(A306_00215)	854	COL3A1,CO L3A1,COL3 A1	SERPINH1	
ENSGALP00000004061(A306_13143)	ENSGALP00000011384(A306_15486)	815	PIK3CD	IGF1R	
ENSGALP00000004061(A306_13143)	ENSGALP00000018902(A306_12171)	800	PIK3CD	MRAS	
ENSGALP00000004061(A306_13143)	ENSGALP00000022153(Novel02819)	800	PIK3CD	TIAM2	
ENSGALP00000004061(A306_13143)	ENSGALP00000027143(Novel03310)	805	PIK3CD	Irs2	
ENSGALP00000004061(A306_13143)	ENSGALP00000036651(A306_03233)	801	PIK3CD	AKT1	
ENSGALP00000004298(A306_05070)	ENSGALP00000038464(A306_10891)	727	GK5	AQP9	
ENSGALP00000004625(Novel04991)	ENSGALP00000013377(A306_05969)	899	AOC3	ALDH7A1	
ENSGALP00000004867(A306_05698)	ENSGALP00000007879(Novel04463)	814	CDK1	CDC25A	
ENSGALP00000004867(A306_05698)	ENSGALP00000009850(A306_04809)	899	CDK1	plk1	
ENSGALP00000004867(A306_05698)	ENSGALP00000016189(A306_15325)	902	CDK1	CDC20	
ENSGALP00000004867(A306_05698	ENSGALP00000021314(A306_10379	887	CDK1	CALD1	

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ENSGALP00000004867(A306_05698)	ENSGALP00000023184(Novel00930)	899	CDK1	ANAPC4	
))				
ENSGALP00000004867(A306_05698)	ENSGALP00000039721(A306_09705)	899	CDK1	BUB1B	
))				
ENSGALP00000004972(Novel05031)	ENSGALP00000013993(Novel01160)	899	ITPR3	Itpka	
ENSGALP00000004997(A306_01772)	ENSGALP00000034947(A306_06207)	800	gna0	FZD2	
))				
ENSGALP00000005161(A306_14278)	ENSGALP00000029288(A306_04313)	835	STAT3	Lyn	
))				
ENSGALP00000005161(A306_14278)	ENSGALP00000032296(A306_13588)	740	STAT3	LEPR	
))				
ENSGALP00000005161(A306_14278)	ENSGALP00000035978(A306_10331)	898	STAT3	Pomc	
))				
ENSGALP00000005489(A306_10672)	ENSGALP00000008215(Novel04376)	890	SFRP1	WNT7A	
))				
ENSGALP00000005489(A306_10672)	ENSGALP00000034947(A306_06207)	826	SFRP1	FZD2	
))				
ENSGALP00000005564(A306_15259, Novel02947)	ENSGALP00000008730(A306_11089)	899	TPM1,TPM4	MYL3	
))				
ENSGALP00000005564(A306_15259, Novel02947)	ENSGALP00000014107(Novel02903)	899	TPM1,TPM4	VIM	
))				
ENSGALP00000005564(A306_15259, Novel02947)	ENSGALP00000015988(A306_01277)	800	TPM1,TPM4	ACTA2	
))				
ENSGALP00000005564(A306_15259, Novel02947)	ENSGALP00000021314(A306_10379)	911	TPM1,TPM4	CALD1	
))				

ENSGALP00000005564(A306_15259, Novel02947)	ENSGALP00000026200(A306_06894, Novel02955)	910	TPM1,TPM4	DMD,DMD
ENSGALP00000005564(A306_15259, Novel02947)	ENSGALP00000032964(Novel03107)	899	TPM1,TPM4	MYH10
ENSGALP00000005564(A306_15259, Novel02947)	ENSGALP00000039262(A306_09158)	899	TPM1,TPM4	MYL6
ENSGALP00000006080(Novel01940)	ENSGALP00000013640(A306_08645)	800	ADCY7	GNAI1
ENSGALP00000006080(Novel01940)	ENSGALP00000019935(A306_05587)	899	ADCY7	PDE1C
ENSGALP00000006080(Novel01940)	ENSGALP00000034108(A306_14065, A306_12207)	899	ADCY7	PKM,PKM
ENSGALP00000006113(Novel04687)	ENSGALP00000012982(A306_10952, A306_10951)	800	LAMC3	ITGA11,ITGA11
ENSGALP00000006113(Novel04687)	ENSGALP00000017656(A306_10513)	800	LAMC3	ITGB8
ENSGALP00000006240(Novel01024, Novel01023,Novel01022)	ENSGALP00000012982(A306_10952, A306_10951)	800	COL6A3,CO L6A3,COL6 A3	ITGA11,ITGA11
ENSGALP00000006240(Novel01024, Novel01023,Novel01022)	ENSGALP00000017656(A306_10513)	800	COL6A3,CO L6A3,COL6 A3	ITGB8
ENSGALP00000006620(A306_02230)	ENSGALP00000008095(A306_12490)	954	ADA	ADK
ENSGALP00000006620(A306_02230)	ENSGALP00000011923(A306_07038)	809	ADA	Cda

