

Table S3. The most significantly dysregulated genes between HPL and LPL goats

Gene symbol	Accession number	Gene name	FC
<i>up-regulated in HPL goats</i>			
<i>DPYS</i>	ENSCHIG000000025287	Dihydropyrimidinase	5.94
<i>ZNF697</i>	ENSCHIG000000014100	Zinc Finger Protein 697	4.87
<i>GPRIN3</i>	ENSCHIG000000008090	G protein-regulated inducer of neurite outgrowth 3	4.23
<i>OR52L1</i>	ENSCHIG000000007356	Olfactory receptor family 52 subfamily L member 1	4.14
<i>EHD4</i>	ENSCHIG000000025291	EH domain-containing protein 4	4.01
<i>OCLN</i>	ENSCHIG000000001852	Occludin	3.79
<i>SULT6B1</i>	ENSCHIG000000024550	Sulfotransferase 6B1	3.71
<i>TRPM5</i>	ENSCHIG000000002319	Transient receptor potential cation channel subfamily M member 5	3.65
<i>IFITM1</i>	ENSCHIG000000019798	Interferon induced transmembrane protein 1	3.62
<i>DRAM1</i>	ENSCHIG000000019601	DNA damage-regulated autophagy modulator protein 1	3.60
<i>down-regulated in HPL goats</i>			
<i>SLC22A1</i>	ENSCHIG000000014819	Solute carrier family 22 member 1	-419.33
<i>FTL</i>	ENSCHIG000000011303	Ferritin light chain	-190.61
<i>HBA1</i>	ENSCHIG000000024771	Hemoglobin subunit alpha 1	-166.75
<i>HBAII</i>	ENSCHIG000000019220	Hemoglobin subunit alpha-2-like	-155.25
<i>BTF3</i>	ENSCHIG000000008661	Basic transcription factor 3	-129.90
<i>ALAS2</i>	ENSCHIG000000011854	5'-aminolevulinate synthase 2	-110.62
<i>B2M</i>	ENSCHIG000000018922	Beta-2-microglobulin	-96.08
<i>MAL</i>	ENSCHIG000000020112	Malate dehydrogenase	-79.11
<i>HBB</i>	ENSCHIG000000017796	Hemoglobin subunit beta	-62.07
<i>LGALS9</i>	ENSCHIG000000019679	Galectin-9	-57.83
HPL- high proviral load			
LPL- low proviral load			