| Gene names | Protein names | Largest Cluster | Num in Largest |
|---|--|--------------------------|--------------------------|
| 1 GOT1 | Aspartate aminotransferase, cytoplasmic (cAspAT) (EC 2.6.1.1) (EC 2.6.1.3) (Cysteine aminotransferase, cytoplasmic) (Cysteine transaminase, cytoplasmic) (cCAT) (Glutamate oxaloacetate | (kcal/mol) -17.620000 | Cluster 98.000000 |
| | Vansaminase 1) (Transaminase A) Kynuranina-ovoqlutarata transaminase 3 (EC 2.6.1.7) (Cystaina-S-conjugate beta-lyase 2) (EC 4.4.1.13) (Kynuranina aminotransferase 3) (Kynuranina aminotransf | | |
| 2 KYAT3 CCBL2 KAT3 | (Kynurenineglyoxylate transaminase) (EC 2.6.1.63) (Kynurenineoxoglutarate transaminase III) 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 | -17.290000 | 55.000000 |
| 3 KYAT1 CCBL1 | 2.6.1.64) (Kynurenine aminotransferase 1) (Kynurenine aminotransferase I) (KATI) (Kynurenineoxoglutarate transaminase I) | -16.330000 | 92.000000 |
| 4 AADAT KAT2 | oxoglutarate transaminase II) | -16.020000 | 60.000000 |
| 5 SEPSECS TRNP48 | 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) (Sep-tRNA:Sec-tRNA synthase) (SepSecS) (Soluble liver antigen) (SLA) (UGA suppressor tRNA-associated protein) (tRNA(Ser/Sec)-associated antigenic protein) | -15.640000 | 41.000000 |
| 6 BCAT2 BCATM BCT2 ECA40 | Branched-chain-amino-acid aminotransferase, mitochondrial (BCAT(m)) (EC 2.6.1.42) (Placental protein 18) (PP18) | -15.370000 | 82.000000 |
| 7 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) | -14.680000 | 57.000000 |
| 8 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) | -14.440000 | 93.000000 |
| 9 GOT2 | 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 IV) (Plasma membrane-associated fatty acid-binding protein) (FABPpm) (Transaminase A) | -14.120000 | 31.000000 |
| 10 SGPL1 KIAA1252 SPTLC3 | Sphingosine-1-phosphate lyase 1 (S1PL) (SP-lyase 1) (SPL 1) (hSPL) (EC 4.1.2.27) (Sphingosine-1-phosphate aldolase) | -14.010000 | 60.000000 |
| 11 C20orf38 SPTLC2L | 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) | 14.010000 | 50.000000 |
| GAD67 | | | 69.000000 |
| 13 PYGB AGXT AGT1 | | | 57.000000 |
| 14 AGXT AGT1 SPAT | Serinepyruvate aminotransferase (SPT) (EC 2.6.1.51) (Alanineglyoxylate aminotransferase) (AGT) (EC 2.6.1.44) | -13.350000 | 42.000000 |
| 15 BCAT1 BCT1 ECA39 | Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39) | -13.250000 | 93.000000 |
| 16 PYGL PHYKPL | Glycogen phosphorylase, liver form (EC 2.4.1.1) | -13.210000 | 75.000000 |
| 17 AGXT2L2 PP9286 | | | 41.000000 |
| 18 HDC 10 SPTLC2 | | | 94.000000 |
| 19 SPTLC2 KIAA0526 LCB2 20 CTH | 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) (Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase) | | 63.000000 66.000000 |
| 21 PYGM | | | 44.000000 |
| 22 SRR | | | 35.000000 |
| 23 SDSL 24 TAT | | | 27.000000 44.000000 |
| 25 GADL1 | Acidic amino acid decarbovylaco CADI 1 (Aspartato 1 decarbovylaco) (ADC) (HuADC) (EC 4.1.1.11) (Cyctoine culfinic acid decarbovylaco) (CSADC) (HuCSADC) (EC 4.1.1.20) (Clutamato | | 38.000000 |
| 26 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) | | 66.000000 |
| 27 CSAD CSD 28 GAD2 GAD65 | | | 20.000000 30.000000 |
| 29 ACCS PHACS | | | 63.000000 |
| 30 OAT | Ornithine aminotransferase, mitochondrial (EC 2.6.1.13) (Ornithine delta-aminotransferase) (Ornithine-oxo-acid aminotransferase) [Cleaved into: Ornithine aminotransferase, hepatic form; Ornithine aminotransferase, renal form] | -11.690000 | 46.000000 |
| 31 PSAT1 PSA | | -11.610000 | 18.000000 |
| 32 ODC1 33 SCLY SCL | | | 30.000000 55.000000 |
| 34 GPT2 AAT2 ALT2 | | | 43.000000 |
| 35 SHMT2 | | | 71.000000 |
| 36 GCAT KBL | | | 56.000000 |
| 37 THNSL2 ALAS1 ALAS3 38 ALASH OK/SW- | | | 49.000000 44.000000 |
| cl.121 39 DDC AADC | Aromatic-L-amino-acid decarboxylase (AADC) (EC 4.1.1.28) (DOPA decarboxylase) (DDC) | -10.540000 | |
| | | | 53.000000 |
| 41 NFS1 NIFS HUSSY-08 | | | 21.000000 |
| 42 GOT1L1 43 SHMT1 | | | 31.000000 66.000000 |
| 44 CBSL | Cystathionine beta-synthase-like protein (EC 4.2.1.22) (Beta-thionase) (Serine sulfhydrase) | -10.240000 | 74.000000 |
| 45 THNSL1 46 PLPBP PROSC | · | | 31.000000 32.000000 |
| 47 AGXT2 AGT2 | 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 | | 19.000000 |
| 48 MOCOS | aminotransferase) (D-AIDAT) | | 34.000000 |
| 49 ACCSL FTNPPI | | | 17.000000 |
| 50 ETNPPL AGXT2L1 | | | 35.000000 |
| 52 KYNU | Kynureninase (EC 3.7.1.3) (L-kynurenine hydrolase) | -8.150000 | 29.000000 34.000000 |
| 53 AZIN1 OAZI | Antizyme inhibitor 1 (AZI) (AZII) (Ornithine decarboxylase antizyme inhibitor) | -6 770000 | 35 000000 |

-6.770000 35.000000

53 AZIN1 OAZI OAZIN

Antizyme inhibitor 1 (AZI) (AZI1) (Ornithine decarboxylase antizyme inhibitor)