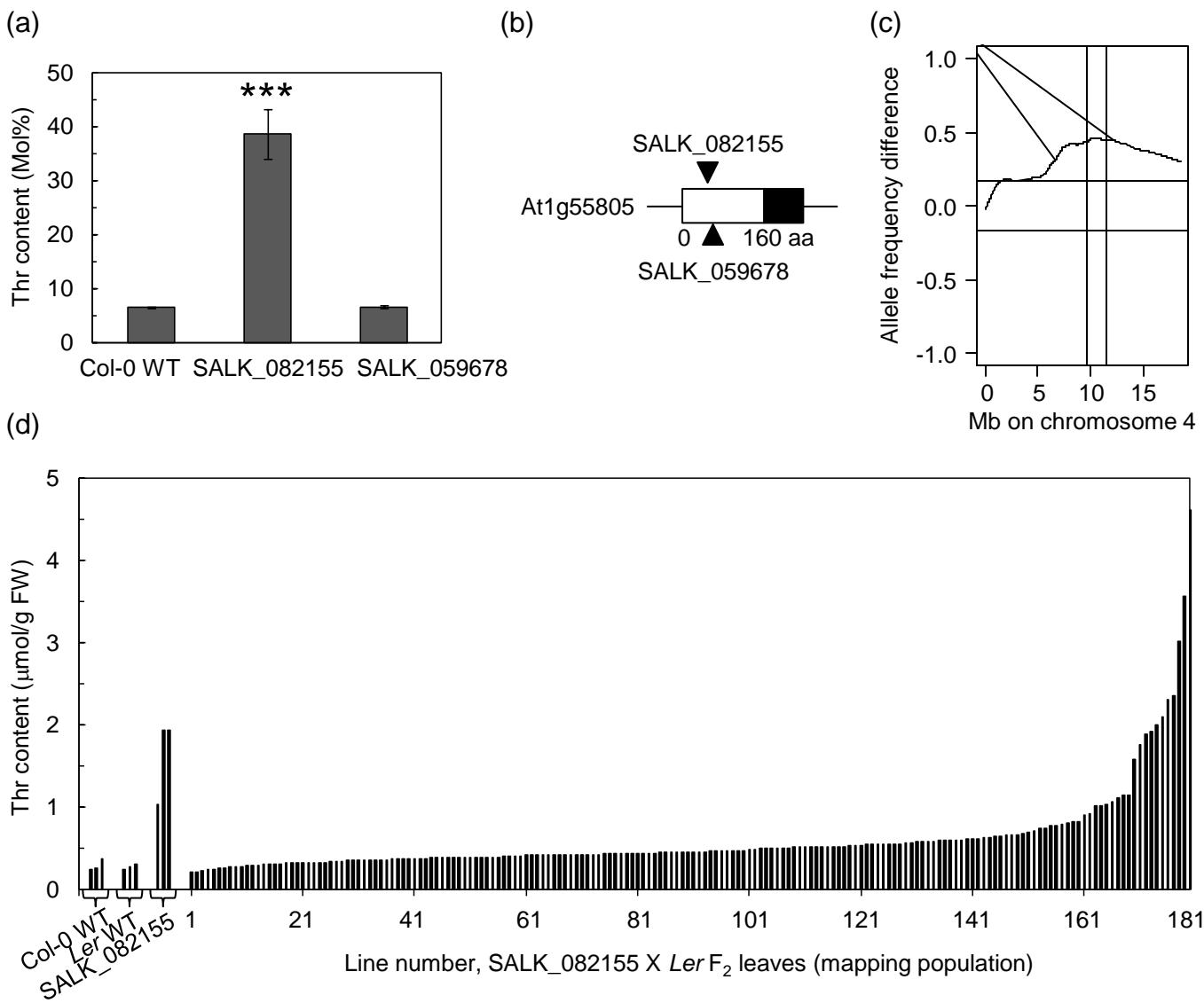


Supplemental Figure S1. Domains in full-length mono-functional AKs and dual-functional AK-HSDHs.

Brown boxes represent transit peptides; blue boxes represent AK domains; yellow boxes represent Lys-binding ACT domains; green boxes represent Thr-binding ACT domains; pink boxes represent HSDH domains. aa, amino acids. The numbers indicate the positions of first and last amino acids of the corresponding proteins and domains.



Supplemental Figure S2. The high Thr phenotype in SALK_082155 is caused by a second-site mutation.

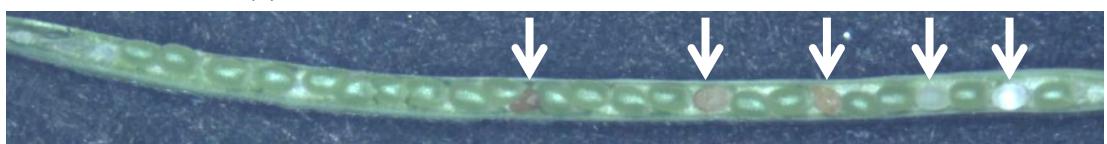
(a) Thr content (Mol%) in Col-0 wild type and the two mutants. The high Thr phenotype is observed in SALK_082155 but not in SALK_059678. Values are presented as mean \pm SE ($n = 4$). Asterisks indicate significant differences between the mutant and the Col-0 wild type (Student's *t* test; *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$).

(b) Schematic representation of the At1g55805 locus and two mutants: SALK_082155 and SALK_059678. The white rectangle represents a single exon; the black rectangle represents the 3' untranslatable region; solid lines represent intergenic regions; black triangles represent T-DNA insertions.

(c) Bulk segregant array mapping of the mutation in SALK_082155 that causes the Thr increase. The x-axis represents Arabidopsis chromosome 4. The y-axis represents allele frequency difference between mutant and wild-type pools. The allele frequency difference is positive for mutations in the Col-0 background and negative for mutations in the Ler background. SALK_082155 is in the Col-0 background. According to array mapping results, the second-site mutation is within a 1.75 Mb region of chromosome 4 (coordinates: 9727489 - 11477489). Targeted genomic DNA sequencing shows that the mutation is located to the AK-HSDH2 gene (At4g19710) in this region.

(d) Distribution of the Thr content in pooled F₂ leaves from 181 segregating F₂ lines derived from a cross between SALK_082155 and Ler wild type. Bars representing leaf Thr content of three Col-0 wild-type plants, three Ler wild-type plants, and three SALK_082155 mutant plants are indicated on the left end.

(a) *ak-hsdh2-1/ak-hsdh2-1 AK-HSDH1-1/ak-hsdh1-1*

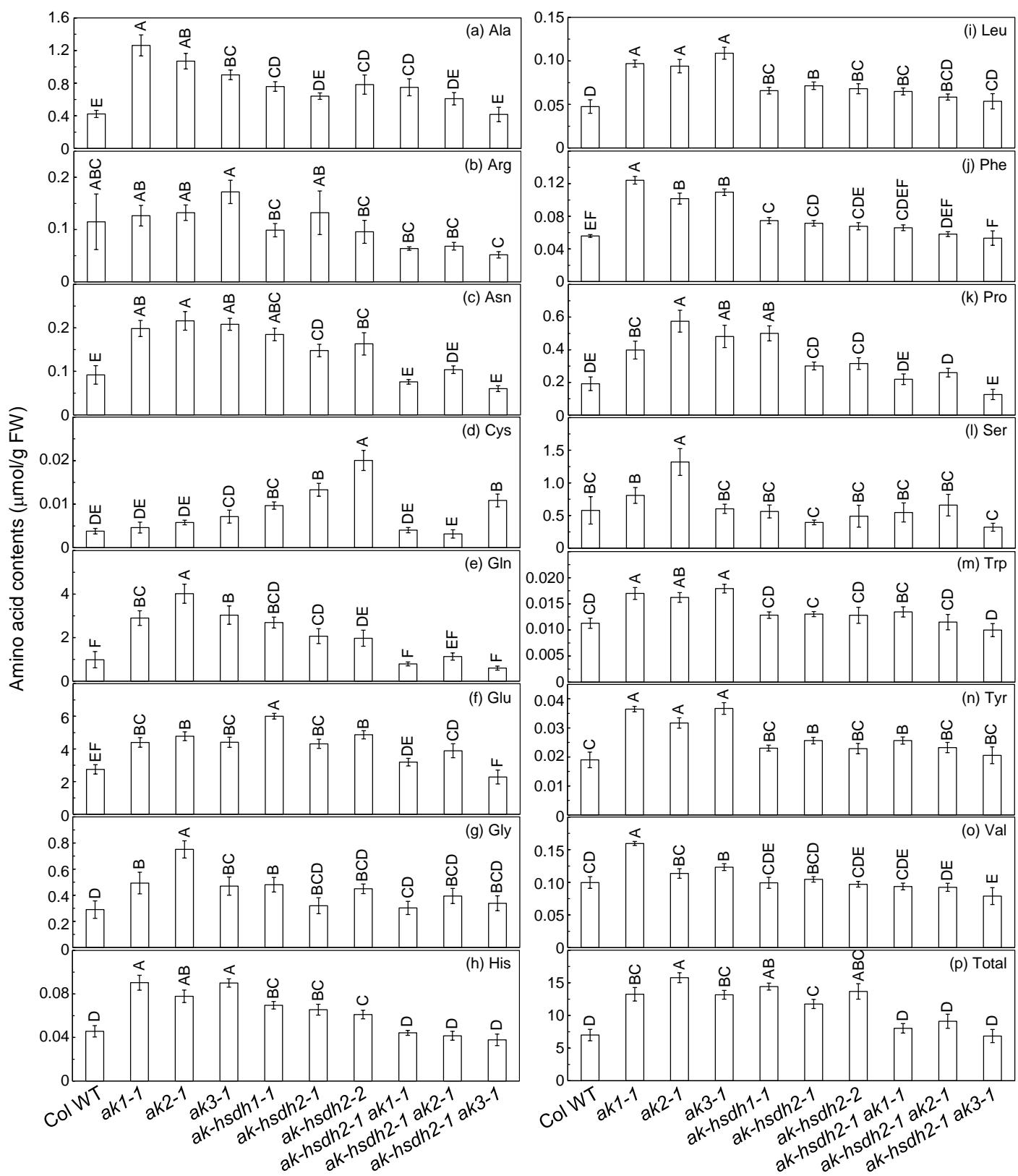


(b) Wild type in both *AK-HSDH2* and *AK-HSDH1* genes



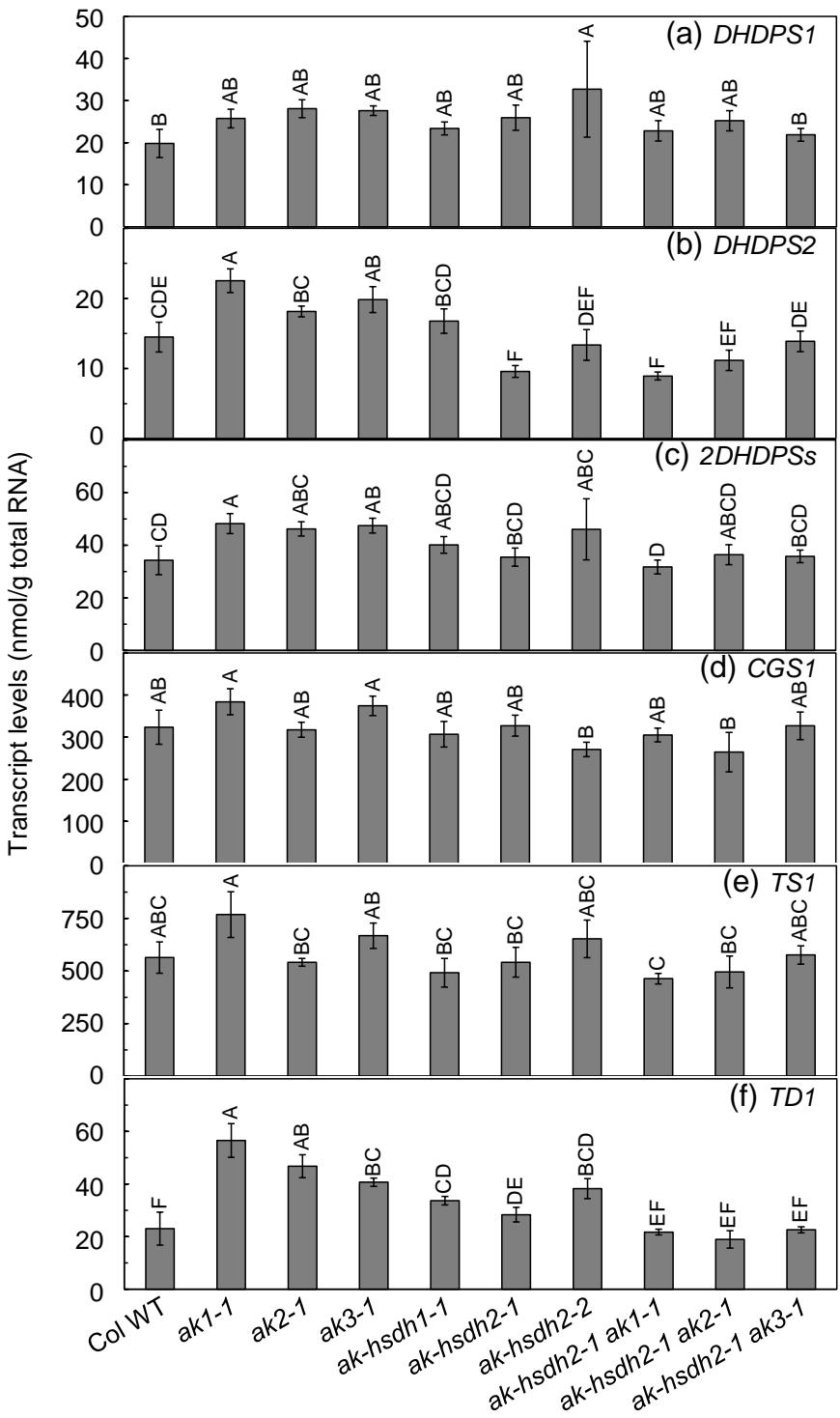
Supplemental Figure S3. Representative siliques from *ak-hsdh2-1/ak-hsdh2-1 AK-HSDH1-1/ak-hsdh1-1* and *AK-HSDH2-1/AK-HSDH2-1 AK-HSDH1-1/AK-HSDH1-1* plants. Arrows indicate aborted seeds.

- (a) A representative silique from an *ak-hsdh2-1/ak-hsdh2-1 AK-HSDH1-1/ak-hsdh1-1* plant.
- (b) A representative silique from an *AK-HSDH2-1/AK-HSDH2-1 AK-HSDH1-1/AK-HSDH1-1* plant.



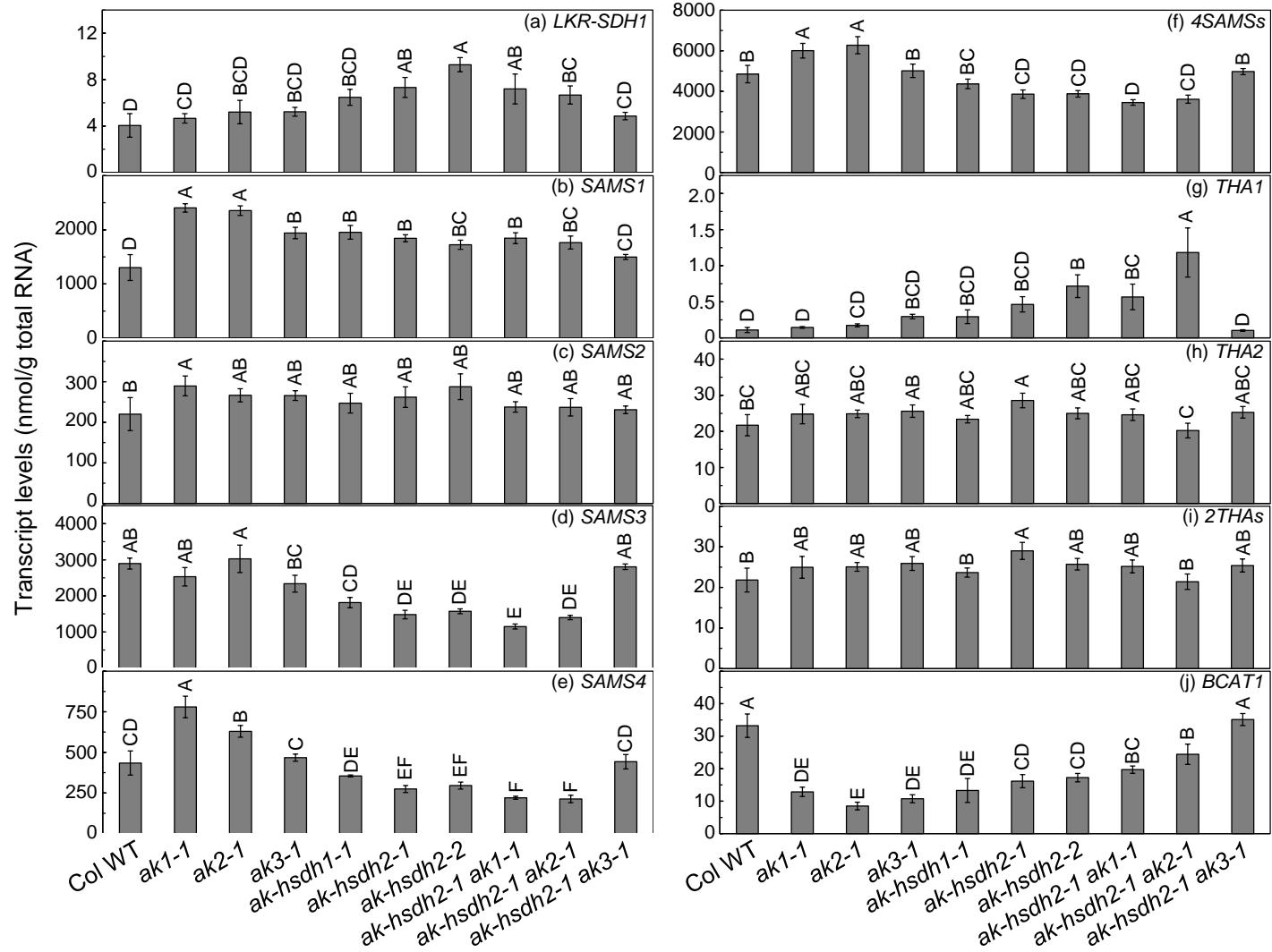
Supplemental Figure S4. The contents of other free amino acids in leaves of four-week-old plants.

(a) Ala; (b) Arg; (c) Asn; (d) Cys; (e) Gln; (f) Glu; (g) Gly; (h) His; (i) Leu; (j) Phe; (k) Pro; (l) Ser; (m) Trp; (n) Tyr; (o) Val; (p) total amount of 20 standard amino acids. Values are presented as mean \pm SE ($n = 5$). Values not connected by the same letter are significantly different (Student's t-test, $p < 0.05$). Values connected by the same letter are not significantly different.



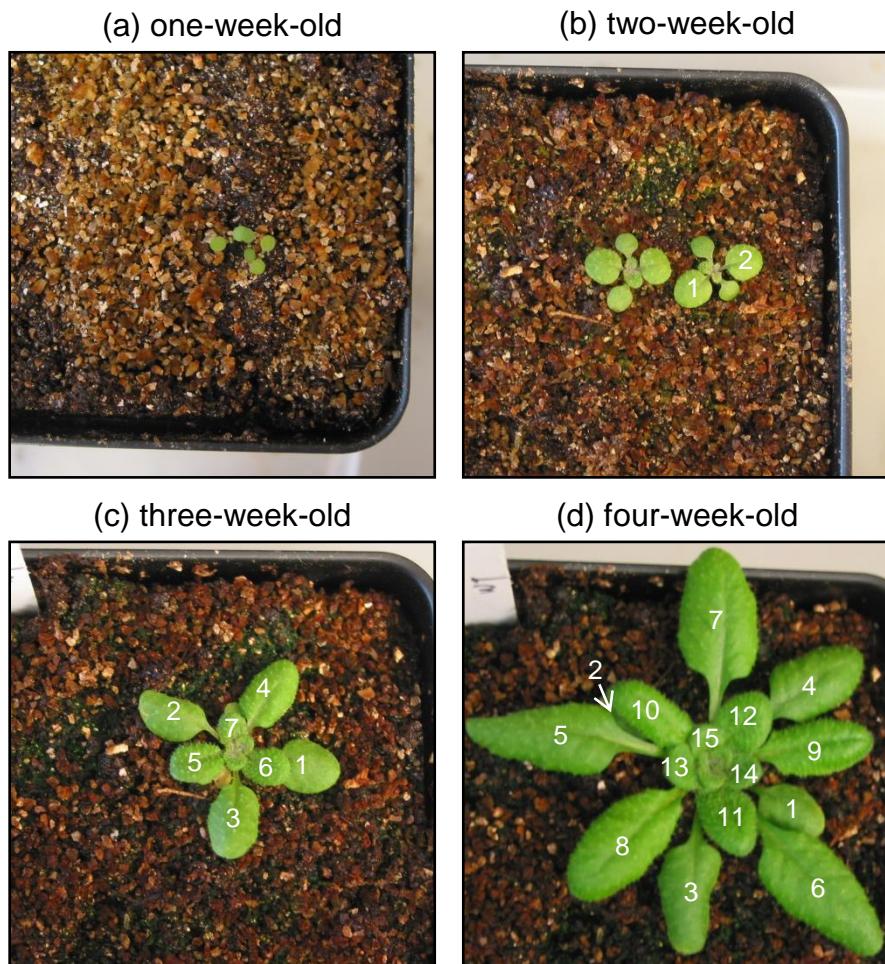
Supplemental Figure S5. Transcript levels of other genes involved in Asp-derived amino acid biosynthesis in leaves of four-week-old plants.

(a) *DHDPS1*; (b) *DHDPS2*; (c) 2*DHDPSs*; (d) *CGS1*; (e) *TS1*; (f) *TD1*. Values are presented as mean \pm SE ($n = 3 - 4$). Values not connected by the same letter are significantly different (Student's *t*-test, $p < 0.05$). Values connected by the same letter are not significantly different.



Supplemental Figure S6. Transcript levels of select genes involved in Asp-derived amino acid catabolism in leaves of four-week-old plants.

(a) *LKR-SDH1*; (b) *SAMS1*; (c) *SAMS2*; (d) *SAMS3*; (e) *SAMS4*; (f) *4SAMSS*; (g) *THA1*; (h) *THA2*; (i) *2THAs*; (j) *BCAT1*. Values are presented as mean \pm SE ($n = 3 - 4$). Values not connected by the same letter are significantly different (Student's *t*-test, $p < 0.05$). Values connected by the same letter are not significantly different.



Supplemental Figure S7. Leaf numbering of one-, two-, three-, and four-week old Col-0 wild-type *Arabidopsis* plants grown under a 12-h-light /12-h-dark photoperiod.

(a) Image of one-week-old plants. Plants at this stage only have cotyledon leaves. Due to the relatively small size, the entire above-ground portion was harvested and approximately 20 plants per replicate were used for leaf free amino acid assay.

(b) Image of two-week-old plants. The first two true leaves are labeled in the order of emergence. The first two true leaves were harvested and approximately 10 plants per replicate were used for free amino acid assay.

(c) Image of a three-week-old plant. The first seven true leaves are labeled in the order of emergence. Leaf numbers 2 – 4 were harvested and one plant per replicate was used for leaf free amino acid assay.

(d) Image of a four-week-old plant. The first 15 leaves are labeled in the order of emergence. Leaf number 9 was used for free and protein-bound amino acid assays. Leaf numbers 8 – 10 were used for quantitative RT-PCR and immunoblot analyses. Due to the large amount of tissues required for enzyme extraction, the entire above-ground portion was used for enzyme activity assays.

Supplemental Table S1. The contents of protein-bound amino acids in leaves of four-week-old plants

Data are presented as mean \pm SE ($n = 3 - 5$). Due to technical reasons, Cys, Met, and Trp were not determined. Values not connected by the same letter are significantly different (Student's *t*-test, $p < 0.05$). Values connected by the same letter are not significantly different.

