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Supplemental Data

Supplemental Table S1. LPL induced differential expression listed by fold change.

Gene Title	Gene Symbol	Representative Public ID	Fold Change
C1q and tumor necrosis factor related protein 3	C1QTNF3	NM_030945	5.2
phosphoglycerate kinase 2	PGK2	AL121974	3.2
BCL2-related protein A1	BCL2A1	NM_004049	3.1
heterogeneous nuclear ribonucleoprotein A1	HNRPA1	AL022097	3.0
caspase 10, apoptosis-related cysteine peptidase	CASP10	NM_001230	2.8
excision repair cross-complementing rodent repair deficiency, complementation group 6	ERCC6	NM_000124	2.5
calmodulin 1 (phosphorylase kinase, delta)	CALM1	N25325	2.5
oxidized low density lipoprotein (lectin-like) receptor 1	OLR1	AF035776	2.5
ribosomal protein S3A	RPS3A	AL356115	2.4
Rho GTPase activating protein 24	ARHGAP24	NM_031305	2.4
histamine N-methyltransferase	HNMT	N40285	2.3
kelch-like 24 (Drosophila)	KLHL24	AW006750	2.3
transforming growth factor, beta 2	TGFB2	NM_003238	2.3
zinc finger protein, X-linked	ZFX	NM_003410	2.2
fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)	FSCN1	BC004908	2.2
olfactory receptor, family 2, subfamily A, member 20 pseudogene	OR2A20P	AA731709	2.2
collagen, type VII, alpha 1	COL7A1	NM_000094	2.2
Hydroxysteroid dehydrogenase like 2	HSDL2	AK023959	2.2
SH2 domain containing 3A	SH2D3A	N71739	2.2
CDNA: FLJ23194 fis, clone REC00490	---	AK026847	2.2
FAST kinase domains 2	FASTKD2	NM_014929	2.2
IQ motif containing C	IQCC	NM_018134	2.1
transient receptor potential cation channel, subfamily C, member 1	TRPC1	NM_003304	2.1
SH3 domain binding glutamic acid-rich protein	SH3BGR	NM_007341	2.1
serine/threonine kinase 3 (STE20 homolog, yeast)	STK3	Z25422	2.1
thrombospondin, type I, domain containing 1	THSD1	NM_018676	2.1
nuclear receptor subfamily 2, group F, member 2	NR2F2	AL037401	2.1
chromosome 18 open reading frame 25	C18orf25	W28849	2.1
methionyl-tRNA synthetase	MARS	AA621558	2.1
furin	FURIN	NM_002569	2.1
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	NDUFB8	AA723057	2.1
serine/threonine kinase 4	STK4	NM_006282	2.0
oxysterol binding protein-like 10	OSBPL10	NM_017784	2.0
phospholipase A2, group VII	PLA2G7	NM_005084	2.0
nuclear factor I/X (CCAAT-binding transcription factor)	NFIX	U18759	2.0
HLA-B associated transcript 1	BAT1	AL525504	2.0
SNW domain containing 1	SNW1	AL390153	2.0
OTU domain containing 4	OTUD4	NM_014928	2.0
chromosome 21 open reading frame 55	C21orf55	NM_017833	2.0
phosphatidylinositol 4-kinase type II	PI4KII	H84390	2.0

Supplemental Table S1. LPL induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
loss of heterozygosity, 11, chromosomal region 2, gene A	LOH11CR2A	BC001234	2.0
complement component 3a receptor 1	C3AR1	U62027	2.0
metastasis suppressor 1	MTSS1	NM_014751	2.0
coatomer protein complex, subunit alpha	COPA	AI621079	-2.0
3'UTR of hypothetical protein (ORF1)	---	AL523076	-2.0
vacuolar protein sorting 13 homolog D (S. cerevisiae)	VPS13D	NM_018156	-2.0
egl nine homolog 3 (C. elegans)	EGLN3	NM_022073	-2.0
olfactory receptor, family 1, subfamily D, member 2	OR1D2	NM_002548	-2.0
paxillin	PXN	NM_002859	-2.0
low density lipoprotein receptor-related protein 3	LRP3	NM_002333	-2.0
guanine nucleotide binding protein (G protein), gamma 11	GNG11	NM_004126	-2.0
thrombospondin 1	THBS1	NM_003246	-2.0
similar to cell recognition molecule CASPR3	RP11-138L21.1	NM_024879	-2.1
tubulin, alpha 3c	TUBA3C	L11645	-2.1
differentially expressed in FDCP 6 homolog (mouse)	DEF6	NM_022047	-2.1
Clone 23605 mRNA sequence	---	AF007136	-2.1
solute carrier family 35, member C2	SLC35C2	NM_015945	-2.1
L-2-hydroxyglutarate dehydrogenase	L2HGDH	NM_024884	-2.2
GREB1 protein	GREB1	NM_014668	-2.2
RUN and FYVE domain containing 2	RUFY2	NM_017987	-2.2
BTB and CNC homology 1, basic leucine zipper transcription factor 2	BACH2	NM_021813	-2.2
heparan sulfate proteoglycan 2	HSPG2	AI991033	-2.2
interleukin 1 receptor accessory protein	IL1RAP	AF167343	-2.3
mucin 1, cell surface associated	MUC1	NM_002456	-2.3
Guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1	GNB2L1	AA443762	-2.3
zinc finger, FYVE domain containing 9	ZFYVE9	NM_004799	-2.3
nucleoporin 205kDa	NUP205	AW206115	-2.4
SP110 nuclear body protein	SP110	NM_004510	-2.4
steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1)	SRD5A1	NM_001047	-2.4
Ribosomal protein S11	RPS11	BF680255	-2.6
MON2 homolog (S. cerevisiae)	MON2	BG548738	-2.7
zinc finger protein 324B	ZNF324B	AI744673	-2.7
leucine rich repeat containing 40	LRRC40	AL390149	-4.4
catenin, beta interacting protein 1	CTNNBIP1	NM_020248	-5.0

Supplemental Table S2. TGRL induced differential expression listed by fold change.