ENSGALP00000006639(A306_14515)	ENSGALP00000015409(Novel04035, A306_08013)	900	SPARC	ACTN4,ACTN1
ENSGALP00000006639(A306_14515)	ENSGALP000000031811(A306_00513)	899	SPARC	F5
ENSGALP00000006639(A306_14515)	ENSGALP000000036912(A306_08136)	903	SPARC	TGFB3
ENSGALP00000006680(A306_15362)	ENSGALP000000017539(A306_13538)	899	SOAT1	DHCR24
ENSGALP00000006718(A306_15003)	ENSGALP00000008111(A306_11740)	934	PTGES	PTGS2
ENSGALP00000006759(Novel05210)	ENSGALP000000024396(Novel01768)	899	Dhrs3	ALDH1A1
ENSGALP00000006860(A306_01602)	ENSGALP000000034131(A306_11957)	800	MYLK3	MYL9
ENSGALP00000006938(A306_14521)	ENSGALP000000014912(A306_01888)	893	ANXA6	S100A11
ENSGALP00000007055(A306_04922)	ENSGALP000000023849(A306_05196)	899	PPA1	ATP6V1A
ENSGALP00000007185(A306_14523)	ENSGALP000000010490(A306_02515)	899	Gpx3	GGT5
ENSGALP00000007235(A306_05711)	ENSGALP000000023676(Novel03447)	899	SGPL1	PLPP2
ENSGALP00000007265(A306_04485)	ENSGALP000000034131(A306_11957)	800	ppp1cc	MYL9
ENSGALP00000007265(A306_04485)	ENSGALP000000036651(A306_03233)	800	ppp1cc	AKT1
ENSGALP00000007360(A306_15338,	ENSGALP000000012982(A306_10952,	800	LAMC2,LA	ITGA11,ITGA11

Novel00873)	A306_10951)		MC2	
ENSGALP00000007360(A306_15338, Novel00873)	ENSGALP00000017656(A306_10513)	800	LAMC2,LA MC2	ITGB8
ENSGALP00000007879(Novel04463)	ENSGALP00000009850(A306_04809)	843	CDC25A	plk1
ENSGALP00000007904(Novel02319)	ENSGALP00000012982(A306_10952, A306_10951)	800	Col4a4	ITGA11,ITGA11
ENSGALP00000007904(Novel02319)	ENSGALP00000017656(A306_10513)	800	Col4a4	ITGB8
ENSGALP00000008095(A306_12490)	ENSGALP00000014638(A306_07099)	934	ADK	AK5
ENSGALP00000008095(A306_12490)	ENSGALP00000019935(A306_05587)	899	ADK	PDE1C
ENSGALP00000008111(A306_11740)	ENSGALP00000038517(A306_11742)	923	PTGS2	PLA2G4A
ENSGALP00000008215(Novel04376)	ENSGALP00000034947(A306_06207)	903	WNT7A	FZD2
ENSGALP00000008215(Novel04376)	ENSGALP00000036723(A306_12705)	810	WNT7A	SFRP4
ENSGALP00000008307(Novel00282, Novel00283)	ENSGALP00000012982(A306_10952, A306_10951)	800	Col11a1,COL 11A1	ITGA11,ITGA11
ENSGALP00000008307(Novel00282, Novel00283)	ENSGALP00000017656(A306_10513)	800	Col11a1,COL 11A1	ITGB8
ENSGALP00000008451(A306_15193)	ENSGALP00000024371(A306_11154)	902	CDH11	CDH2
ENSGALP00000008717(A306_03144,	ENSGALP00000012982(A306_10952,	800	PARVA,PAR	ITGA11,ITGA11

A306_03143)	A306_10951)		VA	
ENSGALP00000008717(A306_03144, A306_03143)	ENSGALP00000017656(A306_10513)	800	PARVA,PAR VA	ITGB8
ENSGALP00000008717(A306_03144, A306_03143)	ENSGALP00000039176(A306_02689)	800	PARVA,PAR VA	ACTB
ENSGALP00000008730(A306_11089)	ENSGALP00000014107(Novel02903)	899	MYL3	VIM
ENSGALP00000008730(A306_11089)	ENSGALP00000026200(A306_06894, Novel02955)	899	MYL3	DMD,DMD
ENSGALP00000008730(A306_11089)	ENSGALP00000032964(Novel03107)	999	MYL3	MYH10
ENSGALP00000008730(A306_11089)	ENSGALP00000039262(A306_09158)	902	MYL3	MYL6
ENSGALP00000008740(A306_04013)	ENSGALP00000011384(A306_15486)	820	PIK3CB	IGF1R
ENSGALP00000008740(A306_04013)	ENSGALP00000018902(A306_12171)	800	PIK3CB	MRAS
ENSGALP00000008740(A306_04013)	ENSGALP00000022153(Novel02819)	800	PIK3CB	TIAM2
ENSGALP00000008740(A306_04013)	ENSGALP00000025868(A306_06388)	899	PIK3CB	ANGPT1
ENSGALP00000008740(A306_04013)	ENSGALP00000027143(Novel03310)	807	PIK3CB	Irs2
ENSGALP00000008740(A306_04013)	ENSGALP00000036651(A306_03233)	802	PIK3CB	AKT1
ENSGALP00000009093(Novel05748)	ENSGALP00000012982(A306_10952,	800	Flna	ITGA11,ITGA11

