

Supplementary Table 3: Upregulated Genes D13 vs D0, fractionation analysis

Gene names	Protein names	-LOG(P-value)	log ₂ (ratio)	N: peptides	N: Seq. cov. [%]	N: Mol. weight [kDa]
S100g	Protein S100-G	3.63	5.16	39	39	9
Ca1	Carbonic anhydrase 1	3.31	4.49	42.1	42	28
Myom2	Myomesin 2	1.89	3.49	13	13	165
Maob	Amine oxidase [flavin-containing] B	1.60	3.47	2.9	3	58
Jsrp1	Junctional Sarcoplasmic Reticulum Protein 1	1.48	3.28	25	25	37
Glb1l2	Beta-galactosidase	2.69	3.06	13.7	14	74
Dcn	Decorin	1.40	3.05	18	18	40
Cmtm3	CKLF-like MARVEL transmembrane domain-containing	1.31	2.98	8.2	8	20
Tceal5	Transcription elongation factor A protein-like 5	2.95	2.72	39	39	22
Abca1	ATP binding cassette subfamily A member 1	2.10	2.67	6	6	254
Rab3a	Ras-related protein Rab-3A	2.06	2.64	14	14	25
Rps6kb2	Ribosomal protein S6 kinase	2.48	2.62	4.3	3	54
Rnf170	E3 ubiquitin-protein ligase	1.84	2.61	16	16	30
Wnk3	WNK lysine deficient protein kinase 3	2.77	2.61	1.5	1	186
Uchl1	Ubiquitin carboxyl-terminal hydrolase isozyme L1	3.42	2.51	52	52	25
Myl6b	Myosin light chain 6B	4.00	2.48	75.8	70	23
Add3	Gamma-adducin	1.68	2.48	23	23	75
Cxcl12	C-X-C motif chemokine ligand 12	2.45	2.47	33.7	34	10
Prune2	Protein prune homolog 2	1.76	2.46	7	7	37
Spp1	Osteopontin	1.83	2.45	12.3	12	35
Hsd17b8	Estradiol 17-beta-dehydrogenase 8	2.31	2.44	29	29	27
S100a13	S100 calcium binding protein A13	3.40	2.39	31.6	32	11
Lym1	LYR motif-containing protein 1	2.12	2.38	18	18	14
Vsn1	Visinin-like protein 1	2.06	2.21	31.4	31	22
Acsl3	Long-chain-fatty-acid--CoA ligase 3	4.05	2.17	54	54	80

Upregulated Genes D13 vs D0, fractionation analysis, cont

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Msln	Mesothelin	2.24	2.10	6	6	69
Gm2a	Ganglioside GM2 activator precursor	4.04	2.04	28.6	29	22
Bdh1	D-beta-hydroxybutyrate dehydrogenase, mitochondrial	2.66	2.04	43	43	38
Mettl7a	methyltransferase like 7A	2.46	2.04	23.8	24	28
Gcat	glycine C-acetyltransferase	2.98	2.02	25	25	45
Myl1	Myosin light chain 1/3, skeletal muscle isoform	2.67	2.01	50.8	44	21
Fxn	Frataxin, mitochondrial	3.69	1.98	34	34	23
Isca1	Iron-sulfur cluster assembly 1 homolog, mitochondrial	2.24	1.96	31	31	14
Psmb9	Proteasome subunit beta type-9	2.38	1.94	9	9	23
Arg2	Arginase	2.10	1.94	16.4	16	39
Rbm24	an RNA-binding protein and a target of p53	2.11	1.94	20	20	25
Rtn4	Reticulon-4	3.43	1.93	61	45	126
Lpcat3	Lysophospholipid acyltransferase 5	2.84	1.93	18	18	56
Col8a1	Collagen alpha-1(VIII) chain precursor	4.34	1.87	27.2	27	74
Stbd1	Starch-binding domain-containing protein 1	3.01	1.76	50	50	35
Cd81	Tetraspanin;CD81 antigen	3.94	1.75	25	25	26
Ankrd1	Ankyrin repeat domain-containing protein 1	4.03	1.73	44	44	36
Fas	Tumor necrosis factor receptor superfamily member 6	3.47	1.66	12.3	12	37
Dhcr7	7-dehydrocholesterol reductase	3.62	1.64	11	11	54
Fdft1	Squalene synthase	3.78	1.64	28.4	28	48
Dcakd	Dephospho-CoA kinase domain-containing protein	4.85	1.63	47	47	27
Hprt1	Hypoxanthine-guanine phosphoribosyltransferase	3.63	1.63	77.5	78	24
Mgmt	Methylated-DNA--protein-cysteine methyltransferase	4.09	1.61	45	45	22
Lipa	Lipase	3.81	1.60	36.3	36	45
Itga3	Integrin alpha 3	4.49	1.58	30	30	117

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Lrba	Lipopolysaccharide-responsive and beige-like anchor protein	4.19	1.56	16	16	310
Rfk	Riboflavin kinase	3.90	1.55	63.2	63	17
Ca3	Carbonic anhydrase 3	4.38	1.53	87	87	29
Ehd4	EH domain-containing protein 4	4.72	1.48	65.4	57	61

Downregulated Genes D13 vs D0, fractionation analysis, cont.

