

Table S7. Significantly enriched gene ontology (GO) terms and KEGG pathway related to milk fat synthesis in profile 0.

ID	Term / Pathway	FDR	Gene Name	Number of Genes
GO:0008374	O-acyltransferase activity	0.000	<i>AGPAT1, AGPAT6, GPAM, LRAT</i>	4
GO:0016747	transferase activity	0.000	<i>AGPAT1, AGPAT6, FASN, GCAT, GPAM, LRAT</i>	6
GO:0016024	CDP-diacylglycerol biosynthetic process	0.006	<i>AGPAT1, AGPAT6, GPAM</i>	3
GO:0046341	CDP-diacylglycerol metabolic process	0.006	<i>AGPAT1, AGPAT6, GPAM</i>	3
GO:0004366	glycerol-3-phosphate O-acyltransferase activity	0.007	<i>AGPAT6, GPAM</i>	2
GO:0102420	sn-1-glycerol-3-phosphate C16:0-DCA-CoA acyl transferase activity	0.007	<i>AGPAT6, GPAM</i>	2
GO:0019752	carboxylic acid metabolic process	0.024	<i>ACACA, ASS1, C1QTNF9, FAH, FASN, GCAT, IVD, PAH</i>	8
GO:0044255	cellular lipid metabolic process	0.027	<i>ACACA, AGPAT1, AGPAT6, C1QTNF9, FASN, GPAM, LRAT</i>	7
GO:0008610	lipid biosynthetic process	0.038	<i>ACACA, AGPAT1, AGPAT6, FASN, GPAM</i>	5
bta00561	Glycerolipid metabolism	0.003	<i>AGPAT1, AGPAT6, GPAM</i>	3
bta00061	Fatty acid biosynthesis	0.004	<i>ACACA, FASN</i>	2
bta00564	Glycerophospholipid metabolism	0.007	<i>AGPAT1, AGPAT6, GPAM</i>	3
bta01100	Metabolic pathways	0.007	<i>ACACA, AGPAT1, AGPAT6, ASS1, FASN, GPAM, NT5E, UGP2</i>	7
bta04975	Fat digestion and absorption	0.017	<i>AGPAT1, CD36</i>	2
bta01212	Fatty acid metabolism	0.018	<i>ACACA, FASN</i>	2