Gene Title	Gene Symbol	Representative Public ID	Fold Change
C1q and tumor necrosis factor related protein 3	C1QTNF3	NM_030945	4.4
melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor)	MC1R	BG034972	2.8
syntrophin, alpha 1 (dystrophin-associated protein A1, 59kDa, acidic component)	SNTA1	NM_003098	2.7
oxidized low density lipoprotein (lectin-like) receptor 1	OLR1	AF035776	2.7
SH3 domain binding glutamic acid-rich protein	SH3BGR	NM_007341	2.6
HLA-B associated transcript 1	BAT1	AL525504	2.6
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	NDUFB8	AA723057	2.6
methionyl-tRNA synthetase	MARS	AA621558	2.6
calcium/calmodulin-dependent protein kinase kinase 2, beta	CAMKK2	AK024748	2.6
required for meiotic nuclear division 5 homolog B (S. cerevisiae)	RMND5B	AW131783	2.6
stimulated by retinoic acid gene 6 homolog (mouse)	STRA6	AF352728	2.4
F11 receptor	F11R	AF154005	2.4
tripartite motif-containing 66	TRIM66	AW271713	2.4
heterogeneous nuclear ribonucleoprotein A1	HNRPA1	AL022097	2.3
ras homolog gene family, member T2	RHOT2	BC004327	2.3
receptor (G protein-coupled) activity modifying protein 1	RAMP1	NM_005855	2.3
B-cell CLL/lymphoma 6 (zinc finger protein 51)	BCL6	NM_001706	2.3
BCL2-antagonist of cell death	BAD	U66879	2.3
chromosome 8 open reading frame 60	C8orf60	NM_024984	2.3
solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	SLC7A8	AL365347	2.3
RAB11B, member RAS oncogene family	RAB11B	X79780	2.3
BCL2-like 11 (apoptosis facilitator)	BCL2L11	AA629050	2.3
pyrin and HIN domain family, member 1	PYHIN1	AK024890	2.3
DBF4 homolog B (S. cerevisiae)	DBF4B	NM_025104	2.3
kelch-like 24 (Drosophila)	KLHL24	AW006750	2.3
zinc finger protein 143	ZNF143	AW162015	2.3
U-box domain containing 5	UBOX5	NM_014948	2.2
hypothetical protein LOC286434	LOC286434	AW452796	2.2
blocked early in transport 1 homolog (S. cerevisiae)-like	BET1L	NM_016526	2.2
ribosomal protein S3A	RPS3A	AL356115	2.2
TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated factor, 31kDa	TAF9B	AF077053	2.2
protein kinase, cAMP-dependent, catalytic, alpha	PRKACA	NM_002730	2.2
sulfotransferase family, cytosolic, 1B, member 1	SULT1B1	NM_014465	2.2
ribosomal protein S6 kinase, 90kDa, polypeptide 5	RPS6KA5	NM_004755	2.2
mitogen-activated protein kinase kinase 6	MAP2K6	U39657	2.2
epsin 2	EPN2	NM_014964	2.2
major histocompatibility complex, class II, DR beta 1	HLA-DRB1	U66825	2.2

Supplemental Table S2. TGRL induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
TRK-fused gene	TFG	BF057492	2.1
MAP7 domain containing 3	MAP7D3	NM_024765	2.1
fatty acid binding protein 4, adipocyte	FABP4	NM_001442	2.1
caspase 10, apoptosis-related cysteine peptidase	CASP10	NM_001230	2.1
nuclear receptor co-repressor 1	NCOR1	AW771910	2.1
START domain containing 5	STARD5	T54159	2.1
tRNA aspartic acid methyltransferase 1	TRDMT1	AJ223333	2.1
SH2 domain containing 3A	SH2D3A	N71739	2.1
protein kinase, AMP-activated, beta 2 non-catalytic subunit	PRKAB2	NM_005399	2.1
PTPRF interacting protein, binding protein 1 (liprin beta 1)	PPFIBP1	NM_003622	2.1
rhomboid 5 homolog 2 (Drosophila)	RHBDF2	NM_024599	2.1
protein phosphatase 2A activator, regulatory subunit 4	PPP2R4	X86428	2.1
melanophilin	MLPH	NM_024101	2.0
olfactory receptor, family 7, subfamily E, member 47 pseudogene	OR7E47P	AF065854	2.0
ribonuclease L (2',5'-oligoisoadenylate synthetase-dependent)	RNASEL	NM_021133	2.0
collagen, type XXI, alpha 1	COL21A1	NM_030820	2.0
ectodermal-neural cortex (with BTB-like domain)	ENC1	AF010314	2.0
protein tyrosine phosphatase type IVA, member 1	PTP4A1	BF576710	-2.0
La ribonucleoprotein domain family, member 4	LARP4	AI743740	-2.0
ribosomal protein S6 kinase, 70kDa, polypeptide 1	RPS6KB1	NM_003161	-2.0
phosphatidic acid phosphatase type 2A	PPAP2A	AF014403	-2.0
basic leucine zipper nuclear factor 1 (JEM-1)	BLZF1	NM_003666	-2.0
proliferation-associated 2G4, 38kDa	PA2G4	AL136460	-2.0
Bardet-Biedl syndrome 10	BBS10	NM_024685	-2.0
chromosome 10 open reading frame 97	C10orf97	NM_024948	-2.0
huntingtin (Huntington disease)	HD	NM_002111	-2.0
zinc finger, DHHC-type containing 3	ZDHHC3	NM_016598	-2.0
AT hook, DNA binding motif, containing 1	AHDC1	NM_015699	-2.0
B-cell CLL/lymphoma 3	BCL3	NM_005178	-2.1
KIAA1641	KIAA1641	AB046861	-2.1
similar to Putative S100 calcium-binding protein A11 pseudogene	LOC729659	NM_021039	-2.1
Centrosomal protein 152kDa	CEP152	AK025247	-2.1
zinc finger protein 257	ZNF257	AF070651	-2.1
KIAA1009	KIAA1009	AK023613	-2.1
tumor necrosis factor, alpha-induced protein 6	TNFAIP6	NM_007115	-2.1
MRNA; cDNA DKFZp564F133 (from clone DKFZp564F133)	---	AL049263	-2.1
alpha 1,4-galactosyltransferase (globotriaosylceramide synthase)	A4GALT	NM_017436	-2.1
KIAA0562	KIAA0562	AI936976	-2.1
ferredoxin 1	FDX1	NM_004109	-2.1
ARS2 protein	ARS2	BE646076	-2.1

