

Table S1**pre-rehab vs. control**

Gene	Affymetrix accession #	Gene description
		Oxidative Phosphorylation
ATP6V1A	201971_s_at	ATPase, H+ transporting, lysosomal 70kDa, V1 subunit A
ATP6V0C	36994_at	ATPase, H+ transporting, lysosomal 16kDa, V0 subunit c
SDHA	201093_x_at	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
MT-CO2	1553570_x_at	mitochondrially encoded cytochrome c oxidase II
ATP6V0E1	200096_s_at	ATPase, H+ transporting, lysosomal 9kDa, V0 subunit e1
PPA1	217848_s_at	pyrophosphatase (inorganic) 1
MT-COI	1553538_s_at	cytochrome c oxidase subunit I, Mitochondrion [Homo sapiens]
NDUFC1	203478_at	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa
NDUFA11	225304_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa
ATP5G2	208764_s_at	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C2 (subunit 9)
ATP5J2	202961_s_at	ATP5J2-PTCD1 readthrough
NDUFB7	202839_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa
ATP5A1	213738_s_at	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle
NDUFS2	201966_at	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)
NDUFB9	222992_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa
ATP6V1D	208898_at	ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D
COX7B	202110_at	cytochrome c oxidase subunit VIIb
NDUFC2	218101_s_at	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa
UQCRB	205849_s_at	ubiquinol-cytochrome c reductase binding protein
NDUFS4	209303_at	NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)
NDUFA12	223244_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
ATP5B	201322_at	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide
ATP5F1	211755_s_at	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit B1
UQCRC1	208909_at	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1
NDUFS6	203606_at	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)
COX4I1	200086_s_at	cytochrome c oxidase subunit IV isoform 1
NDUFB4	218226_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa
NDUFB8	201226_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa
NDUFB6	203613_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa
NDUFA2	209224_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa
COX7C	201134_x_at	cytochrome c oxidase subunit VIIc
NDUFB1	206790_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa
UQCRC2	201568_at	ubiquinol-cytochrome c reductase, complex III subunit VII, 9.5kDa
NDUFA13	220864_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13
UQCRC2	200883_at	ubiquinol-cytochrome c reductase core protein II

NDUFB5	203621_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa
NDUFAB1	202077_at	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa
NDUFA9	208969_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa
ATP5H	210149_s_at	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit d
NDUFB2	218200_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa
ATP5O	200818_at	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
COX5A	203663_s_at	cytochrome c oxidase subunit Va
NDUFA1	202298_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa
NDUFS8	203189_s_at	NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH-coenzyme Q reductase)
NDUFA8	218160_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa
NDUFS7	211752_s_at	NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)
SDHB	202675_at	succinate dehydrogenase complex, subunit B, iron sulfur (Ip)
COX8A	201119_s_at	cytochrome c oxidase subunit VIIIA (ubiquitous)
COX6B1	201441_at	cytochrome c oxidase subunit VIb polypeptide 1 (ubiquitous)
NDUFB11	218320_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 17.3kDa
NDUFV1	208714_at	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa
ATP5L	207573_x_at	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit G
ATP5G3	207507_s_at	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C3 (subunit 9)
COX5B	202343_x_at	cytochrome c oxidase subunit Vb
SDHC	202004_x_at	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa
COX6C	201754_at	cytochrome c oxidase subunit VIc
NDUFA10	217860_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa
UQCRH	202233_s_at	ubiquinol-cytochrome c reductase hinge protein
NDUFA3	218563_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kDa
NDUFB10	223112_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa
NDUFS3	201740_at	NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)
UQCR10	218190_s_at	Homo sapiens ubiquinol-cytochrome c reductase, complex III subunit X
CYC1	201066_at	cytochrome c-1
ATP5G1	208972_s_at	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit C1 (subunit 9)
COX6A2	206353_at	cytochrome c oxidase subunit VIa polypeptide 2
NDUFB3	203371_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa
Mitochondrial Dysfunction		
PRDX5	222994_at	peroxiredoxin 5
SDHA	201093_x_at	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
MT-CO2	1553570_x_at	mitochondrially encoded cytochrome c oxidase II
MT-COI	1553538_s_at	cytochrome c oxidase subunit I, Mitochondrion [Homo sapiens]
PRDX3	201619_at	peroxiredoxin 3
NDUFA11	225304_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa
NDUFB7	202839_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa
ATP5A1	213738_s_at	ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle

PARK7	200006_at	Parkinson disease (autosomal recessive, early onset) 7
RHOT2	65770_at	ras homolog gene family, member T2
NDUFS2	201966_at	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)
TXN2	209078_s_at	thioredoxin 2
NDUFB9	222992_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa
COX7B	202110_at	cytochrome c oxidase subunit VIIb
UQCRB	205849_s_at	ubiquinol-cytochrome c reductase binding protein
NDUFS4	209303_at	NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)
NDUFA12	223244_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
ATP5B	201322_at	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, beta polypeptide
UQCRCF1	208909_at	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1
NDUFS6	203606_at	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)
COX4I1	200086_s_at	cytochrome c oxidase subunit IV isoform 1
NDUFB4	218226_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa
NDUFB8	201226_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa
NDUFB6	203613_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa
MAOB	204041_at	monoamine oxidase B
NDUFA2	209224_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa
COX7C	201134_x_at	cytochrome c oxidase subunit VIIc
NDUFB1	206790_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa
NDUFA13	220864_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13
UQCRC2	200883_at	ubiquinol-cytochrome c reductase core protein II
NDUFB5	203621_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa
NDUFAB1	202077_at	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa
NDUFA9	208969_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa
NDUFB2	218200_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa
COX5A	203663_s_at	cytochrome c oxidase subunit Va
NDUFS8	203189_s_at	NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH-coenzyme Q reductase)
PDHA1	200980_s_at	pyruvate dehydrogenase (lipoamide) alpha 1
NDUFA8	218160_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa
NDUFS7	211752_s_at	NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)
SDHB	202675_at	succinate dehydrogenase complex, subunit B, iron sulfur (lp)
COX8A	201119_s_at	cytochrome c oxidase subunit VIIIA (ubiquitous)
COX6B1	201441_at	cytochrome c oxidase subunit VIb polypeptide 1 (ubiquitous)
NDUFB11	218320_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 17.3kDa
NDUFV1	208714_at	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa
CYCS	208905_at	cytochrome c, somatic
CPT1B	210069_at	carnitine palmitoyltransferase 1B (muscle)
COX5B	202343_x_at	cytochrome c oxidase subunit Vb
SDHC	202004_x_at	succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa
COX6C	201754_at	cytochrome c oxidase subunit VIc

