

Gene	Gene Name	Gene	Gene Name
18S	ribosomal RNA	IL6	interleukin 6
ACADL	acyl-Coenzyme A dehydrogenase	IL6R	interleukin 6 receptor
ACADM	acyl-Coenzyme A dehydrogenase	IL8	interleukin 8
ACADVL	acyl-Coenzyme A dehydrogenase	IL8RA	interleukin 8 receptor
ACAT1	acetyl-Coenzyme A acetyltransferase 1	INSR	insulin receptor
ACE	angiotensin I converting enzyme	ITGA2	integrin, alpha 2
ACTA1	alpha sarcomeric actin	ITGA7	integrin, alpha 7
ACTB	beta-actin	ITGB1	integrin, beta 8
ACTN1	actinin, alpha 1	JUN	jun oncogene
ACTN2	actinin, alpha 2	KDR	VEGF-Receptor 2
ADMR	adrenomedullin receptor	LAMA2	laminin alpha 2
ADORA1	adenosine A1 receptor	LAMA4	laminin alpha 4
AGRN	agrin	LDHA	lactate dehydrogenase A
AKT1	protein Kinase B, PKB	LDHB	lactate dehydrogenase B
ALDOA	aldolase A	LGALS1	lectin, galactose binding, soluble 1
ALDOC	aldolase C	LIPE	lipase, hormone sensitive
ANGPT1	angiotensin 1	LPL	lipoprotein lipase
ANGPT2	angiotensin 2	MAPK8	mitogen-activated protein kinase 8
ANKRD2	ankyrin repeat domain 2 (stretch responsive muscle)	MB	myoglobin
AR	androgen receptor (dihydrotestosterone receptor)	MDH2	malate dehydrogenase 2
ATP2A1	ATPase, Ca++ transporting, fast twitch 1	MEF2B	myocyte enhancer factor 2B
ATP2A2	ATPase, Ca++ transporting, slow twitch 2	MEF2C	myocyte enhancer factor 2C
ATP5B	F1FO ATPase, beta subunit	MET	hepatocyte growth factor receptor
ATP6	ATP synthase 6, mt encoded	MMP11	matrix metalloproteinase 11 (stromelysin 3)
BCKDHA	branched chain keto acid dehydrogenase E1	MMP2	matrix metalloproteinase 2 (gelatinase A)
BDNF	brain-derived neurotrophic factor	MMP8	matrix metalloproteinase 8 (neutrophil collagenase)
CA3	carbonic anhydrase III	MMP9	matrix metalloproteinase 9 (gelatinase B)
CAMK2B	CaM kinase II beta	MT-CO1	mitochondrially encoded cytochrome c oxidase I
CAPN1	calpain 1	MT-ND1	NADH gene 1, mt encoded
CAPN2	calpain 2	MUSK	muscle, skeletal, receptor tyrosine kinase
CAPN3	calpain 3, p94	MYF6	myogenic factor 6 (herculin)
CAST	calpastatin (calpain inhibitor)	MYH1	myosin heavy chain, 2X
CCL2	chemokine (C-C motif) ligand 2	MYH2	myosin heavy chain 2A
CCNA1	cyclin A1	MYH3	myosin heavy chain, embryonic
CCND1	cyclin D1	MYH4	myosin heavy chain, 2B
CD163	CD163 molecule, macrophage marker	MYH6	myosin heavy chain 6, cardiac muscle, alpha
CD34	CD34 molecule, satellite cell marker	MYH7	myosin heavy chain 6, cardiac muscle, beta
CD36	muscular fatty acid transporter, FAT	MYH8	myosin heavy chain 8, perinatal
CD68	CD68 molecule, macrophage marker	MYOD1	myogenic differentiation 1
CDH15	cadherin 15	MYOG	myogenin (myogenic factor 4)
CDKN1A	cyclin-dependent kinase inhibitor 1A, p21	MYOT	myotilin
CDKN2D	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)	NCAM1	neural cell adhesion molecule 1
CKM	creatine kinase	NEB	nebulin
CNTF	ciliary neurotrophic factor	NGFB	nerve growth factor, beta polypeptide
COL1A1	collagen, type I, alpha 1	NID1	nidogen 1
COL3A1	collagen, type III, alpha 1	NOS1	nitric oxide synthase 1 (neuronal)
COL4A1	collagen, type IV, alpha 1	NR4A3	Nor1, Transcription factor
COL6A1	collagen, type VI, alpha 1	NRG1	neuregulin 1
COX4I1	cytochrome c oxidase subunit IV isoform 1	NTE3	neurotrophin 3
COX5B	cytochrome c oxidase subunit Vb	NTF5	neurotrophin 5 (neurotrophin 4/5)
