

Table S1: Characteristic of 18 genes enriched in Gene Ontologies (GO) in the category of biological process

No.	Gene Symbol Gene Name	PANTHER Family/Subfamily	PANTHER Protein Class	log2 Ratio	pValue	Adjusted P value
1	CPE Carboxypeptidase E	CARBOXYPEPTIDASE E (PTHR11532:SF59)	metalloprotease	1.107	2.13E-07	0.001172
2	KSR1 Kinase suppressor of Ras 1	KINASE SUPPRESSOR OF RAS 1 (PTHR23257:SF413)	non-receptor serine/threonine protein kinase non-receptor tyrosine protein kinase	0.8648	9.15E-06	0.01909
3	RASD1 Dexamethasone- induced Ras-related protein 1	DEXAMETHASONE-INDUCED RAS-RELATED PROTEIN 1 (PTHR24070:SF255)	small GTPase	1.605	1.04E-05	0.01909
4	ADCY3 Adenylate cyclase type 3	ADENYLATE CYCLASE TYPE 3 (PTHR11920:SF291)	adenylate cyclase guanylate cyclase	0.8997	1.29E-05	0.02012
5	DUSP4 Dual specificity protein phosphatase 4	DUAL SPECIFICITY PROTEIN PHOSPHATASE 4 (PTHR10159:SF111)	-	1.297	1.42E-05	0.02012
6	PDE4D cAMP-specific 3',5'- cyclic phosphodiesterase 4D	CAMP-SPECIFIC 3',5'-CYCLIC PHOSPHODIESTERASE 4D (PTHR11347:SF91)	phosphodiesterase	1.083	1.47E-05	0.02012
7	PLXNA4 Plexin-A4	PLEXIN-A4 (PTHR22625:SF34)	tyrosine protein kinase receptor signaling molecule protein kinase	1.232	2.43E-05	0.02859
8	CCL14 C-C motif chemokine 14	C-C MOTIF CHEMOKINE 14 (PTHR12015:SF110)	chemokine	1.212	3.10E-05	0.03001

9	DMD Dystrophin	DYSTROPHIN (PTHR11915:SF261)	non-motor actin binding protein	0.9328	3.29E-05	0.03006
10	AGT Angiotensinogen	ANGIOTENSINOGEN (PTHR11461:SF13)	serine protease inhibitor	1.732	6.87E-05	0.05489
11	SHC2 SHC-transforming protein 2	SHC-TRANSFORMING PROTEIN 2 (PTHR10337:SF5)	signaling molecule	1.574	7.00E-05	0.05489
12	SFRP1 Secreted frizzled- related protein 1	SECRETED FRIZZLED- RELATED PROTEIN 1 (PTHR11309:SF87)	signaling molecule G-protein coupled receptor	0.953	7.41E-05	0.05551
13	LMOD1 Leiomodin-1	LEIOMODIN-1 (PTHR10901:SF5)	non-motor actin binding protein	1.02	0.000143	0.09593
14	CRISPLD2 Cysteine-rich secretory protein LCCL domain- containing 2	CYSTEINE-RICH SECRETORY PROTEIN LCCL DOMAIN- CONTAINING 2 (PTHR10334:SF64)	defense/immunity protein	1.631	0.000146	0.09593
15	NTN1 Netrin-1	NETRIN-1 (PTHR10574:SF219)	receptor extracellular matrix linker protein	1.48	0.000154	0.09774
16	IGF1 Insulin-like growth factor I	INSULIN-LIKE GROWTH FACTOR I (PTHR11454:SF4)	growth factor peptide hormone	1.159	0.000195	0.1009
17	NTRK2 BDNF/NT-3 growth factors receptor	BDNF/NT-3 GROWTH FACTORS RECEPTOR (PTHR24416:SF136)	-	1.176	0.000195	0.1009
18	PKDCC Protein kinase domain-containing protein, cytoplasmic	PROTEIN KINASE DOMAIN- CONTAINING PROTEIN, CYTOPLASMIC (PTHR26392:SF77)	non-receptor serine/threonine protein kinase	0.9649	0.000196	0.1009