NDUFA10	217860_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa
UQCRH	202233_s_at	ubiquinol-cytochrome c reductase hinge protein
NDUFA3	218563_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kDa
NDUFB10	223112_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa
		NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)
NDUFS3	201740_at	
PINK1	209018_s_at	PTEN induced putative kinase 1
CYC1	201066_at	cytochrome c-1
COX6A2	206353_at	cytochrome c oxidase subunit VIa polypeptide 2
NDUFB3	203371_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa
		Ubiquinone Biosynthesis
UFSP2	218449_at	UFM1-specific peptidase 2
NDUFC1	203478_at	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa
NDUFA11	225304_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 11, 14.7kDa
NDUFB7	202839_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa
		NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)
NDUFS2	201966_at	
NDUFB9	222992_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa
MGMT	204880_at	Homo sapiens O-6-methylguanine-DNA methyltransferase
NDUFC2	218101_s_at	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2, 14.5kDa
		NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)
NDUFS4	209303_at	
NDUFA12	223244_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 12
		NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13kDa (NADH-coenzyme Q reductase)
NDUFS6	203606_at	
NDUFB4	218226_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 4, 15kDa
NDUFB8	201226_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa
NDUFB6	203613_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa
NDUFA2	209224_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 2, 8kDa
NDUFB1	206790_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa
NDUFA13	220864_s_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 13
NDUFB5	203621_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa
NDUFAB1	202077_at	NADH dehydrogenase (ubiquinone) 1, alpha/beta subcomplex, 1, 8kDa
NDUFA9	208969_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9, 39kDa
NDUFB2	218200_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 2, 8kDa
NDUFA1	202298_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa
		NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23kDa (NADH-coenzyme Q reductase)
NDUFS8	203189_s_at	
NDUFA8	218160_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 8, 19kDa
		NADH dehydrogenase (ubiquinone) Fe-S protein 7, 20kDa (NADH-coenzyme Q reductase)
NDUFS7	211752_s_at	
NDUFB11	218320_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11, 17.3kDa
NDUFV1	208714_at	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa
	217860_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 10, 42kDa

NDUFA10

NDUFA3	218563_at	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 3, 9kDa
NDUFB10	223112_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 10, 22kDa
NDUFS3	201740_at	NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)
BCKDHB	210653_s_at	branched chain keto acid dehydrogenase E1, beta polypeptide
NDUFB3	203371_s_at	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa

Protein Ubiquitination Pathway

VHL	203844_at	von Hippel-Lindau tumor suppressor
CBL	229010_at	Cas-Br-M (murine) ecotropic retroviral transforming sequence
USP36	220370_s_at	ubiquitin specific peptidase 36
DNAJC6	204720_s_at	Dnaj (Hsp40) homolog, subfamily C, member 6
USP51	237247_at	ubiquitin specific peptidase 51
DNAJC21	230893_at	Dnaj (Hsp40) homolog, subfamily C, member 21
USP12	213327_s_at	ubiquitin specific peptidase 12
MDM2	225160_x_at	Mdm2 p53 binding protein homolog (mouse)
PSMD5	203447_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 5
NEDD4L	212448_at	neural precursor cell expressed, developmentally down-regulated 4-like
HLA-C	216526_x_at	major histocompatibility complex, class I, C
USP45	238057_at	ubiquitin specific peptidase 45
HSPA13	202558_s_at	heat shock protein 70kDa family, member 13
HSPA14	226887_at	heat shock 70kDa protein 14
USP1	202412_s_at	ubiquitin specific peptidase 1
USP34	212065_s_at	ubiquitin specific peptidase 34
HSPB8	233057_at	heat shock 22kDa protein 8
USP54	227754_at	Homo sapiens ubiquitin specific peptidase 54
USP42	226176_s_at	ubiquitin specific peptidase 42
USP33	212513_s_at	ubiquitin specific peptidase 33
SMURF2	205596_s_at	SMAD specific E3 ubiquitin protein ligase 2
DNAJB14	222850_s_at	Dnaj (Hsp40) homolog, subfamily B, member 14
DNAJC13	212467_at	Dnaj (Hsp40) homolog, subfamily C, member 13
XIAP	225859_at	X-linked inhibitor of apoptosis
DNAJB1	200666_s_at	Dnaj (Hsp40) homolog, subfamily B, member 1
USP9X	201100_s_at	ubiquitin specific peptidase 9, X-linked
USP8	202745_at	ubiquitin specific peptidase 8
BIRC6	224635_s_at	baculoviral IAP repeat containing 6
UBE2G2	1557053_s_at	ubiquitin-conjugating enzyme E2G 2 (UBC7 homolog, yeast)
CUL2	203079_s_at	cullin 2
PSMD13	201232_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13
PSMD6	202753_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6
ANAPC5	200098_s_at	anaphase promoting complex subunit 5
PSMB1	200876_s_at	proteasome (prosome, macropain) subunit, beta type, 1
CDC34	212540_at	cell division cycle 34 homolog (S. cerevisiae)
PSMD14	212296_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14
UBE2D3	200668_s_at	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)
PSMB4	202243_s_at	proteasome (prosome, macropain) subunit, beta type, 4