Amino acid ($\mu\text{mol/g FW}$)	Col WT	<i>ak1-1</i>	<i>ak2-1</i>	<i>ak3-1</i>	<i>ak-hsdh1-1</i>	<i>ak-hsdh2-1</i>	<i>ak-hsdh2-2</i>	<i>ak-hsdh2-1</i>	<i>ak1-1</i>	<i>ak-hsdh2-1</i>	<i>ak2-1</i>	<i>ak-hsdh2-1</i>	<i>ak3-1</i>
Ala	12.5 \pm 3.9 ^{ABC}	15.5 \pm 5.4 ^A	11.2 \pm 0.9 ^{ABC}	6.4 \pm 0.4 ^C	7.0 \pm 1.9 ^C	7.2 \pm 1.1 ^{BC}	15.1 \pm 1.0 ^{AB}	10.7 \pm 1.8 ^{ABC}	11.8 \pm 2.5 ^{ABC}	15.9 \pm 4.0 ^A			
Arg	4.9 \pm 0.2 ^{AB}	4.7 \pm 0.3 ^{AB}	4.4 \pm 0.6 ^B	4.4 \pm 0.3 ^B	5.1 \pm 0.4 ^{AB}	4.8 \pm 0.5 ^{AB}	5.0 \pm 0.5 ^{AB}	5.6 \pm 0.2 ^{AB}	5.8 \pm 0.2 ^{AB}	5.4 \pm 0.5 ^{AB}			
Asn+Asp ^a	5.9 \pm 1.7 ^{ABC}	6.8 \pm 1.7 ^{AB}	3.9 \pm 0.6 ^{BCD}	2.9 \pm 0.2 ^D	3.0 \pm 0.4 ^D	3.3 \pm 0.5 ^{CD}	5.8 \pm 0.8 ^{ABCD}	4.0 \pm 0.3 ^{BCD}	4.7 \pm 0.2 ^{ABCD}	7.1 \pm 1.6 ^A			
Gln+Glu ^b	28.7 \pm 7.9 ^{ABC}	32.8 \pm 5.2 ^{AB}	23.2 \pm 2.9 ^{BCDE}	14.4 \pm 1.6 ^E	15.5 \pm 4.5 ^{DE}	18.3 \pm 3.0 ^{CDE}	31.2 \pm 2.8 ^{ABC}	27.8 \pm 3.0 ^{ABCD}	34.5 \pm 6.8 ^{AB}	36.3 \pm 5.9 ^A			
Gly	7.9 \pm 2.4 ^{AB}	8.7 \pm 1.9 ^{AB}	6.9 \pm 0.4 ^{AB}	5.5 \pm 0.6 ^B	4.9 \pm 1.1 ^B	4.7 \pm 0.8 ^B	9.9 \pm 1.1 ^A	6.9 \pm 0.9 ^{AB}	6.6 \pm 0.5 ^{AB}	10.1 \pm 1.9 ^A			
His	4.5 \pm 0.1 ^A	4.6 \pm 0.3 ^A	4.3 \pm 0.4 ^A	4.3 \pm 0.3 ^A	4.8 \pm 0.1 ^A	4.5 \pm 0.4 ^A	4.4 \pm 0.2 ^A	4.6 \pm 0.1 ^A	4.6 \pm 0.3 ^A	4.7 \pm 0.2 ^A			
Ile	11.5 \pm 0.2 ^A	11.2 \pm 0.9 ^A	10.9 \pm 0.7 ^A	11.3 \pm 0.4 ^A	11.6 \pm 0.5 ^A	11.2 \pm 0.7 ^A	11.6 \pm 0.6 ^A	11.8 \pm 0.4 ^A	11.9 \pm 0.5 ^A	12.0 \pm 0.5 ^A			
Leu	18.8 \pm 0.6 ^A	19.3 \pm 0.8 ^A	18.2 \pm 1.2 ^A	18.3 \pm 0.9 ^A	19.0 \pm 0.7 ^A	17.7 \pm 1.0 ^A	18.8 \pm 0.6 ^A	18.9 \pm 0.5 ^A	18.1 \pm 0.0 ^A	18.8 \pm 0.5 ^A			
Lys	13.2 \pm 0.3 ^A	13.8 \pm 0.4 ^A	12.4 \pm 1.0 ^A	13.0 \pm 1.1 ^A	13.7 \pm 0.7 ^A	13.1 \pm 0.8 ^A	13.1 \pm 0.6 ^A	13.7 \pm 0.4 ^A	14.4 \pm 0.8 ^A	13.4 \pm 0.7 ^A			
Phe	9.6 \pm 0.1 ^A	9.5 \pm 0.5 ^A	9.3 \pm 0.9 ^A	9.1 \pm 0.5 ^A	9.9 \pm 0.4 ^A	9.2 \pm 0.5 ^A	9.1 \pm 0.3 ^A	9.4 \pm 0.3 ^A	10.1 \pm 0.4 ^A	9.7 \pm 0.2 ^A			
Pro	10.9 \pm 1.7 ^{AB}	12.0 \pm 1.9 ^{AB}	10.2 \pm 0.5 ^{AB}	8.4 \pm 0.5 ^B	8.5 \pm 1.1 ^B	8.8 \pm 0.4 ^B	12.9 \pm 0.6 ^A	10.1 \pm 0.7 ^{AB}	12.1 \pm 2.3 ^{AB}	13.0 \pm 1.8 ^A			
Ser	4.6 \pm 1.6 ^{ABC}	5.6 \pm 2.1 ^{AB}	2.7 \pm 0.4 ^{BC}	2.1 \pm 0.2 ^C	2.4 \pm 0.5 ^C	2.6 \pm 0.3 ^{BC}	4.6 \pm 0.7 ^{ABC}	3.1 \pm 0.3 ^{BC}	3.8 \pm 0.3 ^{ABC}	6.0 \pm 1.5 ^A			
Thr	4.9 \pm 1.4 ^{AB}	6.6 \pm 0.75 ^A	4.5 \pm 0.6 ^{AB}	3.4 \pm 0.2 ^B	3.1 \pm 0.9 ^B	3.0 \pm 0.9 ^B	5.6 \pm 1.4 ^{AB}	4.7 \pm 0.9 ^{AB}	5.6 \pm 1.1 ^{AB}	5.8 \pm 1.6 ^{AB}			
Tyr	0.88 \pm 0.09 ^A	1.1 \pm 0.2 ^A	0.79 \pm 0.17 ^A	0.78 \pm 0.09 ^A	0.89 \pm 0.15 ^A	0.81 \pm 0.08 ^A	0.88 \pm 0.05 ^A	0.81 \pm 0.09 ^A	0.90 \pm 0.04 ^A	1.1 \pm 0.1 ^A			
Val	15.6 \pm 1.1 ^{AB}	15.7 \pm 0.6 ^{AB}	13.9 \pm 1.2 ^B	15.5 \pm 0.5 ^{AB}	15.7 \pm 0.8 ^{AB}	15.0 \pm 1.1 ^{AB}	14.9 \pm 0.2 ^{AB}	16.1 \pm 1.0 ^{AB}	15.1 \pm 0.7 ^{AB}	17.1 \pm 0.7 ^A			
Asn+Asp+Ile+	35.8 \pm 3.4 ^{ABC}	38.8 \pm 1.8 ^{AB}	32.0 \pm 2.7 ^{ABC}	30.8 \pm 1.6 ^C	31.6 \pm 2.0 ^{BC}	30.9 \pm 2.7 ^C	36.3 \pm 1.2 ^{ABC}	34.4 \pm 1.1 ^{ABC}	36.9 \pm 1.2 ^{ABC}	38.6 \pm 2.9 ^{AB}			
Thr+Lys ^c													
Total ^d	154 \pm 22 ^{ABCD}	168 \pm 17 ^{AB}	137 \pm 10 ^{BCD}	120 \pm 5 ^D	125 \pm 11 ^{CD}	125 \pm 11 ^{CD}	163 \pm 6 ^{ABC}	148 \pm 6 ^{ABCD}	160 \pm 12 ^{ABCD}	176 \pm 19 ^A			

^aAsn and Asp are reported together because Asn was converted to Asp during acid hydrolysis.

^bGln and Glu are reported together because Gln was converted to Glu during acid hydrolysis.

^cAsn+Asp+Ile+Thr+Lys stands for the total amount of protein-bound Asn, Asp, Ile, Thr, and Lys.

^dTotal amino acids refer to the total amount of 17 amino acids in this table. Cys, Met, and Trp are not included because they are either destroyed (Cys and Trp) or partially oxidized (Met) during acid hydrolysis.

Supplemental Table S2. Leaf free amino acid contents in one-week-old plants

Data are presented as mean \pm SE ($n = 5$). Values not connected by the same letter are significantly different (Student's *t*-test, $p < 0.05$). Values connected by the same letter are not significantly different.

Amino acid ($\mu\text{mol/g}$ FW)	Col WT	ak1-1	ak2-1	ak3-1	ak-hsdh1-1	ak-hsdh2-1	ak-hsdh2-2	ak-hsdh2-1 ak1-1	ak-hsdh2-1 ak2-1	ak-hsdh2-1 ak3-1
Ala	1.10 \pm 0.06 ^B	1.42 \pm 0.07 ^A	1.04 \pm 0.11 ^{BC}	1.06 \pm 0.08 ^{BC}	0.79 \pm 0.12 ^D	0.84 \pm 0.08 ^{CD}	0.68 \pm 0.06 ^D	1.04 \pm 0.04 ^{BC}	0.70 \pm 0.09 ^D	0.77 \pm 0.03 ^D
Arg	0.033 \pm 0.000 ^{AB}	0.034 \pm 0.003 ^{AB}	0.033 \pm 0.002 ^{AB}	0.034 \pm 0.003 ^{AB}	0.034 \pm 0.001 ^{AB}	0.032 \pm 0.001 ^{AB}	0.037 \pm 0.001 ^A	0.031 \pm 0.001 ^B	0.035 \pm 0.001 ^{AB}	0.034 \pm 0.002 ^{AB}
Asn	0.19 \pm 0.01 ^A	0.16 \pm 0.00 ^B	0.14 \pm 0.01 ^{BC}	0.15 \pm 0.01 ^{BC}	0.11 \pm 0.01 ^{DE}	0.13 \pm 0.01 ^{CD}	0.10 \pm 0.01 ^E	0.15 \pm 0.01 ^{BC}	0.12 \pm 0.01 ^{DE}	0.15 \pm 0.00 ^{BC}
Asp	1.71 \pm 0.08 ^{ABC}	1.64 \pm 0.07 ^{BCD}	1.51 \pm 0.06 ^{DE}	1.78 \pm 0.09 ^{AB}	1.44 \pm 0.04 ^{EF}	1.84 \pm 0.09 ^A	1.50 \pm 0.05 ^{DE}	1.80 \pm 0.04 ^{AB}	1.30 \pm 0.05 ^F	1.57 \pm 0.04 ^{CDE}
Cys	0.007 \pm 0.001 ^{BCD}	0.008 \pm 0.000 ^B	0.003 \pm 0.000 ^D	0.007 \pm 0.001 ^{BC}	0.006 \pm 0.002 ^{BCD}	0.013 \pm 0.004 ^A	0.004 \pm 0.001 ^{BCD}	0.005 \pm 0.001 ^{BCD}	0.003 \pm 0.001 ^{CD}	0.008 \pm 0.001 ^{BC}
Gln	1.89 \pm 0.12 ^A	1.61 \pm 0.09 ^B	1.10 \pm 0.09 ^{CD}	1.16 \pm 0.04 ^{CD}	0.77 \pm 0.02 ^{EF}	1.00 \pm 0.08 ^{DE}	0.65 \pm 0.04 ^F	1.92 \pm 0.08 ^A	1.00 \pm 0.14 ^{DE}	1.32 \pm 0.08 ^C
Glu	6.68 \pm 0.36 ^A	5.45 \pm 0.26 ^B	4.03 \pm 0.31 ^C	5.41 \pm 0.37 ^B	3.89 \pm 0.21 ^C	5.65 \pm 0.23 ^B	4.22 \pm 0.35 ^C	5.70 \pm 0.24 ^B	3.94 \pm 0.26 ^C	5.99 \pm 0.33 ^{AB}
Gly	0.68 \pm 0.07 ^A	0.32 \pm 0.03 ^C	0.16 \pm 0.01 ^D	0.24 \pm 0.02 ^{CD}	0.16 \pm 0.02 ^D	0.22 \pm 0.02 ^D	0.15 \pm 0.03 ^D	0.47 \pm 0.02 ^B	0.23 \pm 0.03 ^{CD}	0.48 \pm 0.03 ^B
His	0.047 \pm 0.002 ^{BCD}	0.059 \pm 0.004 ^A	0.053 \pm 0.004 ^B	0.042 \pm 0.001 ^{DE}	0.037 \pm 0.001 ^{EF}	0.033 \pm 0.001 ^F	0.035 \pm 0.001 ^{EF}	0.049 \pm 0.001 ^{BC}	0.043 \pm 0.004 ^{CD}	0.040 \pm 0.002 ^{DE}
Ile	0.024 \pm 0.002 ^E	0.027 \pm 0.002 ^{BCDE}	0.025 \pm 0.002 ^{DE}	0.031 \pm 0.003 ^{BC}	0.029 \pm 0.001 ^{BCD}	0.031 \pm 0.001 ^B	0.037 \pm 0.001 ^A	0.024 \pm 0.000 ^E	0.024 \pm 0.002 ^{DE}	0.026 \pm 0.001 ^{CDE}
Leu	0.031 \pm 0.001 ^D	0.042 \pm 0.003 ^{AB}	0.043 \pm 0.004 ^{AB}	0.046 \pm 0.005 ^A	0.038 \pm 0.001 ^{BC}	0.038 \pm 0.002 ^{BC}	0.042 \pm 0.001 ^{AB}	0.032 \pm 0.001 ^{CD}	0.032 \pm 0.001 ^{CD}	0.030 \pm 0.001 ^D
Lys	0.056 \pm 0.002 ^D	0.070 \pm 0.006 ^{ABC}	0.064 \pm 0.005 ^{BCD}	0.076 \pm 0.007 ^A	0.073 \pm 0.002 ^{AB}	0.069 \pm 0.003 ^{ABC}	0.075 \pm 0.002 ^A	0.057 \pm 0.002 ^D	0.060 \pm 0.005 ^{CD}	0.061 \pm 0.002 ^{CD}
Met	0.037 \pm 0.002 ^{AB}	0.032 \pm 0.001 ^{BCD}	0.033 \pm 0.002 ^{BCD}	0.033 \pm 0.002 ^{BC}	0.025 \pm 0.001 ^{EF}	0.027 \pm 0.001 ^{DEF}	0.024 \pm 0.001 ^F	0.039 \pm 0.001 ^A	0.034 \pm 0.004 ^{ABC}	0.030 \pm 0.002 ^{CDE}
Phe	0.048 \pm 0.001 ^D	0.067 \pm 0.005 ^A	0.064 \pm 0.003 ^{AB}	0.064 \pm 0.004 ^{AB}	0.062 \pm 0.000 ^{ABC}	0.058 \pm 0.001 ^{BC}	0.057 \pm 0.001 ^C	0.049 \pm 0.001 ^D	0.048 \pm 0.001 ^D	0.044 \pm 0.002 ^D
Pro	0.28 \pm 0.02 ^{BC}	0.34 \pm 0.02 ^{AB}	0.23 \pm 0.02 ^{CD}	0.36 \pm 0.03 ^A	0.21 \pm 0.02 ^D	0.33 \pm 0.02 ^{AB}	0.20 \pm 0.03 ^D	0.34 \pm 0.02 ^{AB}	0.18 \pm 0.02 ^D	0.20 \pm 0.01 ^D
Ser	0.97 \pm 0.09 ^A	0.72 \pm 0.03 ^B	0.29 \pm 0.03 ^{DE}	0.34 \pm 0.01 ^{DE}	0.21 \pm 0.01 ^E	0.42 \pm 0.06 ^{CD}	0.27 \pm 0.03 ^E	1.01 \pm 0.08 ^A	0.49 \pm 0.04 ^C	0.78 \pm 0.05 ^B
Thr	0.67 \pm 0.13 ^{BC}	0.47 \pm 0.04 ^{CD}	0.21 \pm 0.02 ^E	0.70 \pm 0.07 ^B	0.59 \pm 0.09 ^{BCD}	1.01 \pm 0.04 ^A	0.66 \pm 0.09 ^{BC}	0.45 \pm 0.02 ^D	0.23 \pm 0.08 ^E	0.70 \pm 0.06 ^B
Trp	0.009 \pm 0.000 ^A	0.010 \pm 0.001 ^A	0.009 \pm 0.001 ^A	0.010 \pm 0.001 ^A	0.009 \pm 0.000 ^A	0.009 \pm 0.000 ^A	0.008 \pm 0.000 ^A	0.009 \pm 0.000 ^A	0.008 \pm 0.000 ^A	0.008 \pm 0.000 ^A
Tyr	0.012 \pm 0.000 ^D	0.016 \pm 0.001 ^A	0.016 \pm 0.001 ^{AB}	0.015 \pm 0.001 ^{ABC}	0.013 \pm 0.000 ^{BCD}	0.014 \pm 0.001 ^{ABCD}	0.016 \pm 0.001 ^A	0.012 \pm 0.000 ^D	0.014 \pm 0.001 ^{ABCD}	0.013 \pm 0.000 ^{CD}
Val	0.109 \pm 0.002 ^{BCD}	0.131 \pm 0.011 ^A	0.117 \pm 0.008 ^{AB}	0.117 \pm 0.008 ^{AB}	0.095 \pm 0.002 ^D	0.100 \pm 0.002 ^{CD}	0.106 \pm 0.004 ^{BCD}	0.112 \pm 0.003 ^{BC}	0.104 \pm 0.002 ^{BCD}	0.105 \pm 0.003 ^{BCD}
Asp-derived ^a	0.79 \pm 0.14 ^{BC}	0.60 \pm 0.04 ^{CD}	0.33 \pm 0.02 ^E	0.84 \pm 0.07 ^B	0.71 \pm 0.09 ^{BCD}	1.13 \pm 0.04 ^A	0.79 \pm 0.09 ^{BC}	0.57 \pm 0.02 ^D	0.34 \pm 0.09 ^E	0.82 \pm 0.06 ^B
Total ^b	14.6 \pm 0.7 ^A	12.6 \pm 0.5 ^{BC}	9.2 \pm 0.6 ^D	11.7 \pm 0.7 ^C	8.3 \pm 0.4 ^D	11.5 \pm 0.4 ^C	8.9 \pm 0.6 ^D	13.3 \pm 0.4 ^{AB}	8.6 \pm 0.6 ^D	12.4 \pm 0.5 ^{BC}

^aAsp-derived amino acids refer to the total amount of Ile, Lys, Met, and Thr.

^bTotal amino acids refer to the total amount of 20 standard amino acids in this table.

Supplemental Table S3. Leaf free amino acid contents in two-week-old plants

Data are presented as mean \pm SE ($n = 5$). Values not connected by the same letter are significantly different (Student's *t*-test, $p < 0.05$). Values connected by the same letter are not significantly different.

Amino acid ($\mu\text{mol/g}$ FW) ^a	Col WT	ak1-1	ak2-1	ak3-1	ak-hsdh1-1	ak-hsdh2-1	ak-hsdh2-2	ak-hsdh2-1	ak1-1	ak-hsdh2-1	ak2-1	ak-hsdh2-1	ak3-1
Ala	1.74 \pm 0.12 ^A	1.58 \pm 0.08 ^{AB}	0.92 \pm 0.16 ^E	1.31 \pm 0.22 ^{BCD}	1.41 \pm 0.10 ^{ABC}	1.01 \pm 0.18 ^{DE}	1.25 \pm 0.07 ^{BCDE}	1.35 \pm 0.12 ^{ABCD}	1.11 \pm 0.15 ^{CDE}	1.34 \pm 0.06 ^{BCD}			
Arg	0.109 \pm 0.014 ^{AB}	0.075 \pm 0.006 ^{CD}	0.071 \pm 0.007 ^{CD}	0.084 \pm 0.014 ^{BCD}	0.107 \pm 0.002 ^{AB}	0.065 \pm 0.006 ^D	0.084 \pm 0.007 ^{BCD}	0.111 \pm 0.009 ^{AB}	0.096 \pm 0.013 ^{ABC}	0.126 \pm 0.019 ^A			
Asn	0.113 \pm 0.019 ^{AB}	0.118 \pm 0.014 ^{AB}	0.114 \pm 0.012 ^{AB}	0.110 \pm 0.005 ^{ABC}	0.127 \pm 0.007 ^A	0.091 \pm 0.008 ^{BCD}	0.078 \pm 0.010 ^{CD}	0.090 \pm 0.012 ^{BCD}	0.076 \pm 0.012 ^D	0.114 \pm 0.014 ^{AB}			
Asp	0.80 \pm 0.06 ^{BCD}	0.95 \pm 0.07 ^A	0.96 \pm 0.04 ^A	0.97 \pm 0.04 ^A	0.86 \pm 0.05 ^{ABC}	0.93 \pm 0.03 ^{AB}	0.75 \pm 0.05 ^{CD}	0.72 \pm 0.03 ^D	0.74 \pm 0.03 ^{CD}	0.78 \pm 0.05 ^{CD}			
Cys	0.010 \pm 0.001 ^A	0.007 \pm 0.001 ^{CD}	0.007 \pm 0.001 ^{CD}	0.004 \pm 0.001 ^D	0.007 \pm 0.001 ^{ABC}	0.008 \pm 0.001 ^{ABC}	0.007 \pm 0.001 ^{BCD}	0.007 \pm 0.001 ^{ABCD}	0.006 \pm 0.002 ^{CD}	0.010 \pm 0.001 ^{AB}			
Gln	1.16 \pm 0.12 ^{BC}	1.30 \pm 0.10 ^B	1.88 \pm 0.22 ^A	1.14 \pm 0.09 ^{BCD}	1.13 \pm 0.03 ^{BCD}	0.81 \pm 0.07 ^{DE}	0.66 \pm 0.09 ^E	0.70 \pm 0.10 ^E	0.63 \pm 0.06 ^E	0.94 \pm 0.16 ^{CDE}			
Glu	4.66 \pm 0.72 ^C	6.07 \pm 0.39 ^{ABC}	5.71 \pm 0.45 ^{ABC}	7.03 \pm 0.44 ^A	6.17 \pm 0.54 ^{ABC}	6.67 \pm 0.47 ^{AB}	5.81 \pm 0.68 ^{ABC}	4.55 \pm 0.30 ^C	5.69 \pm 0.80 ^{ABC}	5.14 \pm 0.77 ^{BC}			
Gly	0.23 \pm 0.03 ^{BC}	0.37 \pm 0.03 ^A	0.23 \pm 0.03 ^{BC}	0.24 \pm 0.04 ^{BC}	0.27 \pm 0.02 ^B	0.19 \pm 0.01 ^C	0.21 \pm 0.04 ^{BC}	0.19 \pm 0.02 ^{BC}	0.17 \pm 0.01 ^C	0.24 \pm 0.03 ^{BC}			
His	0.062 \pm 0.002 ^A	0.049 \pm 0.002 ^B	0.039 \pm 0.002 ^{CD}	0.040 \pm 0.004 ^{BCD}	0.040 \pm 0.002 ^{CD}	0.032 \pm 0.002 ^D	0.034 \pm 0.003 ^D	0.044 \pm 0.002 ^{BC}	0.040 \pm 0.003 ^{BCD}	0.058 \pm 0.007 ^A			
Ile	0.176 \pm 0.005 ^A	0.068 \pm 0.005 ^{DEF}	0.043 \pm 0.004 ^F	0.079 \pm 0.018 ^{CDE}	0.099 \pm 0.004 ^C	0.063 \pm 0.007 ^{EF}	0.094 \pm 0.005 ^{CD}	0.138 \pm 0.005 ^B	0.100 \pm 0.02 ^C	0.155 \pm 0.013 ^{AB}			
Leu	0.305 \pm 0.004 ^A	0.138 \pm 0.008 ^{CDE}	0.085 \pm 0.011 ^E	0.142 \pm 0.035 ^{CD}	0.184 \pm 0.007 ^C	0.106 \pm 0.016 ^{DE}	0.172 \pm 0.009 ^C	0.249 \pm 0.011 ^B	0.186 \pm 0.035 ^B	0.277 \pm 0.022 ^{AB}			
Lys	0.31 \pm 0.01 ^A	0.22 \pm 0.01 ^{BC}	0.10 \pm 0.02 ^E	0.17 \pm 0.04 ^{CD}	0.21 \pm 0.01 ^{BC}	0.13 \pm 0.02 ^{DE}	0.21 \pm 0.01 ^C	0.27 \pm 0.01 ^{AB}	0.22 \pm 0.04 ^{BC}	0.30 \pm 0.03 ^A			
Met	0.070 \pm 0.002 ^A	0.046 \pm 0.003 ^{CDE}	0.032 \pm 0.003 ^F	0.047 \pm 0.007 ^{CD}	0.050 \pm 0.002 ^{CD}	0.034 \pm 0.003 ^{EF}	0.047 \pm 0.003 ^{CD}	0.058 \pm 0.003 ^{BC}	0.045 \pm 0.007 ^{DE}	0.063 \pm 0.005 ^{AB}			
Phe	0.215 \pm 0.005 ^A	0.126 \pm 0.007 ^{DE}	0.086 \pm 0.008 ^F	0.117 \pm 0.021 ^{DEF}	0.143 \pm 0.005 ^{CD}	0.093 \pm 0.011 ^{EF}	0.135 \pm 0.006 ^D	0.177 \pm 0.006 ^{BC}	0.129 \pm 0.024 ^D	0.191 \pm 0.011 ^{AB}			
Pro	0.54 \pm 0.02 ^A	0.32 \pm 0.03 ^C	0.44 \pm 0.03 ^B	0.51 \pm 0.04 ^{AB}	0.51 \pm 0.04 ^{AB}	0.46 \pm 0.05 ^{AB}	0.45 \pm 0.04 ^{AB}	0.47 \pm 0.03 ^{AB}	0.44 \pm 0.03 ^B	0.48 \pm 0.03 ^{AB}			
Ser	0.59 \pm 0.05 ^A	0.38 \pm 0.04 ^{BC}	0.40 \pm 0.04 ^{BC}	0.30 \pm 0.02 ^{CD}	0.38 \pm 0.03 ^{BC}	0.24 \pm 0.02 ^D	0.29 \pm 0.02 ^{CD}	0.44 \pm 0.05 ^B	0.34 \pm 0.06 ^{BCD}	0.42 \pm 0.04 ^B			
Thr	0.86 \pm 0.05 ^A	0.33 \pm 0.03 ^C	0.35 \pm 0.04 ^C	0.58 \pm 0.06 ^B	0.83 \pm 0.09 ^A	0.65 \pm 0.06 ^B	0.72 \pm 0.05 ^{AB}	0.74 \pm 0.07 ^{AB}	0.36 \pm 0.05 ^C	0.84 \pm 0.07 ^A			
Trp	0.029 \pm 0.001 ^A	0.017 \pm 0.001 ^{BCD}	0.011 \pm 0.001 ^E	0.016 \pm 0.003 ^{CDE}	0.020 \pm 0.001 ^{BC}	0.012 \pm 0.001 ^{DE}	0.017 \pm 0.002 ^{BCD}	0.023 \pm 0.001 ^B	0.020 \pm 0.004 ^{BC}	0.030 \pm 0.003 ^A			
Tyr	0.095 \pm 0.004 ^A	0.047 \pm 0.001 ^C	0.025 \pm 0.004 ^E	0.040 \pm 0.008 ^{CD}	0.051 \pm 0.002 ^C	0.032 \pm 0.005 ^{DE}	0.048 \pm 0.002 ^C	0.069 \pm 0.003 ^B	0.053 \pm 0.009 ^C	0.082 \pm 0.005 ^{AB}			
Val	0.254 \pm 0.006 ^A	0.117 \pm 0.007 ^{DE}	0.086 \pm 0.007 ^E	0.124 \pm 0.020 ^{CD}	0.136 \pm 0.005 ^{CD}	0.111 \pm 0.008 ^{DE}	0.135 \pm 0.010 ^{CD}	0.191 \pm 0.006 ^B	0.155 \pm 0.019 ^C	0.225 \pm 0.018 ^{AB}			
Asp-derived ^a	1.41 \pm 0.05 ^A	0.66 \pm 0.03 ^{DE}	0.54 \pm 0.06 ^E	0.87 \pm 0.11 ^{CD}	1.19 \pm 0.10 ^{AB}	0.88 \pm 0.08 ^{CD}	1.07 \pm 0.06 ^{BC}	1.21 \pm 0.09 ^{AB}	0.73 \pm 0.12 ^{DE}	1.36 \pm 0.11 ^A			
Total ^b	12.3 \pm 0.7 ^{AB}	12.3 \pm 0.5 ^{AB}	11.7 \pm 0.8 ^{AB}	13.0 \pm 0.6 ^A	12.7 \pm 0.8 ^{AB}	11.7 \pm 0.4 ^{AB}	11.2 \pm 1.0 ^{AB}	10.6 \pm 0.5 ^B	10.6 \pm 1.0 ^B	11.8 \pm 1.2 ^{AB}			

