

Table S8: Enzymes and genes related to amino acid and lipids metabolism.

Enzymes	Genes	Annotation
HK1	<i>YALI0_B22308g</i>	Hexokinase
HK2	<i>YALI0_E20207g</i>	Hexokinase
HK3	<i>YALI0_E15488g</i>	Hexokinase
ACL1	<i>YALI0_E34793g</i>	ATP citrate lyase subunit 1
ACL2	<i>YALI0_D24431g</i>	ATP citrate lyase subunit 2
FUM	<i>YALI0_C06776g</i>	Fumarate hydratase
SDH	<i>YALI0_D23397g</i>	Succinate dehydrogenase
PCK	<i>YALI0_C16995g</i>	phosphoenolpyruvate carboxykinase (ATP)
PRPS	<i>YALI0_B00836g</i>	ribose-phosphate pyrophosphokinase
HISG	<i>YALI0_C05170g</i>	ATP phosphoribosyltransferase
AROF	<i>YALI0_B20020g</i>	3-deoxy-7-phosphoheptulonate synthase
ARO8	<i>YALI0_E20977g</i>	aromatic amino acid aminotransferase I/2-amino adipate transaminase
ARO9	<i>YALI0_C05258g</i>	aromatic amino acid aminotransferase II
TRP3	<i>YALI0_E14751g</i>	anthranilate synthase / indole-3-glycerol phosphate synthase
GOT1	<i>YALI0_F29337g</i>	aspartate aminotransferase, cytoplasmic
ILVE	<i>YALI0_D01265g</i>	branched-chain amino acid aminotransferase
ILVD	<i>YALI0_C23408g</i>	dihydroxy-acid dehydratase
ILVB	<i>YALI0_C00253g</i>	acetolactate synthase I/II/III large subunit
ILVC	<i>YALI0_D03135g</i>	ketol-acid reductoisomerase
ALT	<i>YALI0_D06325g</i>	alanine transaminase
GDHA	<i>YALI0_F17820g</i>	glutamate dehydrogenase (NADP+)
GUDB	<i>YALI0_E09603g</i>	glutamate dehydrogenase
GLNA1	<i>YALI0_D13024g</i>	glutamine synthetase
GLNA2	<i>YALI0_F00506g</i>	glutamine synthetase
ARG1	<i>YALI0_E07535g</i>	arginase
OTC	<i>YALI0_D14894g</i>	ornithine carbamoyltransferase
ACC	<i>YALI0_C11407g</i>	acetyl-CoA carboxylase
FABF	<i>YALI0_F30679g</i>	3-oxoacyl-[acyl-carrier-protein] synthase II
FAS2	<i>YALI0_B19382g</i>	fatty acid synthase subunit alpha,
FAS1	<i>YALI0_B15059g</i>	fatty acid synthase subunit beta
ACOX3	<i>YALI0_C23859g</i>	acyl-CoA oxidase
ACOX1	<i>YALI0_D24750g</i>	acyl-CoA oxidase
ACOX2	<i>YALI0_F10857g</i>	acyl-CoA oxidase
ACOX4	<i>YALI0_E32835g</i>	acyl-CoA oxidase
ECHS1	<i>YALI0_B10406g</i>	enoyl-CoA hydratase
ACAA1	<i>YALI0_E18568g</i>	acetyl-CoA acyltransferase 1
ACAT1	<i>YALI0_E11099g</i>	acetyl-CoA C-acetyltransferase
ACAT2	<i>YALI0_B08536g</i>	acetyl-CoA C-acetyltransferase
DGAT1	<i>YALI0_D07986g</i>	diacylglycerol O-acyltransferase 1
ATG15	<i>YALI0_F06358g</i>	lipase ATG15
TGL3	<i>YALI0_D17534g</i>	TAG lipase

TGL2	<i>YALI0_E31515g</i>	triacylglycerol lipase
ERG25	<i>YALI0_F11297g</i>	methylsterol monooxygenase
ERG2a	<i>YALI0_E32065g</i>	C-8 sterol isomerase
ERG24	<i>YALI0_B23298g</i>	Delta14-sterol reductase
CYP51	<i>YALI0_B05126g</i>	sterol 14alpha-demethylase
SOAT	<i>YALI0_F06578g</i>	sterol O-acyltransferase
ERG2b	<i>YALI0_B17204g</i>	C-8 sterol isomerase
LIPA	<i>YALI0_E32035g</i>	lysosomal acid lipase/cholesteryl ester hydrolase
FAD2	<i>YALI0_B10153g</i>	omega-6 fatty acid desaturase
PROB	<i>YALI0_A19206g</i>	glutamate 5-kinase
PCDH	<i>YALI0_B09647g</i>	1-pyrroline-5-carboxylate dehydrogenase
PRODH	<i>YALI0_B09625g</i>	proline dehydrogenase