UBE2N	201523_x_at	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)
UBB	200633_at	ubiquitin B
TCEB2	200085_s_at	transcription elongation factor B (SIII), polypeptide 2 (18kDa, elongin B)
PSMA5	201274_at	proteasome (prosome, macropain) subunit, alpha type, 5
PSMA1	210759_s_at	proteasome (prosome, macropain) subunit, alpha type, 1
STUB1	217934_x_at	
RBX1	218117_at	ring-box 1, E3 ubiquitin protein ligase
USP2	229337_at	ubiquitin specific peptidase 2
UBE2A	201898_s_at	ubiquitin-conjugating enzyme E2A (RAD6 homolog)
CRYAB	209283_at	crystallin, alpha B
DNAJC25	226859_at	Dnaj (Hsp40) homolog, subfamily C , member 25
USP21	218367_x_at	ubiquitin specific peptidase 21
PSMD9	207805_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9
TCEB1	202824_s_at	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)
DNAJC1	218409_s_at	proteasome (prosome, macropain) subunit, beta type, 6
PSMB6	208827_at	
DNAJC19	225358_at	Dnaj (Hsp40) homolog, subfamily C, member 19
UBE2D4	221949_at	Homo sapiens ubiquitin-conjugating enzyme E2D 4
PSMB10	202659_at	proteasome (prosome, macropain) subunit, beta type, 10
BAG1	202387_at	BCL2-associated athanogene
THOP1	203235_at	thimet oligopeptidase 1
DNAJC17	219861_at	Dnaj (Hsp40) homolog, subfamily C, member 17
DNAJC12	223721_s_at	Dnaj (Hsp40) homolog, subfamily C, member 12
DNAJC28	220372_at	Dnaj (Hsp40) homolog, subfamily C, member 28
ANAPC11	226414_s_at	anaphase promoting complex subunit 11
DNAJC14	1554451_s_at	Dnaj (Hsp40) homolog, subfamily C, member 14

BMP signaling pathway

FST	226847_at	folliculin
NOG	231798_at	noggin
NFKB2	209636_at	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
SMAD7	204790_at	SMAD family member 7
BMP2	205289_at	bone morphogenetic protein 2
SMAD1	208015_at	SMAD family member 1
SMAD9	227719_at	SMAD family member 9
SMAD5	205187_at	SMAD family member 5
BMP5	205430_at	bone morphogenetic protein 5
PRKAR1A	200605_s_at	protein kinase, cAMP-dependent, regulatory, type I, alpha (tissue specific extinguisher 1)
JUN	201465_s_at	jun proto-oncogene
ATF2	212984_at	activating transcription factor 2
KRAS	204009_s_at	v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
SOS1	227426_at	son of sevenless homolog 1 (Drosophila)
CREB1	204313_s_at	cAMP responsive element binding protein 1
MRAS	225185_at	muscle RAS oncogene homolog
MAPK1	224621_at	mitogen-activated protein kinase 1
CREBBP	202160_at	CREB binding protein

XIAP	225859_at	X-linked inhibitor of apoptosis
BMPR2	225144_at	bone morphogenetic protein receptor, type II (serine/threonine kinase)
NRAS	202647_s_at	neuroblastoma RAS viral (v-ras) oncogene homolog
BMPR1A	230979_at	bone morphogenetic protein receptor, type IA
MAPK3	212046_x_at	mitogen-activated protein kinase 3
MAP2K2	202424_at	mitogen-activated protein kinase kinase 2
PRKAG1	201805_at	protein kinase, AMP-activated, gamma 1 non-catalytic subunit

3 wks rehab vs. control

Gene	Affymetrix accession #	Gene description
		Protein Ubiquitination Pathway
HSPA6	213418_at	heat shock 70kDa protein 6 (HSP70B')
USP27X	217605_at	ubiquitin specific peptidase 27, X-linked
UBE2C	202954_at	ubiquitin-conjugating enzyme E2C
USP36	220370_s_at	ubiquitin specific peptidase 36
B2M	232311_at	beta-2-microglobulin
CBL	225231_at	Cas-Br-M (murine) ecotropic retroviral transforming sequence
HLA-B	208729_x_at	major histocompatibility complex, class I, B
NEDD4L	212445_s_at	neural precursor cell expressed, developmentally down-regulated 4-like
USP9X	229573_at	ubiquitin specific peptidase 9, X-linked
HLA-C	216526_x_at	major histocompatibility complex, class I, C
SMURF2	227489_at	SMAD specific E3 ubiquitin protein ligase 2
HLA-A	215313_x_at	Homo sapiens major histocompatibility complex, class I, A (
HSPA12B	229172_at	heat shock 70kD protein 12B
HSPB11	203960_s_at	heat shock protein family B (small), member 11
HSPA14	226887_at	heat shock 70kDa protein 14
USP33	212513_s_at	ubiquitin specific peptidase 33
DNAJB14	222850_s_at	DnaJ (Hsp40) homolog, subfamily B, member 14
HSPA12A	214434_at	heat shock 70kDa protein 12A
USP1	202413_s_at	ubiquitin specific peptidase 1
UBE2V1	201003_x_at	TMEM189-UBE2V1 readthrough
USP48	220079_s_at	ubiquitin specific peptidase 48
SUGT1	223329_x_at	SGT1, suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>)
UBA1	200964_at	ubiquitin-like modifier activating enzyme 1
USP47	221518_s_at	ubiquitin specific peptidase 47
XIAP	235222_x_at	Homo sapiens X-linked inhibitor of apoptosis
PSMC5	209503_s_at	proteasome (prosome, macropain) 26S subunit, ATPase, 5
DNAJC24	213853_at	DnaJ (Hsp40) homolog, subfamily C, member 24
PSMB1	200876_s_at	proteasome (prosome, macropain) subunit, beta type, 1
DNAJB9	202842_s_at	DnaJ (Hsp40) homolog, subfamily B, member 9
PSMD2	200830_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 2
UBE3B	212403_at	ubiquitin protein ligase E3B
PSMC1	204219_s_at	proteasome (prosome, macropain) 26S subunit, ATPase, 1
CUL2	203079_s_at	cullin 2
PSMB4	202243_s_at	proteasome (prosome, macropain) subunit, beta type, 4
PSMA6	208805_at	proteasome (prosome, macropain) subunit, alpha type, 6
PSMA2	201317_s_at	proteasome (prosome, macropain) subunit, alpha type, 2
DNAJB2	202500_at	DnaJ (Hsp40) homolog, subfamily B, member 2
AMFR	202204_s_at	Homo sapiens autocrine motility factor receptor
CDC34	212540_at	cell division cycle 34 homolog (<i>S. cerevisiae</i>)
CRYAB	209283_at	crystallin, alpha B
UBE2D3	200668_s_at	ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)
PSMD4	211609_x_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4
PSMD6	202753_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6

