Gene names	Protein names	Best Cluster Res (kcal/mol)	Num in Largest Cluster
1 PYGL	Glycogen phosphorylase, liver form (EC 2.4.1.1)	-8.370000	29.000000
2 AGXT AGT1 SPAT	Serinepyruvate aminotransferase (SPT) (EC 2.6.1.51) (Alanineglyoxylate aminotransferase) (AGT) (EC 2.6.1.44)	-8.070000	77.000000
3 SGPL1 KIAA1252	Sphingosine-1-phosphate lyase 1 (S1PL) (SP-lyase 1) (SPL 1) (hSPL) (EC 4.1.2.27) (Sphingosine-1-phosphate aldolase)	-7.970000	28.000000
4 PSAT1 PSA	Phosphoserine aminotransferase (EC 2.6.1.52) (Phosphohydroxythreonine aminotransferase) (PSAT)	-7.900000 7.540000	8.000000
5 ODC16 KYAT1 CCBL1	Ornithine decarboxylase (ODC) (EC 4.1.1.17) 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	-7.540000 -7.410000	22.000000 65.000000
	2.6.1.64) (Kynurenine aminotransferase 1) (Kynurenine aminotransferase I) (KATI) (Kynurenineoxoglutarate transaminase I)		
7 ALAS2 ALASE ASB	5-aminolevulinate synthase, erythroid-specific, mitochondrial (ALAS-E) (EC 2.3.1.37) (5-aminolevulinic acid synthase 2) (Delta-ALA synthase 2) (Delta-aminolevulinate synthase 2)	-7.390000	67.000000
8 KYAT3 CCBL2 KAT3	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) (Kynurenineglyoxylate transaminase) (EC 2.6.1.63) (Kynurenineoxoglutarate transaminase III)	-7.370000	75.000000
9 SHMT2	Serine hydroxymethyltransferase, mitochondrial (SHMT) (EC 2.1.2.1) (Glycine hydroxymethyltransferase) (Serine methylase) 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	-7.360000	42.000000
10 GOT2	4) (Kynurenine aminotransferase IV) (Kynurenineoxoglutarate transaminase 4) (Kynurenineoxoglutarate transaminase IV) (Plasma membrane-associated fatty acid-binding protein) (FABPpm) (Transaminase A)	-7.320000	32.000000
11 SDS SDH	L-serine dehydratase/L-threonine deaminase (SDH) (EC 4.3.1.17) (L-serine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19)	-7.140000	75.000000
12 GAD1 GAD GAD67	Glutamate decarboxylase 1 (EC 4.1.1.15) (67 kDa glutamic acid decarboxylase) (GAD-67) (Glutamate decarboxylase 67 kDa isoform)	-7.080000	29.000000
13 SRR 14 DDC AADC	Serine racemase (EC 5.1.1.18) (D-serine ammonia-lyase) (D-serine dehydratase) (EC 4.3.1.18) (L-serine ammonia-lyase) (L-serine dehydratase) (EC 4.3.1.17) Aromatic-L-amino-acid decarboxylase (AADC) (EC 4.1.1.28) (DOPA decarboxylase) (DDC)	-6.890000 -6.820000	16.000000 14.000000
15 GADL1	Acidic amino acid decarboxylase GADL1 (Aspartate 1-decarboxylase) (ADC) (HuADC) (EC 4.1.1.11) (Cysteine sulfinic acid decarboxylase) (CSADC) (HuCSADC) (EC 4.1.1.29) (Glutamate	-6.780000	27.000000
16 ACCS PHACS	decarboxylase-like protein 1) 1-aminocyclopropane-1-carboxylate synthase-like protein 1 (ACC synthase-like protein 1)	-6.660000	15.000000
ALAS1 ALAS3 17 ALASH OK/SW-	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)	-6.590000	29.000000
cl.121			
KIAAU520 LCb2			69.000000
19 BCAT2 BCATM BCT2 ECA40	Branched-chain-amino-acid aminotransferase, mitochondrial (BCAT(m)) (EC 2.6.1.42) (Placental protein 18) (PP18) Ornithine aminotransferase, mitochondrial (EC 2.6.1.13) (Ornithine delta-aminotransferase) (Ornithineoxo-acid aminotransferase) [Cleaved into: Ornithine aminotransferase, hepatic form;	-6.490000	89.000000
20 OAT	Ornithine aminotransferase, renal form] O-phosphoseryl-tRNA(Sec) selenium transferase (EC 2.9.1.2) (Liver-pancreas antigen) (LP) (SLA-p35) (SLA/LP autoantigen) (Selenocysteine synthase) (Sec synthase) (Sec synthase)	-0.470000	52.000000
21 SEPSECS TRNP48	tRNA(Sec) synthase) (Sep-tRNA:Sec-tRNA synthase) (SepSecS) (Soluble liver antigen) (SLA) (UGA suppressor tRNA-associated protein) (tRNA(Ser/Sec)-associated antigenic protein) (Kynurenine/alpha-aminoadipate aminotransferase, mitochondrial (KAT/AadAT) (2-aminoadipate aminotransferase) (2-aminoadipate transaminase) (EC 2.6.1.39) (Alpha-aminoadipate	-6.460000	33.000000