Supplemental Table S2. TGRL induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
enabled homolog (Drosophila)	ENAH	NM_018212	-2.1
RAS-like, family 11, member B	RASL11B	NM_023940	-2.1
ATPase, Class I, type 8B, member 1	ATP8B1	BG252666	-2.2
SHC (Src homology 2 domain containing) transforming protein 1	SHC1	AI809967	-2.2
F-box protein 11	FBXO11	NM_025133	-2.2
methyltransferase like 7A	METTL7A	BC004492	-2.2
MANSC domain containing 1	MANSC1	NM_018050	-2.2
Solute carrier family 30 (zinc transporter), member 1	SLC30A1	AI972416	-2.2
Alstrom syndrome 1	ALMS1	AB002326	-2.2
zinc finger protein, X-linked	ZFX	R51161	-2.2
interleukin 1 receptor accessory protein	IL1RAP	AF167343	-2.2
melanoma antigen family F, 1	MAGEF1	NM_022149	-2.2
solute carrier family 2 (facilitated glucose transporter), member 3	SLC2A3	NM_006931	-2.3
Yip1 domain family, member 4	YIPF4	BC004875	-2.3
chondroitin sulfate proteoglycan 4	CSPG4	BE857703	-2.3
tudor domain containing 3	TDRD3	AU156998	-2.3
Abelson helper integration site 1	AHI1	NM_017651	-2.3
SET binding protein 1	SETBP1	NM_015559	-2.4
interleukin 8	IL8	NM_000584	-2.4
polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	POLR2C	AJ224143	-2.4
mitogen-activated protein kinase 13	MAPK13	BC000433	-2.4
zinc finger, X-linked, duplicated A	ZXDA	BF509566	-2.4
PHD finger protein 3	PHF3	NM_015153	-2.5
Ribosomal protein S11	RPS11	BF680255	-2.5
thrombospondin 1	THBS1	NM_003246	-2.5
dopey family member 1	DOPEY1	AL162056	-2.5
adaptor-related protein complex 3, sigma 2 subunit	AP3S2	BC002785	-2.6
chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)	CXCL1	NM_001511	-2.6
zinc finger protein 623	ZNF623	NM_014789	-2.7
required for meiotic nuclear division 5 homolog A (S. cerevisiae)	RMND5A	H65865	-2.8
zinc finger protein 193	ZNF193	NM_006299	-2.8
CDNA FLJ14090 fis, clone MAMMA1000264	---	AU147295	-2.8
YY2 transcription factor	YY2	U73479	-2.9
ribosomal protein S2	RPS2	L48784	-2.9
mediator of RNA polymerase II transcription, subunit 6 homolog (S. cerevisiae)	MED6	NM_005466	-3.1
ADAM metallopeptidase with thrombospondin type 1 motif, 3	ADAMTS3	AB002364	-3.1
tumor protein D52	TPD52	NM_005079	-4.0

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change.

Gene Title	Gene Symbol	Representative Public ID	Fold Change
heat shock 70kDa protein 6 (HSP70B')	HSPA6	NM_002155	38.1
growth differentiation factor 15	GDF15	BC000529	21.8
serum/glucocorticoid regulated kinase	SGK	NM_005627	13.7
activating transcription factor 3	ATF3	NM_001674	13.1
pleckstrin homology-like domain, family A, member 1	PHLDA1	NM_007350	10.6
DNA-damage-inducible transcript 4	DDIT4	NM_019058	8.5
heat shock 70kDa protein 1A	HSPA1A	NM_005345	7.8
DNA-damage-inducible transcript 3	DDIT3	BC003637	7.8
v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	MAFF	AL021977	7.6
v-maf musculoaponeurotic fibrosarcoma oncogene homolog B (avian)	MAFB	NM_005461	7.2
kelch-like 24 (Drosophila)	KLHL24	AW006750	6.5
chemokine (C-C motif) ligand 20	CCL20	NM_004591	6.5
methionyl-tRNA synthetase	MARS	AA621558	6.3
jun oncogene	JUN	BC002646	6.1
adipose differentiation-related protein	ADFP	BC005127	5.9
chemokine (C-C motif) ligand 3	CCL3	NM_002983	5.8
BCL2-related protein A1	BCL2A1	NM_004049	5.5
inhibin, beta E	INHBE	BC005161	5.5
basic helix-loop-helix domain containing, class B, 3	BHLHB3	AB044088	5.3
fatty acid binding protein 4, adipocyte	FABP4	NM_001442	5.2
serine dehydratase	SDS	NM_006843	5.1
B-cell CLL/lymphoma 6 (zinc finger protein 51)	BCL6	NM_001706	5.1
regulator of G-protein signalling 2, 24kDa	RGS2	NM_002923	5.1
heat shock 70kDa protein 1B	HSPA1B	NM_005346	5.0
Rho family GTPase 3	RND3	BG054844	5.0
heme oxygenase (decycling) 1	HMOX1	NM_002133	4.4
2'-5'-oligoadenylate synthetase-like	OASL	AF063612	4.4
oxidized low density lipoprotein (lectin-like) receptor 1	OLR1	AF035776	4.4
vascular endothelial growth factor A	VEGFA	AF022375	4.3
nuclear protein 1	NUPR1	AF135266	4.2
tribbles homolog 3 (Drosophila)	TRIB3	NM_021158	4.0
hairy and enhancer of split 1, (Drosophila)	HES1	BE973687	4.0
polyhomeotic homolog 3 (Drosophila)	PHC3	AK023029	3.8
basic helix-loop-helix domain containing, class B, 2	BHLHB2	NM_003670	3.8
heparin-binding EGF-like growth factor	HBEGF	NM_001945	3.6
apolipoprotein L domain containing 1	APOLD1	NM_030817	3.6
BCL2-like 11 (apoptosis facilitator)	BCL2L11	AA629050	3.6
protein phosphatase 1, regulatory (inhibitor) subunit 15A	PPP1R15A	U83981	3.5
plasminogen activator, urokinase	PLAU	NM_002658	3.5
spermidine/spermine N1-acetyltransferase 1	SAT1	NM_002970	3.5
BCL2-associated athanogene 3	BAG3	NM_004281	3.5
H2.0-like homeobox 1 (Drosophila)	HLX1	M60721	3.5
hypothetical protein FLJ23861	FLJ23861	AL133053	3.4