PSMB2	200039_s_at	proteasome (prosome, macropain) subunit, beta type, 2
BAG1	202387_at	BCL2-associated athanogene
PSMA1	201676_x_at	proteasome (prosome, macropain) subunit, alpha type, 1
UBE2N	201523_x_at	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)
PSMD13	201232_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13
USP13	227788_at	ubiquitin specific peptidase 13 (isopeptidase T-3)
PSMC2	201067_at	proteasome (prosome, macropain) 26S subunit, ATPase, 2
PSMB5	208799_at	proteasome (prosome, macropain) subunit, beta type, 5
PSMD12	202352_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12
PSMA7	201114_x_at	proteasome (prosome, macropain) subunit, alpha type, 7
PSMD1	201198_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1
PSMD14	212296_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14
PSMA3	201532_at	proteasome (prosome, macropain) subunit, alpha type, 3
UBE2M	203109_at	Homo sapiens ubiquitin-conjugating enzyme E2M
UBE2F	225783_at	ubiquitin-conjugating enzyme E2F (putative)
PSMA5	201274_at	proteasome (prosome, macropain) subunit, alpha type, 5
HSP90AA1	210211_s_at	heat shock protein 90kDa alpha (cytosolic), class A member 1
TCEB1	202824_s_at	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)
DNAJC8	212490_at	DnaJ (Hsp40) homolog, subfamily C, member 8
HSPE1	205133_s_at	Homo sapiens heat shock 10kDa protein 1
PSMD11	208777_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 11
DNAJC11	215792_s_at	DnaJ (Hsp40) homolog, subfamily C, member 11
HSPD1	200806_s_at	Homo sapiens heat shock 60kDa protein 1
PSMB6	208827_at	proteasome (prosome, macropain) subunit, beta type, 6
HSP90AB1	214359_s_at	Homo sapiens heat shock protein 90kDa alpha (cytosolic), class B member 1
THOP1	203235_at	thimet oligopeptidase 1
UBB	217125_at	Homo sapiens ubiquitin B
PSMD3	201388_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3
HSPA1A/HSPA1B	200799_at	Homo sapiens heat shock 70kDa protein 1A
PSMD8	200820_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
USP24	212381_at	ubiquitin specific peptidase 24
USP54	227334_at	ubiquitin specific peptidase 54
UBE2L3	200676_s_at	ubiquitin-conjugating enzyme E2L 3
HSPA8	208687_x_at	heat shock 70kDa protein 8
HSPH1	208744_x_at	Homo sapiens HSP105 alpha
USP3	201536_at	ubiquitin specific peptidase 3
DNAJB6	209015_s_at	DnaJ (Hsp40) homolog, subfamily B, member 6
DNAJB4	203811_s_at	DnaJ (Hsp40) homolog, subfamily B, member 4
DNAJC28	220372_at	DnaJ (Hsp40) homolog, subfamily C, member 28
HSPA9	200690_at	heat shock 70kDa protein 9 (mortalin)
DNAJC14	1554451_s_at	DnaJ (Hsp40) homolog, subfamily C, member 14
	FcγR Receptor-mediated Phagocytosis in Macrophages and Monocytes	
ACTA2	243140_at	actin, alpha 2, smooth muscle, aorta
FCGR2A	203561_at	Fc fragment of IgG, low affinity IIa, receptor (CD32)
VAV2	226063_at	vav 2 guanine nucleotide exchange factor
LYN	202625_at	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog

