

Gene Symbol	Description	Average 2 ^{-ΔCt}		p -value
		Saline	Lipid	
<i>BTK</i>	Bruton agammaglobulinemia tyrosine kinase	9.85E-06	1.36E-05	0.220
<i>CASP8</i>	Caspase 8, apoptosis-related cysteine peptidase	2.30E-04	3.24E-04	0.070
<i>CCL2</i>	Chemokine (C-C motif) ligand 2	7.93E-05	7.01E-05	0.311
<i>CD14</i>	CD14 molecule	3.93E-04	4.98E-04	0.234
<i>CD180</i>	CD180 molecule	2.69E-05	3.85E-05	0.313
<i>CD80</i>	CD80 molecule	1.42E-05	1.44E-05	0.681
<i>CD86</i>	CD86 molecule	5.36E-05	6.30E-05	0.229
<i>CHUK</i>	Conserved helix-loop-helix ubiquitous kinase	1.08E-03	1.36E-03	0.017
<i>CLEC4E</i>	C-type lectin domain family 4, member E	1.24E-05	2.39E-05	0.134
<i>CSF2</i>	Colony stimulating factor 2 (granulocyte-macrophage)	5.97E-06	5.34E-06	0.460
<i>CSF3</i>	Colony stimulating factor 3 (granulocyte)	8.35E-04	1.28E-03	0.067
<i>CXCL10</i>	Chemokine (C-X-C motif) ligand 10	9.02E-05	9.37E-05	0.409
<i>ECSIT</i>	ECSIT homolog (Drosophila)	5.79E-03	7.16E-03	0.034
<i>EIF2AK2</i>	Eukaryotic translation initiation factor 2-alpha kinase 2	1.94E-03	2.34E-03	0.045
<i>ELK1</i>	ELK1, member of ETS oncogene family	4.02E-04	4.02E-04	0.723
<i>FADD</i>	Fas (TNFRSF6)-associated via death domain	5.23E-04	7.02E-04	0.041
<i>FOS</i>	FBJ murine osteosarcoma viral oncogene homolog	6.32E-04	1.41E-03	0.102
<i>HMGB1</i>	High mobility group box 1	9.59E-03	1.16E-02	0.050
<i>HRAS</i>	V-Ha-ras Harvey rat sarcoma viral oncogene homolog	4.90E-03	5.81E-03	0.065
<i>HSPA1A</i>	Heat shock 70kDa protein 1A	2.06E-02	2.51E-02	0.051
<i>HSPD1</i>	Heat shock 60kDa protein 1 (chaperonin)	1.06E-02	1.43E-02	0.235
<i>IFNA1</i>	Interferon, alpha 1	4.27E-06	5.08E-06	0.146
<i>IFNB1</i>	Interferon, beta 1, fibroblast	4.27E-06	7.37E-06	0.123
<i>IFNG</i>	Interferon, gamma	2.01E-05	2.94E-05	0.434
<i>IKBKB</i>	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	2.04E-03	2.36E-03	0.152
<i>IL10</i>	Interleukin 10	5.99E-06	6.00E-06	0.515
<i>IL12A</i>	Interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)	1.80E-05	2.33E-05	0.143
<i>IL1A</i>	Interleukin 1, alpha	7.93E-06	5.08E-06	0.116
<i>IL1B</i>	Interleukin 1, beta	8.74E-06	2.41E-05	0.247
<i>IL2</i>	Interleukin 2	4.62E-06	7.01E-06	0.202
<i>IL6</i>	Interleukin 6 (interferon, beta 2)	1.41E-04	1.87E-04	0.071
<i>IL8</i>	Interleukin 8	9.32E-06	2.32E-05	0.111
<i>IRAK1</i>	Interleukin-1 receptor-associated kinase 1	6.72E-04	9.90E-04	0.178
<i>IRAK2</i>	Interleukin-1 receptor-associated kinase 2	4.23E-04	4.33E-04	0.583