CPT1B	carnitine palmitoyltransferase I	Pax7	paired box 7, satellite cell marker
CPT2	carnitine palmitoyltransferase II	PDGFA	platelet-derived growth factor alpha polypeptide
CS	citrate synthase	PDHA2	pyruvate dehydrogenase (lipoamide) alpha 2
CYC1	cytochrome c-1	PDHB	pyruvate dehydrogenase (lipoamide) beta
DAG1	dystroglycan	PECAM1	platelet/endothelial cell adhesion molecule (CD31)
DCI	dodecenoyl-Coenzyme A delta isomerase	PFKM	phosphofructokinase
DES	desmin	PGK1	phosphoglycerate kinase 1
DMD	dystrophin (muscular dystrophy)	PMP22	peripheral myelin protein 22
DMPK	dystrophin myotonic-protein kinase	PPARA	peroxisome proliferator-activated receptor alpha
ECH1	enoyl Coenzyme A hydratase 1	PPARG	peroxisome proliferator-activated receptor gamma
ECHS1	enoyl Coenzyme A hydratase	PPARGC1A	peroxisome proliferator-activated receptor gamma
EEF2	eukaryotic translation elongation factor 2	PTK2	PTK2 protein tyrosine kinase 2
EIF4E	eukaryotic translation initiation factor 4E	RELN	reelin
EPAS1	endothelial PAS domain protein 1	RPL11	ribosomal protein L11
ESR1	estrogen receptor 1	RPS9	ribosomal protein S9
FABP3	fatty acid binding protein 3	RPSA	ribosomal protein SA
FASN	fatty acid synthase	SCP2	sterol carrier protein 2
FBXO32	F-box protein 32, Atrogin-1	SIRT1	sirtuin
FGF2	basic fibroblast growth factor	SLC16A1	monocarboxylic acid transporter 1, MCT-1
FGFR1	fibroblast growth factor receptor 1	SLC16A4	monocarboxylic acid transporter 4, MCT-4
FGFR4	fibroblast growth factor receptor 4	SLC27A1	solute carrier family 27 (fatty acid transporter)
FN1	fibronectin 1	SLC2A1	Glucose transporter 1, GLUT1
FST	folliculin	SLC2A4	Glucose transporter 4, GLUT4
GADD45	growth arrest and DNA-damage-inducible 45	SOD1	superoxide dismutase 1
GAPDH	glyceraldehyde-3-phosphate dehydrogenase	SOD2	superoxide dismutase 2
GDF8	growth differentiation factor 8, myostatin	SOD3	superoxide dismutase 3
GHRL	ghrelin/obestatin preprohormone	SRF	serum response factor
GSP2	G1 to S phase transition 2	TCP1	t-complex 1, molecular chaperone
GYS1	glycogen synthase 1 (muscle)	TFAM	transcription factor A, mitochondrial
HADH	hydroxyacyl-Coenzyme A dehydrogenase	TGFB1	transforming growth factor beta 1
HADHB	dehydrogenase/thiolase/hydratase (trifunctional)	TNC	tenascin C
HGF	hepatocyte growth factor	TNF	tumor necrosis factor
HIF1A	hypoxia-inducible factor 1	TNFRSF1A	tumor necrosis factor receptor superfamily
HK2	hexokinase 2	TNNC1	troponin C type 1 (slow)
HNF4A	hepatic nuclear factor 4, alpha	TNNC2	troponin C type 2 (fast)
HSPA4	heat shock 70kDa protein 4	TTN	titin
IGF1	insulin-like growth factor 1 (somatomedin C)	TUBA1	tubulin
IGF1R	insulin-like growth factor 1 receptor	UBC	ubiquitin c
IGF2	insulin-like growth factor 2 (somatomedin A)	UBTF	upstream binding transcription factor
IGF2R	insulin-like growth factor 2 receptor	UCP3	uncoupling protein 3, mitochondrial
IGFBP4	insulin-like growth factor binding protein 4	VCL	vinculin
IGFBP5	insulin-like growth factor binding protein 5	VEGF	vascular endothelial growth factor
IL1B	interleukin 1 beta	VEGFB	vascular endothelial growth factor beta
IL1R1	interleukin 1 receptor		

## Supplementary table 4

Lists all 187 gene transcripts which were analyzed with the microfluidic cards.