^aAsp-derived amino acids refer to the total amount of Ile, Lys, Met, and Thr.

^bTotal amino acids refer to the total amount of 20 standard amino acids in this table.

Supplemental Table S4. Leaf free amino acid contents in three-week-old plants

Data are presented as mean \pm SE ($n = 5$). Values not connected by the same letter are significantly different (Student's *t*-test, $p < 0.05$). Values connected by the same letter are not significantly different.

Amino acid ($\mu\text{mol/g}$ FW)	Col WT	ak1-1	ak2-1	ak3-1	ak-hsdh1-1	ak-hsdh2-1	ak-hsdh2-2	ak-hsdh2-1 ak1-1	ak-hsdh2-1 ak2-1	ak-hsdh2-1 ak3-1
Ala	0.93 \pm 0.05 ^{EF}	1.86 \pm 0.32 ^{AB}	1.93 \pm 0.19 ^A	1.63 \pm 0.17 ^{ABC}	1.39 \pm 0.07 ^{BCDE}	1.43 \pm 0.01 ^{BCD}	1.69 \pm 0.29 ^{ABC}	1.28 \pm 0.10 ^{CDEF}	0.86 \pm 0.12 ^F	1.10 \pm 0.08 ^{DEF}
Arg	0.18 \pm 0.03 ^B	0.23 \pm 0.04 ^{AB}	0.20 \pm 0.02 ^B	0.19 \pm 0.03 ^B	0.18 \pm 0.01 ^B	0.23 \pm 0.05 ^{AB}	0.18 \pm 0.03 ^B	0.20 \pm 0.02 ^B	0.31 \pm 0.03 ^A	0.20 \pm 0.02 ^B
Asn	0.18 \pm 0.02 ^B	0.25 \pm 0.02 ^{AB}	0.22 \pm 0.01 ^{AB}	0.23 \pm 0.01 ^{AB}	0.28 \pm 0.04 ^A	0.28 \pm 0.05 ^A	0.23 \pm 0.03 ^{AB}	0.20 \pm 0.02 ^B	0.20 \pm 0.00 ^B	0.20 \pm 0.01 ^B
Asp	0.97 \pm 0.13 ^B	1.07 \pm 0.08 ^{AB}	0.98 \pm 0.06 ^B	1.19 \pm 0.06 ^{AB}	1.33 \pm 0.06 ^{AB}	1.19 \pm 0.23 ^{AB}	1.64 \pm 0.56 ^A	1.15 \pm 0.06 ^{AB}	1.09 \pm 0.04 ^{AB}	0.95 \pm 0.05 ^B
Cys	0.006 \pm 0.000 ^{CDE}	0.009 \pm 0.001 ^{BC}	0.009 \pm 0.001 ^{BCD}	0.008 \pm 0.001 ^{BCD}	0.010 \pm 0.001 ^{AB}	0.013 \pm 0.002 ^A	0.009 \pm 0.002 ^B	0.005 \pm 0.000 ^{DE}	0.003 \pm 0.001 ^E	0.008 \pm 0.002 ^{BCD}
Gln	2.38 \pm 0.24 ^C	3.60 \pm 0.27 ^{ABC}	2.85 \pm 0.13 ^{BC}	3.46 \pm 0.19 ^{ABC}	3.92 \pm 0.28 ^{AB}	3.98 \pm 0.75 ^{AB}	4.40 \pm 1.04 ^A	3.02 \pm 0.29 ^{BC}	2.54 \pm 0.32 ^C	2.42 \pm 0.16 ^C
Glu	6.00 \pm 0.51 ^{ABC}	4.24 \pm 0.72 ^{BC}	4.12 \pm 0.56 ^C	4.26 \pm 0.64 ^{BC}	3.35 \pm 0.53 ^C	7.35 \pm 2.17 ^A	5.38 \pm 1.13 ^{ABC}	7.11 \pm 0.55 ^A	5.63 \pm 0.69 ^{ABC}	6.88 \pm 0.55 ^{AB}
Gly	0.26 \pm 0.01 ^C	0.42 \pm 0.08 ^{BC}	0.48 \pm 0.03 ^{ABC}	0.36 \pm 0.03 ^{BC}	0.43 \pm 0.06 ^{BC}	0.68 \pm 0.20 ^A	0.49 \pm 0.07 ^{AB}	0.46 \pm 0.06 ^{ABC}	0.28 \pm 0.01 ^{BC}	0.43 \pm 0.04 ^{BC}
His	0.055 \pm 0.002 ^C	0.088 \pm 0.004 ^B	0.091 \pm 0.006 ^B	0.098 \pm 0.006 ^{AB}	0.098 \pm 0.006 ^{AB}	0.110 \pm 0.014 ^A	0.096 \pm 0.009 ^{AB}	0.065 \pm 0.004 ^C	0.064 \pm 0.002 ^C	0.058 \pm 0.004 ^C
Ile	0.060 \pm 0.002 ^D	0.123 \pm 0.007 ^C	0.157 \pm 0.018 ^{BC}	0.177 \pm 0.007 ^{AB}	0.181 \pm 0.006 ^{AB}	0.196 \pm 0.003 ^A	0.151 \pm 0.017 ^{BC}	0.071 \pm 0.006 ^D	0.057 \pm 0.002 ^D	0.079 \pm 0.004 ^D
Leu	0.095 \pm 0.005 ^C	0.253 \pm 0.012 ^B	0.308 \pm 0.027 ^B	0.319 \pm 0.015 ^B	0.317 \pm 0.024 ^B	0.400 \pm 0.068 ^A	0.314 \pm 0.034 ^B	0.125 \pm 0.004 ^C	0.117 \pm 0.008 ^C	0.126 \pm 0.009 ^C
Lys	0.11 \pm 0.01 ^C	0.26 \pm 0.02 ^B	0.30 \pm 0.03 ^B	0.31 \pm 0.02 ^{AB}	0.34 \pm 0.04 ^{AB}	0.41 \pm 0.08 ^A	0.35 \pm 0.04 ^{AB}	0.13 \pm 0.01 ^C	0.13 \pm 0.01 ^C	0.14 \pm 0.01 ^C
Met	0.036 \pm 0.004 ^D	0.073 \pm 0.007 ^{ABC}	0.085 \pm 0.010 ^{AB}	0.086 \pm 0.008 ^A	0.074 \pm 0.005 ^{ABC}	0.090 \pm 0.02 ^A	0.095 \pm 0.024 ^A	0.048 \pm 0.003 ^{CD}	0.044 \pm 0.003 ^{CD}	0.053 \pm 0.003 ^{BCD}
Phe	0.086 \pm 0.004 ^C	0.212 \pm 0.006 ^B	0.252 \pm 0.016 ^B	0.260 \pm 0.011 ^{AB}	0.262 \pm 0.013 ^{AB}	0.305 \pm 0.046 ^A	0.249 \pm 0.022 ^B	0.099 \pm 0.005 ^C	0.096 \pm 0.004 ^C	0.100 \pm 0.006 ^C
Pro	0.55 \pm 0.04 ^B	0.69 \pm 0.04 ^{AB}	0.75 \pm 0.07 ^{AB}	0.70 \pm 0.05 ^{AB}	0.65 \pm 0.02 ^B	0.70 \pm 0.02 ^{AB}	0.87 \pm 0.18 ^A	0.67 \pm 0.04 ^{AB}	0.62 \pm 0.07 ^B	0.65 \pm 0.06 ^B
Ser	0.49 \pm 0.06 ^D	1.19 \pm 0.13 ^{AB}	1.05 \pm 0.15 ^{ABC}	1.14 \pm 0.11 ^{AB}	1.45 \pm 0.12 ^A	1.04 \pm 0.15 ^{BC}	1.06 \pm 0.30 ^{ABC}	0.85 \pm 0.09 ^{BCD}	0.69 \pm 0.09 ^{CD}	0.50 \pm 0.04 ^D
Thr	0.69 \pm 0.04 ^{CDE}	0.55 \pm 0.05 ^{DEF}	0.52 \pm 0.05 ^{EF}	0.90 \pm 0.05 ^{BCD}	1.11 \pm 0.08 ^{AB}	1.48 \pm 0.28 ^A	1.15 \pm 0.25 ^{AB}	0.59 \pm 0.08 ^{CDEF}	0.22 \pm 0.02 ^F	0.94 \pm 0.08 ^{BC}
Trp	0.013 \pm 0.000 ^C	0.034 \pm 0.001 ^B	0.038 \pm 0.003 ^B	0.042 \pm 0.003 ^{AB}	0.042 \pm 0.003 ^{AB}	0.051 \pm 0.009 ^A	0.044 \pm 0.006 ^{AB}	0.018 \pm 0.001 ^C	0.015 \pm 0.001 ^C	0.017 \pm 0.001 ^C
Tyr	0.025 \pm 0.002 ^B	0.068 \pm 0.007 ^A	0.078 \pm 0.010 ^A	0.089 \pm 0.005 ^A	0.079 \pm 0.005 ^A	0.090 \pm 0.019 ^A	0.095 \pm 0.025 ^A	0.033 \pm 0.003 ^B	0.029 \pm 0.001 ^B	0.034 \pm 0.002 ^B
Val	0.11 \pm 0.00 ^D	0.20 \pm 0.02 ^{ABC}	0.21 \pm 0.03 ^{AB}	0.23 \pm 0.01 ^A	0.20 \pm 0.01 ^{ABC}	0.26 \pm 0.06 ^A	0.24 \pm 0.06 ^A	0.13 \pm 0.01 ^{CD}	0.11 \pm 0.01 ^D	0.13 \pm 0.01 ^{BCD}
Asp-derived ^a	0.90 \pm 0.05 ^{EF}	1.00 \pm 0.07 ^{DE}	1.06 \pm 0.09 ^{DE}	1.48 \pm 0.06 ^{BCD}	1.70 \pm 0.10 ^{ABC}	2.17 \pm 0.41 ^A	1.75 \pm 0.32 ^{AB}	0.84 \pm 0.09 ^{EF}	0.45 \pm 0.02 ^F	1.21 \pm 0.09 ^{CDE}
Total ^b	13.2 \pm 1.0 ^B	15.4 \pm 1.5 ^{AB}	14.6 \pm 0.8 ^{AB}	15.7 \pm 0.8 ^{AB}	15.7 \pm 0.7 ^{AB}	20.3 \pm 4.0 ^A	18.7 \pm 4.0 ^{AB}	16.2 \pm 1.2 ^{AB}	13.1 \pm 1.0 ^B	15.0 \pm 0.8 ^{AB}

^aAsp-derived amino acids refer to the total amount of Ile, Lys, Met, and Thr.

^bTotal amino acids refer to the total amount of 20 standard amino acids in this table.

Supplemental Table S5. Correlation coefficients and *p* values among transcript levels, AK activity, HSDH activity, free amino acid contents, and protein-bound amino acid contents and their ratios

Ten data points were used for Pearson's correlation analysis; each data point represents one genotype. Negligible or very weak ($0 \leq |r| < 0.20$) and weak ($0.20 \leq |r| < 0.40$) correlations are not bolded. Moderate ($0.40 \leq |r| < 0.70$), strong ($0.70 \leq |r| < 0.90$), and very strong ($0.90 \leq |r| \leq 1.00$) correlations are in bold. To dissect the AK activity from Lys-sensitive mono-functional AKs and that from Thr-sensitive dual-functional AK-HSDHs, we measured the overall AK activity in 0 mM Lys + 0 mM Thr, 0 mM Lys + 20 mM Thr, 20 mM Lys + 0 mM Thr, and 20 mM Lys + 20 mM Thr. In the presence of 20 mM Lys, the overall AK activity is expected to be solely contributed by the two AK-HSDHs; in the presence of 20 mM Thr, the overall AK activity is anticipated to be exclusively contributed by the three AKs; in the presence 20 mM Lys and Thr, the AK activity from both AKs and AK-HSDHs are expected to be abolished.

Variable	by Variable	Correlation coefficient <i>r</i>	<i>p</i> value
(AK-HSDHs+CGS1)/SAMSS	(AKs+AK-HSDHs)/AK-HSDHs	0.2912	0.4143
(AK-HSDHs+CGS1)/SAMSS	(AKs+AK-HSDHs+CGS1)/SAMSS	0.5564	0.0948
(AK-HSDHs+CGS1)/SAMSS	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.1926	0.5940
(AK-HSDHs+CGS1)/SAMSS	(AKs+DHDPSS)/LKR-SDH1	0.2721	0.4469
(AK-HSDHs+CGS1)/SAMSS	AK1	-0.4791	0.1613
(AK-HSDHs+CGS1)/SAMSS	AK1+AK2	0.2967	0.4051
(AK-HSDHs+CGS1)/SAMSS	AK1+AK3	-0.4634	0.1774
(AK-HSDHs+CGS1)/SAMSS	AK2	0.3855	0.2713
(AK-HSDHs+CGS1)/SAMSS	AK2+AK3	0.3697	0.2931
(AK-HSDHs+CGS1)/SAMSS	AK3	-0.0231	0.9495
(AK-HSDHs+CGS1)/SAMSS	AK-HSDH1	-0.1198	0.7417
(AK-HSDHs+CGS1)/SAMSS	AK-HSDH2	-0.1667	0.6453
(AK-HSDHs+CGS1)/SAMSS	AK-HSDHs	-0.1732	0.6323
(AK-HSDHs+CGS1)/SAMSS	AK-HSDHs+CGS1	-0.0018	0.9960
(AK-HSDHs+CGS1)/SAMSS	AK-HSDHs+TSI	-0.1083	0.7659
(AK-HSDHs+CGS1)/SAMSS	AK-HSDHs+TSI+TD1	-0.1371	0.7058
(AK-HSDHs+CGS1)/SAMSS	AK-HSDHs+TSI+THAs	-0.0973	0.7892
(AK-HSDHs+CGS1)/SAMSS	AKs	0.2864	0.4223
(AK-HSDHs+CGS1)/SAMSS	AKs/AK-HSDHs	0.2912	0.4143
(AK-HSDHs+CGS1)/SAMSS	AKs+AK-HSDHs	0.2507	0.4848
(AK-HSDHs+CGS1)/SAMSS	AKs+AK-HSDHs+CGS1	0.2797	0.4339
(AK-HSDHs+CGS1)/SAMSS	AKs+AK-HSDHs+DHDPSS	0.2319	0.5191
(AK-HSDHs+CGS1)/SAMSS	AKs+AK-HSDHs+TSI	0.1674	0.6439
(AK-HSDHs+CGS1)/SAMSS	AKs+AK-HSDHs+TSI+TD1	0.1379	0.7040
(AK-HSDHs+CGS1)/SAMSS	AKs+AK-HSDHs+TSI+THAs	0.1724	0.6339
(AK-HSDHs+CGS1)/SAMSS	AKs+DHDPSS	0.2689	0.4526
(AK-HSDHs+CGS1)/SAMSS	BCAT1	0.1099	0.7624
(AK-HSDHs+CGS1)/SAMSS	Biosynthetic genes analyzed	0.1702	0.6383
(AK-HSDHs+CGS1)/SAMSS	Catabolic genes analyzed	-0.5411	0.1063
(AK-HSDHs+CGS1)/SAMSS	CGS1	0.1800	0.6189
(AK-HSDHs+CGS1)/SAMSS	DHDPS1	-0.2646	0.4600
(AK-HSDHs+CGS1)/SAMSS	DHDPS2	-0.3314	0.3495
(AK-HSDHs+CGS1)/SAMSS	DHDPSs	-0.4230	0.2232
(AK-HSDHs+CGS1)/SAMSS	DHDPSs/LKR-SDH1	-0.2546	0.4777
(AK-HSDHs+CGS1)/SAMSS	LKR-SDH1	0.0890	0.8069
(AK-HSDHs+CGS1)/SAMSS	SAMS1	-0.3500	0.3215
(AK-HSDHs+CGS1)/SAMSS	SAMS2	-0.2300	0.5226
(AK-HSDHs+CGS1)/SAMSS	SAMS3	-0.4693	0.1712
(AK-HSDHs+CGS1)/SAMSS	SAMS4	-0.4198	0.2272
(AK-HSDHs+CGS1)/SAMSS	SAMSS	-0.5407	0.1066
(AK-HSDHs+CGS1)/SAMSS	TD1	-0.3806	0.2779
(AK-HSDHs+CGS1)/SAMSS	THA1	0.1947	0.5899
(AK-HSDHs+CGS1)/SAMSS	THA2	0.5101	0.1320
(AK-HSDHs+CGS1)/SAMSS	THAs	0.4915	0.1491

(AK-HSDHs+CGS1)/SAMSS	<i>THAs+TDI</i>	-0.2685	0.4531
(AK-HSDHs+CGS1)/SAMSS	<i>TSI</i>	-0.0630	0.8628
(AK-HSDHs+TS1)/(THAs+TDI)	<i>(AK-HSDHs+CGS1)/SAMSS</i>	0.2481	0.4895
(AK-HSDHs+TS1)/(THAs+TDI)	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.4137	0.2347
(AK-HSDHs+TS1)/(THAs+TDI)	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.1354	0.7092
(AK-HSDHs+TS1)/(THAs+TDI)	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDHI</i>	0.5455	0.1029
(AK-HSDHs+TS1)/(THAs+TDI)	<i>(AKs+AK-HSDHs+TS1)/(THAs+TDI)</i>	0.8325	0.0028
(AK-HSDHs+TS1)/(THAs+TDI)	<i>(AKs+DHDPSs)/LKR-SDHI</i>	0.4646	0.1761
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK1</i>	0.3119	0.3803
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK1+AK2</i>	-0.1100	0.7623
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK1+AK3</i>	0.1653	0.6480
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK2</i>	-0.1716	0.6355
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK2+AK3</i>	-0.1911	0.5969
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK3</i>	-0.1530	0.6731
(AK-HSDHs+TS1)/(THAs+TDI)	AK-HSDHI	0.6146	0.0586
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK-HSDH2</i>	0.0736	0.8399
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK-HSDHs</i>	0.3937	0.2603
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK-HSDHs+CGS1</i>	0.1991	0.5813
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK-HSDHs+TSI</i>	0.1256	0.7295
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK-HSDHs+TSI+TDI</i>	0.0619	0.8652
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AK-HSDHs+TSI+THAs</i>	0.1193	0.7428
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs</i>	-0.1355	0.7089
(AK-HSDHs+TS1)/(THAs+TDI)	AKs/AK-HSDHs	-0.4137	0.2347
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs+AK-HSDHs</i>	-0.0382	0.9165
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs+AK-HSDHs+CGS1</i>	-0.0466	0.8983
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.0535	0.8832
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs+AK-HSDHs+TSI</i>	-0.0333	0.9272
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.0677	0.8526
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.0369	0.9194
(AK-HSDHs+TS1)/(THAs+TDI)	<i>AKs+DHDPSs</i>	-0.1513	0.6766
(AK-HSDHs+TS1)/(THAs+TDI)	BCAT1	0.7569	0.0113
(AK-HSDHs+TS1)/(THAs+TDI)	Biosynthetic genes analyzed	-0.0499	0.8911
(AK-HSDHs+TS1)/(THAs+TDI)	Catabolic genes analyzed	-0.0157	0.9657
(AK-HSDHs+TS1)/(THAs+TDI)	<i>CGS1</i>	-0.0514	0.8879
(AK-HSDHs+TS1)/(THAs+TDI)	<i>CGS1/SAMSS</i>	-0.1486	0.6819
(AK-HSDHs+TS1)/(THAs+TDI)	DHDPS1	-0.5217	0.1220
(AK-HSDHs+TS1)/(THAs+TDI)	<i>DHDPS2</i>	-0.1490	0.6812
(AK-HSDHs+TS1)/(THAs+TDI)	DHDPSs	-0.4204	0.2264
(AK-HSDHs+TS1)/(THAs+TDI)	<i>DHDPSs/LKR-SDHI</i>	0.2574	0.4728
(AK-HSDHs+TS1)/(THAs+TDI)	LKR-SDHI	-0.4225	0.2239
(AK-HSDHs+TS1)/(THAs+TDI)	SAMS1	-0.7333	0.0158
(AK-HSDHs+TS1)/(THAs+TDI)	SAMS2	-0.6117	0.0602
(AK-HSDHs+TS1)/(THAs+TDI)	<i>SAMS3</i>	0.3691	0.2939
(AK-HSDHs+TS1)/(THAs+TDI)	<i>SAMS4</i>	-0.0456	0.9004
(AK-HSDHs+TS1)/(THAs+TDI)	<i>SAMSS</i>	-0.0138	0.9697
(AK-HSDHs+TS1)/(THAs+TDI)	TDI	-0.5588	0.0932
(AK-HSDHs+TS1)/(THAs+TDI)	<i>THA1</i>	-0.0451	0.9016
(AK-HSDHs+TS1)/(THAs+TDI)	<i>THA2</i>	-0.2945	0.4088
(AK-HSDHs+TS1)/(THAs+TDI)	<i>THAs</i>	-0.3347	0.3445
(AK-HSDHs+TS1)/(THAs+TDI)	THAs+TDI	-0.5990	0.0673
(AK-HSDHs+TS1)/(THAs+TDI)	<i>TSI</i>	-0.0076	0.9835
(AK-HSDHs+TS1)/(THAs+TDI)	TSI/(THAs+TDI)	0.9495	<.0001
(AK-HSDHs+TS1)/(THAs+TDI)	TSI/TDI	0.9614	<.0001
(AK-HSDHs+TS1)/(THAs+TDI)	<i>TSI/THAs</i>	-0.0062	0.9865
(AK-HSDHs+TS1+TDI)/BCAT1	<i>(AK-HSDHs+CGS1)/SAMSS</i>	0.2670	0.4559
(AK-HSDHs+TS1+TDI)/BCAT1	<i>(AK-HSDHs+TS1)/(THAs+TDI)</i>	-0.1206	0.7400
(AK-HSDHs+TS1+TDI)/BCAT1	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.2184	0.5445