22 AADAT KAT2	aminotransferase) (AadAT) (Kynurenine aminotransferase II) (Kynurenineoxoglutarate transaminase 2) (EC 2.6.1.7) (Kynurenineoxoglutarate transaminase II)	-6.410000	51.000000
23 SHMT1 24 SCLY SCL	Serine hydroxymethyltransferase, cytosolic (SHMT) (EC 2.1.2.1) (Glycine hydroxymethyltransferase) (Serine methylase)	-6.290000	43.000000
24 OCL (1 OCL)	Solonogratoino kroco (hSCI) (EC A A 1 16)	6 260000	21 000000
PHYKPL	Selenocysteine lyase (hSCL) (EC 4.4.1.16)	-6.260000	21.000000
	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2)	-6.260000 -6.150000	21.000000 22.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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)	-6.150000 -6.130000	22.000000 71.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1)	-6.150000 -6.130000 -6.110000	22.000000 71.000000 16.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000	22.000000 71.000000 16.000000 35.000000 31.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 59.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.910000 -5.790000 -5.730000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 34.000000 16.000000 26.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17) (2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase) (EC 2.3.1.29) (Aminoacetone synthase) (Glycine acetyltransferase)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 59.000000 16.000000 26.000000 27.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.660000	22.000000 71.000000 16.000000 35.000000 31.000000 59.000000 34.000000 16.000000 26.000000 27.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MOC sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17) 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase) (EC 2.3.1.29) (Aminoacetone synthase) (Glycine acetyltransferase) Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 2b) (LCB2b) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 59.000000 34.000000 16.000000 26.000000 27.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17) 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase) (EC 2.3.1.29) (Aminoacetone synthase) (Glycine acetyltransferase) Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 2b) (LCB2b) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT 3) Cysteine sulfinic acid decarboxylase (EC 4.1.1.29) (Aspartate 1-decarboxylase) (EC 4.1.1.11) (Cysteine-sulfinate decarboxylase) (Sulfinoalanine decarboxylase) Antizyme inhibitor 1 (AZI) (AZI) (Ornithine decarboxylase antizyme inhibitor)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.580000 -5.580000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 34.000000 26.000000 27.000000 83.000000 20.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 4-aminobutyrate transaminase) (GABA transaminase) (GABA-T) (L-AIBAT) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase) 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17) 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase) (EC 2.3.1.29) (Aminoacetone synthase) (Glycine acetyltransferase) Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 2b) (LCB2b) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT 3) Cysteine sulfinic acid decarboxylase (EC 4.1.1.29) (Aspartate 1-decarboxylase) (EC 4.1.1.11) (Cysteine-sulfinate decarboxylase) (Sulfinoalanine decarboxylase) Antizyme inhibitor 1 (AZI) (AZII) (Ornithine decarboxylase antizyme inhibitor) Alanine aminotransferase 2, cytoplasmic (cAspAT) (EC 2.6.1.2) (Glytamate oxaloacetate transaminase 2, cytoplasmic) (CAT) (Glutamate oxaloacetate aminotransferase, cytoplasmic) (CAT) (Glutamate oxaloacetate transaminase) (CASPAT) (EC 2.6.1.1) (EC 2.6.1.1) (EC 2.6.1.3) (Cysteine aminotransferase, cytoplasmic) (CASPAT) (EC 2.6.1.1) (EC 2.6.1.1	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.580000 -5.560000 -5.440000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 59.000000 26.000000 27.000000 20.000000 8.000000 31.