

Table S2. 222 genes differentially expressed between human fetal skeletal muscle SP and MP cells

Gene Name	Unique Gene Symbol	Unique Entrez Gene ID	Number of Repeats	Affymetrix Probe No.	Average LG Fold Change SP/MP
tissue factor pathway inhibitor 2	TFPI2	7980	2	209277_at // 209278_s_at	-1.059400// -2.072100
metallothionein 1X	MT1X	4501	2	204326_x_at // 208581_x_at	-1.060000 // -1.768800
proteasome (prosome, macropain) activator subunit 3 (PA28 γ ; Ki)	PSME3	10197	2	200987_x_at // 209853_s_at	-1.071700// -1.097500
MICAL-like 1	MICAL-L1	85377	2	221779_at // 55081_at	-1.362100// -1.243000
tropomyosin 1 (α)	TPM1	7168	3	206116_s_at // 210986_s_at // 210987_x_at	-1.536600// -1.171200 // -1.558200
CD47 antigen (Rh-related antigen, integrin-associated signal transducer)	CD47	961	2	211075_s_at // 213857_s_at	-1.577700// -1.332800
metallothionein 2A	MT2A	4502	1	212185_x_at	-1.6604
gremlin 1, cysteine knot superfamily, homologue (<i>Xenopus laevis</i>)	GREM1	26585	1	218468_s_at	-1.6252
serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	SERPINE1	5054	1	202628_s_at	-1.6250
ADP-ribosylation factor 3	ARF3	377	1	200011_s_at	-1.5278
plasminogen activator, urokinase receptor	PLAUR	5329	1	210845_s_at	-1.5263
DIRAS family, GTP-binding RAS-like 3	DIRAS3	9077	1	215506_s_at	-1.4773
dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex)	DLAT	1737	1	211150_s_at	-1.4619
ribonucleotide reductase M2 polypeptide	RRM2	6241	1	209773_s_at	-1.4341
pyruvate dehydrogenase (lipoamide) β	PDHB	5162	1	208911_s_at	-1.4188
ZW10 interactor	ZWINT	11130	1	204026_s_at	-1.4180
neuropilin 1	NRP1	8829	1	212298_at	-1.4083
pentraxin-related gene, rapidly induced by IL-1 β	PTX3	5806	1	206157_at	-1.3735
tenascin C (hexabrachion)	TNC	3371	1	201645_at	-1.3626
LIM domain only 4	LMO4	8543	1	209205_s_at	-1.3524
Ras suppressor protein 1	RSU1	6251	1	201980_s_at	-1.3378
transforming growth factor, β -induced, 68 kD	TGFBI	7045	1	201506_at	-1.3232
coenzyme Q2 homologue, prenyltransferase (yeast)	COQ2	27235	1	213379_at	-1.3110
tropomyosin 4	TPM4	7171	1	212481_s_at	-1.3068