(AK-HSDHs+TSI+TD1)/BCAT1	(AKs+AK-HSDHs+CGS1)/SAMSS	0.0039	0.9916
(AK-HSDHs+TSI+TD1)/BCAT1	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.2059	0.5682
(AK-HSDHs+TSI+TD1)/BCAT1	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	-0.1687	0.6412
(AK-HSDHs+TSI+TD1)/BCAT1	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	0.9989	<.0001
(AK-HSDHs+TSI+TD1)/BCAT1	(AKs+DHDPSS)/LKR-SDH1	0.1986	0.5823
AK1	AK1	0.0852	0.8150
(AK-HSDHs+TSI+TD1)/BCAT1	AK1+AK2	0.1962	0.5869
(AK-HSDHs+TSI+TD1)/BCAT1	AK1+AK3	-0.3488	0.3232
(AK-HSDHs+TSI+TD1)/BCAT1	AK2	0.1719	0.6349
(AK-HSDHs+TSI+TD1)/BCAT1	AK2+AK3	0.0735	0.8400
(AK-HSDHs+TSI+TD1)/BCAT1	AK3	-0.5361	0.1102
(AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDH1	0.0317	0.9307
(AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDH2	0.3835	0.2740
(AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDHs	0.2743	0.4431
(AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDHs+CGS1	0.4394	0.2038
(AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDHs+TSI	0.3822	0.2757
(AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDHs+TSI+TD1	0.3861	0.2705
(AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDHs+TSI+THAs	0.3856	0.2711
(AK-HSDHs+TSI+TD1)/BCAT1	AKs	0.0951	0.7937
(AK-HSDHs+TSI+TD1)/BCAT1	AKs/AK-HSDHs	-0.2184	0.5445
(AK-HSDHs+TSI+TD1)/BCAT1	AKs+AK-HSDHs	0.1709	0.6369
(AK-HSDHs+TSI+TD1)/BCAT1	AKs+AK-HSDHs+CGS1	0.2836	0.4271
(AK-HSDHs+TSI+TD1)/BCAT1	AKs+AK-HSDHs+DHDPSS	0.1882	0.6027
(AK-HSDHs+TSI+TD1)/BCAT1	AKs+AK-HSDHs+TSI	0.3136	0.3776
(AK-HSDHs+TSI+TD1)/BCAT1	AKs+AK-HSDHs+TSI+TD1	0.3236	0.3617
(AK-HSDHs+TSI+TD1)/BCAT1	AKs+AK-HSDHs+TSI+THAs	0.3132	0.3782
(AK-HSDHs+TSI+TD1)/BCAT1	AKs+DHDPSS	0.1148	0.7522
(AK-HSDHs+TSI+TD1)/BCAT1	BCAT1	-0.4809	0.1594
(AK-HSDHs+TSI+TD1)/BCAT1	Biosynthetic genes analyzed	0.3883	0.2675
(AK-HSDHs+TSI+TD1)/BCAT1	Catabolic genes analyzed	0.2132	0.5543
(AK-HSDHs+TSI+TD1)/BCAT1	CGS1	0.5328	0.1128
(AK-HSDHs+TSI+TD1)/BCAT1	CGS1/SAMSS	0.0804	0.8253
(AK-HSDHs+TSI+TD1)/BCAT1	DHDPS1	0.2954	0.4074
(AK-HSDHs+TSI+TD1)/BCAT1	DHDPS2	0.4690	0.1715
(AK-HSDHs+TSI+TD1)/BCAT1	DHDPSs	0.4815	0.1589
(AK-HSDHs+TSI+TD1)/BCAT1	DHDPSs/LKR-SDH1	0.3612	0.3051
(AK-HSDHs+TSI+TD1)/BCAT1	LKR-SDH1	-0.2509	0.4845
(AK-HSDHs+TSI+TD1)/BCAT1	SAMS1	0.1794	0.6200
(AK-HSDHs+TSI+TD1)/BCAT1	SAMS2	0.2451	0.4949
(AK-HSDHs+TSI+TD1)/BCAT1	SAMS3	0.1560	0.6669
(AK-HSDHs+TSI+TD1)/BCAT1	SAMS4	0.1871	0.6047
(AK-HSDHs+TSI+TD1)/BCAT1	SAMSS	0.2143	0.5521
(AK-HSDHs+TSI+TD1)/BCAT1	TD1	0.3218	0.3646
(AK-HSDHs+TSI+TD1)/BCAT1	TD1/BCAT1	0.9969	<.0001
(AK-HSDHs+TSI+TD1)/BCAT1	THA1	-0.2554	0.4763
(AK-HSDHs+TSI+TD1)/BCAT1	THA2	0.2315	0.5198
(AK-HSDHs+TSI+TD1)/BCAT1	THAs	0.2010	0.5776
(AK-HSDHs+TSI+TD1)/BCAT1	THAs+TD1	0.3526	0.3176
(AK-HSDHs+TSI+TD1)/BCAT1	TSI	0.3818	0.2763
(AK-HSDHs+TSI+TD1)/BCAT1	TSI/(THAs+TD1)	-0.1577	0.6634
(AK-HSDHs+TSI+TD1)/BCAT1	TSI/TD1	-0.2444	0.4961
(AK-HSDHs+TSI+TD1)/BCAT1	TSI/THAs	0.1459	0.6875
(AKs+AK-HSDHs)/AK-HSDHs	AK1	-0.2304	0.5219
(AKs+AK-HSDHs)/AK-HSDHs	AK1+AK2	0.7242	0.0179
(AKs+AK-HSDHs)/AK-HSDHs	AK1+AK3	-0.0715	0.8443
(AKs+AK-HSDHs)/AK-HSDHs	AK2	0.7459	0.0132
(AKs+AK-HSDHs)/AK-HSDHs	AK2+AK3	0.7548	0.0116

(AKs+AK-HSDHs)/AK-HSDHs	<i>AK3</i>	0.1720	0.6347
(AKs+AK-HSDHs)/AK-HSDHs	<i>AK-HSDH1</i>	-0.8182	0.0038
(AKs+AK-HSDHs)/AK-HSDHs	<i>AK-HSDH2</i>	-0.5349	0.1111
(AKs+AK-HSDHs)/AK-HSDHs	<i>AK-HSDHs</i>	-0.8097	0.0045
(AKs+AK-HSDHs)/AK-HSDHs	<i>AK-HSDHs+CGS1</i>	-0.6860	0.0285
(AKs+AK-HSDHs)/AK-HSDHs	<i>AK-HSDHs+TS1</i>	-0.5580	0.0937
(AKs+AK-HSDHs)/AK-HSDHs	<i>AK-HSDHs+TS1+TDI</i>	-0.5412	0.1062
(AKs+AK-HSDHs)/AK-HSDHs	<i>AK-HSDHs+TS1+THAs</i>	-0.5455	0.1029
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs</i>	0.7432	0.0138
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs+AK-HSDHs</i>	0.5584	0.0934
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs+AK-HSDHs+CGS1</i>	0.4326	0.2118
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs+AK-HSDHs+DHDPSS</i>	0.5420	0.1055
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs+AK-HSDHs+TS1</i>	0.2621	0.4645
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs+AK-HSDHs+TS1+TDI</i>	0.2391	0.5058
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.2690	0.4524
(AKs+AK-HSDHs)/AK-HSDHs	<i>AKs+DHDPSS</i>	0.7283	0.0169
(AKs+AK-HSDHs)/AK-HSDHs	<i>BCAT1</i>	-0.0689	0.8501
(AKs+AK-HSDHs)/AK-HSDHs	Biosynthetic genes analyzed	0.1569	0.6651
(AKs+AK-HSDHs)/AK-HSDHs	Catabolic genes analyzed	-0.7172	0.0196
(AKs+AK-HSDHs)/AK-HSDHs	<i>CGS1</i>	-0.4155	0.2324
(AKs+AK-HSDHs)/AK-HSDHs	<i>DHDPS1</i>	0.1196	0.7420
(AKs+AK-HSDHs)/AK-HSDHs	<i>DHDPS2</i>	-0.5194	0.1239
(AKs+AK-HSDHs)/AK-HSDHs	<i>DHDPSs</i>	-0.2850	0.4248
(AKs+AK-HSDHs)/AK-HSDHs	<i>LKR-SDH1</i>	0.6965	0.0252
(AKs+AK-HSDHs)/AK-HSDHs	<i>SAMS1</i>	-0.2118	0.5569
(AKs+AK-HSDHs)/AK-HSDHs	<i>SAMS2</i>	0.0328	0.9283
(AKs+AK-HSDHs)/AK-HSDHs	<i>SAMS3</i>	-0.7288	0.0168
(AKs+AK-HSDHs)/AK-HSDHs	<i>SAMS4</i>	-0.6735	0.0328
(AKs+AK-HSDHs)/AK-HSDHs	<i>SAMSS</i>	-0.7192	0.0191
(AKs+AK-HSDHs)/AK-HSDHs	<i>TD1</i>	-0.2550	0.4771
(AKs+AK-HSDHs)/AK-HSDHs	<i>THA1</i>	0.3046	0.3921
(AKs+AK-HSDHs)/AK-HSDHs	<i>THA2</i>	0.5020	0.1393
(AKs+AK-HSDHs)/AK-HSDHs	<i>THAs</i>	0.6049	0.0639
(AKs+AK-HSDHs)/AK-HSDHs	<i>THAs+TD1</i>	-0.1394	0.7010
(AKs+AK-HSDHs)/AK-HSDHs	<i>TS1</i>	-0.3727	0.2888
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.8844	0.0007
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.0547	0.8807
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>(AKs+DHDPSS)/LKR-SDH1</i>	0.2754	0.4412
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK1</i>	-0.2562	0.4749
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK1+AK2</i>	0.8698	0.0011
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK1+AK3</i>	-0.1106	0.7611
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK2</i>	0.8915	0.0005
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK2+AK3</i>	0.8937	0.0005
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK3</i>	0.1523	0.6745
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK-HSDH1</i>	-0.6160	0.0579
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK-HSDH2</i>	-0.3318	0.3490
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK-HSDHs</i>	-0.5621	0.0908
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK-HSDHs+CGS1</i>	-0.4656	0.1750
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK-HSDHs+TS1</i>	-0.3279	0.3550
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK-HSDHs+TS1+TDI</i>	-0.3282	0.3546
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AK-HSDHs+TS1+THAs</i>	-0.3160	0.3738
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs</i>	0.8824	0.0007
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs/AK-HSDHs</i>	0.8844	0.0007
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs+AK-HSDHs</i>	0.7677	0.0095
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs+AK-HSDHs+CGS1</i>	0.6652	0.0358
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs+AK-HSDHs+DHDPSS</i>	0.7525	0.0120
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs+AK-HSDHs+TS1</i>	0.5175	0.1255

(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.4865	0.1539
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.5224	0.1214
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>AKs+DHDPSS</i>	0.8702	0.0011
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>BCAT1</i>	-0.0251	0.9450
(AKs+AK-HSDHs+CGS1)/SAMSS	Biosynthetic genes analyzed	0.4155	0.2324
(AKs+AK-HSDHs+CGS1)/SAMSS	Catabolic genes analyzed	-0.6893	0.0275
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>CGS1</i>	-0.2656	0.4583
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>DHDPS1</i>	0.0923	0.7998
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>DHDPS2</i>	-0.3925	0.2619
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>DHDPSs</i>	-0.2219	0.5377
(AKs+AK-HSDHs+CGS1)/SAMSS	DHDPSs/LKR-SDH1	-0.6210	0.0553
(AKs+AK-HSDHs+CGS1)/SAMSS	LKR-SDH1	0.5663	0.0879
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>SAMS1</i>	-0.3578	0.3100
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>SAMS2</i>	0.0119	0.9740
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>SAMS3</i>	-0.6341	0.0490
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>SAMS4</i>	-0.6120	0.0600
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>SAMSS</i>	-0.6913	0.0268
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>TD1</i>	-0.2588	0.4703
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>THA1</i>	0.3062	0.3896
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>THA2</i>	0.5149	0.1277
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>THAs</i>	0.6048	0.0640
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>THAs+TD1</i>	-0.1413	0.6971
(AKs+AK-HSDHs+CGS1)/SAMSS	<i>TS1</i>	-0.1793	0.6201
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.2622	0.4643
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AK1</i>	0.0456	0.9004
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AK1+AK2</i>	0.3394	0.3374
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AK1+AK3</i>	0.1188	0.7437
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AK2</i>	0.3184	0.3699
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AK2+AK3</i>	0.3271	0.3562
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AK3</i>	0.0925	0.7995
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AK-HSDH1	0.4162	0.2316
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AK-HSDH2	0.6731	0.0329
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AK-HSDHs	0.6729	0.0330
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AK-HSDHs+CGS1	0.6737	0.0327
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AK-HSDHs+TS1	0.4552	0.1862
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AK-HSDHs+TS1+TD1	0.4263	0.2193
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AK-HSDHs+TS1+THAs	0.4509	0.1910
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs</i>	0.3504	0.3209
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs/AK-HSDHs</i>	-0.2622	0.4643
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	AKs+AK-HSDHs	0.5409	0.1064
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs+AK-HSDHs+CGS1</i>	0.6356	0.0483
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs+AK-HSDHs+DHDPSs</i>	0.5390	0.1079
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs+AK-HSDHs+TS1</i>	0.5648	0.0889
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.5515	0.0984
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.5611	0.0915
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>AKs+DHDPSS</i>	0.3527	0.3176
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>BCAT1</i>	0.2038	0.5722
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	Biosynthetic genes analyzed	0.6058	0.0634
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	Catabolic genes analyzed	0.4432	0.1995
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>CGS1</i>	0.5467	0.1020
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>DHDPS1</i>	-0.4674	0.1732
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>DHDPS2</i>	0.4839	0.1565
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>DHDPSs</i>	0.0547	0.8806
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	LKR-SDH1	-0.7226	0.0182
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>SAMS1</i>	-0.2454	0.4944
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>SAMS2</i>	-0.2303	0.5221
(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	<i>SAMS3</i>	0.6303	0.0508

(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	SAMS4	0.4518	0.1899
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	SAMSs	0.4440	0.1986
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	TD1	0.0553	0.8794
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	THA1	-0.6373	0.0475
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	THA2	-0.0002	0.9995
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	THAs	-0.0633	0.8620
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	THAs+TD1	0.0356	0.9223
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	TS1	0.2984	0.4024
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	(AK-HSDHs+CGS1)/SAMSs	0.4218	0.2247
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	(AKs+AK-HSDHs)/AK-HSDHs	0.1077	0.7670
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	(AKs+AK-HSDHs+CGS1)/SAMSs	0.3886	0.2672
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	0.6165	0.0577
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	(AKs+DHDPSSs)/LKR-SDH1	0.6688	0.0345
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK1	0.2098	0.5608
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK1+AK2	0.4002	0.2518
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK1+AK3	0.1567	0.6654
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK2	0.3418	0.3337
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK2+AK3	0.3262	0.3577
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK3	-0.0492	0.8925
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK-HSDH1	0.1944	0.5905
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK-HSDH2	-0.0449	0.9020
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK-HSDHs	0.0797	0.8268
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK-HSDHs+CGS1	-0.0530	0.8843
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK-HSDHs+TS1	-0.1245	0.7319
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK-HSDHs+TS1+TD1	-0.1803	0.6181
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AK-HSDHs+TS1+THAs	-0.1259	0.7288
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs	0.3848	0.2722
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs/AK-HSDHs	0.1077	0.7670
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs+AK-HSDHs	0.4195	0.2275
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs+AK-HSDHs+CGS1	0.3552	0.3138
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs+AK-HSDHs+DHDPSSs	0.3956	0.2578
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs+AK-HSDHs+TS1	0.2365	0.5107
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs+AK-HSDHs+TS1+TD1	0.1881	0.6029
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs+AK-HSDHs+TS1+THAs	0.2353	0.5128
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	AKs+DHDPSSs	0.3624	0.3034
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	BCAT1	0.7035	0.0232
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	Biosynthetic genes analyzed	0.1675	0.6437
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	Catabolic genes analyzed	-0.3066	0.3890
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	CGS1	-0.1839	0.6110
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	CGS1/SAMSs	0.1389	0.7020
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	DHDPS1	-0.5429	0.1049
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	DHDPS2	-0.3105	0.3825
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	DHDPSs	-0.5410	0.1063
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	DHDPSs/LKR-SDH1	-0.0486	0.8940
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	LKR-SDH1	-0.1899	0.5993
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	SAMS1	-0.8627	0.0013
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	SAMS2	-0.6437	0.0446
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	SAMS3	0.0980	0.7876
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	SAMS4	-0.3245	0.3603
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	SAMs	-0.3053	0.3910
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	TD1	-0.6630	0.0366
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	THA1	-0.0021	0.9954
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	THA2	-0.0631	0.8625
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	THAs	-0.0568	0.8761
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	THAs+TD1	-0.6545	0.0400
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	TS1	-0.1964	0.5866
(AKs+AK-HSDHs+TS1)/(THAs+TD1)	TS1/(THAs+TD1)	0.7899	0.0066

(AKs+AK-HSDHs+TSI)/(THAs+TD1)	TSI/TD1	0.8817	0.0007
(AKs+AK-HSDHs+TSI)/(THAs+TD1)	<i>TSI/THAs</i>	-0.3543	0.3152
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>(AK-HSDHs+CGS1)/SAMs1</i>	0.2775	0.4376
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>(AK-HSDHs+TSI)/(THAs+TD1)</i>	-0.1337	0.7127
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.1789	0.6209
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>(AKs+AK-HSDHs+CGS1)/SAMsS</i>	0.0433	0.9055
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.2117	0.5570
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>(AKs+AK-HSDHs+TSI)/(THAs+TD1)</i>	-0.1564	0.6661
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>(AKs+DHDPSS)/LKR-SDH1</i>	0.2151	0.5507
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK1</i>	0.0823	0.8213
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK1+AK2</i>	0.2364	0.5108
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK1+AK3</i>	-0.3446	0.3295
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK2</i>	0.2113	0.5579
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK2+AK3</i>	0.1133	0.7552
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	AK3	-0.5276	0.1171
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK-HSDH1</i>	-0.0052	0.9887
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK-HSDH2</i>	0.3782	0.2812
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK-HSDHs</i>	0.2501	0.4858
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	AK-HSDHs+CGS1	0.4193	0.2277
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK-HSDHs+TSI</i>	0.3639	0.3013
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK-HSDHs+TSI+TD1</i>	0.3684	0.2948
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AK-HSDHs+TSI+THAs</i>	0.3676	0.2960
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs</i>	0.1362	0.7075
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs/AK-HSDHs</i>	-0.1789	0.6209
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs+AK-HSDHs</i>	0.2072	0.5658
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs+AK-HSDHs+CGS1</i>	0.3153	0.3749
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs+AK-HSDHs+DHDPSS</i>	0.2239	0.5340
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs+AK-HSDHs+TSI</i>	0.3357	0.3429
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.3448	0.3293
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3355	0.3433
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>AKs+DHDPSS</i>	0.1555	0.6679
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	BCAT1	-0.4875	0.1529
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	Biosynthetic genes analyzed	0.4062	0.2441
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	Catabolic genes analyzed	0.1906	0.5978
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	CGS1	0.5214	0.1222
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>CGS1/SAMsS</i>	0.1000	0.7835
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>DHDPS1</i>	0.2942	0.4093
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	DHDPS2	0.4615	0.1794
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>DHDPSs</i>	0.4759	0.1644
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>DHDPSs/LKR-SDH1</i>	0.3387	0.3384
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>LKR-SDH1</i>	-0.2334	0.5163
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>SAMS1</i>	0.1710	0.6368
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>SAMS2</i>	0.2434	0.4981
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>SAMS3</i>	0.1342	0.7118
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>SAMS4</i>	0.1658	0.6472
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>SAMsS</i>	0.1918	0.5956
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>TD1</i>	0.3153	0.3749
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	TD1/BCAT1	0.9951	<.0001
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>THA1</i>	-0.2535	0.4797
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>THA2</i>	0.2447	0.4957
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>THAs</i>	0.2192	0.5429
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>THAs+TD1</i>	0.3490	0.3229
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>TSI</i>	0.3685	0.2947
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>TSI/(THAs+TD1)</i>	-0.1695	0.6396
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>TSI/TD1</i>	-0.2516	0.4832
(AKs+AK-HSDHs+TSI+TD1)/BCAT1	<i>TSI/THAs</i>	0.1193	0.7427
(AKs+DHDPSS)/LKR-SDH1	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.0237	0.9482

