	Gene names	Protein names	Best Cluster	Num in Largest
1	Got2 Got-2	Aspartate aminotransferase, mitochondrial (mAspAT) (EC 2.6.1.1) (EC 2.6.1.7) (Fatty acid-binding protein) (FABP-1) (Glutamate oxaloacetate transaminase 2) (Kynurenine aminotransferase 4) (Kynurenine-oxoglutarate transaminase IV) (Plasma membrane-associated fatty acid-binding protein) (FABPpm) (Transaminase A)	(kcal/mol) -16.860000	
2	Kyat3 Ccbl2	Kynurenineoxoglutarate transaminase 3 (EC 2.6.1.7) (Cysteine-S-conjugate beta-lyase 2) (EC 4.4.1.13) (Kynurenine aminotransferase 3) (Kynurenine aminotransferase III) (KATIII) (Kynurenine	-16 760000	62
	Nais	Grychylate transaminase) (EC 2.0.1.05) (Kyntrellineoxogrutarate transaminase) (EC 2.6.1.7) (Cyctoine S conjugate beta lyace) (EC 4.4.1.12) (Clutamina transaminase V) (CTV) (Clutamina phonylnymysta transaminase) (EC 2.6.1.7)	-15.260000	
		O-phoephoegyvl-tRNA(Soc) calanium transferaça (FC 2 0 1 2) (Salanocyctaina cynthaca) (Sac cynthaca) (Salanocyctainyl-tRNA(Soc) cynthaca) (San-tRNA-Soc-tRNA cynthaca) (SanSocS) (IICA	-14.850000	58
	Phykol		-14.780000	19
	Shmt1		-14.600000	67
			-14.480000	
	Etnnnl		-13.950000	
		Aspartate aminotransferase, cytoplasmic (cAspAT) (EC 2.6.1.1) (EC 2.6.1.3) (Cysteine aminotransferase, cytoplasmic) (CVsteine transaminase, cytoplasmic) (cCAT) (Clutamate cyaloacetate	-13.720000	
		Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial (KAT/AadAT) (2-aminoadipate aminotransferase) (2-aminoadipate transaminase) (EC 2.6.1.39) (Alpha-aminoadipate		
10		aminotransferase) (AadAT) (Kynurenine aminotransferase II) (Kynurenineoxoglutarate aminotransferase II) (Kynurenineoxoglutarate transaminase 2) (EC 2.6.1.7) (Kynurenineoxoglutarate transaminase II)	-13.510000	38
			-13.490000	
			-13.330000 -13.250000	
			-13.210000	
			-13.080000	
	Bcat2		-12.840000 -12.720000	
	Eca40			
	3 Cth 9 Accs		-12.680000 -12.430000	
			-12.430000	
			-12.420000	
			-12.300000	
23	Spuczi		-12.300000	67
	Apat Gapat	transaminase) (GABA transaminase) (GABA-1) (L-AIBA1)	-12.290000	
	Psat1 Psa Psat		-12.280000	
			-12.250000 -12.190000	
			-12.150000	
		Glycogen phosphorylase, muscle form (EC 2.4.1.1) (Myophosphorylase)	-11.850000	25
	Gado	Glutamate decarboxylase 1 (EC 4.1.1.15) (67 kDa glutamic acid decarboxylase) (GAD-67) (Glutamate decarboxylase 67 kDa isoform)	-11.720000	32
31	l ^{Accsl} Gm1967		-11.670000	
		Cystathionine beta-synthase (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase)	-11.570000	57
33	Gad2 Gad65	Glutamate decarboxylase 2 (EC 4.1.1.15) (65 kDa glutamic acid decarboxylase) (GAD-65) (Glutamate decarboxylase 65 kDa isoform)	-11.550000	35
			-11.370000	
			-11.370000 -11.350000	
	Rcat1		-11.340000	
			-11.200000	
			-11.180000	
			-11.170000	
			-11.060000 -11.020000	
	3 Thnsl1	Threonine synthase-like 1 (TSH1)	-10.770000	
44		Alanineglyoxylate aminotransferase 2, mitochondrial (AGT 2) (EC 2.6.1.44) ((R)-3-amino-2-methylpropionatepyruvate transaminase) (EC 2.6.1.40) (Beta-ALAAT II) (Beta-alanine-pyruvate aminotransferase) (D-AIBAT)	-10.600000	38
		L-threonine aldolase (Threonine aldolase 1)	-10.580000	60
46	Gm853	Gene model 853, (NCBI) (Leucine decarboxylase 1)	-10.570000	34
47	7 Nfs1 Nifs		-10.530000	
	•		-10.480000 -9.930000	
			-9.740000 -9.740000	
5 1	l Thnsl2	Threonine synthase-like 2 (TSH2) (mTSH2) (EC 4.2.3)	-9.500000	27
				24
				21
	Oazin			26
5.5	5 Shmt2	Serine hydroxymethyltransferase, mitochondrial (SHMT) (EC 2.1.2.1) (Glycine hydroxymethyltransferase) (Serine methylase)	-7.730000	7.4

-7.730000 24

Serine hydroxymethyltransferase, mitochondrial (SHMT) (EC 2.1.2.1) (Glycine hydroxymethyltransferase) (Serine methylase)

55 Shmt2