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
golgi autoantigen, golgin subfamily a, 4	GOLGA4	AW438464	3.4
growth arrest and DNA-damage-inducible, beta	GADD45B	NM_015675	3.4
sorting nexin family member 27	SNX27	NM_030918	3.4
Kruppel-like factor 4 (gut)	KLF4	AF105036	3.4
START domain containing 13	STARD13	AA128023	3.3
HLA-B associated transcript 1	BAT1	AL525504	3.3
DnaJ (Hsp40) homolog, subfamily B, member 1	DNAJB1	NM_006145	3.3
Ubiquitin protein ligase E3 component n-recognin 2	UBR2	AK001118	3.3
human immunodeficiency virus type I enhancer binding protein 2	HIVEP2	AL023584	3.3
mitogen-activated protein kinase kinase 6	MAP2K6	U39657	3.3
dual specificity phosphatase 4	DUSP4	NM_001394	3.2
regulator of G-protein signalling 16	RGS16	BF304996	3.2
ADP-ribosylation factor-like 4A	ARL4A	NM_005738	3.2
nuclear factor of activated T-cells 5, tonicity-responsive	NFAT5	NM_006599	3.2
aminolevulinate, delta-, synthase 1	ALAS1	NM_000688	3.1
asparagine synthetase	ASNS	AK000993	3.1
phorbol-12-myristate-13-acetate-induced protein 1	PMAIP1	NM_021127	3.1
chemokine (C-X-C motif) receptor 4	CXCR4	AF348491	3.1
tec protein tyrosine kinase	TEC	NM_003215	3.1
CDC-like kinase 1	CLK1	AI251890	3.1
nuclear factor, interleukin 3 regulated	NFIL3	NM_005384	3.0
solute carrier family 38, member 2	SLC38A2	NM_018976	3.0
CCAAT/enhancer binding protein (C/EBP), beta	CEBPB	AL564683	3.0
solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	SLC7A11	AB040875	3.0
GRB2-associated binding protein 2	GAB2	NM_012296	3.0
son of sevenless homolog 1 (Drosophila)	SOS1	L13857	2.9
human immunodeficiency virus type I enhancer binding protein 1	HIVEP1	NM_002114	2.9
NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	NDUFB8	AA723057	2.9
dual specificity phosphatase 10	DUSP10	N36770	2.9
early growth response 3	EGR3	NM_004430	2.8
zinc finger CCCH-type containing 11A	ZC3H11A	AI803216	2.8
complement component 3a receptor 1	C3AR1	U62027	2.8
hypothetical LOC643314	KIAA0754	AW663712	2.8
melanophilin	MLPH	NM_024101	2.8
sprouty homolog 1, antagonist of FGF signaling (Drosophila)	SPRY1	BF508662	2.7
Unidentified mRNA, partial sequence	---	U43604	2.7
F11 receptor	F11R	AF154005	2.7
caspase 4, apoptosis-related cysteine peptidase	CASP4	AL050391	2.7
zinc finger, CW type with PWWP domain 1	ZCWPW1	NM_017984	2.7

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
ral guanine nucleotide dissociation stimulator	RALGDS	AI421559	2.7
neural precursor cell expressed, developmentally down-regulated 9	NEDD9	U64317	2.7
Transcribed locus	---	AV761453	2.7
chromosome 8 open reading frame 60	C8orf60	NM_024984	2.6
zinc finger protein 36, C3H type-like 1	ZFP36L1	BG250310	2.6
nuclear receptor coactivator 2	NCOA2	NM_006540	2.6
phosphoglycerate kinase 2	PGK2	AL121974	2.6
ribosomal protein S6 kinase, 90kDa, polypeptide 5	RPS6KA5	NM_004755	2.6
uridine phosphorylase 1	UPP1	NM_003364	2.6
hemochromatosis	HFE	NM_000410	2.6
CDC42 effector protein (Rho GTPase binding) 3	CDC42EP3	AI754416	2.6
Ribonuclease H2, subunit B	RNASEH2B	AL049218	2.6
CDNA FLJ11921 fis, clone HEMBB1000318	---	AK021983	2.6
son of sevenless homolog 2 (Drosophila)	SOS2	AI276593	2.6
cystathionase (cystathionine gamma-lyase)	CTH	AL354872	2.6
arginine/serine-rich coiled-coil 2	RSRC2	NM_023012	2.5
calmodulin binding transcription activator 2	CAMTA2	AB020716	2.5
CDNA: FLJ21411 fis, clone COL03986	---	AK025064	2.5
low density lipoprotein receptor (familial hypercholesterolemia)	LDLR	NM_000527	2.5
interleukin 8	IL8	AF043337	2.5
family with sequence similarity 110, member B	FAM110B	BE672313	2.5
myelin protein zero (Charcot-Marie-Tooth neuropathy 1B)	MPZ	D10537	2.5
CDNA clone IMAGE:6186815	---	AW969803	2.5
steroid sulfatase (microsomal), arylsulfatase C, isozyme S	STS	NM_000351	2.5
transforming growth factor, beta 2	TGFB2	NM_003238	2.5
ATP synthase, H+ transporting, mitochondrial F1 complex, gamma polypeptide 1	ATP5C1	BG232034	2.5
monoglyceride lipase	MGLL	BC006230	2.5
chloride channel 6	CLCN6	NM_001286	2.4
CDNA: FLJ21618 fis, clone COL07487	---	AK025271	2.4
pantothenate kinase 3	PANK3	NM_024594	2.4
solute carrier family 25 (mitochondrial carrier; Graves disease autoantigen), member 16	SLC25A16	BC001407	2.4
blocked early in transport 1 homolog (S. cerevisiae)-like	BET1L	NM_016526	2.4
zinc finger and BTB domain containing 43	ZBTB43	NM_014007	2.4
phosphatase and actin regulator 1	PHACTR1	AW054711	2.4
KIAA1641	KIAA1641	NM_025190	2.4
secretogranin II (chromogranin C)	SCG2	NM_003469	2.4
Zinc finger, AN1-type domain 6	ZFAND6	AL109684	2.4
CDC-like kinase 3	CLK3	NM_003992	2.4

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
MRNA; cDNA DKFZp564P016 (from clone DKFZp564P016)	---	AL049337	2.4
glucuronidase, beta pseudogene 1	GUSBP1	AU158490	2.4
required for meiotic nuclear division 5 homolog B (S. cerevisiae)	RMND5B	AW131783	2.4
cyclin M2	CNNM2	NM_017649	2.4
collagen, type IV, alpha 2	COL4A2	X05610	2.4
zinc finger protein 335	ZNF335	AA845577	2.4
RALBP1 associated Eps domain containing 1	REPS1	AW166925	2.4
integrin, alpha 6	ITGA6	AV733308	2.4
LON peptidase N-terminal domain and ring finger 3	LONRF3	NM_024778	2.4
early growth response 1	EGR1	NM_001964	2.4
collagen, type I, alpha 1	COL1A1	Y15916	2.4
adenosine A2a receptor	ADORA2A	NM_000675	2.4
cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)	CDKN2D	U20498	2.4
integrin beta 1 binding protein 1	ITGB1BP1	NM_004763	2.3
nuclear receptor coactivator 3	NCOA3	AI438999	2.3
FAST kinase domains 2	FASTKD2	NM_014929	2.3
insulin receptor substrate 2	IRS2	AF073310	2.3
B-cell translocation gene 1, anti-proliferative	BTG1	NM_001731	2.3
Poly(rC) binding protein 2	PCBP2	AW103422	2.3
Tripartite motif-containing 33	TRIM33	AU136587	2.3
prostaglandin E receptor 4 (subtype EP4)	PTGER4	AA897516	2.3
polo-like kinase 3 (Drosophila)	PLK3	NM_004073	2.3
fem-1 homolog b (C. elegans)	FEM1B	NM_015322	2.3
Heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa)	HNRPD	W74620	2.3
baculoviral IAP repeat-containing 4	BIRC4	U32974	2.3
calcium/calmodulin-dependent protein kinase kinase 2, beta	CAMKK2	AK024748	2.3
RNA binding protein with multiple splicing	RBPMS	D84109	2.3
glycogen synthase kinase 3 alpha	GSK3A	L40027	2.3
CD83 molecule	CD83	NM_004233	2.3
zinc finger protein 451	ZNF451	AU144775	2.3
CDNA FLJ31688 fis, clone NT2RI2005520	---	AI693193	2.3
chromosome 18 open reading frame 1	C18orf1	AI349506	2.3
transmembrane protein 16C	TMEM16C	AJ300461	2.3
KIAA1659 protein	KIAA1659	AB051446	2.3
zinc finger protein, X-linked	ZFX	X59740	2.3
CD9 molecule	CD9	NM_001769	2.3
Cofactor required for Sp1 transcriptional activation, subunit 7, 70kDa	CRSP7	AA463853	2.3
tight junction associated protein 1 (peripheral)	TJAP1	AK024269	2.3
zinc finger protein 143	ZNF143	AW162015	2.3