(AKs+DHDPSSs)/LKR-SDH1	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	0.9668	<.0001
(AKs+DHDPSSs)/LKR-SDH1	AK1	0.0010	0.9978
(AKs+DHDPSSs)/LKR-SDH1	AK1+AK2	0.5465	0.1021
(AKs+DHDPSSs)/LKR-SDH1	AK1+AK3	0.0583	0.8730
(AKs+DHDPSSs)/LKR-SDH1	AK2	0.5274	0.1172
(AKs+DHDPSSs)/LKR-SDH1	AK2+AK3	0.5257	0.1186
(AKs+DHDPSSs)/LKR-SDH1	AK3	0.0667	0.8548
(AKs+DHDPSSs)/LKR-SDH1	AK-HSDH1	0.2062	0.5677
(AKs+DHDPSSs)/LKR-SDH1	AK-HSDH2	0.5464	0.1022
(AKs+DHDPSSs)/LKR-SDH1	AK-HSDHs	0.4723	0.1681
(AKs+DHDPSSs)/LKR-SDH1	AK-HSDHs+CGS1	0.5137	0.1288
(AKs+DHDPSSs)/LKR-SDH1	AK-HSDHs+TSI	0.3169	0.3724
(AKs+DHDPSSs)/LKR-SDH1	AK-HSDHs+TSI+TD1	0.2897	0.4168
(AKs+DHDPSSs)/LKR-SDH1	AK-HSDHs+TSI+THAs	0.3155	0.3745
(AKs+DHDPSSs)/LKR-SDH1	AKs	0.5493	0.1000
(AKs+DHDPSSs)/LKR-SDH1	AKs/AK-HSDHs	-0.0237	0.9482
(AKs+DHDPSSs)/LKR-SDH1	AKs+AK-HSDHs	0.6945	0.0258
(AKs+DHDPSSs)/LKR-SDH1	AKs+AK-HSDHs+CGS1	0.7616	0.0105
(AKs+DHDPSSs)/LKR-SDH1	AKs+AK-HSDHs+DHDPSSs	0.6882	0.0278
(AKs+DHDPSSs)/LKR-SDH1	AKs+AK-HSDHs+TSI	0.6417	0.0455
(AKs+DHDPSSs)/LKR-SDH1	AKs+AK-HSDHs+TSI+TD1	0.6208	0.0555
(AKs+DHDPSSs)/LKR-SDH1	AKs+AK-HSDHs+TSI+THAs	0.6396	0.0464
(AKs+DHDPSSs)/LKR-SDH1	AKs+DHDPSSs	0.5476	0.1013
(AKs+DHDPSSs)/LKR-SDH1	BCAT1	0.2136	0.5535
(AKs+DHDPSSs)/LKR-SDH1	Biosynthetic genes analyzed	0.6586	0.0384
(AKs+DHDPSSs)/LKR-SDH1	Catabolic genes analyzed	0.2647	0.4598
(AKs+DHDPSSs)/LKR-SDH1	CGS1	0.4630	0.1778
(AKs+DHDPSSs)/LKR-SDH1	DHDPS1	-0.4739	0.1664
(AKs+DHDPSSs)/LKR-SDH1	DHDPS2	0.3767	0.2833
(AKs+DHDPSSs)/LKR-SDH1	DHDPSs	-0.0237	0.9481
(AKs+DHDPSSs)/LKR-SDH1	LKR-SDH1	-0.5865	0.0747
(AKs+DHDPSSs)/LKR-SDH1	SAMS1	-0.3309	0.3504
(AKs+DHDPSSs)/LKR-SDH1	SAMS2	-0.2638	0.4614
(AKs+DHDPSSs)/LKR-SDH1	SAMS3	0.4676	0.1729
(AKs+DHDPSSs)/LKR-SDH1	SAMS4	0.2798	0.4336
(AKs+DHDPSSs)/LKR-SDH1	SAMSs	0.2652	0.4590
(AKs+DHDPSSs)/LKR-SDH1	TD1	-0.0311	0.9321
(AKs+DHDPSSs)/LKR-SDH1	THA1	-0.5817	0.0778
(AKs+DHDPSSs)/LKR-SDH1	THA2	0.1196	0.7421
(AKs+DHDPSSs)/LKR-SDH1	THAs	0.0833	0.8190
(AKs+DHDPSSs)/LKR-SDH1	THAs+TD1	-0.0227	0.9504
(AKs+DHDPSSs)/LKR-SDH1	TSI	0.2062	0.5677
AK activity with four effectors	(AK-HSDHs+CGS1)/SAMSs	0.2184	0.5445
AK activity with four effectors	(AK-HSDHs+TSI)/(THAs+TD1)	0.3801	0.2786
AK activity with four effectors	(AK-HSDHs+TSI+TD1)/BCAT1	0.1930	0.5933
AK activity with four effectors	(AKs+AK-HSDHs)/AK-HSDHs	0.0592	0.8710
AK activity with four effectors	(AKs+AK-HSDHs+CGS1)/SAMSs	0.2710	0.4489
AK activity with four effectors	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	0.8230	0.0034
AK activity with four effectors	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	0.5645	0.0891
AK activity with four effectors	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	0.2053	0.5693
AK activity with four effectors	(AKs+DHDPSSs)/LKR-SDH1	0.8734	0.0010
AK activity without effectors	AK1	0.9147	0.0002
AK activity without effectors	AK1+AK2	0.5726	0.0836
AK activity without effectors	AK1+AK3	-0.1069	0.7689
AK activity without effectors	AK2	0.5610	0.0916
AK activity without effectors	AK2+AK3	0.5293	0.1157

AK activity with four effectors	<i>AK3</i>	-0.0979	0.7880
AK activity with four effectors	<i>AK-HSDH1</i>	0.2680	0.4541
AK activity with four effectors	<i>AK-HSDH2</i>	0.2940	0.4097
AK activity with four effectors	<i>AK-HSDHs</i>	0.3434	0.3313
AK activity with four effectors	<i>AK-HSDHs+CGS1</i>	0.4753	0.1650
AK activity with four effectors	<i>AK-HSDHs+TSI</i>	0.3789	0.2803
AK activity with four effectors	<i>AK-HSDHs+TSI+TDI</i>	0.3494	0.3224
AK activity with four effectors	<i>AK-HSDHs+TSI+THAs</i>	0.3846	0.2725
AKs	0.5451	0.1032	
AKs/AK-HSDHs		0.0592	0.8710
AKs+AK-HSDHs	0.6565	0.0392	
AKs+AK-HSDHs+CGS1	0.7406	0.0143	
AKs+AK-HSDHs+DHDPSSs	0.6504	0.0417	
AKs+AK-HSDHs+TSI	0.6769	0.0316	
AKs+AK-HSDHs+TSI+TDI	0.6552	0.0398	
AKs+AK-HSDHs+TSI+THAs	0.6792	0.0308	
AKs+DHDPSSs	0.5432	0.1046	
BCAT1		0.3062	0.3896
Biosynthetic genes analyzed	0.7012	0.0239	
Catabolic genes analyzed		0.2487	0.4884
CGS1	0.5268	0.1177	
CGS1/SAMSSs		-0.0376	0.9178
CGS1/TSI	0.0627	0.8635	
DHDPS1		-0.3357	0.3430
DHDPS2		0.2791	0.4349
DHDPSs		-0.0113	0.9753
DHDPSs/AK-HSDHs		-0.3939	0.2600
DHDPSs/LKR-SDH1		0.3633	0.3021
HSDH activity without effectors		0.2427	0.4992
LKR-SDH1		-0.4785	0.1618
SAMS1		-0.4099	0.2394
SAMS2		-0.1467	0.6860
SAMS3		0.4809	0.1594
SAMS4		0.2635	0.4620
SAMSSs		0.2470	0.4915
TD1		-0.0275	0.9398
TD1/BCAT1		0.1707	0.6373
THA1		-0.6511	0.0414
THA2		0.4495	0.1924
THAs		0.4019	0.2496
THAs+TD1		0.0485	0.8942
TSI		0.3439	0.3305
TSI/(THAs+TD1)		0.2843	0.4259
TSI/TD1		0.3314	0.3496
TSI/THAs		-0.1190	0.7433
(AK-HSDHs+CGS1)/SAMSSs		0.3012	0.3977
(AK-HSDHs+TSI)/(THAs+TD1)		0.3830	0.2746
(AK-HSDHs+TSI+TD1)/BCAT1		0.0250	0.9454
(AKs+AK-HSDHs)/AK-HSDHs		0.0992	0.7850
(AKs+AK-HSDHs+CGS1)/SAMSSs		0.2758	0.4406
(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1		0.6270	0.0523
(AKs+AK-HSDHs+TSI)/(THAs+TD1)		0.5190	0.1242
(AKs+AK-HSDHs+TSI+TD1)/BCAT1		0.0300	0.9343
(AKs+DHDPSSs)/LKR-SDH1		0.6711	0.0336
AK1		-0.2533	0.4801
AK1+AK2		0.4593	0.1818
AK1+AK3		-0.2882	0.4194

AK activity without effectors	<i>AK2</i>	0.4954	0.1454
AK activity without effectors	<i>AK2+AK3</i>	0.4678	0.1727
AK activity without effectors	<i>AK3</i>	-0.0812	0.8234
AK activity without effectors	<i>AK-HSDH1</i>	0.3656	0.2988
AK activity without effectors	<i>AK-HSDH2</i>	0.0179	0.9609
AK activity without effectors	<i>AK-HSDHs</i>	0.2181	0.5449
AK activity without effectors	<i>AK-HSDHs+CGS1</i>	0.3713	0.2908
AK activity without effectors	<i>AK-HSDHs+TS1</i>	0.3669	0.2971
AK activity without effectors	<i>AK-HSDHs+TS1+TD1</i>	0.3317	0.3491
AK activity without effectors	<i>AK-HSDHs+TS1+THAs</i>	0.3766	0.2834
AK activity without effectors	<i>AKs</i>	0.4363	0.2075
AK activity without effectors	<i>AKs/AK-HSDHs</i>	0.0992	0.7850
AK activity without effectors	<i>AKs+AK-HSDHs</i>	0.5104	0.1317
AK activity without effectors	<i>AKs+AK-HSDHs+CGS1</i>	0.5888	0.0733
AK activity without effectors	<i>AKs+AK-HSDHs+DHDPSS</i>	0.5008	0.1404
AK activity without effectors	<i>AKs+AK-HSDHs+TS1</i>	0.5813	0.0780
AK activity without effectors	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.5576	0.0940
AK activity without effectors	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.5861	0.0749
AK activity without effectors	<i>AKs+DHDPSS</i>	0.4296	0.2153
AK activity without effectors	<i>BCAT1</i>	0.4539	0.1876
AK activity without effectors	Biosynthetic genes analyzed	0.6005	0.0664
AK activity without effectors	Catabolic genes analyzed	0.1170	0.7475
AK activity without effectors	<i>CGS1</i>	0.4636	0.1772
AK activity without effectors	<i>CGS1/SAMSS</i>	0.1079	0.7666
AK activity without effectors	<i>CGS1/TS1</i>	-0.0495	0.8921
AK activity without effectors	<i>DHDPS1</i>	-0.2885	0.4188
AK activity without effectors	<i>DHDPS2</i>	0.0743	0.8384
AK activity without effectors	<i>DHDPSs</i>	-0.1312	0.7178
AK activity without effectors	<i>DHDPSs/AK-HSDHs</i>	-0.2823	0.4294
AK activity without effectors	<i>DHDPSs/LKR-SDH1</i>	0.2030	0.5738
AK activity without effectors	<i>LKR-SDH1</i>	-0.2997	0.4001
AK activity without effectors	<i>SAMS1</i>	-0.4686	0.1719
AK activity without effectors	<i>SAMS2</i>	-0.1066	0.7695
AK activity without effectors	<i>SAMS3</i>	0.3436	0.3310
AK activity without effectors	<i>SAMS4</i>	0.1787	0.6214
AK activity without effectors	<i>SAMSS</i>	0.1136	0.7547
AK activity without effectors	<i>TD1</i>	-0.1036	0.7758
AK activity without effectors	<i>TD1/BCAT1</i>	-0.0054	0.9881
AK activity without effectors	<i>THA1</i>	-0.4482	0.1939
AK activity without effectors	<i>THA2</i>	0.6083	0.0620
AK activity without effectors	<i>THAs</i>	0.5505	0.0992
AK activity without effectors	<i>THAs+TD1</i>	0.0106	0.9767
AK activity without effectors	<i>TS1</i>	0.3835	0.2740
AK activity without effectors	<i>TS1/(THAs+TD1)</i>	0.3532	0.3167
AK activity without effectors	<i>TS1/TD1</i>	0.3559	0.3128
AK activity without effectors	<i>TS1/THAs</i>	-0.2188	0.5437
AK activity/HSDH activity with four effectors	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.0623	0.8643
AK activity/HSDH activity with four effectors	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	0.0210	0.9541
AK activity/HSDH activity with four effectors	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	-0.1737	0.6313
AK activity/HSDH activity with four effectors	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.5083	0.1336
AK activity/HSDH activity with four effectors	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	0.4859	0.1545
AK activity/HSDH activity with four effectors	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.4637	0.1771
AK activity/HSDH activity with four effectors	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	0.4147	0.2334
AK activity/HSDH activity with four effectors	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	-0.1420	0.6956
AK activity/HSDH activity with four effectors	<i>(AKs+DHDPSS)/LKR-SDH1</i>	0.6294	0.0512
AK activity/HSDH activity with four effectors	AK activity with four effectors	0.7230	0.0181
AK activity/HSDH activity with four effectors	AK activity without effectors	0.6188	0.0565

AK activity/HSDH activity with four effectors	AK activity/HSDH activity without effectors	0.9355	<.0001
AK activity/HSDH activity with four effectors		-0.0347	0.9241
AK activity/HSDH activity with four effectors	AKI	0.7399	0.0144
AK activity/HSDH activity with four effectors	AKI+AK2	-0.0126	0.9724
AK activity/HSDH activity with four effectors	AKI+AK3		
AK activity/HSDH activity with four effectors	AK2	0.7210	0.0186
AK activity/HSDH activity with four effectors	AK2+AK3		
AK activity/HSDH activity with four effectors	AK3	0.0133	0.9709
AK activity/HSDH activity with four effectors	AK-HSDH1	-0.2882	0.4194
AK activity/HSDH activity with four effectors	AK-HSDH2	-0.0264	0.9423
AK activity/HSDH activity with four effectors	AK-HSDHs	-0.1807	0.6173
AK activity/HSDH activity with four effectors	AK-HSDHs+CGS1	-0.0745	0.8379
AK activity/HSDH activity with four effectors	AK-HSDHs+TS1	-0.0856	0.8141
AK activity/HSDH activity with four effectors	AK-HSDHs+TS1+TD1	-0.0926	0.7992
AK activity/HSDH activity with four effectors	AK-HSDHs+TS1+THAs	-0.0805	0.8250
AKs	AKs	0.7300	0.0165
AKs/AK-HSDHs		0.5083	0.1336
AKs+AK-HSDHs		0.7104	0.0213
AK activity/HSDH activity with four effectors	AKs+AK-HSDHs+CGS1		
AK activity/HSDH activity with four effectors	AKs+AK-HSDHs+DHDPSs	0.6844	0.0290
AK activity/HSDH activity with four effectors	AKs+AK-HSDHs+TS1		
AK activity/HSDH activity with four effectors	AKs+AK-HSDHs+TS1+TD1	0.6987	0.0246
AK activity/HSDH activity with four effectors	AKs+AK-HSDHs+TS1+THAs		
AK activity/HSDH activity with four effectors	AKs+DHDPSs	0.5411	0.1063
AK activity/HSDH activity with four effectors	BCAT1		
AK activity/HSDH activity with four effectors	BCAT1	0.5172	0.1258
Biosynthetic genes analyzed		0.5442	0.1039
Catabolic genes analyzed			
CGS1	CGS1	0.7216	0.0185
CGS1/SAMsS			
CGS1/TS1	CGS1/TS1	0.2989	0.4016
DHDPS1		0.4949	0.1459
DHDPS2		-0.0555	0.8790
DHDPSs		0.0606	0.8679
DHDPSs/AK-HSDHs		0.0289	0.9369
DHDPSs/LKR-SDH1		0.1984	0.5826
HSDH activity with four effectors		-0.3238	0.3614
HSDH activity without effectors		0.0494	0.8921
LKR-SDH1		-0.1476	0.6841
SAMS1		0.1074	0.7677
SAMS2		-0.0930	0.7982
SAMS3		-0.3735	0.2877
SAMS4		-0.4403	0.2028
SAMsS		-0.0884	0.8081
TD1		-0.3626	0.3031
TD1/BCAT1		-0.1985	0.5825
THA1		0.1163	0.7491
THA2		-0.0533	0.8838
THAs		-0.0576	0.8744
THAs+TD1		-0.1356	0.7089
TS1		-0.1899	0.5993
TS1/(THAs+TD1)		-0.3911	0.2638
TS1/TD1		0.3151	0.3752
TS1/THAs		0.3572	0.3109
(AK-HSDHs+CGS1)/SAMsS		-0.0757	0.8353
(AK-HSDHs+TS1)/(THAs+TD1)		-0.0332	0.9275
(AK-HSDHs+TS1+TD1)/BCAT1		0.0308	0.9328
(AKs+AK-HSDHs)/AK-HSDHs		0.0619	0.8651
(AKs+AK-HSDHs+CGS1)/SAMsS		-0.3809	0.2775
		0.0783	0.8297
		-0.1170	0.7474
		-0.2284	0.5255
		0.6493	0.0422
		0.6303	0.0507

AK activity/HSDH activity without effectors	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.4170	0.2306
AK activity/HSDH activity without effectors	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	0.3560	0.3127
AK activity/HSDH activity without effectors	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	-0.1900	0.5990
AK activity/HSDH activity without effectors	(AKs+DHDPSs)/LKR-SDH1	0.6019	0.0656
AK activity/HSDH activity without effectors	AK activity with four effectors	0.5956	0.0692
AK activity/HSDH activity without effectors	AK activity without effectors	0.4796	0.1607
AK activity/HSDH activity without effectors	<i>AK1</i>	-0.2059	0.5683
AK activity/HSDH activity without effectors	AK1+AK2	0.7770	0.0082
AK activity/HSDH activity without effectors	<i>AK1+AK3</i>	0.0294	0.9357
AK activity/HSDH activity without effectors	AK2	0.7924	0.0063
AK activity/HSDH activity without effectors	AK2+AK3	0.8173	0.0039
AK activity/HSDH activity without effectors	<i>AK3</i>	0.2678	0.4544
AK activity/HSDH activity without effectors	AK-HSDH1	-0.4704	0.1700
AK activity/HSDH activity without effectors	<i>AK-HSDH2</i>	0.0218	0.9524
AK activity/HSDH activity without effectors	<i>AK-HSDHs</i>	-0.2527	0.4812
AK activity/HSDH activity without effectors	<i>AK-HSDHs+CGS1</i>	-0.1290	0.7226
AK activity/HSDH activity without effectors	<i>AK-HSDHs+TS1</i>	-0.1602	0.6585
AK activity/HSDH activity without effectors	<i>AK-HSDHs+TS1+TD1</i>	-0.1559	0.6670
AK activity/HSDH activity without effectors	<i>AK-HSDHs+TS1+THAs</i>	-0.1545	0.6700
AK activity/HSDH activity without effectors	AKs	0.8125	0.0043
AK activity/HSDH activity without effectors	AKs/AK-HSDHs	0.6493	0.0422
AK activity/HSDH activity without effectors	AKs+AK-HSDHs	0.7770	0.0082
AK activity/HSDH activity without effectors	AKs+AK-HSDHs+CGS1	0.7417	0.0141
AK activity/HSDH activity without effectors	AKs+AK-HSDHs+DHDPSs	0.7644	0.0100
AK activity/HSDH activity without effectors	AKs+AK-HSDHs+TS1	0.5623	0.0906
AK activity/HSDH activity without effectors	AKs+AK-HSDHs+TS1+TD1	0.5418	0.1057
AK activity/HSDH activity without effectors	AKs+AK-HSDHs+TS1+THAs	0.5654	0.0885
AK activity/HSDH activity without effectors	AKs+DHDPSs	0.8035	0.0051
AK activity/HSDH activity without effectors	<i>BCAT1</i>	0.1217	0.7377
Biosynthetic genes analyzed	0.5096	0.1324	
Catabolic genes analyzed		-0.1611	0.6565
<i>CGS1</i>		0.0362	0.9208
<i>CGS1/SAMSS</i>		0.1852	0.6085
<i>CGS1/TS1</i>		0.3241	0.3609
<i>DHDPS1</i>		-0.3107	0.3822
<i>DHDPS2</i>		0.0277	0.9394
<i>DHDPSs</i>		-0.1571	0.6647
<i>DHDPSs/AK-HSDHs</i>		0.2248	0.5323
<i>DHDPSs/LKR-SDH1</i>		-0.1866	0.6057
HSDH activity with four effectors	-0.4401	0.2031	
HSDH activity without effectors	-0.6251	0.0533	
LKR-SDH1		0.0270	0.9409
<i>SAMS1</i>		-0.2100	0.5604
<i>SAMS2</i>		-0.1162	0.7492
<i>SAMS3</i>		-0.0936	0.7970
<i>SAMS4</i>		-0.1097	0.7628
<i>SAMSS</i>		-0.1631	0.6526
<i>TD1</i>		-0.0726	0.8420
<i>TD1/BCAT1</i>		-0.2389	0.5062
<i>THA1</i>		-0.2968	0.4049
<i>THA2</i>		0.3350	0.3440
<i>THAs</i>		0.3930	0.2613
<i>THAs+TD1</i>		-0.0111	0.9757
<i>TS1</i>		-0.0992	0.7851
<i>TS1/(THAs+TD1)</i>		-0.1284	0.7237
<i>TS1/TD1</i>		-0.0340	0.9258
AK activity/HSDH activity without effectors	TS1/THAs	-0.4554	0.1859

<i>AKI+AK2</i>	<i>AKI</i>	-0.0680	0.8520
<i>AKI+AK2</i>	<i>AKI+AK3</i>	-0.0534	0.8836
<i>AKI+AK2</i>	<i>AK2</i>	0.9782	<.0001
<i>AKI+AK2</i>	<i>AK2+AK3</i>	0.9525	<.0001
<i>AKI+AK2</i>	<i>AK3</i>	0.0015	0.9968
<i>AKI+AK2</i>	<i>AK-HSDH1</i>	-0.4794	0.1610
<i>AKI+AK2</i>	<i>AK-HSDH2</i>	-0.0490	0.8931
<i>AKI+AK2</i>	<i>AK-HSDHs</i>	-0.3003	0.3993
<i>AKI+AK2</i>	<i>AKs</i>	0.9833	<.0001
<i>AKI+AK2</i>	<i>AKs+AK-HSDHs</i>	0.9418	<.0001
<i>AKI+AK2</i>	<i>BCAT1</i>	-0.0566	0.8765
<i>AKI+AK2</i>	Biosynthetic genes analyzed	0.6795	0.0307
<i>AKI+AK2</i>	Catabolic genes analyzed	-0.3384	0.3389
<i>AKI+AK2</i>	<i>CGS1</i>	-0.0341	0.9255
<i>AKI+AK2</i>	<i>DHDPS1</i>	0.1032	0.7766
<i>AKI+AK2</i>	<i>DHDPS2</i>	-0.0303	0.9339
<i>AKI+AK2</i>	<i>DHDPSs</i>	0.0433	0.9055
<i>AKI+AK2</i>	<i>LKR-SDH1</i>	0.2791	0.4348
<i>AKI+AK2</i>	<i>SAMS1</i>	-0.3232	0.3623
<i>AKI+AK2</i>	<i>SAMS2</i>	0.0725	0.8423
<i>AKI+AK2</i>	<i>SAMS3</i>	-0.2420	0.5005
<i>AKI+AK2</i>	<i>SAMS4</i>	-0.3061	0.3897
<i>AKI+AK2</i>	<i>SAMSs</i>	-0.3406	0.3355
<i>AKI+AK2</i>	<i>TD1</i>	-0.0540	0.8822
<i>AKI+AK2</i>	<i>THA1</i>	-0.0483	0.8946
<i>AKI+AK2</i>	<i>THA2</i>	0.4729	0.1675
<i>AKI+AK2</i>	<i>THAs</i>	0.5505	0.0991
<i>AKI+AK2</i>	<i>THAs+TD1</i>	0.0430	0.9062
<i>AKI+AK2</i>	<i>TS1</i>	0.0410	0.9105
<i>AKI+AK3</i>	<i>AKI</i>	0.6618	0.0371
<i>AKI+AK3</i>	<i>AK2</i>	-0.1891	0.6008
<i>AKI+AK3</i>	<i>AK2+AK3</i>	-0.0955	0.7930
<i>AKI+AK3</i>	<i>AK3</i>	0.4923	0.1483
<i>AKI+AK3</i>	<i>AK-HSDH1</i>	0.0220	0.9520
<i>AKI+AK3</i>	<i>AK-HSDH2</i>	0.3268	0.3568
<i>AKI+AK3</i>	<i>AK-HSDHs</i>	0.2214	0.5387
<i>AKI+AK3</i>	<i>AKs</i>	0.0389	0.9151
<i>AKI+AK3</i>	<i>AKs+AK-HSDHs</i>	0.0991	0.7853
<i>AKI+AK3</i>	<i>BCAT1</i>	-0.1057	0.7714
<i>AKI+AK3</i>	Biosynthetic genes analyzed	-0.0406	0.9114
<i>AKI+AK3</i>	Catabolic genes analyzed	0.1867	0.6055
<i>AKI+AK3</i>	<i>CGS1</i>	-0.3729	0.2885
<i>AKI+AK3</i>	<i>DHDPS1</i>	0.1550	0.6689
<i>AKI+AK3</i>	<i>DHDPS2</i>	0.0697	0.8482
<i>AKI+AK3</i>	<i>DHDPSs</i>	0.1743	0.6301
<i>AKI+AK3</i>	<i>LKR-SDH1</i>	0.0119	0.9740
<i>AKI+AK3</i>	<i>SAMS1</i>	0.0325	0.9289
<i>AKI+AK3</i>	<i>SAMS2</i>	0.0787	0.8290
<i>AKI+AK3</i>	<i>SAMS3</i>	0.2206	0.5403
<i>AKI+AK3</i>	<i>SAMS4</i>	0.0927	0.7990
<i>AKI+AK3</i>	<i>SAMSs</i>	0.1884	0.6021
<i>AKI+AK3</i>	<i>TD1</i>	0.0846	0.8163
<i>AKI+AK3</i>	<i>THA1</i>	-0.1250	0.7309
<i>AKI+AK3</i>	<i>THA2</i>	-0.5284	0.1164
<i>AKI+AK3</i>	<i>THAs</i>	-0.4794	0.1609
<i>AKI+AK3</i>	<i>THAs+TD1</i>	-0.0186	0.9594
<i>AKI+AK3</i>	<i>TS1</i>	-0.1204	0.7403