	A306_10951)				
ENSGALP00000009093(Novel05748)	ENSGALP00000017656(A306_10513)	802	Flna	ITGB8	
ENSGALP00000009176(A306_14539)	ENSGALP00000026438(A306_12993)	800	CSF1R	SH3KBP1	
ENSGALP00000009383(Novel02849)	ENSGALP00000011581(A306_06997)	800	IL11RA	SOCS1	
ENSGALP00000009383(Novel02849)	ENSGALP00000011628(A306_07714)	803	IL11RA	SOCS3	
ENSGALP00000009383(Novel02849)	ENSGALP00000016250(A306_04873)	800	IL11RA	SOCS5	
ENSGALP00000009383(Novel02849)	ENSGALP00000023439(A306_05249)	800	IL11RA	PTPN6	
ENSGALP00000009619(Novel02790)	ENSGALP00000013111(A306_11612)	800	MGLL	Acsl4	
ENSGALP00000009697(A306_13810)	ENSGALP00000011581(A306_06997)	828	IL13RA1	SOCS1	
ENSGALP00000009697(A306_13810)	ENSGALP00000011628(A306_07714)	800	IL13RA1	SOCS3	
ENSGALP00000009697(A306_13810)	ENSGALP00000016250(A306_04873)	800	IL13RA1	SOCS5	
ENSGALP00000009697(A306_13810)	ENSGALP00000023439(A306_05249)	800	IL13RA1	PTPN6	
ENSGALP00000009850(A306_04809)	ENSGALP00000013126(Novel04145, A306_10945)	931	plk1	KIF23,KIF23	
ENSGALP00000009850(A306_04809)	ENSGALP00000016189(A306_15325)	936	plk1	CDC20	

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ENSGALP00000009850(A306_04809)	ENSGALP00000023184(Novel00930)	899	plk1		ANAPC4
)					
ENSGALP00000009873(A306_02254)	ENSGALP00000012982(A306_10952, A306_10951)	800	COL6A2		ITGA11,ITGA11
)					
ENSGALP00000009873(A306_02254)	ENSGALP00000017656(A306_10513)	800	COL6A2		ITGB8
)					
ENSGALP00000010121(Novel05754, Novel05753)	ENSGALP00000013126(Novel04145, A306_10945)	945	RACGAP1,R ACGAP1		KIF23,KIF23
ENSGALP00000010121(Novel05754, Novel05753)	ENSGALP00000014900(A306_11983)	949	RACGAP1,R ACGAP1		ECT2
ENSGALP00000010121(Novel05754, Novel05753)	ENSGALP00000028134(Novel00589, Novel00590)	826	RACGAP1,R ACGAP1		PRC1,PRC1
ENSGALP00000010490(A306_02515)	ENSGALP00000017282(Novel00251)	899	GGT5		GPX7
)					
ENSGALP00000010570(A306_03064)	ENSGALP00000023014(A306_09427)	752	IGF2		M6PR
)					
ENSGALP00000010570(A306_03064)	ENSGALP00000037367(A306_07435)	941	IGF2		IGFBP2
)					
ENSGALP00000010570(A306_03064)	ENSGALP00000037371(A306_07436)	927	IGF2		IGFBP5
)					
ENSGALP00000010774(A306_01291)	ENSGALP00000036651(A306_03233)	800	Ppp1r3c		AKT1
)					
ENSGALP00000011112(A306_02531)	ENSGALP00000038517(A306_11742)	899	PISD		PLA2G4A
)					
ENSGALP00000011384(A306_15486)	ENSGALP00000013774(A306_08641)	800	IGF1R		HGF

))				
ENSGALP00000011384(A306_15486)	ENSGALP00000026438(A306_12993)	800	IGF1R	SH3KBP1	
))				
ENSGALP00000011509(A306_06080)	ENSGALP00000012982(A306_10952, A306_10951)	800	TNC	ITGA11,ITGA11	
))				
ENSGALP00000011509(A306_06080)	ENSGALP00000017656(A306_10513)	800	TNC	ITGB8	
))				
ENSGALP00000011581(A306_06997)	ENSGALP00000032296(A306_13588)	806	SOCS1	LEPR	
))				
ENSGALP00000011628(A306_07714)	ENSGALP00000027143(Novel03310)	844	SOCS3	Irs2	
))				
ENSGALP00000011628(A306_07714)	ENSGALP00000032296(A306_13588)	941	SOCS3	LEPR	
))				
ENSGALP00000012203(A306_10821)	ENSGALP00000022990(A306_09992)	941	CCND1	CDKN1B	
))				
ENSGALP00000012240(A306_14911)	ENSGALP00000012986(Novel00471)	899	APBB1IP	PTPN1	
))				
ENSGALP00000012246(A306_12432)	ENSGALP00000024212(Novel00939)	902	Dpysl3	CRMP1	
))				
ENSGALP00000012246(A306_12432)	ENSGALP00000032328(Novel03465)	902	Dpysl3	Dpysl4	
))				
ENSGALP00000012817(A306_04857)	ENSGALP00000012982(A306_10952, A306_10951)	800	LAMB1	ITGA11,ITGA11	
))				
ENSGALP00000012817(A306_04857)	ENSGALP00000017656(A306_10513)	800	LAMB1	ITGB8	
))				
ENSGALP00000012817(A306_04857)	ENSGALP00000036103(Novel06190,	932	LAMB1	LAMA1,LAMA1	