AKT2	203809_s_at	v-akt murine thymoma viral oncogene homolog 2
LCP2	205270_s_at	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76
AKT3	212609_s_at	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
SYK	226068_at	spleen tyrosine kinase
HCK	208018_s_at	hemopoietic cell kinase
RAC2	213603_s_at	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding prote
INPP5D	203332_s_at	inositol polyphosphate-5-phosphatase, 145kDa
PLD1	226636_at	phospholipase D1, phosphatidylcholine-specific
FYN	210105_s_at	FYN oncogene related to SRC, FGR, YES
FYB	211795_s_at	FYN binding protein
ARPC5	211963_s_at	actin related protein 2/3 complex, subunit 5, 16kDa
EZR	217234_s_at	ezrin
CBL	225231_at	Cas-Br-M (murine) ecotropic retroviral transforming sequence
PAK1	226507_at	p21 protein (Cdc42/Rac)-activated kinase 1
PLCG1	202789_at	phospholipase C, gamma 1
MYO5A	227761_at	myosin VA (heavy chain 12, myosin)
YES1	202932_at	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
ACTG1	201550_x_at	actin, gamma 1
PXN	201087_at	paxillin
PTEN	233314_at	phosphatase and tensin homolog
PRKCI	213518_at	protein kinase C, iota
VAMP3	211749_s_at	vesicle-associated membrane protein 3 (cellubrevin)
PIP5K1A	207391_s_at	phosphatidylinositol-4-phosphate 5-kinase, type I, alpha
	AFFX-	
ACTB	HSAC07/X00351_5_at	actin, beta
ARF6	203311_s_at	ADP-ribosylation factor 6
MAPK1	208351_s_at	mitogen-activated protein kinase 1
RAB11B	217793_at	RAB11B, member RAS oncogene family

ILK Signaling

MYL5	205145_s_at	myosin, light chain 5, regulatory
MYH8	206717_at	myosin, heavy chain 8, skeletal muscle, perinatal
MYH1	205951_at	myosin, heavy chain 1, skeletal muscle, adult
ACTA2	243140_at	actin, alpha 2, smooth muscle, aorta
ACTN3	206891_at	actinin, alpha 3
ITGB8	226189_at	integrin, beta 8
MYH13	208208_at	myosin, heavy chain 13, skeletal muscle
PARVA	222454_s_at	parvin, alpha
FBLIM1	225258_at	filamin binding LIM protein 1
MYH4	208148_at	myosin, heavy chain 4, skeletal muscle
TGFB111	209651_at	transforming growth factor beta 1 induced transcript 1
PIK3CD	203879_at	phosphoinositide-3-kinase, catalytic, delta polypeptide
AKT2	203809_s_at	v-akt murine thymoma viral oncogene homolog 2
BMP2	205289_at	bone morphogenetic protein 2
ITGB2	202803_s_at	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
MYL6	214002_at	Homo sapiens myosin, light chain 6, alkali, smooth muscle and non-muscle
AKT3	212609_s_at	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)

VIM	201426_s_at	vimentin
FN1	211719_x_at	fibronectin 1
RHOB	212099_at	ras homolog gene family, member B
TMSB10/TMSB4X	217733_s_at	thymosin beta 10
PTK2	1559529_at	PTK2 protein tyrosine kinase 2
CTNNB1	223679_at	catenin (cadherin-associated protein), beta 1, 88kDa
RHOJ	243481_at	ras homolog gene family, member J
PDGFC	218718_at	platelet derived growth factor C
HIF1A	200989_at	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
ACTG1	201550_x_at	actin, gamma 1
ITGB5	201124_at	integrin, beta 5
PXN	201087_at	paxillin
PTEN	233314_at	phosphatase and tensin homolog
PIK3C2A	241905_at	phosphoinositide-3-kinase, class 2, alpha polypeptide
CHD1	204258_at	chromodomain helicase DNA binding protein 1
ITGB1	211945_s_at	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MSK12)
PPP2R5C	1557718_at	protein phosphatase 2, regulatory subunit B', gamma
RHOT2	65770_at	ras homolog gene family, member T2
SH2B2	205367_at	SH2B adaptor protein 2
	AFFX-	
ACTB	HSAC07/X00351_5_at	actin, beta
PPP2R2A	202313_at	protein phosphatase 2, regulatory subunit B, alpha
ACTN2	203861_s_at	actinin, alpha 2
MAPK1	208351_s_at	mitogen-activated protein kinase 1
CFL2	224352_s_at	cofilin 2 (muscle)
TESK1	204106_at	testis-specific kinase 1
PPP2R1A	200695_at	protein phosphatase 2, regulatory subunit A, alpha
MYH7B	233949_s_at	myosin, heavy chain 7B, cardiac muscle, beta
PPP2R5B	635_s_at	protein phosphatase 2, regulatory subunit B', beta
MYH14	226988_s_at	myosin, heavy chain 14, non-muscle
MAP2K6	205698_s_at	mitogen-activated protein kinase kinase 6
FLNC	207876_s_at	filamin C, gamma
VEGFA	210513_s_at	vascular endothelial growth factor A
PARVB	216254_at	parvin, beta
	Integrin Signaling	
MYL5	205145_s_at	myosin, light chain 5, regulatory
CAPN6	202965_s_at	calpain 6
ACTA2	243140_at	actin, alpha 2, smooth muscle, aorta
TSPAN2	214606_at	tetraspanin 2
ACTN3	206891_at	actinin, alpha 3
ITGB8	226189_at	integrin, beta 8
ITGA4	213416_at	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
PARVA	222454_s_at	parvin, alpha
PIK3CD	203879_at	phosphoinositide-3-kinase, catalytic, delta polypeptide
AKT2	203809_s_at	v-akt murine thymoma viral oncogene homolog 2
ITGB2	202803_s_at	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)