<i>AK2</i>	<i>AK1</i>	-0.2735	0.4445
<i>AK2+AK3</i>	<i>AK1</i>	-0.3198	0.3677
<i>AK2+AK3</i>	<i>AK2</i>	0.9848	<.0001
<i>AK2+AK3</i>	<i>AK3</i>	0.2414	0.5017
<i>AK2+AK3</i>	<i>AK-HSDH1</i>	-0.4771	0.1632
<i>AK2+AK3</i>	<i>AK-HSDH2</i>	-0.0168	0.9632
<i>AK2+AK3</i>	<i>AK-HSDHs</i>	-0.2792	0.4347
<i>AK2+AK3</i>	<i>AKs</i>	0.9799	<.0001
<i>AK2+AK3</i>	<i>AKs+AK-HSDHs</i>	0.9437	<.0001
<i>AK2+AK3</i>	<i>BCAT1</i>	-0.1159	0.7498
<i>AK2+AK3</i>	<i>Biosynthetic genes analyzed</i>	0.7240	0.0179
<i>AK2+AK3</i>	Catabolic genes analyzed	-0.3259	0.3581
<i>AK2+AK3</i>	<i>CGS1</i>	0.0420	0.9082
<i>AK2+AK3</i>	<i>DHDPS1</i>	0.0854	0.8146
<i>AK2+AK3</i>	<i>DHDPS2</i>	0.0017	0.9963
<i>AK2+AK3</i>	<i>DHDPSs</i>	0.0512	0.8882
<i>AK2+AK3</i>	<i>LKR-SDH1</i>	0.3157	0.3742
<i>AK2+AK3</i>	<i>SAMS1</i>	-0.1793	0.6202
<i>AK2+AK3</i>	<i>SAMS2</i>	0.1802	0.6183
<i>AK2+AK3</i>	<i>SAMS3</i>	-0.3204	0.3668
<i>AK2+AK3</i>	<i>SAMS4</i>	-0.2258	0.5304
<i>AK2+AK3</i>	<i>SAMSS</i>	-0.3291	0.3531
<i>AK2+AK3</i>	<i>TD1</i>	0.0526	0.8853
<i>AK2+AK3</i>	<i>THA1</i>	-0.0163	0.9644
<i>AK2+AK3</i>	<i>THA2</i>	0.5458	0.1026
<i>AK2+AK3</i>	<i>THAs</i>	0.6176	0.0571
<i>AK2+AK3</i>	<i>THAs+TD1</i>	0.1592	0.6605
<i>AK2+AK3</i>	<i>TS1</i>	0.1108	0.7606
<i>AK3</i>	<i>AK1</i>	-0.3266	0.3570
<i>AK3</i>	<i>AK2</i>	0.0693	0.8491
<i>AK-HSDH1</i>	<i>AK1</i>	0.0812	0.8236
<i>AK-HSDH1</i>	<i>AK2</i>	-0.4794	0.1609
<i>AK-HSDH1</i>	<i>AK3</i>	-0.0695	0.8486
<i>AK-HSDH2</i>	<i>AK1</i>	0.1105	0.7613
<i>AK-HSDH2</i>	<i>AK2</i>	-0.0691	0.8495
<i>AK-HSDH2</i>	<i>AK3</i>	0.2856	0.4238
<i>AK-HSDH2</i>	<i>AK-HSDH1</i>	0.3527	0.3174
<i>AK-HSDHs</i>	<i>AK1</i>	0.1181	0.7453
<i>AK-HSDHs</i>	<i>AK2</i>	-0.3135	0.3777
<i>AK-HSDHs</i>	<i>AK3</i>	0.1416	0.6964
<i>AK-HSDHs</i>	<i>AK-HSDH1</i>	0.7926	0.0062
<i>AK-HSDHs</i>	<i>AK-HSDH2</i>	0.8501	0.0018
<i>AK-HSDHs</i>	<i>AKs</i>	-0.2694	0.4516
<i>AK-HSDHs</i>	<i>AKs+AK-HSDHs</i>	-0.0160	0.9649
<i>AK-HSDHs</i>	<i>BCAT1</i>	-0.0938	0.7966
<i>AK-HSDHs</i>	<i>CGS1</i>	0.6403	0.0461
<i>AK-HSDHs</i>	<i>DHDPS1</i>	-0.0782	0.8300
<i>AK-HSDHs</i>	<i>DHDPS2</i>	0.7538	0.0118
<i>AK-HSDHs</i>	<i>LKR-SDH1</i>	-0.7655	0.0099
<i>AK-HSDHs</i>	<i>SAMS1</i>	0.2522	0.4822
<i>AK-HSDHs</i>	<i>SAMS2</i>	0.1636	0.6515
<i>AK-HSDHs</i>	<i>SAMS3</i>	0.8389	0.0024
<i>AK-HSDHs</i>	<i>SAMS4</i>	0.8532	0.0017
<i>AK-HSDHs</i>	<i>TD1</i>	0.4833	0.1571
<i>AK-HSDHs</i>	<i>THA1</i>	-0.5544	0.0963
<i>AK-HSDHs</i>	<i>THA2</i>	-0.2885	0.4188
<i>AK-HSDHs</i>	<i>TS1</i>	0.5890	0.0732

<i>AK-HSDHs+CGS1</i>	<i>AK1</i>	-0.1386	0.7026
<i>AK-HSDHs+CGS1</i>	<i>AK1+AK2</i>	-0.1944	0.5905
<i>AK-HSDHs+CGS1</i>	<i>AK1+AK3</i>	-0.0725	0.8423
<i>AK-HSDHs+CGS1</i>	<i>AK2</i>	-0.1578	0.6633
<i>AK-HSDHs+CGS1</i>	<i>AK2+AK3</i>	-0.1417	0.6961
<i>AK-HSDHs+CGS1</i>	<i>AK3</i>	0.0691	0.8496
<i>AK-HSDHs+CGS1</i>	<i>AK-HSDH1</i>	0.6701	0.0340
<i>AK-HSDHs+CGS1</i>	<i>AK-HSDH2</i>	0.8192	0.0037
<i>AK-HSDHs+CGS1</i>	<i>AK-HSDHs</i>	0.9122	0.0002
<i>AK-HSDHs+CGS1</i>	<i>AKs</i>	-0.1790	0.6208
<i>AK-HSDHs+CGS1</i>	<i>AKs+AK-HSDHs</i>	0.0548	0.8805
<i>AK-HSDHs+CGS1</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.2567	0.4739
<i>AK-HSDHs+CGS1</i>	<i>AKs+AK-HSDHs+DHDPSSs</i>	0.0733	0.8405
<i>AK-HSDHs+CGS1</i>	<i>AKs+DHDPSSs</i>	-0.1579	0.6630
<i>AK-HSDHs+CGS1</i>	<i>BCAT1</i>	-0.2044	0.5711
<i>AK-HSDHs+CGS1</i>	Biosynthetic genes analyzed	0.4934	0.1472
<i>AK-HSDHs+CGS1</i>	Catabolic genes analyzed	0.8328	0.0028
<i>AK-HSDHs+CGS1</i>	<i>CGS1</i>	0.8988	0.0004
<i>AK-HSDHs+CGS1</i>	<i>DHDPS1</i>	-0.1091	0.7641
<i>AK-HSDHs+CGS1</i>	<i>DHDPS2</i>	0.8102	0.0045
<i>AK-HSDHs+CGS1</i>	<i>DHDPSs</i>	0.4856	0.1548
<i>AK-HSDHs+CGS1</i>	<i>LKR-SDH1</i>	-0.7948	0.0060
<i>AK-HSDHs+CGS1</i>	<i>SAMS1</i>	0.3476	0.3251
<i>AK-HSDHs+CGS1</i>	<i>SAMS2</i>	0.2417	0.5011
<i>AK-HSDHs+CGS1</i>	<i>SAMS3</i>	0.7589	0.0109
<i>AK-HSDHs+CGS1</i>	<i>SAMS4</i>	0.8784	0.0008
<i>AK-HSDHs+CGS1</i>	<i>SAMsS</i>	0.8326	0.0028
<i>AK-HSDHs+CGS1</i>	<i>TD1</i>	0.5644	0.0892
<i>AK-HSDHs+CGS1</i>	<i>THA1</i>	-0.7042	0.0230
<i>AK-HSDHs+CGS1</i>	<i>THA2</i>	0.0514	0.8878
<i>AK-HSDHs+CGS1</i>	<i>THAs</i>	-0.0662	0.8558
<i>AK-HSDHs+CGS1</i>	<i>THAs+TD1</i>	0.5373	0.1092
<i>AK-HSDHs+CGS1</i>	<i>TS1</i>	0.6734	0.0328
<i>AK-HSDHs+TS1</i>	<i>AK1</i>	-0.1502	0.6788
<i>AK-HSDHs+TS1</i>	<i>AK1+AK2</i>	-0.0710	0.8454
<i>AK-HSDHs+TS1</i>	<i>AK1+AK3</i>	-0.0166	0.9637
<i>AK-HSDHs+TS1</i>	<i>AK2</i>	-0.0375	0.9180
<i>AK-HSDHs+TS1</i>	<i>AK2+AK3</i>	-0.0101	0.9779
<i>AK-HSDHs+TS1</i>	<i>AK3</i>	0.1486	0.6820
<i>AK-HSDHs+TS1</i>	<i>AK-HSDH1</i>	0.6649	0.0359
<i>AK-HSDHs+TS1</i>	<i>AK-HSDH2</i>	0.6329	0.0495
<i>AK-HSDHs+TS1</i>	<i>AK-HSDHs</i>	0.7879	0.0068
<i>AK-HSDHs+TS1</i>	<i>AK-HSDHs+CGS1</i>	0.8230	0.0034
<i>AK-HSDHs+TS1</i>	<i>AKs</i>	-0.0431	0.9058
<i>AK-HSDHs+TS1</i>	<i>AKs+AK-HSDHs</i>	0.1626	0.6536
<i>AK-HSDHs+TS1</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.3145	0.3761
<i>AK-HSDHs+TS1</i>	<i>AKs+AK-HSDHs+DHDPSSs</i>	0.1897	0.5996
<i>AK-HSDHs+TS1</i>	<i>AKs+AK-HSDHs+TS1</i>	0.5810	0.0782
<i>AK-HSDHs+TS1</i>	<i>AKs+DHDPSSs</i>	-0.0134	0.9708
<i>AK-HSDHs+TS1</i>	<i>BCAT1</i>	-0.2235	0.5349
<i>AK-HSDHs+TS1</i>	Biosynthetic genes analyzed	0.6660	0.0355
<i>AK-HSDHs+TS1</i>	Catabolic genes analyzed	0.7013	0.0238
<i>AK-HSDHs+TS1</i>	<i>CGS1</i>	0.7024	0.0235
<i>AK-HSDHs+TS1</i>	<i>DHDPS1</i>	0.3110	0.3818
<i>AK-HSDHs+TS1</i>	<i>DHDPS2</i>	0.8003	0.0054
<i>AK-HSDHs+TS1</i>	<i>DHDPSs</i>	0.7319	0.0161
<i>AK-HSDHs+TS1</i>	<i>LKR-SDH1</i>	-0.3926	0.2618

<i>AK-HSDHs+TSI</i>	<i>SAMS1</i>	0.3351	0.3439
<i>AK-HSDHs+TSI</i>	<i>SAMS2</i>	0.5872	0.0743
<i>AK-HSDHs+TSI</i>	<i>SAMS3</i>	0.5818	0.0777
<i>AK-HSDHs+TSI</i>	<i>SAMS4</i>	0.8127	0.0043
<i>AK-HSDHs+TSI</i>	<i>SAMsS</i>	0.6976	0.0249
<i>AK-HSDHs+TSI</i>	<i>TDI</i>	0.7033	0.0233
<i>AK-HSDHs+TSI</i>	<i>THA1</i>	-0.4059	0.2445
<i>AK-HSDHs+TSI</i>	<i>THA2</i>	0.1415	0.6966
<i>AK-HSDHs+TSI</i>	<i>THAs</i>	0.0879	0.8091
<i>AK-HSDHs+TSI</i>	<i>THAs+TDI</i>	0.7045	0.0229
<i>AK-HSDHs+TSI</i>	<i>TSI</i>	0.9617	<.0001
<i>AK-HSDHs+TSI+TDI</i>	<i>AK1</i>	-0.1598	0.6593
<i>AK-HSDHs+TSI+TDI</i>	<i>AK1+AK2</i>	-0.0702	0.8472
<i>AK-HSDHs+TSI+TDI</i>	<i>AK1+AK3</i>	-0.0068	0.9852
<i>AK-HSDHs+TSI+TDI</i>	<i>AK2</i>	-0.0347	0.9242
<i>AK-HSDHs+TSI+TDI</i>	<i>AK2+AK3</i>	-0.0033	0.9927
<i>AK-HSDHs+TSI+TDI</i>	<i>AK3</i>	0.1722	0.6344
<i>AK-HSDHs+TSI+TDI</i>	<i>AK-HSDH1</i>	0.6305	0.0507
<i>AK-HSDHs+TSI+TDI</i>	<i>AK-HSDH2</i>	0.6458	0.0437
<i>AK-HSDHs+TSI+TDI</i>	<i>AK-HSDHs</i>	0.7769	0.0082
<i>AK-HSDHs+TSI+TDI</i>	<i>AK-HSDHs+CGS1</i>	0.8177	0.0039
<i>AK-HSDHs+TSI+TDI</i>	<i>AK-HSDHs+TSI</i>	0.9976	<.0001
<i>AK-HSDHs+TSI+TDI</i>	<i>AK-HSDHs+TSI+THAs</i>	0.9974	<.0001
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs</i>	-0.0381	0.9169
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs+AK-HSDHs</i>	0.1651	0.6486
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.3172	0.3718
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1936	0.5920
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs+AK-HSDHs+TSI</i>	0.5837	0.0765
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.6131	0.0595
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.5801	0.0788
<i>AK-HSDHs+TSI+TDI</i>	<i>AKs+DHDPSS</i>	-0.0068	0.9851
<i>AK-HSDHs+TSI+TDI</i>	<i>BCAT1</i>	-0.2816	0.4306
<i>AK-HSDHs+TSI+TDI</i>	Biosynthetic genes analyzed	0.6698	0.0341
<i>AK-HSDHs+TSI+TDI</i>	Catabolic genes analyzed	0.7163	0.0198
<i>AK-HSDHs+TSI+TDI</i>	<i>CGS1</i>	0.7046	0.0229
<i>AK-HSDHs+TSI+TDI</i>	<i>DHDPS1</i>	0.3482	0.3242
<i>AK-HSDHs+TSI+TDI</i>	<i>DHDPS2</i>	0.8212	0.0036
<i>AK-HSDHs+TSI+TDI</i>	<i>DHDPSs</i>	0.7698	0.0092
<i>AK-HSDHs+TSI+TDI</i>	<i>LKR-SDH1</i>	-0.3721	0.2897
<i>AK-HSDHs+TSI+TDI</i>	<i>SAMS1</i>	0.3933	0.2608
<i>AK-HSDHs+TSI+TDI</i>	<i>SAMS2</i>	0.6321	0.0499
<i>AK-HSDHs+TSI+TDI</i>	<i>SAMS3</i>	0.5690	0.0860
<i>AK-HSDHs+TSI+TDI</i>	<i>SAMS4</i>	0.8280	0.0031
<i>AK-HSDHs+TSI+TDI</i>	<i>SAMsS</i>	0.7127	0.0207
<i>AK-HSDHs+TSI+TDI</i>	<i>TDI</i>	0.7503	0.0124
<i>AK-HSDHs+TSI+TDI</i>	<i>THA1</i>	-0.4081	0.2418
<i>AK-HSDHs+TSI+TDI</i>	<i>THA2</i>	0.1431	0.6933
<i>AK-HSDHs+TSI+TDI</i>	<i>THAs</i>	0.0920	0.8005
<i>AK-HSDHs+TSI+TDI</i>	<i>THAs+TDI</i>	0.7502	0.0124
<i>AK-HSDHs+TSI+TDI</i>	<i>TSI</i>	0.9633	<.0001
<i>AK-HSDHs+TSI+THAs</i>	<i>AK1</i>	-0.1606	0.6577
<i>AK-HSDHs+TSI+THAs</i>	<i>AK1+AK2</i>	-0.0617	0.8656
<i>AK-HSDHs+TSI+THAs</i>	<i>AK1+AK3</i>	-0.0274	0.9401
<i>AK-HSDHs+TSI+THAs</i>	<i>AK2</i>	-0.0264	0.9424
<i>AK-HSDHs+TSI+THAs</i>	<i>AK2+AK3</i>	0.0004	0.9991
<i>AK-HSDHs+TSI+THAs</i>	<i>AK3</i>	0.1470	0.6853
<i>AK-HSDHs+TSI+THAs</i>	<i>AK-HSDH1</i>	0.6583	0.0385

<i>AK-HSDHs+TS1+THAs</i>	<i>AK-HSDH2</i>	0.6227	0.0545
<i>AK-HSDHs+TS1+THAs</i>	<i>AK-HSDHs</i>	0.7777	0.0081
<i>AK-HSDHs+TS1+THAs</i>	<i>AK-HSDHs+CGS1</i>	0.8192	0.0037
<i>AK-HSDHs+TS1+THAs</i>	<i>AK-HSDHs+TS1</i>	0.9998	<.0001
<i>AK-HSDHs+TS1+THAs</i>	<i>AKs</i>	-0.0343	0.9251
<i>AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs</i>	0.1691	0.6405
<i>AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.3216	0.3649
<i>AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1961	0.5872
<i>AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs+TS1</i>	0.5881	0.0737
<i>AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.5848	0.0758
<i>AK-HSDHs+TS1+THAs</i>	<i>AKs+DHDPSS</i>	-0.0046	0.9899
<i>AK-HSDHs+TS1+THAs</i>	<i>BCAT1</i>	-0.2246	0.5327
<i>AK-HSDHs+TS1+THAs</i>	Biosynthetic genes analyzed	0.6730	0.0329
<i>AK-HSDHs+TS1+THAs</i>	Catabolic genes analyzed	0.6918	0.0267
<i>AK-HSDHs+TS1+THAs</i>	<i>CGS1</i>	0.7063	0.0224
<i>AK-HSDHs+TS1+THAs</i>	<i>DHDPS1</i>	0.3156	0.3744
<i>AK-HSDHs+TS1+THAs</i>	<i>DHDPS2</i>	0.7943	0.0061
<i>AK-HSDHs+TS1+THAs</i>	<i>DHDPSs</i>	0.7301	0.0165
<i>AK-HSDHs+TS1+THAs</i>	<i>LKR-SDH1</i>	-0.3833	0.2743
<i>AK-HSDHs+TS1+THAs</i>	<i>SAMS1</i>	0.3322	0.3483
<i>AK-HSDHs+TS1+THAs</i>	<i>SAMS2</i>	0.5930	0.0708
<i>AK-HSDHs+TS1+THAs</i>	<i>SAMS3</i>	0.5714	0.0844
<i>AK-HSDHs+TS1+THAs</i>	<i>SAMS4</i>	0.8058	0.0049
<i>AK-HSDHs+TS1+THAs</i>	<i>SAMSs</i>	0.6881	0.0278
<i>AK-HSDHs+TS1+THAs</i>	<i>TD1</i>	0.7024	0.0235
<i>AK-HSDHs+TS1+THAs</i>	<i>THA1</i>	-0.4048	0.2458
<i>AK-HSDHs+TS1+THAs</i>	<i>THA2</i>	0.1616	0.6556
<i>AK-HSDHs+TS1+THAs</i>	<i>THAs</i>	0.1084	0.7656
<i>AK-HSDHs+TS1+THAs</i>	<i>THAs+TD1</i>	0.7077	0.0220
<i>AK-HSDHs+TS1+THAs</i>	<i>TS1</i>	0.9660	<.0001
<i>AKs</i>	<i>AK1</i>	-0.1242	0.7325
<i>AKs</i>	<i>AK2</i>	0.9738	<.0001
<i>AKs</i>	<i>AK3</i>	0.1832	0.6124
<i>AKs</i>	<i>AK-HSDH1</i>	-0.4840	0.1563
<i>AKs</i>	<i>AK-HSDH2</i>	0.0039	0.9915
<i>AKs</i>	<i>AKs+AK-HSDHs</i>	0.9672	<.0001
<i>AKs</i>	<i>BCAT1</i>	-0.1010	0.7812
<i>AKs</i>	<i>CGS1</i>	-0.0381	0.9167
<i>AKs</i>	<i>DHDPS1</i>	0.1132	0.7554
<i>AKs</i>	<i>DHDPS2</i>	-0.0068	0.9852
<i>AKs</i>	<i>LKR-SDH1</i>	0.3043	0.3926
<i>AKs</i>	<i>SAMS1</i>	-0.2489	0.4880
<i>AKs</i>	<i>SAMS2</i>	0.1387	0.7023
<i>AKs</i>	<i>SAMS3</i>	-0.2625	0.4637
<i>AKs</i>	<i>SAMS4</i>	-0.2591	0.4697
<i>AKs</i>	<i>TD1</i>	0.0100	0.9781
<i>AKs</i>	<i>THA1</i>	-0.0465	0.8986
<i>AKs</i>	<i>THA2</i>	0.4576	0.1836
<i>AKs</i>	<i>TS1</i>	0.0634	0.8618
<i>AKs/AK-HSDHs</i>	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	1.0000	<.0001
<i>AKs/AK-HSDHs</i>	<i>AK1</i>	-0.2304	0.5219
<i>AKs/AK-HSDHs</i>	<i>AK1+AK2</i>	0.7242	0.0179
<i>AKs/AK-HSDHs</i>	<i>AK1+AK3</i>	-0.0715	0.8443
<i>AKs/AK-HSDHs</i>	<i>AK2</i>	0.7459	0.0132
<i>AKs/AK-HSDHs</i>	<i>AK2+AK3</i>	0.7548	0.0116
<i>AKs/AK-HSDHs</i>	<i>AK3</i>	0.1720	0.6347
<i>AKs/AK-HSDHs</i>	<i>AK-HSDH1</i>	-0.8182	0.0038