)	Novel06192)				
ENSGALP00000012878(A306_11600)	ENSGALP00000023398(A306_05246)	945	PGK	ENO2	
))				
ENSGALP00000012878(A306_11600)	ENSGALP00000034108(A306_14065, A306_12207)	968	PGK	PKM,PKM	
))				
ENSGALP00000012878(A306_11600)	ENSGALP00000038677(A306_06154)	958	PGK	PGAM1	
))				
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000015409(Novel04035, A306_08013)	800	ITGA11,ITG A11	ACTN4,ACTN1	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000015662(Novel01224)	800	ITGA11,ITG A11	THBS1	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000015687(A306_03482)	800	ITGA11,ITG A11	COL1A2	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000017656(A306_10513)	800	ITGA11,ITG A11	ITGB8	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000024147(A306_09803)	800	ITGA11,ITG A11	LAMA4	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000027146(A306_07666)	800	ITGA11,ITG A11	COL4A1	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000027157(A306_07664, A306_07665,Novel03312)	800	ITGA11,ITG A11	Col4a2,COL4A2,COL4A2	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000030752(A306_01184)	800	ITGA11,ITG A11	Chad	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000035064(Novel05555, Novel05554)	800	ITGA11,ITG A11	COL2A1,COL2A1	
ENSGALP00000012982(A306_10952,	ENSGALP00000036103(Novel06190,	800	ITGA11,ITG	LAMA1,LAMA1	

A306_10951)	Novel06192)		A11	
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000036892(A306_05415)	800	ITGA11,ITG A11	THBS2
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000038245(A306_12577)	800	ITGA11,ITG A11	COL5A1
ENSGALP00000012982(A306_10952, A306_10951)	ENSGALP00000038878(Novel05677, Novel05678)	800	ITGA11,ITG A11	COL6A1,COL6A1
ENSGALP00000012986(Novel00471)	ENSGALP00000024371(A306_11154)	999	PTPN1	CDH2
ENSGALP00000012986(Novel00471)	ENSGALP00000027143(Novel03310)	800	PTPN1	Irs2
ENSGALP00000013090(A306_11609)	ENSGALP00000024100(A306_07225)	899	CHRDL1	FSTL1
ENSGALP00000013126(Novel04145, A306_10945)	ENSGALP00000014900(A306_11983)	836	KIF23,KIF23	ECT2
ENSGALP00000013126(Novel04145, A306_10945)	ENSGALP00000028134(Novel00589, Novel00590)	845	KIF23,KIF23	PRC1,PRC1
ENSGALP00000013640(A306_08645)	ENSGALP00000019099(Novel04526, A306_12149,A306_12148)	900	GNAI1	ADCY5,ADCY5,ADCY5
ENSGALP00000013640(A306_08645)	ENSGALP00000035978(A306_10331)	899	GNAI1	Pomc
ENSGALP00000013740(A306_01464)	ENSGALP00000022436(A306_15075)	800	TUBAL3	TUBB
ENSGALP00000013740(A306_01464)	ENSGALP00000027700(Novel00967, Novel00966)	800	TUBAL3	Dync2h1,DYNC2H1
ENSGALP00000013771(A306_11062)	ENSGALP00000026226(A306_00647)	891	BMPR2	BMP5

ENSGALP00000013771(A306_11062)	ENSGALP00000036400(A306_10086)	960	BMPR2	BMP4
ENSGALP00000014011(A306_10028)	ENSGALP00000016479(A306_15201)	800	MAPK12	PTPRR
ENSGALP00000014011(A306_10028)	ENSGALP00000037247(Novel00258)	822	MAPK12	JUN
ENSGALP00000014013(A306_03380, Novel03891)	ENSGALP00000016479(A306_15201)	800	Mapk11,map k14b	PTPRR
ENSGALP00000014013(A306_03380, Novel03891)	ENSGALP00000037247(Novel00258)	828	Mapk11,map k14b	JUN
ENSGALP00000014093(A306_07610)	ENSGALP00000026845(A306_14429)	954	CST3	CTSB
ENSGALP00000014107(Novel02903)	ENSGALP00000026200(A306_06894, Novel02955)	899	VIM	DMD,DMD
ENSGALP00000014107(Novel02903)	ENSGALP00000037247(Novel00258)	815	VIM	JUN
ENSGALP00000014107(Novel02903)	ENSGALP00000039262(A306_09158)	899	VIM	MYL6
ENSGALP00000014354(A306_02005)	ENSGALP00000015409(Novel04035, A306_08013)	800	PIKFYVE	ACTN4,ACTN1
ENSGALP00000014638(A306_07099)	ENSGALP00000019935(A306_05587)	899	AK5	PDE1C
ENSGALP00000014638(A306_07099)	ENSGALP00000026474(Novel02544)	906	AK5	RRM2
ENSGALP00000014638(A306_07099)	ENSGALP00000034108(A306_14065, A306_12207)	899	AK5	PKM,PKM
ENSGALP00000014900(A306_11983)	ENSGALP00000028134(Novel00589,	749	ECT2	PRC1,PRC1