AKT3	212609_s_at	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
RAC2	213603_s_at	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding prote
RAP2B	213923_at	RAP2B, member of RAS oncogene family
ITGA9	227297_at	integrin, alpha 9
RHOB	212099_at	ras homolog gene family, member B
WIPF1	202663_at	WAS/WASL interacting protein family, member 1
PTK2	1559529_at	PTK2 protein tyrosine kinase 2
FYN	210105_s_at	FYN oncogene related to SRC, FGR, YES
ARPC5	211963_s_at	actin related protein 2/3 complex, subunit 5, 16kDa
RHOJ	243481_at	ras homolog gene family, member J
PAK1	226507_at	p21 protein (Cdc42/Rac)-activated kinase 1
ASAP1	224791_at	ArfGAP with SH3 domain, ankyrin repeat and PH domain 1
PLCG1	202789_at	phospholipase C, gamma 1
LIMS1	1570259_at	LIM and senescent cell antigen-like domains 1
CAV1	203065_s_at	caveolin 1, caveolae protein, 22kDa
ACTG1	201550_x_at	actin, gamma 1
ITGB5	201124_at	integrin, beta 5
PXN	201087_at	paxillin
PTEN	233314_at	phosphatase and tensin homolog
RAP1B	200833_s_at	RAP1B, member of RAS oncogene family
SHC1	214853_s_at	SHC (Src homology 2 domain containing) transforming protein 1
PIK3C2A	241905_at	phosphoinositide-3-kinase, class 2, alpha polypeptide
ARHGAP26	226576_at	Rho GTPase activating protein 26
ARHGAP5	217936_at	Rho GTPase activating protein 5
RALB	202100_at	v-ral simian leukemia viral oncogene homolog B (ras related; GTP binding prote
ARHGEF7	202548_s_at	Rho guanine nucleotide exchange factor (GEF) 7
ITGA6	215177_s_at	integrin, alpha 6
		integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes
ITGB1	211945_s_at	MSK12)
ARF1	200065_s_at	ADP-ribosylation factor 1
CAPN7	203356_at	calpain 7
TSPAN7	202242_at	tetraspanin 7
RHOT2	65770_at	ras homolog gene family, member T2
	AFFX-	
ACTB	HSAC07/X00351_5_at	actin, beta
ARF6	203311_s_at	ADP-ribosylation factor 6
ACTN2	203861_s_at	actinin, alpha 2
MAPK1	208351_s_at	mitogen-activated protein kinase 1
MYL12A	201319_at	myosin, light chain 12A, regulatory, non-sarcomeric
MRAS	206538_at	muscle RAS oncogene homolog
BCAR3	204032_at	breast cancer anti-estrogen resistance 3
PARVB	216254_at	parvin, beta

Antigen Presentation Pathway

NLRC5	226474_at	NLR family, CARD domain containing 5
HLA-DPB1	201137_s_at	major histocompatibility complex, class II, DP beta 1
B2M	232311_at	beta-2-microglobulin
HLA-DPA1	211990_at	major histocompatibility complex, class II, DP alpha 1

HLA-DRA	208894_at	major histocompatibility complex, class II, DR alpha
HLA-B	208729_x_at	major histocompatibility complex, class I, B
HLA-F	204806_x_at	major histocompatibility complex, class I, F
HLA-DMA	217478_s_at	major histocompatibility complex, class II, DM alpha
HLA-E	200904_at	major histocompatibility complex, class I, E
HLA-C	216526_x_at	major histocompatibility complex, class I, C
HLA-DMB	203932_at	major histocompatibility complex, class II, DM beta
HLA-A	215313_x_at	major histocompatibility complex, class I, A
HLA-G	211528_x_at	major histocompatibility complex, class I, G
PSMB5	208799_at	proteasome (prosome, macropain) subunit, beta type, 5
PSMB6	208827_at	proteasome (prosome, macropain) subunit, beta type, 6

6 wks rehab vs. control

Gene	Affymetrix accession #	Gene description
		Molecular Mechanisms of Cancer
GNA15	205349_at	guanine nucleotide binding protein (G protein), alpha 15 (Gq class)
CCND1	208712_at	cyclin D1
SMAD7	204790_at	SMAD family member 7
FAS	204781_s_at	Fas (TNF receptor superfamily, member 6)
SMAD9	227719_at	SMAD family member 9
PRKD1	205880_at	protein kinase D1
IRS1	242979_at	insulin receptor substrate 1
BMP2	205290_s_at	bone morphogenetic protein 2
BID	204493_at	BH3 interacting domain death agonist
BMP5	205430_at	bone morphogenetic protein 5
RHOB	212099_at	ras homolog gene family, member B
PTK2	1559529_at	PTK2 protein tyrosine kinase 2
FYN	210105_s_at	FYN oncogene related to SRC, FGR, YES
SYNGAP1	230297_x_at	synaptic Ras GTPase activating protein 1
CTNNB1	223679_at	catenin (cadherin-associated protein), beta 1, 88kDa
MYC	202431_s_at	v-myc myelocytomatosis viral oncogene homolog (avian)
CDK6	224847_at	cyclin-dependent kinase 6
RALGDS	209050_s_at	ral guanine nucleotide dissociation stimulator
TCF4	203753_at	transcription factor 4
JUN	201466_s_at	jun proto-oncogene
RAP2B	213923_at	RAP2B, member of RAS oncogene family
RHOJ	238905_at	ras homolog gene family, member J
GAB1	229114_at	GRB2-associated binding protein 1
RHOC	200885_at	ras homolog gene family, member C
ARHGEF2	207629_s_at	Rho/Rac guanine nucleotide exchange factor (GEF) 2
FZD4	218665_at	frizzled homolog 4 (Drosophila)
TCF3	213811_x_at	transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)
HIF1A	200989_at	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
TGFBR2	208944_at	transforming growth factor, beta receptor II (70/80kDa)
GNAI2	201040_at	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide
RAP1B	200833_s_at	RAP1B, member of RAS oncogene family
CASP7	207181_s_at	caspase 7, apoptosis-related cysteine peptidase
SMAD1	210993_s_at	SMAD family member 1
PLCB1	213222_at	phospholipase C, beta 1 (phosphoinositide-specific)
RBPJ	207785_s_at	recombination signal binding protein for immunoglobulin kappa J region
GNAI3	201179_s_at	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide
FNBP1	212288_at	formin binding protein 1
CDC42	208728_s_at	cell division cycle 42 (GTP binding protein, 25kDa)
LAMTOR3	217971_at	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3
MAP2K4	203266_s_at	mitogen-activated protein kinase kinase 4
XIAP	235222_x_at	X-linked inhibitor of apoptosis
RHOT2	221789_x_at	ras homolog gene family, member T2
MAPK14	210449_x_at	mitogen-activated protein kinase 14