Gene names	Protein names	-LOG(P-value)	log ₂ (ratio)	N: peptides	N: Seq. cov. [%]	N: Mol. weight [kDa]
Sun2	SUN domain-containing protein 2	3.64	-1.56	30	30	82
Smoc1	SPARC related modular calcium binding 1	3.47	-1.62	17	17	50
Mcm2	DNA helicase	3.91	-1.66	24	24	102
Sdc2	Syndecan;Syndecan-2	4.61	-1.71	29.4	29	23
Cav2	Caveolin	2.99	-1.73	11	11	18
Frg1	Facioscapulohumeral muscular dystrophy region gene-1	2.67	-1.75	24.8	25	29
Lig3	DNA ligase	5.36	-1.78	13	13	105
Hmg1l1	High mobility group protein B1	3.40	-1.79	37.6	30	25
Cdk1	Cyclin-dependent kinase 1	2.38	-1.81	46	42	34
Cryab	Alpha-crystallin B chain	4.52	-1.82	70.3	70	20
Smtn	Smoothelin	4.46	-1.82	47	46	100
Srsf4	Serine/arginine-rich splicing factor 4	3.41	-1.83	12.1	12	56
Gli3	Transcriptional activator GLI3	2.41	-1.84	3	3	172
Tm9sf1	Transmembrane 9 superfamily member 1	2.77	-1.86	7	7	67
Cdkn2c	cyclin-dependent kinase inhibitor 2C	2.23	-1.87	17	17	18
Trps1	TRPS1 transcriptional repressor GATA binding 1	4.31	-1.89	8	8	141
Hmgb3	High mobility group protein B3	2.76	-1.91	17	17	23
Mcm7	DNA helicase	2.35	-1.94	16.6	17	81
Ccdc9	Coiled-coil domain-containing protein 9	2.20	-1.95	7	7	66
Cystm1	cysteine rich transmembrane module containing 1	2.77	-1.96	10.9	11	11
Adamtsl3	ADAMTS-like protein 3 precursor	3.81	-2.02	13	13	187
Ctbp2	C-terminal-binding protein 2	3.75	-2.07	14.6	15	49
Smc2	Structural maintenance of chromosomes protein	3.69	-2.08	20	20	134
Tax1bp3	Tax1-binding protein 3	1.97	-2.08	21.4	21	11
Ubr7	ubiquitin protein ligase E3 component n-recognin 7	2.20	-2.12	12	12	48

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Stmn1	Stathmin	3.75	-2.14	52	46	17
Fst	Follistatin	3.92	-2.16	34	34	38
Pak3	Serine/threonine-protein kinase	2.04	-2.20	16	16	61
Pold3	DNA polymerase delta subunit 3	2.56	-2.22	7.6	8	51
Lyn	Tyrosine-protein kinase Lyn	2.06	-2.29	12	12	56
Ncbp2	Nuclear cap-binding protein subunit 2	3.01	-2.33	39	39	18
Arf2	ADP-ribosylation factor 2	1.55	-2.37	15.5	16	21
Plin4	Perilipin-4	2.09	-2.38	29	29	141
Trip13	Pachytene checkpoint protein 2 homolog	3.14	-2.39	16.4	16	48
Wisp1	WNT1-inducible-signaling pathway protein 1	1.74	-2.41	16	16	41
Mcm3	DNA helicase	2.41	-2.44	44.5	45	92
Pik3r2	Phosphatidylinositol 3-kinase regulatory subunit beta	2.20	-2.53	4	4	81
Ncaph	Condensin complex subunit 2	1.90	-2.56	21.7	22	82
S100a4	Protein S100-A4	2.39	-2.57	43	43	12
Aqp1	Aquaporin-1	2.09	-2.61	13.4	13	29
Hist1h1b	Histone H1.5	2.30	-2.62	18	18	23
Cggbp1	CGG triplet repeat binding protein 1	1.85	-2.62	28.1	28	19
Mcm6	DNA helicase	2.53	-2.67	37	37	93
Adam19	ADAM metalloproteinase domain 19	3.61	-2.69	10.7	11	101
Armc1	Armadillo repeat-containing protein 1	5.05	-2.86	19	19	31
Rnasel	ribonuclease L	2.98	-3.08	7.3	7	83
Hmgb2	High mobility group protein B2	4.51	-3.08	22	22	24
Rnf219	RING finger protein 219	1.32	-3.11	3.9	4	80
Mcm5	DNA helicase	3.79	-3.14	23	23	82
Parp4	Poly [ADP-ribose] polymerase 4	1.19	-3.26	3.6	2	189
Farp2	FERM, RhoGEF and pleckstrin domain-containing protein 2	2.11	-3.48	5	5	121
Mcm4	minichromosome maintenance complex component 4	2.19	-3.50	25.9	25	97
Actg2	Actin, gamma-enteric smooth muscle	1.29	-3.89	9	9	42
Anks1a	Ankyrin repeat and SAM domain-containing protein 1A	3.55	-4.11	2.7	3	122