<i>AKs/AK-HSDHs</i>	<i>AK-HSDH2</i>	-0.5349	0.1111
<i>AKs/AK-HSDHs</i>	<i>AK-HSDHs</i>	-0.8097	0.0045
<i>AKs/AK-HSDHs</i>	<i>AK-HSDHs+CGS1</i>	-0.6860	0.0285
<i>AKs/AK-HSDHs</i>	<i>AK-HSDHs+TS1</i>	-0.5580	0.0937
<i>AKs/AK-HSDHs</i>	<i>AK-HSDHs+TS1+TD1</i>	-0.5412	0.1062
<i>AKs/AK-HSDHs</i>	<i>AK-HSDHs+TS1+THAs</i>	-0.5455	0.1029
<i>AKs/AK-HSDHs</i>	<i>AKs</i>	0.7432	0.0138
<i>AKs/AK-HSDHs</i>	<i>AKs+AK-HSDHs</i>	0.5584	0.0934
<i>AKs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.4326	0.2118
<i>AKs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+DHDPSs</i>	0.5420	0.1055
<i>AKs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+TS1</i>	0.2621	0.4645
<i>AKs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.2391	0.5058
<i>AKs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.2690	0.4524
<i>AKs/AK-HSDHs</i>	<i>AKs+DHDPSs</i>	0.7283	0.0169
<i>AKs/AK-HSDHs</i>	<i>BCAT1</i>	-0.0689	0.8501
<i>AKs/AK-HSDHs</i>	Biosynthetic genes analyzed	0.1569	0.6651
<i>AKs/AK-HSDHs</i>	Catabolic genes analyzed	-0.7172	0.0196
<i>AKs/AK-HSDHs</i>	<i>CGS1</i>	-0.4155	0.2324
<i>AKs/AK-HSDHs</i>	<i>DHDPS1</i>	0.1196	0.7420
<i>AKs/AK-HSDHs</i>	<i>DHDPS2</i>	-0.5194	0.1239
<i>AKs/AK-HSDHs</i>	<i>DHDPSs</i>	-0.2850	0.4248
<i>AKs/AK-HSDHs</i>	<i>LKR-SDH1</i>	0.6965	0.0252
<i>AKs/AK-HSDHs</i>	<i>SAMS1</i>	-0.2118	0.5569
<i>AKs/AK-HSDHs</i>	<i>SAMS2</i>	0.0328	0.9283
<i>AKs/AK-HSDHs</i>	<i>SAMS3</i>	-0.7288	0.0168
<i>AKs/AK-HSDHs</i>	<i>SAMS4</i>	-0.6735	0.0328
<i>AKs/AK-HSDHs</i>	<i>SAMSs</i>	-0.7192	0.0191
<i>AKs/AK-HSDHs</i>	<i>TD1</i>	-0.2550	0.4771
<i>AKs/AK-HSDHs</i>	<i>THA1</i>	0.3046	0.3921
<i>AKs/AK-HSDHs</i>	<i>THA2</i>	0.5020	0.1393
<i>AKs/AK-HSDHs</i>	<i>THAs</i>	0.6049	0.0639
<i>AKs/AK-HSDHs</i>	<i>THAs+TD1</i>	-0.1394	0.7010
<i>AKs/AK-HSDHs</i>	<i>TS1</i>	-0.3727	0.2888
<i>AKs+AK-HSDHs</i>	<i>AK1</i>	-0.0976	0.7886
<i>AKs+AK-HSDHs</i>	<i>AK2</i>	0.9284	0.0001
<i>AKs+AK-HSDHs</i>	<i>AK3</i>	0.2277	0.5268
<i>AKs+AK-HSDHs</i>	<i>AK-HSDH1</i>	-0.2938	0.4101
<i>AKs+AK-HSDHs</i>	<i>AK-HSDH2</i>	0.2284	0.5257
<i>AKs+AK-HSDHs</i>	<i>BCAT1</i>	-0.1306	0.7190
<i>AKs+AK-HSDHs</i>	<i>CGS1</i>	0.1294	0.7217
<i>AKs+AK-HSDHs</i>	<i>DHDPS1</i>	0.0976	0.7885
<i>AKs+AK-HSDHs</i>	<i>DHDPS2</i>	0.1918	0.5956
<i>AKs+AK-HSDHs</i>	<i>LKR-SDH1</i>	0.1141	0.7536
<i>AKs+AK-HSDHs</i>	<i>SAMS1</i>	-0.1910	0.5972
<i>AKs+AK-HSDHs</i>	<i>SAMS2</i>	0.1878	0.6034
<i>AKs+AK-HSDHs</i>	<i>SAMS3</i>	-0.0507	0.8893
<i>AKs+AK-HSDHs</i>	<i>SAMS4</i>	-0.0435	0.9050
<i>AKs+AK-HSDHs</i>	<i>TD1</i>	0.1387	0.7024
<i>AKs+AK-HSDHs</i>	<i>THA1</i>	-0.1951	0.5891
<i>AKs+AK-HSDHs</i>	<i>THA2</i>	0.3991	0.2532
<i>AKs+AK-HSDHs</i>	<i>TS1</i>	0.2207	0.5401
<i>AKs+AK-HSDHs+CGS1</i>	<i>AK1</i>	-0.1814	0.6159
<i>AKs+AK-HSDHs+CGS1</i>	<i>AKI+AK2</i>	0.8819	0.0007
<i>AKs+AK-HSDHs+CGS1</i>	<i>AK1+AK3</i>	0.0072	0.9842
<i>AKs+AK-HSDHs+CGS1</i>	<i>AK2</i>	0.8883	0.0006
<i>AKs+AK-HSDHs+CGS1</i>	<i>AK2+AK3</i>	0.9012	0.0004
<i>AKs+AK-HSDHs+CGS1</i>	<i>AK3</i>	0.2098	0.5608

<i>AKs+AK-HSDHs+CGS1</i>	<i>AK-HSDH1</i>	-0.1847	0.6095
<i>AKs+AK-HSDHs+CGS1</i>	<i>AK-HSDH2</i>	0.3585	0.3090
<i>AKs+AK-HSDHs+CGS1</i>	<i>AK-HSDHs</i>	0.1306	0.7191
<i>AKs+AK-HSDHs+CGS1</i>	<i>AKs</i>	0.9049	0.0003
<i>AKs+AK-HSDHs+CGS1</i>	<i>AKs+AK-HSDHs</i>	0.9740	<.0001
<i>AKs+AK-HSDHs+CGS1</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	0.9766	<.0001
<i>AKs+AK-HSDHs+CGS1</i>	<i>AKs+DHDPSS</i>	0.9133	0.0002
<i>AKs+AK-HSDHs+CGS1</i>	<i>BCAT1</i>	-0.1876	0.6038
Biosynthetic genes analyzed		0.9085	0.0003
<i>AKs+AK-HSDHs+CGS1</i>	Catabolic genes analyzed	0.0498	0.8913
<i>AKs+AK-HSDHs+CGS1</i>	<i>CGS1</i>	0.3506	0.3206
<i>AKs+AK-HSDHs+CGS1</i>	<i>DHDPS1</i>	0.0652	0.8580
<i>AKs+AK-HSDHs+CGS1</i>	<i>DHDPS2</i>	0.3445	0.3297
<i>AKs+AK-HSDHs+CGS1</i>	<i>DHDPSs</i>	0.2776	0.4374
<i>AKs+AK-HSDHs+CGS1</i>	<i>LKR-SDH1</i>	-0.0443	0.9032
<i>AKs+AK-HSDHs+CGS1</i>	<i>SAMS1</i>	-0.0942	0.7958
<i>AKs+AK-HSDHs+CGS1</i>	<i>SAMS2</i>	0.2415	0.5015
<i>AKs+AK-HSDHs+CGS1</i>	<i>SAMS3</i>	0.0709	0.8458
<i>AKs+AK-HSDHs+CGS1</i>	<i>SAMS4</i>	0.1259	0.7289
<i>AKs+AK-HSDHs+CGS1</i>	<i>SAMSs</i>	0.0472	0.8971
<i>AKs+AK-HSDHs+CGS1</i>	<i>TD1</i>	0.2546	0.4778
<i>AKs+AK-HSDHs+CGS1</i>	<i>THA1</i>	-0.3490	0.3229
<i>AKs+AK-HSDHs+CGS1</i>	<i>THA2</i>	0.4704	0.1700
<i>AKs+AK-HSDHs+CGS1</i>	<i>THAs</i>	0.4998	0.1413
<i>AKs+AK-HSDHs+CGS1</i>	<i>THAs+TD1</i>	0.3327	0.3475
<i>AKs+AK-HSDHs+CGS1</i>	<i>TS1</i>	0.3545	0.3148
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK1</i>	-0.0940	0.7963
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK1+AK2</i>	0.9355	<.0001
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK1+AK3</i>	0.1049	0.7730
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK2</i>	0.9216	0.0002
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK2+AK3</i>	0.9377	<.0001
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK3</i>	0.2308	0.5212
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK-HSDH1</i>	-0.2844	0.4258
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK-HSDH2</i>	0.2496	0.4868
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AK-HSDHs</i>	0.0031	0.9932
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AKs</i>	0.9616	<.0001
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>AKs+AK-HSDHs</i>	0.9993	<.0001
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>BCAT1</i>	-0.1565	0.6659
Biosynthetic genes analyzed		0.8442	0.0021
<i>AKs+AK-HSDHs+DHDPSS</i>	Catabolic genes analyzed	-0.0786	0.8292
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>CGS1</i>	0.1437	0.6920
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>DHDPS1</i>	0.1246	0.7315
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>DHDPS2</i>	0.2217	0.5382
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>DHDPSs</i>	0.2334	0.5164
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>LKR-SDH1</i>	0.1113	0.7595
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>SAMS1</i>	-0.1636	0.6516
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>SAMS2</i>	0.2187	0.5438
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>SAMS3</i>	-0.0369	0.9195
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>SAMS4</i>	-0.0175	0.9618
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>SAMSs</i>	-0.0812	0.8236
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>TD1</i>	0.1730	0.6327
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>THA1</i>	-0.2022	0.5754
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>THA2</i>	0.3946	0.2592
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>THAs</i>	0.4523	0.1893
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>THAs+TD1</i>	0.2432	0.4983
<i>AKs+AK-HSDHs+DHDPSS</i>	<i>TS1</i>	0.2477	0.4901
<i>AKs+AK-HSDHs+TS1</i>	<i>AK1</i>	-0.1941	0.5911

<i>AKs+AK-HSDHs+TS1</i>	<i>AK1+AK2</i>	0.7574	0.0112
<i>AKs+AK-HSDHs+TS1</i>	<i>AK1+AK3</i>	0.0206	0.9549
<i>AKs+AK-HSDHs+TS1</i>	<i>AK2</i>	0.7704	0.0091
<i>AKs+AK-HSDHs+TS1</i>	<i>AK2+AK3</i>	0.7921	0.0063
<i>AKs+AK-HSDHs+TS1</i>	<i>AK3</i>	0.2403	0.5037
<i>AKs+AK-HSDHs+TS1</i>	<i>AK-HSDH1</i>	0.0153	0.9666
<i>AKs+AK-HSDHs+TS1</i>	<i>AK-HSDH2</i>	0.3920	0.2626
<i>AKs+AK-HSDHs+TS1</i>	<i>AK-HSDHs</i>	0.2652	0.4590
<i>AKs+AK-HSDHs+TS1</i>	<i>AK-HSDHs+CGS1</i>	0.3606	0.3061
<i>AKs+AK-HSDHs+TS1</i>	<i>AKs</i>	0.7881	0.0068
<i>AKs+AK-HSDHs+TS1</i>	<i>AKs+AK-HSDHs</i>	0.8879	0.0006
<i>AKs+AK-HSDHs+TS1</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.9307	<.0001
<i>AKs+AK-HSDHs+TS1</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	0.9001	0.0004
<i>AKs+AK-HSDHs+TS1</i>	<i>AKs+DHDPSS</i>	0.8058	0.0049
<i>AKs+AK-HSDHs+TS1</i>	<i>BCAT1</i>	-0.2202	0.5410
Biosynthetic genes analyzed		0.9864	<.0001
<i>AKs+AK-HSDHs+TS1</i>	Catabolic genes analyzed	0.1732	0.6322
<i>AKs+AK-HSDHs+TS1</i>	<i>CGS1</i>	0.4012	0.2505
<i>AKs+AK-HSDHs+TS1</i>	<i>DHDPS1</i>	0.2851	0.4246
<i>AKs+AK-HSDHs+TS1</i>	<i>DHDPS2</i>	0.4868	0.1536
<i>AKs+AK-HSDHs+TS1</i>	<i>DHDPSs</i>	0.5062	0.1355
<i>AKs+AK-HSDHs+TS1</i>	<i>LKR-SDH1</i>	0.0074	0.9837
<i>AKs+AK-HSDHs+TS1</i>	<i>SAMS1</i>	0.0034	0.9925
<i>AKs+AK-HSDHs+TS1</i>	<i>SAMS2</i>	0.4755	0.1648
<i>AKs+AK-HSDHs+TS1</i>	<i>SAMS3</i>	0.1435	0.6925
<i>AKs+AK-HSDHs+TS1</i>	<i>SAMS4</i>	0.2887	0.4184
<i>AKs+AK-HSDHs+TS1</i>	<i>SAMSs</i>	0.1689	0.6409
<i>AKs+AK-HSDHs+TS1</i>	<i>TD1</i>	0.4414	0.2016
<i>AKs+AK-HSDHs+TS1</i>	<i>THA1</i>	-0.2865	0.4222
<i>AKs+AK-HSDHs+TS1</i>	<i>THA2</i>	0.4607	0.1803
<i>AKs+AK-HSDHs+TS1</i>	<i>THAs</i>	0.4942	0.1466
<i>AKs+AK-HSDHs+TS1</i>	<i>THAs+TD1</i>	0.5170	0.1260
<i>AKs+AK-HSDHs+TS1</i>	<i>TS1</i>	0.6446	0.0442
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK1</i>	-0.2012	0.5773
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK1+AK2</i>	0.7323	0.0160
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK1+AK3</i>	0.0262	0.9427
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK2</i>	0.7477	0.0129
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK2+AK3</i>	0.7726	0.0088
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK3</i>	0.2557	0.4759
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK-HSDH1</i>	0.0231	0.9496
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK-HSDH2</i>	0.4191	0.2279
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK-HSDHs</i>	0.2873	0.4210
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK-HSDHs+CGS1</i>	0.3846	0.2724
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK-HSDHs+TS1</i>	0.6075	0.0625
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AK-HSDHs+TS1+THAs</i>	0.6143	0.0588
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AKs</i>	0.7661	0.0098
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AKs+AK-HSDHs</i>	0.8710	0.0010
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.9196	0.0002
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	0.8850	0.0007
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AKs+AK-HSDHs+TS1</i>	0.9984	<.0001
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.9982	<.0001
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>AKs+DHDPSS</i>	0.7856	0.0071
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>BCAT1</i>	-0.2615	0.4655
Biosynthetic genes analyzed		0.9898	<.0001
<i>AKs+AK-HSDHs+TS1+TD1</i>	Catabolic genes analyzed	0.2111	0.5582
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>CGS1</i>	0.4228	0.2235
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>DHDPS1</i>	0.3136	0.3776

<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>DHDPS2</i>	0.5233	0.1206
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>DHDPSs</i>	0.5489	0.1003
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>LKR-SDH1</i>	0.0011	0.9976
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>SAMS1</i>	0.0569	0.8760
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>SAMS2</i>	0.5163	0.1266
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>SAMS3</i>	0.1588	0.6612
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>SAMS4</i>	0.3282	0.3546
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>SAMSS</i>	0.2067	0.5666
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>TD1</i>	0.4911	0.1495
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>THA1</i>	-0.2985	0.4021
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>THA2</i>	0.4526	0.1890
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>THAs</i>	0.4841	0.1562
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>THAs+TD1</i>	0.5632	0.0900
<i>AKs+AK-HSDHs+TS1+TD1</i>	<i>TSI</i>	0.6694	0.0343
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK1</i>	-0.1994	0.5808
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK1+AK2</i>	0.7605	0.0107
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK1+AK3</i>	0.0140	0.9694
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK2</i>	0.7745	0.0085
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK2+AK3</i>	0.7956	0.0059
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK3</i>	0.2380	0.5079
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK-HSDH1</i>	0.0110	0.9760
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK-HSDH2</i>	0.3843	0.2729
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK-HSDHs</i>	0.2578	0.4721
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK-HSDHs+CGS1</i>	0.3569	0.3113
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AK-HSDHs+TS1</i>	0.5774	0.0805
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AKs</i>	0.7907	0.0065
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs</i>	0.8887	0.0006
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.9317	<.0001
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs+DHDPSs</i>	0.9007	0.0004
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AKs+AK-HSDHs+TS1</i>	0.9999	<.0001
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>AKs+DHDPSs</i>	0.8082	0.0047
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>BCAT1</i>	-0.2188	0.5437
<i>AKs+AK-HSDHs+TS1+THAs</i>	Biosynthetic genes analyzed	0.9863	<.0001
<i>AKs+AK-HSDHs+TS1+THAs</i>	Catabolic genes analyzed	0.1675	0.6436
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>CGS1</i>	0.4023	0.2491
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>DHDPS1</i>	0.2846	0.4255
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>DHDPS2</i>	0.4811	0.1593
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>DHDPSs</i>	0.5016	0.1396
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>LKR-SDH1</i>	0.0115	0.9749
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>SAMS1</i>	0.0010	0.9977
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>SAMS2</i>	0.4753	0.1650
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>SAMS3</i>	0.1380	0.7039
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>SAMS4</i>	0.2838	0.4269
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>SAMSS</i>	0.1632	0.6524
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>TD1</i>	0.4382	0.2052
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>THA1</i>	-0.2866	0.4220
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>THA2</i>	0.4709	0.1695
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>THAs</i>	0.5043	0.1372
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>THAs+TD1</i>	0.5160	0.1268
<i>AKs+AK-HSDHs+TS1+THAs</i>	<i>TSI</i>	0.6432	0.0448
<i>AKs+DHDPSs</i>	<i>AK1</i>	-0.1213	0.7384
<i>AKs+DHDPSs</i>	<i>AK1+AK2</i>	0.9817	<.0001
<i>AKs+DHDPSs</i>	<i>AK1+AK3</i>	0.0451	0.9016
<i>AKs+DHDPSs</i>	<i>AK2</i>	0.9717	<.0001
<i>AKs+DHDPSs</i>	<i>AK2+AK3</i>	0.9785	<.0001
<i>AKs+DHDPSs</i>	<i>AK3</i>	0.1876	0.6038
<i>AKs+DHDPSs</i>	<i>AK-HSDH1</i>	-0.4751	0.1652

<i>AKs+DHDPSS</i>	<i>AK-HSDH2</i>	0.0284	0.9379
<i>AKs+DHDPSS</i>	<i>AK-HSDHs</i>	-0.2484	0.4890
<i>AKs+DHDPSS</i>	<i>AKs</i>	0.9992	<.0001
<i>AKs+DHDPSS</i>	<i>AKs+AK-HSDHs</i>	0.9720	<.0001
<i>AKs+DHDPSS</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	0.9679	<.0001
<i>AKs+DHDPSS</i>	<i>BCAT1</i>	-0.1289	0.7227
<i>AKs+DHDPSS</i>	Biosynthetic genes analyzed	0.7272	0.0172
<i>AKs+DHDPSS</i>	Catabolic genes analyzed	-0.2899	0.4165
<i>AKs+DHDPSS</i>	<i>CGS1</i>	-0.0210	0.9541
<i>AKs+DHDPSS</i>	<i>DHDPS1</i>	0.1411	0.6975
<i>AKs+DHDPSS</i>	<i>DHDPS2</i>	0.0262	0.9426
<i>AKs+DHDPSS</i>	<i>DHDPSs</i>	0.1073	0.7679
<i>AKs+DHDPSS</i>	<i>LKR-SDH1</i>	0.3005	0.3989
<i>AKs+DHDPSS</i>	<i>SAMS1</i>	-0.2211	0.5392
<i>AKs+DHDPSS</i>	<i>SAMS2</i>	0.1716	0.6354
<i>AKs+DHDPSS</i>	<i>SAMS3</i>	-0.2473	0.4909
<i>AKs+DHDPSS</i>	<i>SAMS4</i>	-0.2312	0.5204
<i>AKs+DHDPSS</i>	<i>SAMSS</i>	-0.2926	0.4120
<i>AKs+DHDPSS</i>	<i>TD1</i>	0.0468	0.8978
<i>AKs+DHDPSS</i>	<i>THA1</i>	-0.0561	0.8777
<i>AKs+DHDPSS</i>	<i>THA2</i>	0.4551	0.1863
<i>AKs+DHDPSS</i>	<i>THAs</i>	0.5366	0.1098
<i>AKs+DHDPSS</i>	<i>THAs+TD1</i>	0.1368	0.7062
<i>AKs+DHDPSS</i>	<i>TS1</i>	0.0931	0.7980
<i>BCAT1</i>	<i>AK1</i>	0.0978	0.7881
<i>BCAT1</i>	<i>AK2</i>	-0.0757	0.8353
<i>BCAT1</i>	<i>AK3</i>	-0.2499	0.4862
<i>BCAT1</i>	<i>AK-HSDH1</i>	0.3455	0.3281
<i>BCAT1</i>	<i>AK-HSDH2</i>	-0.4400	0.2032
<i>BCAT1</i>	<i>CGS1</i>	-0.2863	0.4226
<i>BCAT1</i>	<i>DHDPS1</i>	-0.6254	0.0531
<i>BCAT1</i>	<i>DHDPS2</i>	-0.4806	0.1597
<i>BCAT1</i>	<i>LKR-SDH1</i>	-0.1498	0.6795
<i>BCAT1</i>	<i>SAMS1</i>	-0.8325	0.0028
<i>BCAT1</i>	<i>SAMS2</i>	-0.7326	0.0160
<i>BCAT1</i>	<i>SAMS3</i>	0.1221	0.7369
<i>BCAT1</i>	<i>SAMS4</i>	-0.2971	0.4044
<i>BCAT1</i>	<i>TD1</i>	-0.7622	0.0104
<i>BCAT1</i>	<i>THA1</i>	0.1192	0.7428
<i>BCAT1</i>	<i>THA2</i>	-0.1096	0.7631
<i>BCAT1</i>	<i>TS1</i>	-0.2504	0.4853
<i>BCAT1</i>	<i>AK1</i>	-0.2397	0.5047
Biosynthetic genes analyzed	<i>AK2</i>	0.7050	0.0228
Biosynthetic genes analyzed	<i>AK3</i>	0.2170	0.5470
Biosynthetic genes analyzed	<i>AK-HSDH1</i>	0.0880	0.8090
Biosynthetic genes analyzed	<i>AK-HSDH2</i>	0.4788	0.1615
Biosynthetic genes analyzed	<i>AK-HSDHs</i>	0.3630	0.3025
Biosynthetic genes analyzed	<i>AKs</i>	0.7071	0.0222
Biosynthetic genes analyzed	<i>AKs+AK-HSDHs</i>	0.8297	0.0030
Biosynthetic genes analyzed	<i>BCAT1</i>	-0.2673	0.4552
Biosynthetic genes analyzed	<i>CGS1</i>	0.5450	0.1033
Biosynthetic genes analyzed	<i>DHDPS1</i>	0.2574	0.4727
Biosynthetic genes analyzed	<i>DHDPS2</i>	0.5858	0.0752
Biosynthetic genes analyzed	<i>DHDPSs</i>	0.5550	0.0958
Biosynthetic genes analyzed	<i>LKR-SDH1</i>	-0.1093	0.7638
Biosynthetic genes analyzed	<i>SAMS1</i>	0.0874	0.8103
Biosynthetic genes analyzed	<i>SAMS2</i>	0.5013	0.1399