CASP9	210775_x_at	caspase 9, apoptosis-related cysteine peptidase
MAP2K2	202424_at	mitogen-activated protein kinase kinase 2
LRP6	34697_at	low density lipoprotein receptor-related protein 6
MAPK3	212046_x_at	mitogen-activated protein kinase 3
CFLAR	209508_x_at	CASP8 and FADD-like apoptosis regulator
CAMK2B	213276_at	calcium/calmodulin-dependent protein kinase II beta
HIPK2	213763_at	homeodomain interacting protein kinase 2
AKT2	236664_at	v-akt murine thymoma viral oncogene homolog 2
PA2G4	216422_at	proliferation-associated 2G4, 38kDa
PRKAG1	201805_at	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
PSEN1	207782_s_at	presenilin 1
SMAD5	205188_s_at	SMAD family member 5
JAK1	239695_at	Janus kinase 1
GSK3B	240562_at	Isoform 1 of Glycogen synthase kinase-3 beta
ARHGEF12	1566093_at	Rho guanine nucleotide exchange factor (GEF) 12

ILK Signaling

MYL5	205145_s_at	myosin, light chain 5, regulatory
CCND1	208712_at	cyclin D1
ACTA2	243140_at	actin, alpha 2, smooth muscle, aorta
PGF	209652_s_at	placental growth factor
FN1	211719_x_at	
IRS1	242979_at	insulin receptor substrate 1
BMP2	205290_s_at	bone morphogenetic protein 2
TMSB10/TMSB4X	217733_s_at	thymosin beta 10
RHOB	212099_at	ras homolog gene family, member B
PTK2	1559529_at	PTK2 protein tyrosine kinase 2
VIM	201426_s_at	vimentin
CTNNB1	223679_at	catenin (cadherin-associated protein), beta 1, 88kDa
PDGFC	218718_at	platelet derived growth factor C
MYC	202431_s_at	v-myc myelocytomatosis viral oncogene homolog (avian)
JUN	201466_s_at	jun proto-oncogene
RHOJ	238905_at	ras homolog gene family, member J
RHOC	200885_at	ras homolog gene family, member C
ACTB	213867_x_at	actin, beta
HIF1A	200989_at	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
ACTG1	211983_x_at	actin, gamma 1
PTEN	233254_x_at	phosphatase and tensin homolog
PARVA	1563458_at	parvin, alpha
FNBP1	212288_at	formin binding protein 1
CDC42	208728_s_at	cell division cycle 42 (GTP binding protein, 25kDa)
MAP2K4	203266_s_at	mitogen-activated protein kinase kinase 4
PPP2R5D	202513_s_at	protein phosphatase 2, regulatory subunit B', delta
RHOT2	221789_x_at	ras homolog gene family, member T2
PPP2R5B	635_s_at	protein phosphatase 2, regulatory subunit B', beta
MAPK3	212046_x_at	mitogen-activated protein kinase 3

AKT2	236664_at	v-akt murine thymoma viral oncogene homolog 2
ACTN2	203863_at	actinin, alpha 2
PPP2R1A	200695_at	protein phosphatase 2, regulatory subunit A, alpha
PPP2CA	235502_at	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
GSK3B	240562_at	Isoform 1 of Glycogen synthase kinase-3 beta
ITGB3	204627_s_at	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)

Clathrin-mediated Endocytosis Signaling

USP9X	230543_at	ubiquitin specific peptidase 9, X-linked
ACTA2	243140_at	actin, alpha 2, smooth muscle, aorta
IGF1	209540_at	insulin-like growth factor 1 (somatomedin C)
PGF	209652_s_at	placental growth factor
PDGFD	219304_s_at	platelet derived growth factor D
ARRB1	43511_s_at	arrestin, beta 1
DAB2	201278_at	disabled homolog 2, mitogen-responsive phosphoprotein (Drosophila)
PDGFC	218718_at	platelet derived growth factor C
ACTB	213867_x_at	actin, beta
ARF6	224788_at	ADP-ribosylation factor 6
ARPC5	1555797_a_at	actin related protein 2/3 complex, subunit 5, 16kDa
ACTG1	211983_x_at	actin, gamma 1
NUMB	230462_at	numb homolog (Drosophila)
MYO6	203216_s_at	myosin VI
CSNK2A2	224922_at	casein kinase 2, alpha prime polypeptide
RAB5C	201140_s_at	RAB5C, member RAS oncogene family
CSNK2B	231777_at	Isoform 1 of Lymphocyte antigen 6 complex locus protein G5b
SNX9	223027_at	sorting nexin 9
CDC42	208728_s_at	cell division cycle 42 (GTP binding protein, 25kDa)
PPP3CB	202432_at	protein phosphatase 3, catalytic subunit, beta isozyme
TSG101	201758_at	tumor susceptibility gene 101
PPP3CC	207000_s_at	protein phosphatase 3, catalytic subunit, gamma isozyme
SH3GLB1	209091_s_at	SH3-domain GRB2-like endophilin B1
CLTCL1	205944_s_at	clathrin, heavy chain-like 1
DNM2	202253_s_at	dynamamin 2
CSNK2A1	212075_s_at	casein kinase 2, alpha 1 polypeptide
ACTR2	200727_s_at	ARP2 actin-related protein 2 homolog (yeast)
EPS15	234278_at	epidermal growth factor receptor pathway substrate 15
FGF1	208240_s_at	fibroblast growth factor 1 (acidic)
CLTC	210498_at	clathrin, heavy chain (Hc)
ITGB3	204627_s_at	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)