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
MRNA; cDNA DKFZp564A023 (from clone DKFZp564A023)	---	AL049233	2.3
Down syndrome critical region gene 1	DSCR1	NM_004414	2.3
CDNA FLJ12000 fis, clone HEMBB1001531	---	AU146791	2.3
zinc finger, DHHC-type containing 11	ZDHHC11	AF267859	2.2
triple functional domain (PTPRF interacting)	TRIO	AV718192	2.2
chromosome 21 open reading frame 96	C21orf96	NM_025143	2.2
pleckstrin	PLEK	AI433595	2.2
ATH1, acid trehalase-like 1 (yeast)	ATHL1	NM_025092	2.2
ras responsive element binding protein 1	RREB1	AU147182	2.2
similar to TFIIH basal transcription factor complex p44 subunit (Basic transcription factor 2 44 kDa subunit) (BTF2-p44) (General transcription factor IIH polypeptide 2)	DKFZP686M0199	U21915	2.2
pleckstrin and Sec7 domain containing 3	PSD3	NM_015310	2.2
Homo sapiens, clone IMAGE:5538654, mRNA	DKFZp686O1327	U80770	2.2
PR domain containing 10	PRDM10	NM_020228	2.2
CDNA FLJ14073 fis, clone HEMBB1001812	---	AK024135	2.2
solute carrier family 2 (facilitated glucose transporter), member 3	SLC2A3	AA778684	2.2
NGFI-A binding protein 2 (EGR1 binding protein 2)	NAB2	BF337329	2.2
RNA binding motif protein 5	RBM5	AF107493	2.2
Ras and Rab interactor 2	RIN2	AL136924	2.2
SH3 domain binding glutamic acid-rich protein	SH3BGR	NM_007341	2.2
neuroblastoma breakpoint family, member 14	NBPF14	BE732345	2.2
par-3 partitioning defective 3 homolog (C. elegans)	PARD3	AF196185	2.2
spectrin, beta, non-erythrocytic 1	SPTBN1	NM_003128	2.2
eukaryotic translation initiation factor 1	EIF1	W67644	2.2
suppressor of IKK epsilon	SIKE	NM_025073	2.2
protein phosphatase 1, regulatory (inhibitor) subunit 3C	PPP1R3C	N26005	2.2
chromosome 21 open reading frame 2	C21orf2	NM_004928	2.2
SMAD family member 7	SMAD7	NM_005904	2.2
DBF4 homolog B (S. cerevisiae)	DBF4B	NM_025104	2.2
solute carrier family 7 (cationic amino acid transporter, y+ system), member 1	SLC7A1	AW452623	2.2
ring finger protein 2	RNF2	NM_007212	2.2
WD repeat and SOCS box-containing 1	WSB1	N24643	2.2
RAB20, member RAS oncogene family	RAB20	NM_017817	2.2
Homo sapiens, clone IMAGE:4214654, mRNA	---	BG251521	2.2
insulin induced gene 1	INSIG1	BG292233	2.2
splicing factor 3b, subunit 1, 155kDa	SF3B1	AW003030	2.2
inhibitor of growth family, member 3	ING3	NM_019071	2.2
alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae)	ATRX	BC002521	2.2

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
RAB3 GTPase activating protein subunit 2 (non-catalytic)	RAB3GAP2	AK021928	2.2
hCG1789710	hCG_1789710	NM_006223	2.2
Transcribed locus	---	AL049278	2.2
SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2	SMARCA2	AW131754	2.1
Folliculin	FLCN	AF090883	2.1
fucosyltransferase 2 (secretor status included)	FUT2	BC001899	2.1
v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	MAF	BF508646	2.1
sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C	SEMA3C	NM_006379	2.1
CDNA FLJ13754 fis, clone PLACE3000362	---	AK023816	2.1
CD80 molecule	CD80	NM_005191	2.1
tripartite motif-containing 23	TRIM23	AF230399	2.1
ankyrin repeat domain 28	ANKRD28	AI081194	2.1
sal-like 2 (Drosophila)	SALL2	BG285616	2.1
SMAD family member 3	SMAD3	NM_005902	2.1
cyclin-dependent kinase inhibitor 1A (p21, Cip1)	CDKN1A	NM_000389	2.1
growth hormone receptor	GHR	NM_000163	2.1
low density lipoprotein-related protein 12	LRP12	NM_024937	2.1
chromosome 6 open reading frame 106	C6orf106	AL523965	2.1
major histocompatibility complex, class I, F	HLA-F	BE138825	2.1
IBR domain containing 3	IBRDC3	W27419	2.1
cell division cycle 2-like 6 (CDK8-like)	CDC2L6	AI738802	2.1
ecotropic viral integration site 5	EVI5	NM_005665	2.1
tubulin tyrosine ligase-like family, member 5	TTLL5	AK021879	2.1
ring finger protein 41	RNF41	NM_005785	2.1
PR domain containing 2, with ZNF domain	PRDM2	NM_012231	2.1
serine/threonine kinase 4	STK4	NM_006282	2.1
potassium large conductance calcium-activated channel, subfamily M beta member 3	KCNMB3	NM_014407	2.1
chemokine (C-C motif) ligand 2	CCL2	S69738	2.1
cathepsin D	CTSD	NM_001909	2.1
peroxisomal biogenesis factor 5-like	PEX5L	W38416	2.1
solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2	SLC3A2	NM_002394	2.1
bone morphogenetic protein 2	BMP2	AA583044	2.1
Ankyrin repeat domain 12	ANKRD12	X80821	2.1
cAMP responsive element binding protein-like 1	CREBL1	U52696	2.1
BAT2 domain containing 1	BAT2D1	AI359472	2.1
cysteine rich transmembrane BMP regulator 1 (chordin-like)	CRIM1	BG546884	2.1
Epstein-Barr virus induced gene 2 (lymphocyte-specific G protein-coupled receptor)	EBI2	NM_004951	2.1
Kruppel-like factor 11	KLF11	AA149594	2.1