)	Novel00590)				
ENSGALP00000015217(A306_09508)	ENSGALP00000019935(A306_05587)	902	GUCY1A1	PDE1C	
))				
ENSGALP00000015217(A306_09508)	ENSGALP00000034108(A306_14065, A306_12207)	899	GUCY1A1	PKM,PKM	
))				
ENSGALP00000015409(Novel04035, A306_08013)	ENSGALP00000017656(A306_10513)	800	ACTN4,ACTN1	ITGB8	
))				
ENSGALP00000015409(Novel04035, A306_08013)	ENSGALP00000031811(A306_00513)	899	ACTN4,ACTN1	F5	
))				
ENSGALP00000015409(Novel04035, A306_08013)	ENSGALP00000036912(A306_08136)	899	ACTN4,ACTN1	TGFB3	
))				
ENSGALP00000015409(Novel04035, A306_08013)	ENSGALP00000037975(Novel02680)	837	ACTN4,ACTN1	SSX2IP	
))				
ENSGALP00000015409(Novel04035, A306_08013)	ENSGALP00000039176(A306_02689)	835	ACTN4,ACTN1	ACTB	
))				
ENSGALP00000015662(Novel01224)	ENSGALP00000017656(A306_10513)	800	THBS1	ITGB8	
))				
ENSGALP00000015662(Novel01224)	ENSGALP00000036892(A306_05415)	902	THBS1	THBS2	
))				
ENSGALP00000015687(A306_03482)	ENSGALP00000017656(A306_10513)	800	COL1A2	ITGB8	
))				
ENSGALP00000015949(A306_00913)	ENSGALP00000037247(Novel00258)	755	ATF3	JUN	
))				
ENSGALP00000016189(A306_15325)	ENSGALP00000019493(A306_10430)	933	CDC20	MAD2L1	
))				
ENSGALP00000016189(A306_15325)	ENSGALP00000023184(Novel00930)	950	CDC20	ANAPC4	

)					
ENSGALP00000016189(A306_15325)	ENSGALP00000039721(A306_09705)	978	CDC20	BUB1B	
))				
ENSGALP00000016250(A306_04873)	ENSGALP00000032296(A306_13588)	800	SOCS5	LEPR	
))				
ENSGALP00000017297(A306_11686)	ENSGALP00000038517(A306_11742)	899	Enpp6	PLA2G4A	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000024147(A306_09803)	800	ITGB8	LAMA4	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000027146(A306_07666)	800	ITGB8	COL4A1	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000027157(A306_07664, A306_07665,Novel03312)	800	ITGB8	Col4a2,COL4A2,COL4A2	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000030752(A306_01184)	800	ITGB8	Chad	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000035064(Novel05555, Novel05554)	800	ITGB8	COL2A1,COL2A1	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000036103(Novel06190, Novel06192)	800	ITGB8	LAMA1,LAMA1	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000036892(A306_05415)	800	ITGB8	THBS2	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000038147(A306_15993)	800	ITGB8	CAV1	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000038245(A306_12577)	800	ITGB8	COL5A1	
))				
ENSGALP00000017656(A306_10513)	ENSGALP00000038878(Novel05677,	800	ITGB8	COL6A1,COL6A1	

)	Novel05678)				
ENSGALP00000017703(A306_07526)	ENSGALP00000023851(A306_09648)	919	SPC25	NDC80	
))				
ENSGALP00000018258(A306_03288)	ENSGALP00000024963(A306_00455)	899	EVL	Robo1	
))				
ENSGALP00000018398(Novel06123, A306_08714, A306_14856)	ENSGALP00000026210(Novel04399)	899	NR1D1, NR1D2, NR1D1	NR0B1	
ENSGALP00000018398(Novel06123, A306_08714, A306_14856)	ENSGALP00000030001(A306_14863)	901	NR1D1, NR1D2, NR1D1	nr2c1	
))				
ENSGALP00000019099(Novel04526, A306_12149, A306_12148)	ENSGALP00000019935(A306_05587)	899	ADCY5, ADCY5, ADCY5	PDE1C	
))				
ENSGALP00000019099(Novel04526, A306_12149, A306_12148)	ENSGALP00000034108(A306_14065, A306_12207)	899	ADCY5, ADCY5, ADCY5	PKM, PKM	
))				
ENSGALP00000019112(A306_12146)	ENSGALP00000034131(A306_11957)	829	Mylk	MYL9	
))				
ENSGALP00000019493(A306_10430)	ENSGALP00000023184(Novel00930)	800	MAD2L1	ANAPC4	
))				
ENSGALP00000019493(A306_10430)	ENSGALP00000023851(A306_09648)	722	MAD2L1	NDC80	
))				
ENSGALP00000019493(A306_10430)	ENSGALP00000028134(Novel00589, Novel00590)	720	MAD2L1	PRC1, PRC1	
))				
ENSGALP00000019493(A306_10430)	ENSGALP00000039721(A306_09705)	961	MAD2L1	BUB1B	
))				
ENSGALP00000019505(Novel04889)	ENSGALP00000039478(A306_02953)	955	P3H4	PPIB	
))				
ENSGALP00000019935(A306_05587)	ENSGALP00000027685(A306_11900)	899	PDE1C	GUCY1A2	