Integrin Signaling

CAPN6	202965_s_at	calpain 6
MYL5	205145_s_at	myosin, light chain 5, regulatory
ACTA2	243140_at	actin, alpha 2, smooth muscle, aorta
TSPAN2	227236_at	tetraspanin 2
ITGA6	201656_at	integrin, alpha 6
ARF1	232175_at	ADP-ribosylation factor 1
RHOB	212099_at	ras homolog gene family, member B

PTK2	1559529_at	PTK2 protein tyrosine kinase 2
FYN	210105_s_at	FYN oncogene related to SRC, FGR, YES
RAP2B	213923_at	RAP2B, member of RAS oncogene family
RHOJ	238905_at	ras homolog gene family, member J
PLCG1	202789_at	phospholipase C, gamma 1
RHOC	200885_at	ras homolog gene family, member C
WIPF1	202664_at	WAS/WASL interacting protein family, member 1
ITGA10	206766_at	integrin, alpha 10
ACTB	213867_x_at	actin, beta
ARF6	224788_at	ADP-ribosylation factor 6
TLN1	203254_s_at	talin 1
ARPC5	1555797_a_at	actin related protein 2/3 complex, subunit 5, 16kDa
ACTG1	211983_x_at	actin, gamma 1
RAP1B	200833_s_at	RAP1B, member of RAS oncogene family
ASAP1	224791_at	ASAP1 intronic transcript 1 (non-protein coding)
PTEN	233254_x_at	phosphatase and tensin homolog
PARVA	1563458_at	parvin, alpha
FNBP1	212288_at	formin binding protein 1
CDC42	208728_s_at	cell division cycle 42 (GTP binding protein, 25kDa)
MAP2K4	203266_s_at	mitogen-activated protein kinase kinase 4
RHOT2	221789_x_at	ras homolog gene family, member T2
MAP2K2	202424_at	mitogen-activated protein kinase kinase 2
MAPK3	212046_x_at	mitogen-activated protein kinase 3
ACTR2	200727_s_at	ARP2 actin-related protein 2 homolog (yeast)
AKT2	236664_at	v-akt murine thymoma viral oncogene homolog 2
ACTN2	203863_at	actinin, alpha 2
GSK3B	240562_at	Isoform 1 of Glycogen synthase kinase-3 beta
ITGB3	204627_s_at	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)

Protein Ubiquitination Pathway

USP9X	230543_at	ubiquitin specific peptidase 9, X-linked
HSPA6	213418_at	heat shock 70kDa protein 6 (HSP70B')
PSMB9	1555853_at	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional p
HSPA13	202558_s_at	heat shock protein 70kDa family, member 13
NEDD4L	212448_at	neural precursor cell expressed, developmentally down-regulated 4-like
VHL	1559227_s_at	von Hippel-Lindau tumor suppressor
HSPB11	203960_s_at	heat shock protein family B (small), member 11
DNAJC18	238115_at	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 18
PSMD10	1554577_a_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10
USP1	202413_s_at	ubiquitin specific peptidase 1
CDC23	202892_at	cell division cycle 23 homolog (S. cerevisiae)
PSMB1	200876_s_at	proteasome (prosome, macropain) subunit, beta type, 1
RBX1	218117_at	ring-box 1, E3 ubiquitin protein ligase
UBE2N	201523_x_at	ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast)
PSMD6	202753_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6
PSMD12	202353_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12
UBE2A	201898_s_at	ubiquitin-conjugating enzyme E2A (RAD6 homolog)
CUL2	203079_s_at	cullin 2

CDC34	212540_at	cell division cycle 34 homolog (<i>S. cerevisiae</i>)
PSMD9	207805_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9
UBA1	200964_at	ubiquitin-like modifier activating enzyme 1
TCEB1	202824_s_at	transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)
PSMB2	200039_s_at	proteasome (prosome, macropain) subunit, beta type, 2
DNAJC7	202416_at	DnaJ (Hsp40) homolog, subfamily C, member 7
HSP90AB1	200064_at	heat shock protein 90kDa alpha (cytosolic), class B member 1
PSMC2	201067_at	proteasome (prosome, macropain) 26S subunit, ATPase, 2
PSMB5	208799_at	proteasome (prosome, macropain) subunit, beta type, 5
XIAP	235222_x_at	X-linked inhibitor of apoptosis
SUGT1	224309_s_at	SGT1, suppressor of G2 allele of SKP1 (<i>S. cerevisiae</i>)
UBE2M	203109_at	ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast)
PSMD4	211609_x_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 4
DNAJC24	213853_at	DnaJ (Hsp40) homolog, subfamily C, member 24
PSMD3	201388_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 3
USP2	207213_s_at	ubiquitin specific peptidase 2
HSPA9	200690_at	heat shock 70kDa protein 9 (mortalin)
USP16	222616_s_at	ubiquitin specific peptidase 16
PSMD1	201198_s_at	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1
DNAJB6	209015_s_at	DnaJ (Hsp40) homolog, subfamily B, member 6
USP37	232033_at	ubiquitin specific peptidase 37
DNAJC28	220372_at	DnaJ (Hsp40) homolog, subfamily C, member 28
BAG1	202387_at	BCL2-associated athanogene
UBR2	215558_at	ubiquitin protein ligase E3 component n-recognin 2
USP54	227334_at	ubiquitin specific peptidase 54