Gene names	Protein names	Best Cluster Res (kcal/mol)	Num in Largest Cluster
1 Sepsecs	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)	-8.390000	31
	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)	-7.890000	20
3 Phykpl Agxt2l2	5-phosphohydroxy-L-lysine phospho-lyase (EC 4.2.3.134) (Alanineglyoxylate aminotransferase 2-like 2)	-7.750000	24
4 Kyat3 Ccbl2 Kat3	2 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)	-7.200000	69
5 Psat1 Psa Psat		-7.040000	17
6 Gpt Gpt1		-6.860000	46
7 Gadl1	••	-6.730000	34
8 Cth		-6.700000	19
<ul><li>9 Got1l1</li><li>10 Gpt2 Aat2</li></ul>		-6.580000 -6.570000	17 46
11 Cbs	······································	-6.560000	28
12 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)	-6.540000	25
$13 \frac{\mathrm{Shmt1}}{\mathrm{Shmt}}$	Serine hydroxymethyltransferase, cytosolic (SHMT) (EC 2.1.2.1) (Glycine hydroxymethyltransferase) (Serine methylase)	-6.360000	78
14 Accs	1-aminocyclopropane-1-carboxylate synthase-like protein 1 (ACC synthase-like protein 1)	-6.260000	24
<b>15</b> Agxt Agxt1	Serinepyruvate aminotransferase, mitochondrial (SPT) (EC 2.6.1.51) (Alanineglyoxylate aminotransferase) (AGT) (EC 2.6.1.44)	-6.100000	32
<b>16</b> Odc1 Odc	Coming debudgets as like (FC 4.2.1.17) (Leaving descriptors) (Leaving debudgets as // through a debudgets as // (FDII) (FC 4.2.1.10) (FDII)	-6.100000	26
17 Sdsl Sds		-6.000000	16
	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) (Kynurenine aminotransferase 1) (Kynurenine aminotransferase I) (KATI) (Kynurenineoxoglutarate transaminase I)	-5.990000	90
<b>19</b> Etnppl Agxt2l1	Ethanolamine-phosphate phospho-lyase (EC 4.2.3.2) (Alanineglyoxylate aminotransferase 2-like 1)	-5.860000	18
<b>20</b> Scly Scl		-5.770000	14
<b>21</b> Tat		-5.650000	41
<b>22</b> 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)	-5.640000	66
<b>23</b> Ddc		-5.580000	17
<b>24</b> Sds	L-serine dehydratase/L-threonine deaminase (SDH) (EC 4.3.1.17) (L-serine deaminase) (L-threonine dehydratase) (TDH) (EC 4.3.1.19)	-5.530000	30
$25^{ ext{Accsl}}_{ ext{Gm}1967}$	Probable inactive 1-aminocyclopropane-1-carboxylate synthase-like protein 2 (ACC synthase-like protein 2)	-5.490000	21
<b>26</b> 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)	-5.480000	28
<b>27</b> Sgpl1 Spl			41
<b>28</b> Gcat Kbl <b>29</b> Csad		-5.370000	80
30 Hdc		-5.320000 -5.230000	30 57
$31^{\mathrm{Ldc1}}_{\mathrm{Gm}853}$	·	-5.160000	22
32 Gm853 32 Gad1 Gad67		-5.160000	29
Bcat2 33 Bcatm	Branched-chain-amino-acid aminotransferase, mitochondrial (BCAT(m)) (EC 2.6.1.42)	-5.130000	28
Eca40 <b>34</b> Kynu			41
<b>35</b> Pygl		-5.040000	23
$36 rac{ ext{Bcat1}}{ ext{Eca39}}$	Branched-chain-amino-acid aminotransferase, cytosolic (BCAT(c)) (EC 2.6.1.42) (Protein ECA39)	-4.980000	25
37 Tha1 Gly1		-4.890000	26
<b>38</b> Alas1		-4.860000	81
<b>39</b> Pygb		-4.770000	32
<b>40</b> Alas2	Aspartate aminetransferace, extendesmic (cAspAT) (EC 2.6.1.1) (EC 2.6.1.3) (Cyctaine aminetransferace, extendesmic) (cyctaine transaminase, extendesmic) (cCAT) (Clutamate exalescents)	-4.730000	75
<b>41</b> Got1	transaminase 1) (Transaminase A)	-4.710000	21
<b>42</b> Pygm		-4.700000	40
<b>43</b> Nfs1 Nifs <b>44</b> Shmt2		-4.590000 -4.400000	13 20
45 Azin1 Oazi Oazin			24
46 Plpbp Prosc 47 Gldc		-4.260000 -4.190000	14
<b>47</b> Glac <b>48</b> Thnsl1			38 58
49 Sptlc3 Sptlc2l		-3.950000	82
<b>50</b> Oat	Ornithine aminotransferase, mitochondrial (EC 2.6.1.13) (Ornithineoxo-acid aminotransferase)	-3.930000	26
<b>51</b> Gad2 Gad65	Glutamate decarboxylase 2 (EC 4.1.1.15) (65 kDa glutamic acid decarboxylase) (GAD-65) (Glutamate decarboxylase 65 kDa isoform)	-3.770000	14
Gados <b>52</b> Thnsl2	Threonine synthase-like 2 (TSH2) (mTSH2) (EC 4.2.3)	-3.550000	17
<b>53</b> Srr		-3.530000	18
<b>54</b> Mocos		-3.320000	21
55 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)	-2.760000	29