Gene names	Protein names	Largest Cluster Res (kcal/mol)	Num in Largest Cluster
<b>1</b> 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)	-8.920000	22
2 Phykpl Agxt2l2		-8.820000	15
	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)	-8.490000	43
4 Kyat3 Ccbl2 Kat3	Wingraping overly transaminase 3 (FC 2.6.1.7) (Cyctoine Sconingate heta-lyase 2) (FC 4.4.1.13) (Kymyranina aminotransferase 3) (Kymyranina aminotransferase III) (KATIII)	-8.490000	54
5 Shmt1 Shmt	Serine hydroxymethyltransferase, cytosolic (SHMT) (EC 2.1.2.1) (Glycine hydroxymethyltransferase) (Serine methylase)	-8.070000	58
		-7.540000	27
Kat	2.6.1.64) (Kynurenine ammotransierase 1) (Kynurenine ammotransierase i) (KA11) (Kynurenineoxogiutarate transammase i)	-7.420000 -7.270000	63 39
D5Ertd135e  g Etnppl Agxt2l1	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 e suppressor tRNA-associated protein)  Ethanolamine-phosphate phospho-lyase (EC 4.2.3.2) (Alanine-glyoxylate aminotransferase 2-like 1)	-7.260000	43
Agxt2l1  10 Odc1 Odc		-7.210000	15
11 Tat		-7.190000	52
$12^{\mathrm{Accsl}}_{\mathrm{Gm}1967}$	Probable inactive 1-aminocyclopropane-1-carboxylate synthase-like protein 2 (ACC synthase-like protein 2)	-7.130000	25
<b>13</b> Pygl		-7.080000	36
14 Cbs 15 Psat1 Psa Psat		-7.070000	23
Psat		-7.050000 7.040000	30
<b>16</b> Sgpl1 Spl <b>17</b> Pygm		-7.040000 -7.000000	46 37
18 Scly Scl	Selenocysteine lyase (mSCL) (EC 4.4.1.16)	-6.870000	49
<b>19</b> Hdc <b>20</b> Ddc		-6.850000 -6.830000	37 23
Bcat1			36
21 Eca39 22 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	-6.760000 -6.740000	23
23 Cth	aminotransferase) (D-AIBAT) Cystathionine gamma-lyase (EC 4.4.1.1) (Cysteine-protein sulfhydrase) (Gamma-cystathionase)	-6.730000	19
<b>24</b> Pygb	Glycogen phosphorylase, brain form (EC 2.4.1.1)	-6.710000	42
<b>25</b> Gadl1	Acidic amino acid decarboxylase GADL1 (Aspartate 1-decarboxylase) (ADC) (EC 4.1.1.11) (Cysteine sulfinic acid decarboxylase) (CSADC) (EC 4.1.1.29) (Glutamate decarboxylase-like protein 1)	-6.650000	19
<b>26</b> Sds		-6.550000	38
	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) (Kynurenineoxoglutarate transaminase 4) (Kynurenineoxoglutarate transaminase IV) (Plasma membrane-associated fatty acid-binding protein) (FABPpm) (Transaminase A)	-6.540000	48
<b>28</b> Sptlc3 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-palmityl-CoA transferase 3) (SPT 3)	-6.460000	69
<b>29</b> Gpt2 Aat2 <b>30</b> Csad		-6.420000	17 33
Bcat2 <b>31</b> Bcatm		-6.390000 -6.320000	33
Eca40 <b>32</b> Accs	1-aminocyclopropane-1-carboxylate synthase-like protein 1 (ACC synthase-like protein 1)	-6.300000	10
33 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)	-6.250000	55
<b>34</b> Gad1 Gad67	Glutamate decarboxylase 1 (EC 4.1.1.15) (67 kDa glutamic acid decarboxylase) (GAD-67) (Glutamate decarboxylase 67 kDa isoform)	-6.240000	55
•		-6.220000	35
<b>36</b> Pippp Prose <b>37</b> Alas2		-6.200000 -6.110000	12 38
<b>38</b> 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)	-6.100000	54
<b>39</b> Gcat Kbl <b>40</b> Srr		-5.930000 -5.880000	61 17
<b>41</b> Got1l1	Serine raceniase (LC 5.1.1.16) (D-serine annionia-lyase) (D-serine denyaratase) (LC 4.5.1.16) (L-serine annionia-lyase) (LC 4.5.1.17)	-5.830000	22
41 Gottii 42 Ldc1 Gm853		-5.830000	38
42 Gm853 43 Shmt2		-5.740000	33
<b>44</b> Thnsl1		-5.710000	42
<b>45</b> Gpt Gpt1	···	-5.700000	49
<b>46</b> Sdsl Sds <b>47</b> Mocos		-5.570000 -5.500000	28 16
<b>48</b> Gad2 Gad65		-5.460000	14
<b>49</b> Azin1 Oazi Oazin	Antizyme inhibitor 1 (AZI) (Ornithine decarboxylase antizyme inhibitor)	-5.100000	23
<b>50</b> Thnsl2		-4.880000	13
<b>51</b> Oat <b>52</b> Gldc		-4.860000 -4.660000	18
<b>52</b> Gide <b>53</b> Nfs1 Nifs		-4.860000 -4.300000	30 19
<b>54</b> Kynu	Kynureninase (EC 3.7.1.3) (L-kynurenine hydrolase)	-3.930000	35
<b>55</b> 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)	-2.400000	24