))				
ENSGALP00000021314(A306_10379)	ENSGALP00000032964(Novel03107)	909	CALD1	MYH10	
))				
ENSGALP00000022436(A306_15075)	ENSGALP00000036691(A306_12099)	800	TUBB	TUBA8	
))				
ENSGALP00000022436(A306_15075)	ENSGALP00000037524(A306_07240, A306_07239)	800	TUBB	TUBA1A,TUBA8	
))				
ENSGALP00000022990(A306_09992)	ENSGALP00000036651(A306_03233)	920	CDKN1B	AKT1	
))				
ENSGALP00000023184(Novel00930)	ENSGALP00000039721(A306_09705)	949	ANAPC4	BUB1B	
))				
ENSGALP00000023257(A306_09034)	ENSGALP00000036817(A306_15536)	859	NCAPG	smc2	
))				
ENSGALP00000023352(A306_13737)	ENSGALP00000039176(A306_02689)	800	Myh10	ACTB	
))				
ENSGALP00000023374(Novel00932)	ENSGALP00000038702(A306_04845)	906	Cd38	NAMPT	
))				
ENSGALP00000023398(A306_05246)	ENSGALP00000034108(A306_14065, A306_12207)	993	ENO2	PKM,PKM	
))				
ENSGALP00000023398(A306_05246)	ENSGALP00000038677(A306_06154)	947	ENO2	PGAM1	
))				
ENSGALP00000023439(A306_05249)	ENSGALP00000032296(A306_13588)	806	PTPN6	LEPR	
))				
ENSGALP00000023851(A306_09648)	ENSGALP00000038992(A306_13629)	999	NDC80	NUF2	
))				
ENSGALP00000023851(A306_09648)	ENSGALP00000039721(A306_09705)	842	NDC80	BUB1B	

))				
ENSGALP00000024212(Novel00939)	ENSGALP00000032328(Novel03465)	902	CRMP1	Dpysl4	
ENSGALP00000026200(A306_06894, Novel02955)	ENSGALP00000026399(A306_05020)	797	DMD,DMD	SNTB1	
ENSGALP00000026200(A306_06894, Novel02955)	ENSGALP00000039262(A306_09158)	899	DMD,DMD	MYL6	
ENSGALP00000026210(Novel04399)	ENSGALP00000030001(A306_14863)	900	NR0B1	nr2c1	
ENSGALP00000026474(Novel02544)	ENSGALP00000034108(A306_14065, A306_12207)	899	RRM2	PKM,PKM	
ENSGALP00000027574(Novel00957)	ENSGALP00000039176(A306_02689)	800	WASF3	ACTB	
ENSGALP00000027685(A306_11900)	ENSGALP00000034108(A306_14065, A306_12207)	899	GUCY1A2	PKM,PKM	
ENSGALP00000027700(Novel00967, Novel00966)	ENSGALP00000036691(A306_12099)	800	Dync2h1,DY NC2H1	TUBA8	
ENSGALP00000027700(Novel00967, Novel00966)	ENSGALP00000037524(A306_07240, A306_07239)	800	Dync2h1,DY NC2H1	TUBA1A,TUBA8	
ENSGALP00000031811(A306_00513)	ENSGALP00000036912(A306_08136)	899	F5	TGFB3	
ENSGALP00000032964(Novel03107)	ENSGALP00000039176(A306_02689)	800	MYH10	ACTB	
ENSGALP00000032964(Novel03107)	ENSGALP00000039262(A306_09158)	999	MYH10	MYL6	
ENSGALP00000034131(A306_11957)	ENSGALP00000039176(A306_02689)	800	MYL9	ACTB	

ENSGALP00000034947(A306_06207)	ENSGALP00000036723(A306_12705)	806	FZD2	SFRP4
ENSGALP00000036912(A306_08136)	ENSGALP00000037540(A306_06783)	813	TGFB3	DCN
ENSGALP00000038992(A306_13629)	ENSGALP00000039721(A306_09705)	783	NUF2	BUB1B

Table S3 Genes about EMCM and receptor with altered expression in the two groups

Gene id	readcount		Description
	P4	P5	
A306_00542	1294.04	370.98	THBQ3 thrombospondin 3
A306_01184	1655.57	221.21	CHAD chondroadherin
A306_02254	11861.25	2642.01	COL6A2 collagen, type VI, alpha 2
A306_02689	46899.49	23336.84	ACTB beta-actin
A306_02883	280.40	128.47	FNDC5 Fibronectin type III domain-containing protein 5
A306_03143	363.57	158.42	PARVA parvin, alpha
A306_03144	246.76	105.45	PARVA parvin, alpha
A306_03482	87034.63	8371.33	COL1A2; collagen, type I, alpha 2
A306_03857	633.15	285.30	PPP1R12B protein phosphatase 1, regulatory subunit 12B
A306_04857	2966.46	1476.92	LAMB1 laminin, beta 1
A306_05096	1132.04	333.18	NID2 Nidogen-2
A306_05415	2660.13	1004.02	THBQ2 thrombospondin 2
A306_05463	11767.97	1695.86	NID1 Nidogen-1
A306_06080	1447.07	635.47	TNC tenascin C
A306_07664	3126.63	1323.40	COL4A2 collagen, type IV, alpha 2