programmed cell death 8 (apoptosis-inducing factor)	PDCD8	9131	1	205512_s_at	-1.3058
SH3 domain binding glutamic acid-rich protein like 3	SH3BGRL3	83442	1	221269_s_at	-1.2894
LIM domain containing preferred translocation partner in lipoma	LPP	4026	1	202822_at	-1.2745
replication factor C (activator 1) 4, 37 kD	RFC4	5984	1	204023_at	-1.2730
CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32, and G344)	CD59	966	1	200984_s_at	-1.2508
EGFR-coamplified and overexpressed protein	ECOP	81552	1	208091_s_at	-1.2328
MCM4 minichromosome maintenance deficient 4 (<i>S. cerevisiae</i>)	MCM4	4173	1	222037_at	-1.2204
signal sequence receptor, α (translocon-associated protein α)	SSR1	6745	1	200889_s_at	-1.2203
ectonucleoside triphosphate diphosphohydrolase 6 (putative function)	ENTPD6	955	1	201704_at	-1.2161
isoprenylcysteine carboxyl methyltransferase	ICMT	23463	1	201609_x_at	-1.2025
nuclear cap binding protein subunit 2, 20 kD	NCBP2	22916	1	201521_s_at	-1.1942
polymerase (RNA) III (DNA directed) polypeptide K, 12.3 kD	POLR3K	51728	1	218866_s_at	-1.1790
actin, α 2, smooth muscle, aorta	ACTA2	59	1	200974_at	-1.1764
proteasome (prosome, macropain) subunit, beta type, 2	PSMB2	5690	1	200039_s_at	-1.1746
hypothetical protein FLJ20534	FLJ20534	54969	1	218646_at	-1.1715
Down syndrome critical region gene 2	DSCR2	8624	1	203405_at	-1.1711
protein kinase (cAMP-dependent, catalytic) inhibitor alpha	PKIA	5569	1	204612_at	-1.1675
moesin	MSN	4478	1	200600_at	-1.1672
tetraspanin 6	TSPAN6	7105	1	209109_s_at	-1.1618
alkylglycerone phosphate synthase	AGPS	8540	1	205401_at	-1.1582
sorcin	SRI	6717	1	208921_s_at	-1.1524
uncharacterized hypothalamus protein HT007	HT007	55863	1	221622_s_at	-1.1409
poly (ADP-ribose) polymerase family, member 1	PARP1	142	1	208644_at	-1.1334
phosphatidylinositol glycan, class F	PIGF	5281	1	205078_at	-1.1300
hypothetical protein FLJ10803	FLJ10803	55744	1	209445_x_at	-1.1259

asparagine-linked glycosylation 8 homologue (yeast, α -1,3-glucosyltransferase)	ALG8	79053	1	203545_at	-1.1241
RNA terminal phosphate cyclase domain 1	RTCD1	8634	1	203594_at	-1.1237
WD repeat domain 77	WDR77	79084	1	201420_s_at	-1.1075
transcription factor Dp-1	TFDP1	7027	1	212330_at	-1.0858
HUS1 checkpoint homologue (<i>S. pombe</i>)	HUS1	3364	1	204883_s_at	-1.0710
phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase	PAICS	10606	1	201014_s_at	-1.0611
malignant T cell amplified sequence 1	MCTS1	28985	1	218163_at	-1.0551
glutathione S-transferase ω 1	GSTO1	9446	1	201470_at	-1.0355
ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9) isoform 3	ATP5G3	518	1	207507_s_at	-1.0353
primase, polypeptide 1, 49 kD	PRIM1	5557	1	205053_at	-1.0160
maternal embryonic leucine zipper kinase	MELK	9833	1	204825_at	-1.0157
transducer of ERBB2, 1	TOB1	10140	1	202704_at	1.0237
cyclin-dependent kinase inhibitor 1B (p27, Kip1)	CDKN1B	1027	1	209112_at	1.0402
chemokine (C-C motif) receptor 5	CCR5	1234	1	204391_x_at	1.0447
rearranged L-myc fusion	RLF	6018	1	204243_at	1.0476
zinc finger protein 44 (KOX 7)	ZNF44	51710	1	215359_x_at	1.0505
mSin3A-associated protein 130	SAP130	79595	1	220367_s_at	1.0571
protein O-fucosyltransferase 2	POFUT2	23275	1	209578_s_at	1.0658
sirtuin (silent mating type information regulation 2 homologue) 1 (<i>S. cerevisiae</i>)	SIRT1	23411	1	218878_s_at	1.0789
collagen, type IV, α 3 (Goodpasture antigen) binding protein	COL4A3BP	10087	1	219625_s_at	1.0853
hypothetical protein FLJ20294	FLJ20294	55626	1	52731_at	1.0863
proteasome (prosome, macropain) activator subunit 4	PSME4	23198	1	212222_at	1.0933
RIO kinase 3 (yeast)	RIOK3	8780	1	202130_at	1.0934
polo-like kinase 2 (<i>Drosophila</i>)	PLK2	10769	1	201939_at	1.0989
zinc finger protein 297B	ZNF297B	23099	1	204182_s_at	1.1052
transducin-like enhancer of split 4 (E(sp1) homologue, <i>Drosophila</i>)	TLE4	7091	1	204872_at	1.1279
cell division cycle 2-like 5 (cholinesterase-related)	CDC2L5	8621	1	207318_s_at	1.1465

