

**S2 Table.** Top 50 upregulated genes in DM vs LM 12 hours after UVB (non- coding RNAs are indicated with \*) (bonferroni-adjusted p-value <0.0001).

Locus name	Accession number	Description
<i>KPNB1</i>	NM_002265	<i>Homo sapiens</i> karyopherin (importin) beta 1
<i>NUP50</i>	NM_007172	<i>Homo sapiens</i> nucleoporin 50kDa
<i>GABPB1</i>	NM_002041	<i>Homo sapiens</i> GA binding protein transcription factor, beta subunit 1
<i>CACHD1</i>	NM_020925	<i>Homo sapiens</i> cache domain containing 1
<i>NOM1</i>	NM_138400	<i>Homo sapiens</i> nucleolar protein with MIF4G domain 1
<i>LRRC42</i>	NM_029985	Leucine rich repeat containing 42
<i>GET4</i>	NM_015949	<i>Homo sapiens</i> golgi to ER traffic protein 4 homolog ( <i>S. cerevisiae</i> )
<i>C16orf55</i>	NM_153025	<i>Homo sapiens</i> chromosome 16 open reading frame 55
<i>MRPL15</i>	NM_014175	<i>Homo sapiens</i> mitochondrial ribosomal protein L15
<i>MT1X</i>	NM_005952	<i>Homo sapiens</i> metallothionein 1X
* <i>LOC399744</i>	NR_024497	
<i>CPSF3L</i>	NM_017871	<i>Homo sapiens</i> cleavage and polyadenylation specific factor 3-like
<i>ZNF498</i>	NM_145115	<i>Homo sapiens</i> zinc finger protein 498
* <i>LOC151174</i>	NR_026925	
<i>UPF3A</i>	NM_023011	<i>Homo sapiens</i> UPF3 regulator of nonsense transcripts homolog A
<i>SSR3</i>	NM_007107	<i>Homo sapiens</i> signal sequence receptor, gamma
<i>DAB1</i>	NM_021080	<i>Homo sapiens</i> disabled homolog 1 ( <i>Drosophila</i> )
<i>HOOK3</i>	NM_032410	<i>Homo sapiens</i> hook homolog 3 ( <i>Drosophila</i> )
<i>MFSF8</i>	NM_152778	<i>Homo sapiens</i> major facilitator superfamily domain containing 8
<i>CHRD</i>	NM_003741	<i>Homo sapiens</i> chordin
* <i>LOC100129280</i>	AK126613	
<i>MAD2L2</i>	NM_027985	MAD2 mitotic arrest deficient-like 2 (yeast)
<i>GCN1L1</i>	NM_006836	<i>Homo sapiens</i> GCN1 general control of amino-acid synthesis 1-like 1 (yeast)
<i>HMX2</i>	NM_005519	<i>Homo sapiens</i> H6 family homeobox 2
<i>AAMP</i>	NM_001087	<i>Homo sapiens</i> angio-associated, migratory cell protein
<i>ANKRD30B</i>	NM_001145029	<i>Homo sapiens</i> ankyrin repeat domain 30B
<i>AVIL</i>	NM_006576	<i>Homo sapiens</i> advillin
<i>STAG2</i>	NM_001042749	<i>Homo sapiens</i> stromal antigen 2
<i>GBA2</i>	NM_020944	<i>Homo sapiens</i> glucosidase, beta (bile acid) 2
<i>MAP2K4</i>	NM_003010	<i>Homo sapiens</i> mitogen-activated protein kinase kinase 4
<i>SDF2</i>	NM_006923	<i>Homo sapiens</i> stromal cell-derived factor 2
<i>CPT1B</i>	NM_152246	<i>Homo sapiens</i> carnitine palmitoyltransferase 1B (muscle)
<i>SH3D21</i>	NM_001162530	<i>Homo sapiens</i> SH3 domain containing 21
<i>C10orf96</i>	NM_198515	<i>Homo sapiens</i> chromosome 10 open reading frame 96
<i>STARD3</i>	NM_001165937	<i>Homo sapiens</i> StAR-related lipid transfer (START) domain containing 3
* <i>LOC339807</i>	NR_034023	
<i>B3GALNT2</i>	NM_152490	<i>Homo sapiens</i> beta-1,3-N-acetylgalactosaminyltransferase 2
<i>SRM</i>	NM_003132	<i>Homo sapiens</i> spermidine synthase
<i>ZNF562</i>	NM_017656	<i>Homo sapiens</i> zinc finger protein 562
<i>CCT8</i>	NM_006585	<i>Homo sapiens</i> chaperonin containing TCP1, subunit 8 (theta)
<i>MPDU1</i>	NM_004870	<i>Homo sapiens</i> mannose-P-dolichol utilization defect 1
<i>POLR3A</i>	NM_007055	<i>Homo sapiens</i> polymerase (RNA) III
<i>ENY2</i>	NM_020189	<i>Homo sapiens</i> enhancer of yellow 2 homolog ( <i>Drosophila</i> )
<i>C3orf19</i>	NM_016474	<i>Homo sapiens</i> chromosome 3 open reading frame 19
<i>MRPS18A</i>	NM_018135	<i>Homo sapiens</i> mitochondrial ribosomal protein S18A
<i>DENND3</i>	NM_014957	DENN/MADD domain containing 3
<i>F11R</i>	NM_016946	<i>Homo sapiens</i> F11 receptor
<i>HERC5</i>	NM_016323	<i>Homo sapiens</i> hect domain and RLD 5
<i>ADM2</i>	NM_024866	<i>Homo sapiens</i> adrenomedullin 2
<i>ASXL2</i>	NM_018263	<i>Homo sapiens</i> additional sex combs like 2 ( <i>Drosophila</i> )