A306_07665	1896.90	829.74	COL4A2 collagen, type IV, alpha 2
A306_07666	30529.87	8009.42	COL4A1 collagen, type IV, alpha 1
A306_08013	10110.54	3768.16	ACTN1 actinin, alpha 1
A306_09803	1698.27	879.29	LAMA4 laminin, alpha 4
A306_10821	1281.05	442.54	CCND1 cyclin D1
A306_10951	471.09	174.71	ITGA11 integrin, alpha 11
A306_10952	1390.63	473.75	ITGA11 integrin, alpha 11
A306_11957	22222.18	2616.22	MYL9 myosin light chain 9
A306_12146	17708.08	3527.85	MYLK myosin light chain kinase
A306_12577	7205.17	1584.67	COL5A1 collagen, type V, alpha 1
A306_12718	282.09	112.26	COL11A1 collagen, type XI, alpha 1
A306_13161	1361.12	659.94	AGRN agrin
A306_13699	3370.34	874.68	COL3A1Collagen alpha-1(III) chain
A306_13700	12145.48	2867.55	COL5A2 collagen, type V, alpha 2
A306_14220	14826.34	1298.45	COL1A1 Collagen alpha-1(I) chain
A306_14629	215.26	76.36	HMMR hyaluronan-mediated motility receptor
A306_15993	1360.08	522.18	CAV1 Caveolin-1
Novel00282	2080.79	171.39	COL11A1 collagen, type XI, alpha 1
Novel00283	1048.42	107.88	COL11A1 collagen, type XI, alpha 1
Novel01022	6118.06	1295.92	COL6A3 collagen, type VI, alpha 3

Novel01023	1641.32	332.79	COL6A3 collagen, type VI, alpha 3
Novel01024	1397.62	314.50	COL6A3 collagen, type VI, alpha 3
Novel01224	40139.60	5670.40	THBQ1 thrombospondin 1
Novel02319	4501.08	1774.70	COL4A4 collagen, type IV, alpha 4
Novel03009	504.34	123.52	ITGB3 integrin, beta 3
Novel03312	752.46	305.29	COL4A2 collagen, type IV, alpha 2
Novel04035	923.99	444.22	ACTN4 Alpha-actinin-4
Novel04687	912.67	222.08	LAMC3 laminin, gamma 3
Novel04984	584.59	300.10	ITGA3 integrin, alpha 3
Novel04985	1258.35	692.68	ITGA3 integrin, alpha 3
Novel04986	422.51	210.17	ITGA3 integrin, alpha 3
Novel05297	311.55	132.46	COL27A1 collagen, type XXVII, alpha 1
Novel05298	566.90	238.57	COL27A1 collagen, type XXVII, alpha 1
Novel05554	95.43	9.50	COL2A1 collagen, type II, alpha 1
Novel05555	32.07	4.42	COL2A1 collagen, type II, alpha 1
Novel05677	895.05	353.53	COL6A1 collagen, type VI, alpha 1
Novel05678	8350.24	2850.26	COL6A1 collagen, type VI, alpha 1
Novel05748	2083.00	1144.48	FLNA Filamin-A
A306_09860	6634.69	2114.71	FBN1Fibrillin-1
A306_08013	10110.54	3768.16	ACTN1Alpha-actinin-1

Novel04035	923.99	444.22	ACTN4hypothetical protein
A306_03143	363.57	158.42	PARVAAalpha-parvin
A306_05415	2660.13	1004.02	THBS2Thrombospondin-2
Novel01224	40139.60	5670.40	THBS1Thrombospondin-1
Novel06192	92.73	23.33	LAMA1 laminin, alpha 1
A306_09264	705.87	327.21	SDC3 Syndecan-3

Table S4 Genes about follicular maturation and ovulation with altered expression in the two groups

Gene id	readcount		Description
	P4	P5	
A306_02528	3220.48	1325.75	YWHAH 14-3-3 protein eta
A306_04355	832.42	436.79	Tfdp1 Transcription factor Dp-1
A306_04809	255.80	78.48	plk1 Serine/threonine-protein kinase PLK1
A306_05698	564.54	190.72	CDK1 Cell division control protein 2 like protein
A306_08136	1237.15	276.90	TGFB3 Transforming growth factor beta-3
A306_08645	1090.51	590.42	GNAI1 Guanine nucleotide-binding protein G(i)%2C alpha-1 subunit
A306_09705	308.16	134.89	BUB1B Mitotic checkpoint serine/threonine-protein kinase BUB1 beta
A306_10430	149.42	42.84	MAD2L1 Mitotic spindle assembly checkpoint protein MAD2A
A306_10821	1281.05	442.54	CCND1 G1/S-specific cyclin-D1
A306_11773	202.89	52.20	CCNB3 G2/mitotic-specific cyclin-B3
A306_12148	164.32	58.77	ADCY5 Adenylate cyclase type 5
A306_12149	282.30	106.52	ADCY5 Adenylate cyclase type 5
A306_14621	358.03	105.55	PTTG1 Securin
A306_15325	731.03	119.15	CDC20 Cell division cycle protein 20 like protein
Novel03917	120.12	36.19	Adcy3 Adenylyl cyclase class-3/4/guanylyl cyclase domain-containing protein
Novel04463	134.54	51.32	CDC25 cell division cycle 25A