cell division controller)

myosin regulatory light chain interacting protein	MYLIP	29116	1	220319_s_at	1.1655
HMG-box transcription factor 1	HBP1	26959	1	209102_s_at	1.1668
hypothetical protein FLJ20558	FLJ20558	54980	1	219128_at	1.1971
breast cancer anti-estrogen resistance 3	BCAR3	8412	1	204032_at	1.2054
FK506 binding protein like	FKBPL	63943	1	219187_at	1.2086
hepatitis B virus x associated protein	HBXAP	51773	1	218166_s_at	1.2318
DNA-damage-inducible transcript 3	DDIT3	1649	1	209383_at	1.2449
inositol 1,4,5-trisphosphate 3-kinase C	ITPKC	80271	1	213076_at	1.2732
myelin protein zero (Charcot-Marie-Tooth neuropathy 1B)	MPZ	4359	1	210280_at	1.2859
RAD52 homologue (<i>S. cerevisiae</i>)	RAD52	5893	1	205647_at	1.2928
MYST histone acetyltransferase (monocytic leukemia) 4	MYST4	23522	1	212462_at	1.3536
methyl CpG binding protein 2 (Rett syndrome)	MECP2	4204	1	202616_s_at	1.3629
KIAA0753 gene product	KIAA0753	9851	1	204711_at	1.3706
pecanex homologue (<i>Drosophila</i>)	PCNX	22990	1	213173_at	1.3756
disrupted in schizophrenia 1	DISC1	27185	1	217330_at	1.3873
cytochrome P450, family 20, subfamily A, polypeptide 1	CYP20A1	57404	1	219565_at	1.3873
SH2 domain protein 1A, Duncan's disease (lymphoproliferative syndrome)	SH2D1A	4068	1	205728_at	1.3979
nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1	NFATC1	4772	1	211105_s_at	1.4015
nucleosomal binding protein 1	NSBP1	79366	1	221606_s_at	1.4044
jumonji domain containing 2B	JMJD2B	23030	1	212492_s_at	1.4217
early growth response 3	EGR3	1960	1	206115_at	1.4264
zinc fingers and homeoboxes 2	ZHX2	22882	1	203556_at	1.4315
serpin peptidase inhibitor, clade B (ovalbumin), member 1	SERPINB1	1992	1	213572_s_at	1.4317
RAB2, member RAS oncogene family	RAB2	5862	1	208733_at	1.4317
zinc finger protein 432	ZNF432	9668	1	219848_s_at	1.4343
solute carrier family 39 (zinc transporter), member 9	SLC39A9	55334	1	216009_at	1.4359
serum/glucocorticoid regulated kinase-like	SGKL	23678	1	220038_at	1.4482