<i>IRAK4</i>	Interleukin-1 receptor-associated kinase 4	3.87E-04	4.13E-04	0.458
<i>IRF1</i>	Interferon regulatory factor 1	6.96E-04	1.06E-03	0.014
<i>IRF3</i>	Interferon regulatory factor 3	1.15E-03	1.21E-03	0.591
<i>JUN</i>	Jun proto-oncogene	5.93E-03	6.90E-03	0.219
<i>LTA</i>	Lymphotoxin alpha (TNF superfamily, member 1)	5.43E-06	7.53E-06	0.203
<i>LY86</i>	Lymphocyte antigen 86	1.30E-05	2.57E-05	0.210
<i>LY96</i>	Lymphocyte antigen 96	1.47E-04	2.21E-04	0.102
<i>MAP2K3</i>	Mitogen-activated protein kinase kinase 3	8.94E-03	1.10E-02	0.048
<i>MAP2K4</i>	Mitogen-activated protein kinase kinase 4	2.76E-03	3.37E-03	0.128
<i>MAP3K1</i>	Mitogen-activated protein kinase kinase kinase 1	2.94E-04	3.20E-04	0.326
<i>MAP3K7</i>	Mitogen-activated protein kinase kinase kinase 7	2.17E-03	2.49E-03	0.204
<i>MAP4K4</i>	Mitogen-activated protein kinase kinase kinase 4	1.49E-03	2.07E-03	0.017
<i>MAPK8</i>	Mitogen-activated protein kinase 8	2.40E-03	3.04E-03	0.037
<i>MAPK8IP3</i>	Mitogen-activated protein kinase 8 interacting protein 3	1.00E-03	1.14E-03	0.189
<i>MYD88</i>	Myeloid differentiation primary response gene (88)	2.25E-04	2.88E-04	0.084
<i>NFKB1</i>	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	7.60E-04	8.68E-04	0.169
<i>NFKB2</i>	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	3.09E-04	4.22E-04	0.055
<i>NFKBIA</i>	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	9.37E-03	1.26E-02	0.078
<i>NFKBIL1</i>	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 1	6.04E-04	5.93E-04	0.925
<i>NFRKB</i>	Nuclear factor related to kappaB binding protein	5.96E-04	7.38E-04	0.071
<i>NR2C2</i>	Nuclear receptor subfamily 2, group C, member 2	1.03E-03	1.21E-03	0.099
<i>PELI1</i>	Pellino homolog 1 (Drosophila)	1.03E-03	1.35E-03	0.268
<i>PPARA</i>	Peroxisome proliferator-activated receptor alpha	6.32E-03	7.26E-03	0.119
<i>PRKRA</i>	Protein kinase, interferon-inducible double stranded RNA dependent activator	6.18E-03	7.65E-03	0.026
<i>PTGS2</i>	Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	8.46E-06	1.93E-05	0.121
<i>REL</i>	V-rel reticuloendotheliosis viral oncogene homolog (avian)	1.00E-03	1.17E-03	0.015
<i>RELA</i>	V-rel reticuloendotheliosis viral oncogene homolog A (avian)	1.93E-03	2.32E-03	0.033
<i>RIPK2</i>	Receptor-interacting serine-threonine kinase 2	1.66E-04	1.76E-04	0.416
<i>SARM1</i>	Sterile alpha and TIR motif containing 1	2.16E-04	2.55E-04	0.217
<i>SIGIRR</i>	Single immunoglobulin and toll-interleukin 1 receptor (TIR) domain	3.24E-05	3.52E-05	0.467
<i>TAB1</i>	TGF-beta activated kinase 1/MAP3K7 binding protein 1	1.62E-03	3.07E-03	0.330
<i>TBK1</i>	TANK-binding kinase 1	1.02E-03	2.00E-03	0.327
<i>TICAM1</i>	Toll-like receptor adaptor molecule 1	6.85E-04	8.09E-04	0.277

<i>TICAM2</i>	Toll-like receptor adaptor molecule 2	8.65E-04	2.75E-03	0.343
<i>TIRAP</i>	Toll-interleukin 1 receptor (TIR) domain containing adaptor protein	3.24E-04	3.75E-04	0.366
<i>TLR1</i>	Toll-like receptor 1	5.51E-05	1.03E-04	0.164
<i>TLR10</i>	Toll-like receptor 10	3.10E-05	7.34E-06	0.343
<i>TLR2</i>	Toll-like receptor 2	8.07E-05	1.98E-04	0.074
<i>TLR3</i>	Toll-like receptor 3	1.65E-04	2.13E-04	0.062
<i>TLR4</i>	Toll-like receptor 4	6.80E-04	1.02E-03	0.006
<i>TLR5</i>	Toll-like receptor 5	2.03E-04	3.27E-04	0.039
<i>TLR6</i>	Toll-like receptor 6	7.56E-05	1.59E-04	0.042
<i>TLR7</i>	Toll-like receptor 7	4.09E-05	6.38E-05	0.346
<i>TLR8</i>	Toll-like receptor 8	2.91E-05	6.51E-05	0.176
<i>TLR9</i>	Toll-like receptor 9	6.73E-05	6.22E-05	0.539
<i>TNF</i>	Tumor necrosis factor	2.51E-05	3.01E-05	0.788
<i>TNFRSF1A</i>	Tumor necrosis factor receptor superfamily, member 1A	2.14E-03	2.49E-03	0.092
<i>TOLLIP</i>	Toll interacting protein	2.13E-03	2.42E-03	0.101
<i>TRAF6</i>	TNF receptor-associated factor 6	1.74E-03	1.91E-03	0.295
<i>UBE2N</i>	Ubiquitin-conjugating enzyme E2N	4.95E-03	5.82E-03	0.045

Suppl. Table 1. Genes measured by RT Profiler PCR Array for Human TLR Signaling in skeletal muscle. Data are average $2^{-\Delta\Delta Ct}$ after saline and lipid infusion. p-values (paired t-test) of saline versus lipid are shown.