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
TROVE domain family, member 2	TROVE2	AK024044	2.1
chromosome 20 open reading frame 67	C20orf67	AI743331	2.1
peroxisome proliferator-activated receptor gamma	PPARG	NM_015869	2.1
zinc finger, MYM-type 5	ZMYM5	NM_016384	2.0
transcription factor 7-like 2 (T-cell specific, HMG-box)	TCF7L2	AV721430	2.0
granulysin	GNLY	M85276	2.0
plasminogen activator, urokinase receptor	PLAUR	U08839	2.0
lysosomal trafficking regulator	LYST	U84744	2.0
centaurin, gamma-like family, member 1	CTGLF1	BE672818	2.0
SMAD family member 5	SMAD5	AF010601	2.0
cell death-inducing DFFA-like effector c	CIDEC	NM_022094	2.0
cyclin T1	CCNT1	NM_001240	2.0
S100 calcium binding protein P	S100P	NM_005980	2.0
squalene epoxidase	SQLE	AA639705	2.0
coiled-coil domain containing 6	CCDC6	NM_005436	2.0
short stature homeobox 2	SHOX2	AI816713	2.0
serpin peptidase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary)	SERPING1	NM_000062	2.0
structural maintenance of chromosomes 4	SMC4	AK002200	2.0
diaphanous homolog 1 (Drosophila)	DIAPH1	AU158818	2.0
polymerase (DNA directed), theta	POLQ	NM_014125	2.0
calcium channel, voltage-dependent, P/Q type, alpha 1A subunit	CACNA1A	AA769818	2.0
tumor necrosis factor receptor superfamily, member 12A	TNFRSF12A	NM_016639	2.0
ELOVL family member 5, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	ELOVL5	BE467941	2.0
similar to aconitase 2, mitochondrial	LOC646677	AL021877	2.0
BCL2-antagonist of cell death	BAD	U66879	2.0
zinc finger protein 36, C3H type, homolog (mouse)	ZFP36	NM_003407	2.0
inhibitor of growth family, member 1	ING1	AW193656	2.0
interferon regulatory factor 7	IRF7	NM_004030	2.0
hexokinase 2	HK2	AW975638	2.0
histone cluster 1, H1c	HIST1H1C	BC002649	2.0
fibronectin leucine rich transmembrane protein 1	FLRT1	AF169675	2.0
nuclear receptor co-repressor 1	NCOR1	AW771910	2.0
CDNA FLJ42044 fis, clone SPLEN2041304	---	AI523613	2.0
HMG-box transcription factor 1	HBP1	AF019214	2.0
transcription factor 3 (E2A immunoglobulin enhancer binding factors E12/E47)	TCF3	M31222	2.0
transmembrane protein 80	TMEM80	AI742455	-2.0
ribosomal protein L15	RPL15	Z97353	-2.0
kinesin family member 11	KIF11	NM_004523	-2.0
gem (nuclear organelle) associated protein 4	GEMIN4	AF258545	-2.0
general transcription factor IIH, polypeptide 2, 44kDa	GTF2H2	AF078847	-2.0

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
protein phosphatase 2 (formerly 2A), regulatory subunit B", alpha	PPP2R3A	AI760130	-2.0
chromosome 1 open reading frame 109	C1orf109	NM_017850	-2.0
SUMO1/sentrin/SMT3 specific peptidase 3	SENP3	AK000923	-2.0
kelch-like 23 (Drosophila)	KLHL23	BE326381	-2.0
CDNA FLJ11392 fis, clone HEMBA1000575	---	W88821	-2.0
transcription elongation factor B (SIII), polypeptide 1 (15kDa, elongin C)	TCEB1	N89607	-2.0
protocadherin 8	PCDH8	NM_002590	-2.0
adaptor-related protein complex 3, mu 2 subunit	AP3M2	NM_006803	-2.0
ATPase, Class I, type 8B, member 1	ATP8B1	BG252666	-2.0
Src-like-adaptor	SLA	NM_006748	-2.0
family with sequence similarity 49, member A	FAM49A	AA243659	-2.0
chemokine (C-X3-C motif) receptor 1	CX3CR1	U20350	-2.0
hematopoietically expressed homeobox	HHEX	Z21533	-2.0
Down syndrome critical region gene 1-like 2	DSCR1L2	NM_013441	-2.0
vang-like 1 (van gogh, Drosophila)	VANGL1	NM_024062	-2.0
CTAGE family, member 5	CTAGE5	NM_005930	-2.0
core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1	C1GALT1	NM_020156	-2.0
N-myristoyltransferase 1	NMT1	AI570834	-2.0
U2 small nuclear RNA auxiliary factor 2	U2AF2	NM_007279	-2.0
F-box protein 5	FBXO5	NM_012177	-2.0
CDNA FLJ34482 fis, clone HLUNG2004067	---	AI472320	-2.0
zinc finger protein 225	ZNF225	NM_013362	-2.0
eukaryotic translation initiation factor 5B	EIF5B	AB018284	-2.0
hexamethylene bis-acetamide inducible 1	HEXIM1	NM_006460	-2.0
adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1	APPL1	NM_012096	-2.1
HBS1-like (S. cerevisiae)	HBS1L	AK024258	-2.1
hypothetical protein FLJ11151	FLJ11151	NM_018340	-2.1
phosphatidylinositol glycan anchor biosynthesis, class H	PIGH	BC004100	-2.1
transmembrane emp24 protein transport domain containing 7	TMED7	BG286537	-2.1
similar to Thioredoxin-like protein 2 (PKC-interacting cousin of thioredoxin) (PKC-theta-interacting protein) (PKCq-interacting protein)	LOC643450	AL138831	-2.1
WW domain containing E3 ubiquitin protein ligase 1	WWP1	AU155187	-2.1
tuftelin interacting protein 11	TFIP11	NM_012143	-2.1
SEC24 related gene family, member D (S. cerevisiae)	SEC24D	NM_014822	-2.1
coagulation factor II (thrombin) receptor	F2R	NM_001992	-2.1
cold inducible RNA binding protein	CIRBP	NM_001280	-2.1
KIAA1279	KIAA1279	AB033105	-2.1
diacylglycerol kinase, zeta 104kDa	DGKZ	NM_003646	-2.1
Transcribed locus	---	AL049985	-2.1
tumor protein D52	TPD52	NM_005079	-2.1