chromosome 6 open reading frame 32	C6orf32	9750	1	206707_x_at	1.4551
gastrin	GAST	2520	1	208138_at	1.4771
WD repeat domain 21A	WDR21A	26094	1	214758_at	1.4839
cannabinoid receptor 1 (brain)	CNR1	1268	1	213436_at	1.4894
nuclear factor I/B	NFIB	4781	1	211467_s_at	1.4968
DiGeorge syndrome critical region gene 2	DGCR2	9993	1	202099_s_at	1.5085
pleckstrin homology domain containing, family A member 5	PLEKHA5	54477	1	220952_s_at	1.5154
vitamin K epoxide reductase complex, subunit 1	VKORC1	79001	1	214226_at	1.5220
aquaporin 8	AQP8	343	1	206784_at	1.5272
Rho-guanine nucleotide exchange factor	RGNEF	64283	1	219610_at	1.5282
E74-like factor 2 (ets domain transcription factor)	ELF2	1998	1	210361_s_at	1.5425
KIAA0999 protein	KIAA0999	23387	1	204156_at	1.5472
potassium voltage-gated channel, shaker-related subfamily, β member 1	KCNAB1	7881	1	210078_s_at	1.5581
chromosome 13 open reading frame 22	C13orf22	10208	1	204190_at	1.5639
nuclear transcription factor, X-box binding 1	NFX1	4799	1	210268_at	1.5756
Rho GTPase activating protein 15	ARHGAP15	55843	1	218870_at	1.5803
hairy/enhancer-of-split related with YRPW motif 2	HEY2	23493	1	219743_at	1.5818
hypothetical protein FLJ20054	FLJ20054	54530	1	219696_at	1.5826
basic leucine zipper nuclear factor 1 (JEM-1)	BLZF1	8548	1	203840_at	1.5845
ankyrin repeat domain 12	ANKRD12	23253	1	212286_at	1.5870
ubiquitin specific peptidase 52	USP52	9924	1	203117_s_at	1.5980
zinc finger protein 667	ZNF667	63934	1	207120_at	1.5998
protein- <i>O</i> -mannosyltransferase 1	POMT1	10585	1	218476_at	1.6110
hypothetical protein FLJ20152	FLJ20152	54463	1	218532_s_at	1.6118
T-box 19	TBX19	9095	1	206838_at	1.6188
GIPC PDZ domain containing family, member 2	GIPC2	54810	1	219970_at	1.6195
leukocyte cell derived chemotaxin 1	LECT1	11061	1	206309_at	1.6245
serine/threonine kinase 17b (apoptosis-inducing)	STK17B	9262	1	217503_at	1.6270
phosphorylase, glycogen; muscle (McArdle syndrome, glycogen storage disease type V)	PYGM	5837	1	205577_at	1.6308
hypothetical protein FLJ10374	FLJ10374	55702	1	204335_at	1.6334

sirtuin (silent mating type information regulation 2 homologue) 4 (<i>S. cerevisiae</i>)	SIRT4	23409	1	220047_at	1.6503
Nipped-B homologue (<i>Drosophila</i>)	NIPBL	25836	1	212483_at	1.6524
phospholipase C-like 1	PLCL1	5334	1	205934_at	1.6579
hypothetical protein FLJ36754	FLJ36754	285672	1	217608_at	1.6622
WW domain containing adaptor with coiled-coil	WAC	51322	1	219679_s_at	1.6629
aldehyde dehydrogenase 6 family, member A1	ALDH6A1	4329	1	204290_s_at	1.6679
synaptotagmin XVII	SYT17	51760	1	205613_at	1.6774
WD repeat domain 33	WDR33	55339	1	218851_s_at	1.6880
mitochondrial tumor suppressor 1	MTUS1	57509	1	212096_s_at	1.7067
zinc finger protein 304	ZNF304	57343	1	207753_at	1.7087
oxidation resistance 1	OXR1	55074	1	218197_s_at	1.7107
sodium channel, voltage-gated, type III, β	SCN3B	55800	1	204723_at	1.7114
DnaJ (Hsp40) homologue, subfamily B, member 4	DNAJB4	11080	1	203810_at	1.7153
hypothetical protein FLJ11011	FLJ11011	55284	1	218521_s_at	1.7183
sclerostin domain containing 1	SOSTDC1	25928	1	213456_at	1.7267
sine oculis homeobox homologue 1 (<i>Drosophila</i>)	SIX1	6495	1	205817_at	1.7408
RAS-like, family 12	RASL12	51285	1	219167_at	1.7476
zinc finger protein 230	ZNF230	7773	1	205791_x_at	1.7572
Jumonji, AT rich interactive domain 1A (RBBP2-like)	JARID1A	5927	1	215698_at	1.7699
zinc finger protein 237	ZNF237	9205	1	215948_x_at	1.7747
hypothetical protein FLJ43806	FLJ43806	399563	1	213752_at	1.7791
sel-1 suppressor of lin-12-like (<i>C. elegans</i>)	SEL1L	6400	1	202063_s_at	1.7804
methyl-CpG binding domain protein 2	MBD2	8932	1	214397_at	1.7846
leucine rich repeat containing 2	LRRC2	79442	1	219949_at	1.7851
retinoic acid induced 2	RAI2	10742	1	219440_at	1.7927
zinc finger protein 222	ZNF222	7673	1	206175_x_at	1.7988
bromodomain and WD repeat domain containing 1	BRWD1	54014	1	214820_at	1.8078
zinc finger protein 654	ZNF654	55279	1	219239_s_at	1.8106
leucine rich repeat neuronal 3	LRRN3	54674	1	209840_s_at	1.8122
F-box protein 42	FBXO42	54455	1	221812_at	1.8165

