Gene names	Protein names Omithing describerations (ODC) (EC 4.1.1.17)	Largest Cluster Res (kcal/mol)	Num in Largest Cluster
1 Odc1 Odc 2 Cth		-10.500000 -10.150000	10.000000 36.000000
3 Ldc1 Gm853		-9.980000	14.000000
4 Gadl1	Acidic amino acid decarbovulace CADI 1 (Acpartate 1 decarbovulace) (ADC) (EC 4.1.1.11) (Cyctoine culfinic acid decarbovulace) (CSADC) (EC 4.1.1.20) (Clutamate decarbovulace) like protein	-9.630000	35.000000
5 Kyat3 Ccbl2	Yourenineoxoglutarate 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) (Kynurenineglyoxylate transaminase) (EC 2.6.1.63) (Kynurenineoxoglutarate transaminase III)	-9.390000	19.000000
Kat3 6 Alas2		-8.600000	54.000000
7 Pygl		-8.520000	27.000000
8 Sgpl1 Spl		-8.510000	37.000000
9 Agxt2	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)	-8.490000	16.000000
10 Shmt1 Shmt		-8.360000	25.000000
11 Aadat Kat2	Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial (KAT/AadAT) (2-aminoadipate aminotransferase) (2-aminoadipate transaminase) (EC 2.6.1.39) (Alpha-aminoadipate aminotransferase) (AadAT) (Kynurenine aminotransferase II) (Kynurenineoxoglutarate transaminase 2) (EC 2.6.1.7) (Kynurenineoxoglutarate transaminase II)	-8.090000	11.000000
12 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-aminotransferase IV) (Kynurenine-oxoglutarate transaminase 4) (Kynurenine-oxoglutarate transaminase IV) (Plasma membrane-associated fatty acid-binding protein) (FABPpm) (Transaminase A)	-7.940000	37.000000
13 Scly Scl		-7.850000	20.000000
14 Abat Gabat	4-aminobutyrate aminotransferase, mitochondrial (EC 2.6.1.19) ((S)-3-amino-2-methylpropionate transaminase) (EC 2.6.1.22) (GABA aminotransferase) (GABA-AT) (Gamma-amino-N-butyrate transaminase) (GABA transaminase) (GABA-T) (L-AIBAT)	-7.770000	28.000000
15 Sptlc3 Sptlc2l		-7.670000	28.000000
16 Sepsecs D5Ertd135e	O-phosphoseryl-tRNA(Sec) selenium transferase (EC 2.9.1.2) (Selenocysteine synthase) (Sec synthase) (Selenocysteinyl-tRNA(Sec) synthase) (Sep-tRNA:Sec-tRNA synthase) (SepSecS) (UGA examples suppressor tRNA-associated protein)	-7.570000	18.000000
17 Alas1	5-aminolevulinate synthase, nonspecific, mitochondrial (ALAS-H) (EC 2.3.1.37) (5-aminolevulinic acid synthase 1) (Delta-ALA synthase 1) (Delta-aminolevulinate synthase 1)	-7.430000	56.000000
18 Agxt Agxt1	Serinepyruvate aminotransferase, mitochondrial (SPT) (EC 2.6.1.51) (Alanineglyoxylate aminotransferase) (AGT) (EC 2.6.1.44) Kynurenineoxoglutarate transaminase 1 (EC 2.6.1.7) (Cysteine-S-conjugate beta-lyase) (EC 4.4.1.13) (Glutamine transaminase K) (GTK) (Glutaminephenylpyruvate transaminase) (EC 2.6.1.64) (Kynureninephenylpyruvate transaminase) (EC 2.6.1.7)	-7.300000	36.000000
Kat	2.6.1.64) (Kynurenine aminotransierase 1) (Kynurenine aminotransierase 1) (KA11) (Kynurenineoxogiutarate transaminase 1)	-7.240000	42.000000
20 Etnppl Agxt2l1		-7.180000	17.000000
21 Kynu 22 Got1l1		-7.100000 -6.940000	17.000000 14.000000
23 Sds		-6.930000	20.000000
24 Mocos		-6.910000	56.000000
25 Accs		-6.790000	12.000000
26 Shmt2 27 Cbs		-6.680000 -6.610000	15.000000 8.000000
28 Pygb		-6.570000	18.000000
29 Gldc	Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring))	-6.560000	21.000000
30 Got1	Aspartate aminotransferase, cytoplasmic (cAspAT) (EC 2.6.1.1) (EC 2.6.1.3) (Cysteine aminotransferase, cytoplasmic) (Cysteine transaminase, cytoplasmic) (cCAT) (Glutamate oxaloacetate transaminase 1) (Transaminase A)	-6.490000	10.000000
31 Csad Bcat2		-6.470000	10.000000
32 Bcatm Eca40	Branched-chain-amino-acid aminotransferase, mitochondrial (BCAT(m)) (EC 2.6.1.42)	-6.430000	11.000000
${f 33}^{ m Accsl}_{ m Gm1967}$	Probable inactive 1-aminocyclopropane-1-carboxylate synthase-like protein 2 (ACC synthase-like protein 2)	-6.390000	16.000000
34 Tat	Tyrosine aminotransferase (TAT) (EC 2.6.1.5) (L-tyrosine:2-oxoglutarate aminotransferase)	-6.340000	22.000000
35 Sdsl Sds		-6.300000	11.000000
36 Gcat Kbl Azin1 Oazi		-6.270000	24.000000
37 Azin1 Oazi Oazin		-6.210000	9.000000
38 Gpt Gpt1 39 Pygm	······································	-6.200000 -6.090000	16.000000 22.000000
40 Gad1 Gad67		-5.990000	17.000000
41 Tha1 Gly1		-5.980000	21.000000
42 Hdc		-5.770000	39.000000
43 Gad2 Gad65	Glutamate decarboxylase 2 (EC 4.1.1.15) (65 kDa glutamic acid decarboxylase) (GAD-65) (Glutamate decarboxylase 65 kDa isoform)	-5.720000	7.000000
44 Thnsl1 45 Oat		-5.280000 -5.230000	12.000000 23.000000
$46 \overset{\text{Bcat1}}{\text{Eca39}}$		-5.090000	12.000000
40 Eca39 47 Nfs1 Nifs		-5.060000	11.000000
		-3.060000 -4.920000	9.000000
49 Gpt2 Aat2		-4.840000	15.000000
50 Psat1 Psa Psat		-4.730000	10.000000
$f{51}_{ m Agxt2l2}^{ m Phykpl}$	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2)	-4.610000	18.000000
52 Ddc		-3.960000	13.000000
53 Srr 54 Sptlc2 Lcb2		-3.360000 -2.790000	6.000000 17.000000

54 Sptlc2 Lcb2 Serine palmitoyltransferase 2 (EC 2.3.1.50) (Long chain base biosynthesis protein 2) (LCB 2) (Long chain base biosynthesis protein 2a) (LCB2a) (Serine-palmitoyl-CoA transferase 2) (SPT 2) -2.790000

Threonine synthase-like 2 (TSH2) (mTSH2) (EC 4.2.3.-)

55 Thnsl2

17.000000

9.000000

-2.730000