Novel04526	1257.21	420.24	ADCY5 adenylate cyclase 5
Novel05031	862.30	377.33	ITPR3 inositol 1,4,5-trisphosphate receptor, type 3
Novel04145	352.09	80.29	KIF23 kinesin family member 23
A306_11983	266.04	74.00	ECT2 epithelial cell transforming sequence 2 oncogene
Novel05753	81.77	23.84	RACGAP1 Rac GTPase activating protein 1
Novel00589	102.32	38.15	PRC1; protein regulator of cytokinesis 1
A306_13629	187.24	63.24	Nuf2 Kinetochose protein
A306_09648	187.05	79.74	NDC80 Kinetochose protein NDC80 like protein
A306_07526	353.16	117.12	SPC25 Kinetochose protein

Table S5 Genes about vascular smooth muscle contraction with altered expression in the two groups

Gene id	readcount		Description
	P4	P5	
A306_01277	62386.98	1451.19	ACTA2 -Actin%2C aortic smooth muscle
A306_03857	633.15	285.30	PPP1R12B Protein phosphatase 1 regulatory subunit 12B
A306_04098	26743.46	2084.78	ACTG2 Actin%2C gamma-enteric smooth muscle
A306_09158	14773.18	4046.21	MYL6 Myosin light polypeptide 6
A306_09508	310.52	105.73	GUCY1A1 Guanylate cyclase soluble subunit alpha-3
A306_10379	18588.78	4603.54	CALD1 Caldesmon
A306_11900	453.69	159.67	GUCY1A2 Guanylate cyclase soluble subunit alpha-2
A306_11957	22222.18	2616.22	MYL9 Myosin regulatory light polypeptide 9
A306_12146	17708.08	3527.85	Mylk Myosin light chain kinase%2C smooth muscle
A306_12501	772.58	299.79	KCNMA1 Calcium-activated potassium channel subunit alpha-1
A306_14640	3744.54	325.25	KCNMB1 Putative calcium-activated potassium channel subunit beta
Novel00646	726.33	242.98	CACNA1 voltage-dependent calcium channel L type alpha-1C
Novel03917	120.12	36.19	Adcy3 Adenylyl cyclase class-3
A306_13737	9538.39	3142.91	Myh10 Myosin-10
A306_11089	95.46	7.83	MYL3 Myosin light chain 1%2C cardiac muscle
A306_12146	17708.08	3527.85	Mylk Myosin light chain kinase%2C smooth muscle

Novel04526	1257.21	420.24	ADCY5 Adenylate cyclase type 5
Novel05031	862.30	377.33	ITPR3 inositol 1,4,5-triphosphate receptor type 3

Table S6 Genes about tissue degeneration with altered expression in the two groups

Gene id	readcount		Description
	P4	P5	
A306_01954	798.16	1538.52	MAPK14 mitogen-activated protein kinase 14
A306_03233	1191.51	2396.14	AKT1 kinase-transforming protein 1
A306_03380	208.14	661.31	MK11Mitogen-activated protein kinase 11
A306_03541	212.36	440.47	CLN5 Ceroid-lipofuscinosis neuronal protein 5
A306_03960	227.85	518.12	MAPK8 mitogen-activated protein kinase 8
A306_04013	543.93	1089.71	PIK3CB phosphatidylinositol-4,5-bisphosphate 3-kinase
A306_05359	1341.09	5310.57	NPC1 Niemann-Pick C1 protein
A306_05982	245.78	785.88	PLA2G15 Group XV phospholipase A2
A306_07365	3504.30	34502.68	CATL1Cathepsin L1
A306_07446	298.19	977.10	SLC11A1 solute carrier family 11
A306_08462	1322.44	3808.52	CTSZ cathepsin Z
A306_08999	95.49	312.53	TLR1 toll-like receptor 1
A306_09266	869.57	2143.21	LAPTM5 lysosomal protein transmembrane 5
A306_09356	356.22	1998.39	BNIP3 BCL2/adenovirus E1B 19 kDa protein-interacting protein 3-like
A306_09427	1945.76	3535.14	M6PR mannose-6-phosphate receptor
A306_09992	1095.66	2921.87	CDKN1B Cyclin-dependent kinase inhibitor 1B

A306_10028	116.56	266.60	MAPK12 mitogen-activated protein kinase 12
A306_10206	3.54	50.15	IL10 interleukin 10
A306_10370	117.95	268.77	SETD7 Histone-lysine N-methyltransferase
A306_10929	762.09	1550.25	CTSH cathepsin H
A306_11986	322.88	837.87	TNFSF10 necrosis factor ligand superfamily member 10
A306_12005	1352.65	2519.06	CTSC cathepsin C
A306_12688	110.19	327.66	TLR7 toll-like receptor 7
A306_13000	1320.24	3740.77	CTSK cathepsin K
A306_13143	173.66	416.89	PIK3CD phosphatidylinositol-4,5-bisphosphate 3-kinase
A306_13266	310.01	1095.40	BCL6 B-cell lymphoma 6 protein
A306_13600	383.89	958.97	GADD45A growth arrest and DNA-damage-inducible
A306_14278	2363.61	5795.52	STAT3 signal transducer and activator of transcription 3
A306_14429	8076.55	23767.80	CTSB cathepsin B
A306_15486	271.76	1011.47	IGF1R insulin-like growth factor 1 receptor
Novel00258	1160.61	2909.91	JUN jun proto-oncogene
Novel03310	154.81	1073.13	IRQ2 insulin receptor substrate 2