phosphodiesterase 1A, calmodulin-dependent	PDE1A	5136	1	208396_s_at	1.8200
ATP-binding cassette, sub-family F (GCN20), member 2	ABCF2	10061	1	207623_at	1.8299
AHNAK nucleoprotein (desmoyokin)	AHNAK	79026	1	220016_at	1.8330
H2A histone family, member J	H2AFJ	55766	1	220936_s_at	1.8391
RAB33A, member RAS oncogene family	RAB33A	9363	1	206039_at	1.8481
protein phosphatase 1D magnesium-dependent, delta isoform	PPM1D	8493	1	204566_at	1.8498
PDZ domain containing 1	PDZK1	5174	1	205380_at	1.8542
lectin, galactoside-binding, soluble, 4 (galectin 4)	LGALS4	3960	1	204272_at	1.8579
allantoicase	ALLC	55821	1	220365_at	1.8629
phospholipase A2, group IVC (cytosolic, calcium-independent)	PLA2G4C	8605	1	209785_s_at	1.8834
olfactory receptor, family 7, subfamily E, member 47 pseudogene	OR7E47P	26628	1	222304_x_at	1.8844
PI-3-kinase-related kinase SMG-1-like	DKFZp547E087	283846	1	221992_at	1.8845
sushi, nidogen, and EGF-like domains 1	SNED1	25992	1	213488_at	1.8903
myeloid/lymphoid or mixed-lineage leukemia (trithorax homologue, <i>Drosophila</i>)	MLL	4297	1	212079_s_at	1.8920
zinc finger protein 451	ZNF451	26036	1	215012_at	1.8987
chromosome 1 open reading frame 66	C1orf66	51093	1	218914_at	1.9393
advillin	AVIL	10677	1	205539_at	1.9405
lactate dehydrogenase A-like 6B	LDHAL6B	92483	1	210712_at	1.9587
unc-84 homologue A (<i>C. elegans</i>)	UNC84A	23353	1	206487_at	1.9632
hypothetical protein FLJ23861	FLJ23861	151050	1	215046_at	1.9661
nuclear receptor subfamily 3, group C, member 2	NR3C2	4306	1	205259_at	2.0069
integrin, α M (complement component receptor 3, α; also known as CD11b (p170), macrophage antigen α polypeptide)	ITGAM	3684	1	205786_s_at	2.0088
epilepsy, progressive myoclonus type 2A, Lafora disease (laforin)	EPM2A	7957	1	205231_s_at	2.0247
ret finger protein-like 3 antisense	RFPL3S	10737	1	214409_at	2.0276
CBF1 interacting corepressor	CIR	9541	1	209571_at	2.0375
proprotein convertase subtilisin/kexin type 5	PCSK5	5125	1	213652_at	2.0399
AT rich interactive domain 4A (RBP1-like)	ARID4A	5926	1	205062_x_at	2.0403