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
splicing factor, arginine/serine-rich 10 (transformer 2 homolog, Drosophila)	SFRS10	NM_004593	-2.1
formin binding protein 1-like	FNBP1L	AW270932	-2.1
tetraspanin 32	TSPAN32	NM_005705	-2.1
aldehyde dehydrogenase 3 family, member A2	ALDH3A2	NM_000382	-2.1
BAI1-associated protein 2	BAIAP2	AB017120	-2.1
retinitis pigmentosa 2 (X-linked recessive)	RP2	NM_006915	-2.1
dystrobrevin, alpha	DTNA	NM_001392	-2.1
Wilms tumor 1	WT1	NM_024426	-2.1
caspase 8, apoptosis-related cysteine peptidase	CASP8	BF439983	-2.1
splicing factor, arginine/serine-rich 6	SFRS6	AL031681	-2.1
regulator of G-protein signalling 5	RGS5	NM_025226	-2.1
heterogeneous nuclear ribonucleoprotein A0	HNRPA0	BE966599	-2.1
MRNA from chromosome 5q21-22, clone:843Ex	---	N51708	-2.1
ferredoxin 1	FDX1	NM_004109	-2.1
FLJ20160 protein	FLJ20160	NM_017694	-2.1
EP300 interacting inhibitor of differentiation 1	EID1	AF349444	-2.1
nuclear factor (erythroid-derived 2)-like 3	NFE2L3	NM_004289	-2.1
Transcribed locus	---	BE999967	-2.1
eukaryotic translation initiation factor 1A, X-linked	EIF1AX	BE542684	-2.1
clusterin associated protein 1	CLUAP1	NM_024793	-2.1
LYR motif containing 2	LYRM2	NM_020466	-2.1
ATPase, Class II, type 9B	ATP9B	AW411030	-2.1
FLJ20105 protein	FLJ20105	NM_017669	-2.1
CD3e molecule, epsilon associated protein	CD3EAP	NM_012099	-2.1
zinc finger protein 556	ZNF556	NM_024967	-2.1
isochorismatase domain containing 1	ISOC1	NM_016048	-2.1
mago-nashi homolog, proliferation-associated (Drosophila)	MAGOH	AF067173	-2.1
heterogeneous nuclear ribonucleoprotein M	HNRPM	AK024911	-2.1
serpin peptidase inhibitor, clade B (ovalbumin), member 9	SERPINB9	BC002538	-2.1
chromosome 12 open reading frame 5	C12orf5	NM_020375	-2.1
KIAA1009	KIAA1009	AK023613	-2.1
Sec23 homolog B (S. cerevisiae)	SEC23B	BC005032	-2.1
zinc finger protein 174	ZNF174	BC001161	-2.1
EH-domain containing 1	EHD1	AF001434	-2.1
chromatin modifying protein 6	CHMP6	NM_024591	-2.1
translin	TSN	NM_004622	-2.1
solute carrier family 16, member 1 (monocarboxylic acid transporter 1)	SLC16A1	BF511091	-2.1
tubulin, beta 2A	TUBB2A	NM_001069	-2.2
SLIT and NTRK-like family, member 5	SLITRK5	AW449813	-2.2
Nipped-B homolog (Drosophila)	NIPBL	BF221673	-2.2
coiled-coil-helix-coiled-coil-helix domain containing 7	CHCHD7	NM_024300	-2.2

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	YWHAZ	NM_003406	-2.2
chemokine (C-C motif) receptor 2	CCR2	NM_000647	-2.2
cyclin A2	CCNA2	AI346350	-2.2
glycine amidinotransferase (L-arginine:glycine amidinotransferase)	GATM	NM_001482	-2.2
SLAM family member 8	SLAMF8	NM_020125	-2.2
solute carrier family 16, member 3 (monocarboxylic acid transporter 4)	SLC16A3	AL513917	-2.2
dopey family member 1	DOPEY1	AL162056	-2.2
ribosomal protein S10	RPS10	AL118510	-2.2
metal response element binding transcription factor 2	MTF2	NM_007358	-2.2
CD58 molecule	CD58	BC005930	-2.2
hypothetical protein LOC161527	LOC161527	AI632181	-2.2
glutaminase	GLS	AI828035	-2.2
RNA binding motif protein 12	RBM12	AL514547	-2.2
interleukin 8 receptor, beta	IL8RB	NM_001557	-2.2
cullin 3	CUL3	AU145232	-2.2
UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	B4GALT6	AF097159	-2.2
SEH1-like (S. cerevisiae)	SEH1L	AV701173	-2.2
cathepsin S	CTSS	NM_004079	-2.2
interferon, gamma-inducible protein 16	IFI16	NM_005531	-2.2
hyaluronan binding protein 4	HABP4	AF241831	-2.2
dual specificity phosphatase 6	DUSP6	BC003143	-2.2
chromosome 19 open reading frame 29	C19orf29	AI913329	-2.2
DnaJ (Hsp40) homolog, subfamily C, member 10	DNAJC10	BG168666	-2.2
N-myristoyltransferase 2	NMT2	AW293531	-2.2
prothymosin, alpha (gene sequence 28)	PTMA	NM_016171	-2.2
zinc finger, matrin type 3	ZMAT3	NM_022470	-2.2
tetratricopeptide repeat domain 15	TTC15	NM_016030	-2.2
fibronectin leucine rich transmembrane protein 2	FLRT2	NM_013231	-2.2
microtubule associated serine/threonine kinase 3	MAST3	AB011133	-2.3
ubiquitin specific peptidase 46	USP46	BE856374	-2.3
homeobox B7	HOXB7	NM_004502	-2.3
dihydrolipoamide branched chain transacylase E2	DBT	M27093	-2.3
nucleosomal binding protein 1	NSBP1	NM_030763	-2.3
kinesin family member 3A	KIF3A	NM_007054	-2.3
DENN/MADD domain containing 4A	DENND4A	BE268538	-2.3
zinc finger protein 512B	ZNF512B	AL118506	-2.3
polo-like kinase 4 (Drosophila)	PLK4	AL043646	-2.3
cysteine dioxygenase, type I	CDO1	NM_001801	-2.3
phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase, phosphoribosylaminoimidazole synthetase	GART	D32051	-2.3
RNA binding motif protein 25	RBM25	AI925305	-2.3

