

S1 Table. Top 50 upregulated genes in LM vs DM 12 hours after UVB (non- coding RNAs are indicated with *) (bonferroni-adjusted p-value <0.0001).

Locus name	Accession number	Description
<i>RPLP2</i>	NM_001004	<i>Homo sapiens</i> ribosomal protein, large, P2
<i>ACTB</i>	NM_001101	<i>Homo sapiens</i> actin, beta
<i>RPS28</i>	NM_001031	<i>Homo sapiens</i> ribosomal protein S28
<i>FTH1</i>	NM_002032	<i>Homo sapiens</i> ferritin, heavy polypeptide 1
<i>STK39</i>	NM_013233	<i>Homo sapiens</i> serine threonine kinase 39
<i>FUT8</i>	NM_178155	<i>Homo sapiens</i> fucosyltransferase 8 (alpha (1,6) fucosyltransferase)
<i>ENOX2</i>	NM_182314	<i>Homo sapiens</i> ecto-NOX disulfide-thiol exchanger 2
* <i>LOC100128054</i>	NR_033969	
<i>WDR7</i>	NM_015285	<i>Homo sapiens</i> WD repeat domain 7
<i>RNGTT</i>	NM_003800	<i>Homo sapiens</i> RNA guanylyltransferase and 5'-phosphatase
<i>LMO7</i>	NM_005358	<i>Homo sapiens</i> LIM domain 7
<i>CDKN3</i>	NM_005192	<i>Homo sapiens</i> cyclin-dependent kinase inhibitor 3
<i>SCLT1</i>	NM_144643	<i>Homo sapiens</i> sodium channel and clathrin linker 1
<i>PPM1H</i>	NM_020700	<i>Homo sapiens</i> protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1H
<i>TMEM117</i>	NM_032256	<i>Homo sapiens</i> transmembrane protein 117
<i>TBC1D19</i>	NM_018317	<i>Homo sapiens</i> TBC1 domain family, member 19
<i>DNAJC1</i>	NM_022365	<i>Homo sapiens</i> DnaJ (Hsp40) homolog, subfamily C, member 1
<i>NEURL1B</i>	NM_001142651	<i>Homo sapiens</i> neuralized homolog 1B (<i>Drosophila</i>)
<i>CCNB1</i>	NM_031966	<i>Homo sapiens</i> cyclin B1
<i>CDKL2</i>	NM_003948	<i>Homo sapiens</i> cyclin-dependent kinase-like 2 (CDC2-related kinase)
<i>ATP6V0A4</i>	NM_020632	<i>Homo sapiens</i> ATPase, H ⁺ transporting, lysosomal V0 subunit a4
<i>EFCAB11</i>	NM_145231	<i>Homo sapiens</i> EF-hand calcium binding domain 11
<i>CCDC91</i>	NM_018318	<i>Homo sapiens</i> coiled-coil domain containing 91
<i>CWC27</i>	NM_005869	<i>Homo sapiens</i> CWC27 spliceosome-associated protein homolog (<i>S. cerevisiae</i>)
<i>PKP4</i>	NM_003628	<i>Homo sapiens</i> plakophilin 4
<i>ANK3</i>	NM_020987	<i>Homo sapiens</i> ankyrin 3, node of Ranvier (ankyrin G)
<i>FTH1</i>	NM_002032	<i>Homo sapiens</i> ferritin, heavy polypeptide 1
<i>SCD5</i>	NM_001037582	<i>Homo sapiens</i> stearoyl-CoA desaturase 5
<i>ABAT</i>	NM_000663	<i>Homo sapiens</i> 4-aminobutyrate aminotransferase
<i>DEPDC1B</i>	NM_018369	<i>Homo sapiens</i> DEP domain containing 1B
<i>SLC24A1</i>	NM_004727	<i>Homo sapiens</i> solute carrier family 24 sodium/potassium/calcium exchanger)
<i>CADM3</i>	NM_021189	<i>Homo sapiens</i> cell adhesion molecule 3
<i>FIG4</i>	NM_014845	<i>Homo sapiens</i> FIG4 homolog, SAC1 lipid phosphatase domain containing (<i>S. cerevisiae</i>)
<i>EPB41L4A</i>	NM_022140	<i>Homo sapiens</i> erythrocyte membrane protein band 4.1 like 4A
<i>HMGN2</i>	NM_005517	<i>Homo sapiens</i> high mobility group nucleosomal binding domain 2
<i>EXOC6</i>	NM_019053	<i>Homo sapiens</i> exocyst complex component 6
<i>GHR</i>	NM_000163	<i>Homo sapiens</i> growth hormone receptor
<i>DZIP3</i>	NM_014648	<i>Homo sapiens</i> DAZ interacting protein 3, zinc finger
<i>MYO9A</i>	NM_006901	<i>Homo sapiens</i> myosin IXA
<i>COG5</i>	NM_006348	<i>Homo sapiens</i> component of oligomeric golgi complex 5
<i>HMGN2</i>	NM_005517	<i>Homo sapiens</i> high mobility group nucleosomal binding domain 2
<i>LMBRD1</i>	NM_018368	<i>Homo sapiens</i> LMBR1 domain containing 1
<i>PMEL (SILV)</i>	NM_006928	<i>Homo sapiens</i> premelanosome protein (<i>Homo sapiens</i> silver homolog (mouse))
<i>FRMD5</i>	NM_032892	FERM domain containing 5
<i>CENPA</i>	NM_001809	<i>Homo sapiens</i> centromere protein A
<i>CDKN2A</i>	NM_058197	<i>Homo sapiens</i> cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)
<i>RDM1</i>	NM_001034836	<i>Homo sapiens</i> RAD52 motif 1
<i>QPCT</i>	NM_012413	<i>Homo sapiens</i> glutaminyl-peptide cyclotransferase
<i>GNAQ</i>	NM_002072	<i>Homo sapiens</i> guanine nucleotide binding protein (G protein), q polypeptide
<i>ARHGAP32</i>	NM_014715	<i>Homo sapiens</i> Rho GTPase activating protein 32