PH domain and leucine rich repeat protein phosphatase	PHLPP	23239	1	212719_at	2.0468
TATA element modulatory factor 1	TMF1	7110	1	213024_at	2.0533
RAB33B, member RAS oncogene family	RAB33B	83452	1	221014_s_at	2.0538
calmodulin binding transcription activator 1	CAMTA1	23261	1	213268_at	2.0580
growth arrest-specific 2	GAS2	2620	1	205848_at	2.0682
CG016	LOC88523	88523	1	214748_at	2.0858
pellino homologue 2 (<i>Drosophila</i>)	PELI2	57161	1	219132_at	2.0975
period homologue 1 (<i>Drosophila</i>)	PER1	5187	1	202861_at	2.1192
cyclin A1	CCNA1	8900	1	205899_at	2.1324
histone 1, H2ae	HIST1H2AE	3012	1	214469_at	2.1325
zinc finger protein 20 (KOX 13)	ZNF20	7568	1	213916_at	2.1660
heat shock 70-kD protein 1-like	HSPA1L	3305	1	210189_at	2.1710
chorionic somatomammotropin hormone 1 (placental lactogen)	CSH1	1442	1	208068_x_at	2.1740
TBC1 domain family, member 3	TBC1D3	84218	1	209403_at	2.1753
bone morphogenetic protein 4	BMP4	652	1	211518_s_at	2.1905
REST corepressor 3	RCOR3	55758	1	218344_s_at	2.2058
insulin-like growth factor binding protein 2, 36 kD	IGFBP2	3485	1	202718_at	2.2278
nuclear receptor subfamily 4, group A, member 2	NR4A2	4929	1	204621_s_at	2.2320
SH3 domain binding glutamic acid-rich protein	SH3BGR	6450	1	204979_s_at	2.2819
endothelin 3	EDN3	1908	1	208399_s_at	2.3051
peroxisome biogenesis factor 1	PEX1	5189	1	204873_at	2.3776
zinc finger protein 211	ZNF211	10520	1	205437_at	2.3978
osmosis responsive factor	OSRF	23548	1	219421_at	2.4201
v-maf musculoaponeurotic fibrosarcoma oncogene homologue (avian)	MAF	4094	1	206363_at	2.4258
ubiquitously transcribed tetratricopeptide repeat, X chromosome	UTX	7403	1	203991_s_at	2.6274
zinc finger and BTB domain containing 10	ZBTB10	65986	1	219312_s_at	2.6578
calcitonin receptor	CALCR	799	1	207886_s_at	2.6878
splicing factor 3b, subunit 1, 155kD	SF3B1	23451	2	201070_x_at // 214305_s_at	1.131100//1.026000
RB1-inducible coiled-coil 1	RB1CC1	9821	2	202033_s_at // 202034_x_at	1.189800//1.403100

huntingtin interacting protein B	HYPB	29072	2	215038_s_at // 212493_s_at	1.269100//1.721000
retinoblastoma binding protein 6	RBBP6	5930	2	212781_at // 212783_at	1.453700//1.200400
hypothetical protein DKFZp564O0523	DKFZP564O0523	84060	2	221595_at // 221596_s_at	1.822000//1.703700
cylindromatosis (turban tumor syndrome)	CYLD	1540	3	213295_at // 221905_at // 39582_at	1.823400//1.925700//2.276300
myeloid/lymphoid or mixed-lineage leukemia (trithorax homologue, <i>Drosophila</i>); translocated to, 3	MLLT3	4300	2	204917_s_at // 204918_s_at	1.856100//1.786200
SUMO1/sentrin specific peptidase 6	SENP6	26054	2	214790_at // 202319_at	1.942100//1.615800
trinucleotide repeat containing 9	TNRC9	27324	3	214774_x_at // 215108_x_at // 216623_x_at	2.505400//2.112100//2.159500