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2) 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) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17) 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase) (EC 2.3.1.29) (Aminoacetone synthase) (Glycine acetyltransferase) Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 2b) (LCB2b) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT 3) Cysteine sulfinic acid decarboxylase (EC 4.1.1.29) (Aspartate 1-decarboxylase) (EC 4.1.1.11) (Cysteine-sulfinate decarboxylase) (Sulfinoalanine decarboxylase) Antizyme inhibitor 1 (AZI) (AZII) (Ornithine decarboxylase antizyme inhibitor)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.580000 -5.580000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 34.000000 26.000000 27.000000 83.000000 20.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM	5-phosphohydroxy-L-lysine phospho-lysee (EC 4.2.3.134) (Alanine-glyoxylate aminotransferase 2-like 2) 4-aminobutyrate aminotransferase, mitochondrial (EC 2.6.1.19) ((S)-3-amino-2-methylpropionate transaminase) (EC 2.6.1.22) (GABA aminotransferase) (GABA-T) (L-AIBAT) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17) 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase) (EC 2.3.1.29) (Aminoacetone synthase) (Glycine acetyltransferase) Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 2b) (LCB2b) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT 3) Cysteine sulfinic acid decarboxylase (EC 4.1.1.29) (Aspartate 1-decarboxylase) (EC 4.1.1.11) (Cysteine-sulfinate decarboxylase) (Sulfinoalanine decarboxylase) Antizyme inhibitor 1 (AZI) (AZII) (Ornithine decarboxylase antizyme inhibitor) Alanine aminotransferase 1 (ALTI) (EC 2.6.1.2) (Glutamate pyruvate transaminase 1) (Glutamic-alanine transaminase, cytoplasmic) (cCAT) (Glutamate oxaloacetate transaminase) anticute 1-aminocyclopropane-1-carboxylate synthase-like protein 2 (ACC synthase-lik	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.560000 -5.560000 -5.440000 -5.350000 -5.250000 -5.170000	22.000000 71.000000 16.000000 35.000000 31.000000 59.000000 34.000000 26.000000 27.000000 20.000000 31.000000 47.000000 9.000000 24.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM 43 GPT2 AAT2 ALT2	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanine-glyoxylate aminotransferase 2-like 2) 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 transaminase) (GABA-T) (L-AlBAT) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.11) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS)	-6.150000 -6.130000 -6.130000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.560000 -5.560000 -5.350000 -5.250000 -5.170000 -5.080000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 34.000000 26.000000 27.000000 83.000000 20.000000 47.000000 9.000000 24.000000 14.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM 43 GPT2 AAT2	5-phosphohydroxy-L-lysine phospho-lysee (EC 4.2.3.134) (Alanine-glyoxylate aminotransferase 2-like 2) 4-aminobutyrate aminotransferase, mitochondrial (EC 2.6.1.19) ((S)-3-amino-2-methylpropionate transaminase) (EC 2.6.1.22) (GABA aminotransferase) (GABA-T) (L-AIBAT) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase/L-threonine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19) (Serine dehydratase 2) (SDH 2) (EC 4.3.1.17) 2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase) (EC 2.3.1.29) (Aminoacetone synthase) (Glycine acetyltransferase) Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 2b) (LCB2b) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT 3) Cysteine sulfinic acid decarboxylase (EC 4.1.1.29) (Aspartate 1-decarboxylase) (EC 4.1.1.11) (Cysteine-sulfinate decarboxylase) (Sulfinoalanine decarboxylase) Antizyme inhibitor 1 (AZI) (AZII) (Ornithine decarboxylase antizyme inhibitor) Alanine aminotransferase 1 (ALTI) (EC 2.6.1.2) (Glutamate pyruvate transaminase 1) (Glutamic-alanine transaminase, cytoplasmic) (cCAT) (Glutamate oxaloacetate transaminase) anticute 1-aminocyclopropane-1-carboxylate synthase-like protein 2 (ACC synthase-lik	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.560000 -5.560000 -5.440000 -5.350000 -5.250000 -5.170000	22.000000 71.000000 16.000000 35.000000 31.000000 59.000000 24.000000 24.