

Table S5. The detail fold change values and GO term analysis of upregulated genes in group HPL goats.

GO	Number of genes	Genes	Name of genes	FC
peptidyl-cysteine modification	7	<i>GOLGA7B</i>	golgin A7 family member B	4.96
		<i>MAP6D1</i>	MAP6 domain containing 1	2.99
		<i>TMX3</i>	thioredoxin related transmembrane protein 3	2.36
		<i>RAB3D</i>	RAB3D, member RAS oncogene family	2.33
		<i>ZDHHC23</i>	zinc finger DHHC-type containing 23	2.24
		<i>RAB6A</i>	RAB6A, member RAS oncogene family	2.11
		<i>ZDHHC22</i>	zinc finger DHHC-type containing 22	2.01
cytokine production	95	<i>ADAMTS3</i>	ADAM metalloproteinase with thrombospondin type 1 motif 3	3.00
		<i>IL15</i>	interleukin 15	2.77
		<i>CMKLR1</i>	chemerin chemokine-like receptor 1	2.61
		<i>NOD2</i>	nucleotide binding oligomerization domain containing 2	2.55
		<i>ABCA1</i>	ATP binding cassette subfamily A member 1	2.48
		<i>GDF2</i>	growth differentiation factor 2	2.44
		<i>CCR2</i>	C-C motif chemokine receptor 2	2.44
		<i>HFE</i>	homeostatic iron regulator	2.37
		<i>RSAD2</i>	radical S-adenosyl methionine domain containing 2	2.36
		<i>CHUK</i>	conserved helix-loop-helix ubiquitous kinase	2.33
		<i>ITK</i>	IL2 inducible T cell kinase	2.27
		<i>LBP</i>	lipopolysaccharide binding protein	2.24
		<i>ADCY7</i>	adenylate cyclase 7	2.17
		<i>IL6R</i>	interleukin 6 receptor	2.16
		<i>IL1A</i>	interleukin 1 alpha	2.16
		<i>RAB7B</i>	RAB7B, member RAS oncogene family	2.15
		<i>IFIH1</i>	interferon induced with helicase C domain 1	2.14
		<i>C3AR1</i>	complement C3a receptor 1	2.00
		<i>LPL</i>	lipoprotein lipase	1.96
		<i>CD274</i>	CD274 molecule	1.96
vacuole organization	34	<i>ABCA1</i>	ATP binding cassette subfamily A member 1	2.48
		<i>PIP4K2B</i>	phosphatidylinositol-5-phosphate 4-kinase type 2 beta	2.46
		<i>UBXN2A</i>	UBX domain protein 2A	2.28
		<i>RALB</i>	RAS like proto-oncogene B	2.27
		<i>RAB7B</i>	RAB7B, member RAS oncogene family	2.15
		<i>PPT1</i>	palmitoyl-protein thioesterase 1	2.06
		<i>GAA</i>	glucosidase alpha, acid	2.01
		<i>ACP2</i>	acid phosphatase 2, lysosomal	1.95
		<i>TBC1D14</i>	TBC1 domain family member 14	1.68
		<i>AKTIP</i>	AKT interacting protein	1.64
vesicle organization	38	<i>SEC16B</i>	SEC16 homolog B, endoplasmic reticulum export factor	6.08
		<i>RAB8B</i>	RAB8B, member RAS oncogene family	2.87
		<i>ABCA1</i>	ATP binding cassette subfamily A member 1	2.48
		<i>SAMD9</i>	sterile alpha motif domain containing 9	2.19
		<i>VPS39</i>	VPS39, HOPS complex subunit	2.17
		<i>RAB7B</i>	RAB7B, member RAS oncogene family	2.15
		<i>DYSF</i>	dysferlin	2.02
		<i>STX19</i>	syntaxin 19	2.01
		<i>EXOC8</i>	exocyst complex component 8	1.88
		<i>BCL2</i>	BCL2, apoptosis regulator	1.83
glutamate receptor signaling pathway	5	<i>CACNG3</i>	calcium voltage-gated channel auxiliary subunit gamma 3	4.21
		<i>GRM2</i>	glutamate metabotropic receptor 2	3.01
		<i>CRHBP</i>	corticotropin releasing hormone binding protein	2.37
		<i>HOMER2</i>	homer scaffold protein 2	1.87
		<i>PRNP</i>	prion protein	1.86
		<i>MAB21L2</i>	mab-21 like 2	6.44
		<i>IHH</i>	Indian hedgehog signaling molecule	5.02
		<i>PAX9</i>	paired box 9	3.34

		<i>COL1A1</i>	collagen type I alpha 1 chain	2.97
		<i>DKK1</i>	dickkopf WNT signaling pathway inhibitor 1	2.47
		<i>SGPL1</i>	sphingosine-1-phosphate lyase 1	1.99
carbohydrate derivative transport	15	<i>SLC28A2</i>	solute carrier family 28 member 2	6.09
		<i>SLC17A3</i>	solute carrier family 17 member 3	4.03
		<i>ABCG1</i>	ATP binding cassette subfamily G member 1	2.33
		<i>SLC35A3</i>	solute carrier family 35 member A3	2.15
		<i>SLC29A3</i>	solute carrier family 29 member 3	2.12
		<i>GJA1</i>	gap junction protein alpha 1	1.93
		<i>SLC37A2</i>	solute carrier family 37 member 2	1.74
		<i>SLC35D1</i>	solute carrier family 35 member D1	1.66
		<i>SLC28A3</i>	solute carrier family 28 member 3	1.62
		<i>SLC35A5</i>	solute carrier family 35 member A5	1.60
respiratory gaseous exchange	5	<i>SFTPB</i>	surfactant protein B	7.08
		<i>EDN1</i>	endothelin 1	3.76
		<i>NDST1</i>	N-deacetylase and N-sulfotransferase 1	2.05
		<i>GAA</i>	glucosidase alpha, acid	2.01
		<i>MAFB</i>	MAF bZIP transcription factor B	1.84
tissue remodeling	14	<i>IHH</i>	Indian hedgehog signaling molecule	5.02
		<i>DCSTAMP</i>	dendrocyte expressed seven transmembrane protein	4.97
		<i>RASSF2</i>	Ras association domain family member 2	2.92
		<i>CCR2</i>	C-C motif chemokine receptor 2	2.44
		<i>DLL4</i>	delta like canonical Notch ligand 4	2.43
		<i>RAB3D</i>	RAB3D, member RAS oncogene family	2.33
		<i>IL1A</i>	interleukin 1 alpha	2.16
		<i>EFNA2</i>	ephrin A2	2.14
		<i>NOTCH2</i>	notch receptor 2	2.04
dopamine receptor signaling pathway	3	<i>CLDN18</i>	claudin 18	2.01
		<i>NSG2</i>	neuronal vesicle trafficking associated 2	13.88
		<i>NSG1</i>	neuronal vesicle trafficking associated 1	4.19
		<i>DRD1</i>	dopamine receptor D1	2.81