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
G protein-coupled receptor 65	GPR65	NM_003608	-2.3
cofactor required for Sp1 transcriptional activation, subunit 9, 33kDa	CRSP9	BC005250	-2.3
hypothetical protein FLJ11184	FLJ11184	NM_018352	-2.3
nucleoporin 98kDa	NUP98	U41815	-2.3
RAB, member RAS oncogene family-like 5	RABL5	NM_022777	-2.3
DAZ interacting protein 1	DZIP1	NM_014934	-2.4
similar to Putative S100 calcium-binding protein A11 pseudogene	LOC729659	NM_021039	-2.4
polymerase (RNA) III (DNA directed) polypeptide F, 39 kDa	POLR3F	NM_006466	-2.4
acyl-CoA synthetase long-chain family member 4	ACSL4	NM_022977	-2.4
v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	KIT	NM_000222	-2.4
fasciculation and elongation protein zeta 1 (zygin I)	FEZ1	NM_022549	-2.4
DCN1, defective in cullin neddylation 1, domain containing 4 (S. cerevisiae)	DCUN1D4	D87466	-2.4
tubulin, gamma complex associated protein 5	TUBGCP5	AI628925	-2.4
WD repeat domain 74	WDR74	NM_018093	-2.4
KRIT1, ankyrin repeat containing	KRIT1	AL049325	-2.4
RNA binding motif protein 8A	RBM8A	AF182415	-2.4
aspartate beta-hydroxylase	ASPH	AF289489	-2.5
toll-like receptor 1	TLR1	AL050262	-2.5
Chromosome 6 open reading frame 62	C6orf62	AW972292	-2.5
RAB33B, member RAS oncogene family	RAB33B	NM_031296	-2.5
BMP2 inducible kinase	BMP2K	AI735391	-2.5
KIAA0738 gene product	KIAA0738	BF030508	-2.5
similar to TSG118.1	LOC400506	AI652058	-2.5
beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)	B3GALNT1	AB050855	-2.5
potassium channel tetramerisation domain containing 12	KCTD12	AI718937	-2.5
RPGRIP1-like	RPGRIP1L	BF515597	-2.5
cisplatin resistance-associated overexpressed protein	CROP	NM_006107	-2.5
pleckstrin homology domain containing, family C (with FERM domain) member 1	PLEKHC1	Z24725	-2.5
chloride channel CLIC-like 1	CLCC1	NM_015127	-2.5
zinc finger protein 468	ZNF468	BE541042	-2.5
methyltransferase like 2B	METTL2B	NM_018396	-2.5
deleted in lymphocytic leukemia, 2	DLEU2	AA905286	-2.5
KIAA1609	KIAA1609	AA195124	-2.6
fibroblast growth factor 2 (basic)	FGF2	NM_002006	-2.6
NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5, 13kDa	NDUFA5	NM_005000	-2.6
eukaryotic translation initiation factor 1B	EIF1B	NM_005875	-2.6
RAB4A, member RAS oncogene family	RAB4A	BC002438	-2.6
hypothetical protein FLJ10357	FLJ10357	NM_018071	-2.6

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
Yip1 domain family, member 4	YIPF4	BC004875	-2.6
solute carrier family 35, member F5	SLC35F5	NM_025181	-2.6
tripartite motif-containing 58	TRIM58	AL080170	-2.6
NHL repeat containing 2	NHLRC2	NM_017687	-2.6
adaptor-related protein complex 1, sigma 2 subunit	AP1S2	AF251295	-2.6
6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2	PFKFB2	AB044805	-2.6
PR domain containing 13	PRDM13	NM_021620	-2.6
Kinesin heavy chain member 2A	KIF2A	BE872563	-2.6
transmembrane protein 70	TMEM70	BC002748	-2.6
family with sequence similarity 69, member A	FAM69A	AK027146	-2.7
fibroblast growth factor receptor 3	FGFR3	NM_000142	-2.7
chromosome 10 open reading frame 56	C10orf56	AK024784	-2.7
myotubularin related protein 6	MTMR6	U47635	-2.7
chromosome 10 open reading frame 97	C10orf97	NM_024948	-2.7
protein tyrosine phosphatase type IVA, member 1	PTP4A1	BF576710	-2.7
ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast)	UBE2D1	AL545760	-2.7
hypothetical protein FLJ35429	RP3-377H14.5	AI669379	-2.8
zinc finger protein 551	ZNF551	BC005868	-2.8
regulatory solute carrier protein, family 1, member 1	RSC1A1	AI268381	-2.8
small nuclear RNA activating complex, polypeptide 4, 190kDa	SNAPC4	AK023513	-2.9
GNAS complex locus	GNAS	AA650558	-2.9
SRY (sex determining region Y)-box 12	SOX12	NM_006943	-2.9
nucleosome assembly protein 1-like 3	NAP1L3	NM_004538	-2.9
SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)	SUMO1	U83117	-2.9
cyclin D1	CCND1	M73554	-2.9
MRNA; cDNA DKFZp667B0924 (from clone DKFZp667B0924)	---	AI192838	-3.0
suppressor of variegation 3-9 homolog 2 (Drosophila)	SUV39H2	NM_024670	-3.0
ubiquitin-conjugating enzyme E2N-like	UBE2NL	AL109622	-3.0
parvin, beta	PARVB	N73272	-3.0
nuclear import 7 homolog (S. cerevisiae)	NIP7	NM_016101	-3.1
Bardet-Biedl syndrome 10	BBS10	NM_024685	-3.1
polymerase (DNA directed), eta	POLH	NM_006502	-3.1
PHD finger protein 14	PHF14	NM_014660	-3.1
zinc finger DAZ interacting protein 3	DZIP3	NM_014648	-3.1
methionine adenosyltransferase II, alpha	MAT2A	BC001686	-3.1
elaC homolog 1 (E. coli)	ELAC1	AI669235	-3.2
chromosome 3 open reading frame 64	C3orf64	AK023140	-3.2
zinc finger protein 623	ZNF623	NM_014789	-3.3
solute carrier organic anion transporter family, member 4C1	SLCO4C1	BE552428	-3.3
transcription termination factor, RNA polymerase II	TTF2	AF080255	-3.3

Supplemental Table S3. Lipolysis product induced differential expression listed by fold change. (continued)

Gene Title	Gene Symbol	Representative Public ID	Fold Change
transcription termination factor, RNA polymerase II	TTF2	AF080255	-3.3
zinc finger protein 161 homolog (mouse)	ZFP161	NM_003409	-3.3
homeobox A1	HOXA1	S79910	-3.3
frizzled homolog 3 (Drosophila)	FZD3	NM_017412	-3.3
coiled-coil domain containing 121	CCDC121	NM_024584	-3.4
tumor necrosis factor (ligand) superfamily, member 10	TNFSF10	NM_003810	-3.5
myosin regulatory light chain MRCL3	MRCL3	NM_006471	-3.5
GTPase, IMAP family member 6	GIMAP6	NM_024711	-3.6
sterile alpha motif domain containing 9	SAMD9	NM_017654	-3.9
RWD domain containing 3	RWDD3	NM_015485	-3.9
basic leucine zipper nuclear factor 1 (JEM-1)	BLZF1	NM_003666	-4.0
zinc finger protein 574	ZNF574	NM_022752	-4.2
thioredoxin interacting protein	TXNIP	NM_006472	-5.5
RIO kinase 3 (yeast)	RIOK3	NM_003831	-5.8