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM 43 GPT2 AAT2 ALT2 44 THNSL1 45 HDC 46 TAT	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-T) (L-AIBAT) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase) 1-like protein 1) (Transaminase A-like protein 1) (Gycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MoC sulfurase) (MMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulflydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (D-serine deaminase) (L-sterine dehydratase) (L-serine dehydratase) (L-serine dehydratase) (L-serine dehydratase) (L-serine dehydratase) (L-serine dehydratase) (Glycine acetyltransferase) Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT 3) Cysteine sulfinic acid decarboxylase (EC 4.1.1.29) (Aspartate 1-decarboxylase) (EC 4.1.1.11) (Cysteine-sulfinate decarboxylase) (Sulfinoalanine decarboxylase) Antizyme inhibitor 1 (AZI) (AZI1) (Ornithine decarboxylase antizyme inhibitor) Alanine aminotransferase 1 (ALT1) (EC 2.6.1.2) (Glutamate pyruvate transaminase 1) (GPT 1) (Glutamic-alanine transaminase 1) (Glutamic-pyruvic transaminase 1) Probable inactive 1-aminocyclopropane1-carboxylate synthase-like protein 2 (ACC synthase-like protein 2) (Glycogen phosphorylase, muscle form (EC 2.4.1.1) (Myophosphorylase, muscle form (EC 2.6.1.2) (Glycogen phosphorylase, muscle form (EC 2.6.1.2) (Cysteine transaminase 2) (GPT 2) (Glutamic-alanine transamina	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.560000 -5.560000 -5.350000 -5.250000 -5.170000 -5.080000 -4.920000 -4.920000 -4.860000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 29.000000 27.000000 20.000000 47.000000 47.000000 24.000000 14.000000 36.000000 14.000000 14.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM 43 GPT2 AAT2 ALT2 44 THNSL1 45 HDC 46 TAT 47 GAD2 GAD65	5-phospholydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanine-glyoxylate aminotransferase 2-like 2) 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-T) (L-ABAT) Putative aspartate transaminase) (GABA-T) (L-ABAT) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurase (MCS) (MOS) (MOS) (MoCo sulfurase) (hMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfurtransferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cystiene-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystationine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (Le-serine deaminase) (L-serine dehydratase)-(L-serine dehydra	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.560000 -5.560000 -5.350000 -5.250000 -5.170000 -5.080000 -4.920000 -4.920000 -4.920000 -4.710000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 29.000000 27.000000 20.000000 31.000000 47.000000 47.000000 14.000000 14.000000 36.000000 14.000000 38.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM 43 GPT2 AAT2 ALT2 44 THNSL1 45 HDC 46 TAT 47 GAD2 GAD65 48 AGXT2 AGT2	5-phospholydroxy-L-lysine phospho-lysae (EC 4.2.3.134) (Alanine-glyoxylate aminotransferase 2-like 2) 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) Plattive aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molydenum cofactor sulfurase (MCS) (MOS) (MOS) (MOC osulfurase) (Image) (EC 2.8.1.9) (Molydenum cofactor sulfurtransferase) Gyetathionine agamma-lysae (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Eamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like (L-serine deaminase) (L-serine dehydratase-like (L-serine deaminase) (L-serine dehydratase-like (L-serine dehydratase-like (L-serine deaminase) (L-serine dehydratase-like (L-serine dehydratase-like)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.5660000 -5.560000 -5.350000 -5.350000 -5.250000 -5.170000 -5.080000 -4.920000 -4.920000 -4.860000 -4.600000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 59.000000 26.000000 27.000000 83.000000 20.000000 47.000000 47.000000 14.000000 14.000000 14.000000 14.000000 18.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM 43 GPT2 AAT2 ALT2 44 THNSL1 45 HDC 46 TAT 47 GAD2 GAD65 48 AGXT2 AGT2 49 ETNPPL AGXT2L1	5-phosphohydroxy-I-ysine phospho-lyase (EC 4.2.3.134) (Alanine-glyoxylate aminotransferase 2-like 2) 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-T) (LABAT) Putative aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molybdenum cofactor sulfurate (MCS) (MOS) (MCOs ulfurase) (IMCS) (EC 2.8.1.9) (Molybdenum cofactor sulfuratnsferase) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCATIC)) (EC 2.6.1.42) (Gyrice leavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) Serine dehydratase-like (L-serine deaminase) (L-serine dehydratase)/ (Labase-like (L-serine deaminase)) (Labase-like (L-serine demydratase) (MS) (MS) (MS) (MS) (MS) (MS) (MS) (MS	-6.150000 -6.130000 -6.130000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.560000 -5.560000 -5.440000 -5.350000 -5.250000 -5.170000 -5.080000 -4.920000 -4.920000 -4.920000 -4.920000 -4.710000 -4.600000 -4.480000	22.000000 71.000000 16.000000 35.000000 31.000000 16.000000 59.000000 26.000000 27.000000 83.000000 20.000000 47.000000 47.000000 14.000000 14.000000 14.000000 38.000000 14.000000 14.000000 14.000000 14.000000 14.000000 14.000000 14.000000 14.000000 14.000000 14.000000 14.000000
PHYKPL 25 AGXT2L2 PP9286 26 ABAT GABAT 27 GOT1L1 28 PYGB 29 MOCOS 30 CTH 31 BCAT1 BCT1 ECA39 32 GLDC GCSP 33 CBSL 34 SDSL 35 GCAT KBL SPTLC3 36 C20orf38 SPTLC2L 37 CSAD CSD 38 AZIN1 OAZI OAZIN 39 GPT AAT1 GPT1 40 GOT1 41 ACCSL 42 PYGM 43 GPT2 AAT2 ALT2 44 THNSL1 45 HDC 46 TAT 47 GAD2 GAD65 48 AGXT2 AGT2	5-phospholydroxy-L-lysine phospho-lysae (EC 4.2.3.134) (Alanine-glyoxylate aminotransferase 2-like 2) 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) Plattive aspartate aminotransferase, cytoplasmic 2 (EC 2.6.1.1) (Glutamate oxaloacetate transaminase 1-like protein 1) (Transaminase A-like protein 1) Glycogen phosphorylase, brain form (EC 2.4.1.1) Molydenum cofactor sulfurase (MCS) (MOS) (MOS) (MOC osulfurase) (Image) (EC 2.8.1.9) (Molydenum cofactor sulfurtransferase) Gyetathionine agamma-lysae (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Eamma-cystathionase) Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) Glycine dehydrogenase (decarboxylating), mitochondrial (EC 1.4.4.2) (Glycine cleavage system P protein) (Glycine decarboxylase) (Glycine dehydrogenase (aminomethyl-transferring)) Cystathionine beta-synthase-like (L-serine deaminase) (L-serine dehydratase-like (L-serine deaminase) (L-serine dehydratase-like (L-serine dehydratase-like (L-serine deaminase) (L-serine dehydratase-like (L-serine dehydratase-like)	-6.150000 -6.130000 -6.110000 -6.080000 -6.080000 -6.020000 -5.960000 -5.790000 -5.730000 -5.710000 -5.5660000 -5.560000 -5.350000 -5.350000 -5.250000 -5.170000 -5.080000 -4.920000 -4.920000 -4.860000 -4.600000	22.000000 71.000000 16.000000 35.000000 31.000000 59.000000 34.000000 26.000000 27.000000 83.000000 31.000000 47.000000 47.000000 14.000000 14.000000 14.000000 14.000000 18.000000

Kynureninase (EC 3.7.1.3) (L-kynurenine hydrolase)

Threonine synthase-like 2 (TSH2) (EC 4.2.3.-) (Secreted osteoclastogenic factor of activated T-cells) (SOFAT)

52 KYNU

53 THNSL2

28.000000

55.000000

-3.790000

-3.510000