Biosynthetic genes analyzed	<i>SAMS3</i>	0.2291	0.5243
Biosynthetic genes analyzed	<i>SAMS4</i>	0.4054	0.2452
Biosynthetic genes analyzed	<i>SAMSS</i>	0.2816	0.4306
Biosynthetic genes analyzed	<i>TD1</i>	0.5178	0.1253
Biosynthetic genes analyzed	<i>THA1</i>	-0.3894	0.2660
Biosynthetic genes analyzed	<i>THA2</i>	0.4845	0.1558
Biosynthetic genes analyzed	<i>THAs</i>	0.4961	0.1447
Biosynthetic genes analyzed	<i>TS1</i>	0.7124	0.0208
Catabolic genes analyzed	<i>AK1</i>	0.1243	0.7323
Catabolic genes analyzed	<i>AK2</i>	-0.3511	0.3199
Catabolic genes analyzed	<i>AK3</i>	0.0881	0.8087
Catabolic genes analyzed	<i>AK-HSDH1</i>	0.6038	0.0645
Catabolic genes analyzed	<i>AK-HSDH2</i>	0.7832	0.0074
Catabolic genes analyzed	<i>AK-HSDHs</i>	0.8495	0.0019
Catabolic genes analyzed	<i>AKs</i>	-0.3165	0.3729
Catabolic genes analyzed	<i>AKs+AK-HSDHs</i>	-0.1037	0.7756
Catabolic genes analyzed	<i>BCAT1</i>	-0.2748	0.4423
Catabolic genes analyzed	Biosynthetic genes analyzed	0.2857	0.4235
Catabolic genes analyzed	<i>CGS1</i>	0.6532	0.0406
Catabolic genes analyzed	<i>DHDPS1</i>	0.0468	0.8978
Catabolic genes analyzed	<i>DHDPS2</i>	0.8364	0.0026
Catabolic genes analyzed	<i>DHDPSs</i>	0.6189	0.0564
Catabolic genes analyzed	<i>LKR-SDH1</i>	-0.7159	0.0199
Catabolic genes analyzed	<i>SAMS1</i>	0.5235	0.1204
Catabolic genes analyzed	<i>SAMS2</i>	0.3217	0.3647
Catabolic genes analyzed	<i>SAMS3</i>	0.8832	0.0007
Catabolic genes analyzed	<i>SAMS4</i>	0.9615	<.0001
Catabolic genes analyzed	<i>SAMSS</i>	1.0000	<.0001
Catabolic genes analyzed	<i>TD1</i>	0.6879	0.0279
Catabolic genes analyzed	<i>THA1</i>	-0.6937	0.0261
Catabolic genes analyzed	<i>THA2</i>	-0.2401	0.5041
Catabolic genes analyzed	<i>THAs</i>	-0.3374	0.3404
Catabolic genes analyzed	<i>TS1</i>	0.5402	0.1070
<i>CGS1</i>	<i>AK1</i>	-0.3876	0.2684
<i>CGS1</i>	<i>AK2</i>	0.0487	0.8937
<i>CGS1</i>	<i>AK3</i>	-0.0205	0.9551
<i>CGS1</i>	<i>AK-HSDH1</i>	0.4040	0.2469
<i>CGS1</i>	<i>AK-HSDH2</i>	0.6301	0.0509
<i>CGS1</i>	<i>DHDPS1</i>	-0.1180	0.7455
<i>CGS1</i>	<i>DHDPS2</i>	0.7182	0.0193
<i>CGS1/SAMSS</i>	(<i>AK-HSDHs+CGS1</i>)/ <i>SAMSS</i>	0.8290	0.0030
<i>CGS1/SAMSS</i>	(<i>AKs+AK-HSDHs</i>)/ <i>AK-HSDHs</i>	0.6566	0.0392
<i>CGS1/SAMSS</i>	(<i>AKs+AK-HSDHs+CGS1</i>)/ <i>SAMSS</i>	0.6851	0.0288
<i>CGS1/SAMSS</i>	(<i>AKs+AK-HSDHs+DHDPSs</i>)/ <i>LKR-SDH1</i>	-0.2670	0.4559
<i>CGS1/SAMSS</i>	(<i>AKs+DHDPSs</i>)/ <i>LKR-SDH1</i>	-0.1032	0.7766
<i>CGS1/SAMSS</i>	<i>AK1</i>	-0.5117	0.1306
<i>CGS1/SAMSS</i>	<i>AK1+AK2</i>	0.3494	0.3223
<i>CGS1/SAMSS</i>	<i>AK1+AK3</i>	-0.5267	0.1178
<i>CGS1/SAMSS</i>	<i>AK2</i>	0.4430	0.1998
<i>CGS1/SAMSS</i>	<i>AK2+AK3</i>	0.4172	0.2303
<i>CGS1/SAMSS</i>	<i>AK3</i>	-0.0660	0.8563
<i>CGS1/SAMSS</i>	<i>AK-HSDH1</i>	-0.5350	0.1110
<i>CGS1/SAMSS</i>	<i>AK-HSDH2</i>	-0.5678	0.0869
<i>CGS1/SAMSS</i>	<i>AK-HSDHs</i>	-0.6689	0.0345
<i>CGS1/SAMSS</i>	<i>AK-HSDHs+CGS1</i>	-0.4420	0.2009
<i>CGS1/SAMSS</i>	<i>AK-HSDHs+TS1</i>	-0.4609	0.1801
<i>CGS1/SAMSS</i>	<i>AK-HSDHs+TS1+TD1</i>	-0.4694	0.1711

<i>CGSI/SAMSS</i>	<i>AK-HSDHs+TSI+THAs</i>	-0.4456	0.1969
<i>CGSI/SAMSS</i>	<i>AKs</i>	0.3306	0.3508
<i>CGSI/SAMSS</i>	<i>AKs/AK-HSDHs</i>	0.6566	0.0392
<i>CGSI/SAMSS</i>	<i>AKs+AK-HSDHs</i>	0.1662	0.6462
<i>CGSI/SAMSS</i>	<i>AKs+AK-HSDHs+CGSI</i>	0.1323	0.7157
<i>CGSI/SAMSS</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1444	0.6906
<i>CGSI/SAMSS</i>	<i>AKs+AK-HSDHs+TSI</i>	-0.0137	0.9701
<i>CGSI/SAMSS</i>	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.0412	0.9100
<i>CGSI/SAMSS</i>	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.0050	0.9891
<i>CGSI/SAMSS</i>	<i>AKs+DHDPSS</i>	0.3086	0.3856
<i>CGSI/SAMSS</i>	<i>BCAT1</i>	0.0367	0.9198
<i>CGSI/SAMSS</i>	Biosynthetic genes analyzed	-0.0467	0.8981
<i>CGSI/SAMSS</i>	Catabolic genes analyzed	-0.8081	0.0047
<i>CGSI/SAMSS</i>	<i>CGSI</i>	-0.1149	0.7520
<i>CGSI/SAMSS</i>	<i>DHDPS1</i>	-0.1093	0.7636
<i>CGSI/SAMSS</i>	<i>DHDPS2</i>	-0.5994	0.0670
<i>CGSI/SAMSS</i>	<i>DHDPSs</i>	-0.5094	0.1326
<i>CGSI/SAMSS</i>	<i>DHDPSs/LKR-SDHI</i>	-0.6879	0.0279
<i>CGSI/SAMSS</i>	<i>LKR-SDHI</i>	0.4779	0.1624
<i>CGSI/SAMSS</i>	<i>SAMS1</i>	-0.2745	0.4427
<i>CGSI/SAMSS</i>	<i>SAMS2</i>	-0.1607	0.6575
<i>CGSI/SAMSS</i>	<i>SAMS3</i>	-0.8089	0.0046
<i>CGSI/SAMSS</i>	<i>SAMS4</i>	-0.7041	0.0230
<i>CGSI/SAMSS</i>	<i>SAMSs</i>	-0.8086	0.0046
<i>CGSI/SAMSS</i>	<i>TD1</i>	-0.4405	0.2026
<i>CGSI/SAMSS</i>	<i>THA1</i>	0.3883	0.2675
<i>CGSI/SAMSS</i>	<i>THA2</i>	0.6274	0.0522
<i>CGSI/SAMSS</i>	<i>THAs</i>	0.6592	0.0381
<i>CGSI/SAMSS</i>	<i>THAs+TDI</i>	-0.2968	0.4050
<i>CGSI/SAMSS</i>	<i>TSI</i>	-0.3062	0.3895
<i>CGSI/TSI</i>	<i>(AK-HSDHs+CGSI)/SAMSS</i>	0.3041	0.3930
<i>CGSI/TSI</i>	<i>(AK-HSDHs+TSI)/(THAs+TDI)</i>	-0.1634	0.6520
<i>CGSI/TSI</i>	<i>(AK-HSDHs+TSI+TDI)/BCAT1</i>	-0.0370	0.9192
<i>CGSI/TSI</i>	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.2703	0.4500
<i>CGSI/TSI</i>	<i>(AKs+AK-HSDHs+CGSI)/SAMSs</i>	0.1636	0.6515
<i>CGSI/TSI</i>	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDHI</i>	0.1265	0.7277
<i>CGSI/TSI</i>	<i>(AKs+AK-HSDHs+TSI)/(THAs+TDI)</i>	0.0653	0.8577
<i>CGSI/TSI</i>	<i>(AKs+AK-HSDHs+TSI+TDI)/BCAT1</i>	-0.0220	0.9519
<i>CGSI/TSI</i>	<i>(AKs+DHDPSS)/LKR-SDHI</i>	0.2059	0.5682
<i>CGSI/TSI</i>	<i>AK1</i>	-0.1793	0.6201
<i>CGSI/TSI</i>	<i>AK1+AK2</i>	0.0722	0.8429
<i>CGSI/TSI</i>	<i>AK1+AK3</i>	-0.1980	0.5835
<i>CGSI/TSI</i>	<i>AK2</i>	0.1086	0.7653
<i>CGSI/TSI</i>	<i>AK2+AK3</i>	0.0974	0.7890
<i>CGSI/TSI</i>	<i>AK3</i>	-0.0352	0.9231
<i>CGSI/TSI</i>	<i>AK-HSDHI</i>	-0.4396	0.2037
<i>CGSI/TSI</i>	<i>AK-HSDH2</i>	0.0073	0.9840
<i>CGSI/TSI</i>	<i>AK-HSDHs</i>	-0.2432	0.4984
<i>CGSI/TSI</i>	<i>AK-HSDHs+CGSI</i>	-0.0842	0.8170
<i>CGSI/TSI</i>	<i>AK-HSDHs+TSI</i>	-0.5998	0.0668
<i>CGSI/TSI</i>	<i>AK-HSDHs+TSI+TDI</i>	-0.5917	0.0715
<i>CGSI/TSI</i>	<i>AK-HSDHs+TSI+THAs</i>	-0.5999	0.0667
<i>CGSI/TSI</i>	<i>AKs</i>	0.0641	0.8603
<i>CGSI/TSI</i>	<i>AKs/AK-HSDHs</i>	0.2703	0.4500
<i>CGSI/TSI</i>	<i>AKs+AK-HSDHs</i>	0.0033	0.9928
<i>CGSI/TSI</i>	<i>AKs+AK-HSDHs+CGSI</i>	0.0247	0.9459
<i>CGSI/TSI</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.0182	0.9603

<i>CGSI/TSI</i>	<i>AKs+AK-HSDHs+TSI</i>	-0.3182	0.3702
<i>CGSI/TSI</i>	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.3295	0.3525
<i>CGSI/TSI</i>	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.3149	0.3755
<i>CGSI/TSI</i>	<i>AKs+DHDPSSs</i>	0.0427	0.9068
<i>CGSI/TSI</i>	<i>BCAT1</i>	-0.0380	0.9169
<i>CGSI/TSI</i>	Biosynthetic genes analyzed	-0.2862	0.4228
<i>CGSI/TSI</i>	Catabolic genes analyzed	-0.1579	0.6630
<i>CGSI/TSI</i>	<i>CGS1</i>	0.1002	0.7831
<i>CGSI/TSI</i>	<i>CGSI/SAMSSs</i>	0.3805	0.2780
<i>CGSI/TSI</i>	<i>DHDPS1</i>	-0.6308	0.0505
<i>CGSI/TSI</i>	<i>DHDPS2</i>	-0.2408	0.5027
<i>CGSI/TSI</i>	<i>DHDPSs</i>	-0.5476	0.1013
<i>CGSI/TSI</i>	<i>DHDPSs/AK-HSDHs</i>	0.0721	0.8432
<i>CGSI/TSI</i>	<i>DHDPSs/LKR-SDH1</i>	-0.1404	0.6988
<i>CGSI/TSI</i>	<i>LKR-SDH1</i>	-0.2800	0.4334
<i>CGSI/TSI</i>	<i>SAMS1</i>	0.0047	0.9897
<i>CGSI/TSI</i>	<i>SAMS2</i>	-0.5344	0.1116
<i>CGSI/TSI</i>	<i>SAMS3</i>	-0.1396	0.7006
<i>CGSI/TSI</i>	<i>SAMS4</i>	-0.2278	0.5267
<i>CGSI/TSI</i>	<i>SAMSSs</i>	-0.1534	0.6722
<i>CGSI/TSI</i>	<i>TD1</i>	-0.3286	0.3539
<i>CGSI/TSI</i>	<i>TD1/BCAT1</i>	-0.0397	0.9133
<i>CGSI/TSI</i>	<i>THA1</i>	-0.2625	0.4637
<i>CGSI/TSI</i>	<i>THA2</i>	0.0633	0.8621
<i>CGSI/TSI</i>	<i>THAs</i>	0.0126	0.9724
<i>CGSI/TSI</i>	<i>THAs+TD1</i>	-0.3253	0.3590
<i>CGSI/TSI</i>	<i>TSI</i>	-0.6805	0.0303
<i>CGSI/TSI</i>	<i>TSI/(THAs+TD1)</i>	-0.2094	0.5616
<i>CGSI/TSI</i>	<i>TSI/TD1</i>	0.0145	0.9683
<i>CGSI/TSI</i>	<i>TSI/THAs</i>	-0.4269	0.2185
<i>DHDPS1</i>	<i>AK1</i>	0.1099	0.7625
<i>DHDPS1</i>	<i>AK2</i>	0.0759	0.8349
<i>DHDPS1</i>	<i>AK3</i>	0.0628	0.8631
<i>DHDPS1</i>	<i>AK-HSDH1</i>	-0.1056	0.7716
<i>DHDPS1</i>	<i>AK-HSDH2</i>	-0.0317	0.9308
<i>DHDPS2</i>	<i>AK1</i>	-0.0351	0.9233
<i>DHDPS2</i>	<i>AK2</i>	-0.0212	0.9537
<i>DHDPS2</i>	<i>AK3</i>	0.1275	0.7257
<i>DHDPS2</i>	<i>AK-HSDH1</i>	0.3375	0.3403
<i>DHDPS2</i>	<i>AK-HSDH2</i>	0.8639	0.0013
<i>DHDPS2</i>	<i>DHDPS1</i>	0.1807	0.6174
<i>DHDPSs</i>	<i>AK1</i>	0.0678	0.8523
<i>DHDPSs</i>	<i>AK2</i>	0.0276	0.9396
<i>DHDPSs</i>	<i>AK3</i>	0.1368	0.7062
<i>DHDPSs</i>	<i>AK-HSDH1</i>	0.1662	0.6463
<i>DHDPSs</i>	<i>AK-HSDH2</i>	0.5851	0.0756
<i>DHDPSs</i>	<i>AK-HSDHs</i>	0.4764	0.1640
<i>DHDPSs</i>	<i>AKs</i>	0.0676	0.8529
<i>DHDPSs</i>	<i>AKs+AK-HSDHs</i>	0.1962	0.5869
<i>DHDPSs</i>	<i>BCAT1</i>	-0.7088	0.0218
<i>DHDPSs</i>	<i>CGS1</i>	0.4066	0.2436
<i>DHDPSs</i>	<i>DHDPS1</i>	0.7302	0.0165
<i>DHDPSs</i>	<i>DHDPS2</i>	0.8025	0.0052
<i>DHDPSs</i>	<i>LKR-SDH1</i>	-0.0368	0.9197
<i>DHDPSs</i>	<i>SAMS1</i>	0.6726	0.0331
<i>DHDPSs</i>	<i>SAMS2</i>	0.8541	0.0017
<i>DHDPSs</i>	<i>SAMS3</i>	0.3353	0.3435

<i>DHDPSs</i>	<i>SAMS4</i>	0.6573	0.0389
<i>DHDPSs</i>	<i>TDI</i>	0.9197	0.0002
<i>DHDPSs</i>	<i>THA1</i>	-0.2383	0.5074
<i>DHDPSs</i>	<i>THA2</i>	0.0000	1.0000
<i>DHDPSs</i>	<i>TS1</i>	0.7481	0.0128
<i>DHDPSs/AK-HSDHs</i>	<i>(AK-HSDHs+CGS1)/SAMSS</i>	0.1300	0.7203
<i>DHDPSs/AK-HSDHs</i>	<i>(AK-HSDHs+TS1)/(THAs+TDI)</i>	-0.5210	0.1225
<i>DHDPSs/AK-HSDHs</i>	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	-0.2264	0.5294
<i>DHDPSs/AK-HSDHs</i>	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.8347	0.0027
<i>DHDPSs/AK-HSDHs</i>	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	0.5940	0.0702
<i>DHDPSs/AK-HSDHs</i>	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	-0.7176	0.0195
<i>DHDPSs/AK-HSDHs</i>	<i>(AKs+AK-HSDHs+TS1)/(THAs+TDI)</i>	-0.2093	0.5616
<i>DHDPSs/AK-HSDHs</i>	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	-0.2009	0.5778
<i>DHDPSs/AK-HSDHs</i>	<i>(AKs+DHDPSs)/LKR-SDH1</i>	-0.5282	0.1166
<i>DHDPSs/AK-HSDHs</i>	<i>AK1</i>	-0.1145	0.7529
<i>DHDPSs/AK-HSDHs</i>	<i>AK1+AK2</i>	0.3312	0.3499
<i>DHDPSs/AK-HSDHs</i>	<i>AK1+AK3</i>	-0.0714	0.8447
<i>DHDPSs/AK-HSDHs</i>	<i>AK2</i>	0.3424	0.3328
<i>DHDPSs/AK-HSDHs</i>	<i>AK2+AK3</i>	0.3395	0.3372
<i>DHDPSs/AK-HSDHs</i>	<i>AK3</i>	0.0431	0.9060
<i>DHDPSs/AK-HSDHs</i>	<i>AK-HSDH1</i>	-0.8179	0.0038
<i>DHDPSs/AK-HSDHs</i>	<i>AK-HSDH2</i>	-0.7431	0.0138
<i>DHDPSs/AK-HSDHs</i>	<i>AK-HSDHs</i>	-0.9446	<.0001
<i>DHDPSs/AK-HSDHs</i>	<i>AK-HSDHs+CGS1</i>	-0.8611	0.0014
<i>DHDPSs/AK-HSDHs</i>	<i>AK-HSDHs+TS1</i>	-0.6291	0.0514
<i>DHDPSs/AK-HSDHs</i>	<i>AK-HSDHs+TS1+TDI</i>	-0.6065	0.0630
<i>DHDPSs/AK-HSDHs</i>	<i>AK-HSDHs+TS1+THAs</i>	-0.6176	0.0571
<i>DHDPSs/AK-HSDHs</i>	<i>AKs</i>	0.3336	0.3462
<i>DHDPSs/AK-HSDHs</i>	<i>AKs/AK-HSDHs</i>	0.8347	0.0027
<i>DHDPSs/AK-HSDHs</i>	<i>AKs+AK-HSDHs</i>	0.0973	0.7892
<i>DHDPSs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+CGS1</i>	-0.0454	0.9009
<i>DHDPSs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+DHDPSs</i>	0.0864	0.8123
<i>DHDPSs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+TS1</i>	-0.1149	0.7519
<i>DHDPSs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+TS1+TDI</i>	-0.1271	0.7264
<i>DHDPSs/AK-HSDHs</i>	<i>AKs+AK-HSDHs+TS1+THAs</i>	-0.1081	0.7663
<i>DHDPSs/AK-HSDHs</i>	<i>AKs+DHDPSs</i>	0.3214	0.3651
<i>DHDPSs/AK-HSDHs</i>	<i>BCAT1</i>	-0.1296	0.7212
<i>DHDPSs/AK-HSDHs</i>	Biosynthetic genes analyzed	-0.2144	0.5520
<i>DHDPSs/AK-HSDHs</i>	Catabolic genes analyzed	-0.7906	0.0065
<i>DHDPSs/AK-HSDHs</i>	<i>CGS1</i>	-0.6031	0.0649
<i>DHDPSs/AK-HSDHs</i>	<i>CGS1/SAMSS</i>	0.6260	0.0529
<i>DHDPSs/AK-HSDHs</i>	<i>DHDPS1</i>	0.3277	0.3553
<i>DHDPSs/AK-HSDHs</i>	<i>DHDPS2</i>	-0.6272	0.0523
<i>DHDPSs/AK-HSDHs</i>	<i>DHDPSs</i>	-0.2377	0.5084
<i>DHDPSs/AK-HSDHs</i>	<i>DHDPSs/LKR-SDH1</i>	-0.9343	<.0001
<i>DHDPSs/AK-HSDHs</i>	<i>LKR-SDH1</i>	0.8801	0.0008
<i>DHDPSs/AK-HSDHs</i>	<i>SAMS1</i>	-0.0761	0.8346
<i>DHDPSs/AK-HSDHs</i>	<i>SAMS2</i>	0.1226	0.7358
<i>DHDPSs/AK-HSDHs</i>	<i>SAMS3</i>	-0.8771	0.0009
<i>DHDPSs/AK-HSDHs</i>	<i>SAMS4</i>	-0.7611	0.0106
<i>DHDPSs/AK-HSDHs</i>	<i>SAMSS</i>	-0.7923	0.0063
<i>DHDPSs/AK-HSDHs</i>	<i>TDI</i>	-0.2565	0.4744
<i>DHDPSs/AK-HSDHs</i>	<i>TDI/BCAT1</i>	-0.2439	0.4971
<i>DHDPSs/AK-HSDHs</i>	<i>THA1</i>	0.5464	0.1022
<i>DHDPSs/AK-HSDHs</i>	<i>THA2</i>	0.3462	0.3271
<i>DHDPSs/AK-HSDHs</i>	<i>THAs</i>	0.4662	0.1744
<i>DHDPSs/AK-HSDHs</i>	<i>THAs+TDI</i>	-0.1621	0.6546

<i>DHDPSs/AK-HSDHs</i>	<i>TSI</i>	-0.4053	0.2452
<i>DHDPSs/AK-HSDHs</i>	<i>TSI/(THAs+TD1)</i>	-0.3058	0.3902
<i>DHDPSs/AK-HSDHs</i>	<i>TSI/TD1</i>	-0.3373	0.3406
<i>DHDPSs/AK-HSDHs</i>	<i>TSI/THAs</i>	-0.6545	0.0400
<i>DHDPSs/LKR-SDH1</i>	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.8080	0.0047
<i>DHDPSs/LKR-SDH1</i>	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	0.6526	0.0408
<i>DHDPSs/LKR-SDH1</i>	<i>(AKs+DHDPSs)/LKR-SDH1</i>	0.4687	0.1718
<i>DHDPSs/LKR-SDH1</i>	<i>AK1</i>	0.0928	0.7988
<i>DHDPSs/LKR-SDH1</i>	<i>AK1+AK2</i>	-0.2923	0.4125
<i>DHDPSs/LKR-SDH1</i>	<i>AK1+AK3</i>	0.1023	0.7787
<i>DHDPSs/LKR-SDH1</i>	<i>AK2</i>	-0.3003	0.3992
<i>DHDPSs/LKR-SDH1</i>	<i>AK2+AK3</i>	-0.2878	0.4200
<i>DHDPSs/LKR-SDH1</i>	<i>AK3</i>	0.0212	0.9537
<i>DHDPSs/LKR-SDH1</i>	<i>AK-HSDH1</i>	0.7027	0.0234
<i>DHDPSs/LKR-SDH1</i>	<i>AK-HSDH2</i>	0.8695	0.0011
<i>DHDPSs/LKR-SDH1</i>	<i>AK-HSDHs</i>	0.9626	<.0001
<i>DHDPSs/LKR-SDH1</i>	<i>AK-HSDHs+CGS1</i>	0.9417	<.0001
<i>DHDPSs/LKR-SDH1</i>	<i>AK-HSDHs+TSI</i>	0.7658	0.0098
<i>DHDPSs/LKR-SDH1</i>	<i>AK-HSDHs+TSI+TD1</i>	0.7617	0.0105
<i>DHDPSs/LKR-SDH1</i>	<i>AK-HSDHs+TSI+THAs</i>	0.7560	0.0114
<i>DHDPSs/LKR-SDH1</i>	<i>AKs</i>	-0.2836	0.4271
<i>DHDPSs/LKR-SDH1</i>	<i>AKs/AK-HSDHs</i>	-0.8080	0.0047
<i>DHDPSs/LKR-SDH1</i>	<i>AKs+AK-HSDHs</i>	-0.0405	0.9115
<i>DHDPSs/LKR-SDH1</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.1292	0.7220
<i>DHDPSs/LKR-SDH1</i>	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.0197	0.9570
<i>DHDPSs/LKR-SDH1</i>	<i>AKs+AK-HSDHs+TSI</i>	0.2399	0.5044
<i>DHDPSs/LKR-SDH1</i>	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.2662	0.4572
<i>DHDPSs/LKR-SDH1</i>	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.2332	0.5166
<i>DHDPSs/LKR-SDH1</i>	<i>AKs+DHDPSs</i>	-0.2608	0.4667
<i>DHDPSs/LKR-SDH1</i>	<i>BCAT1</i>	-0.1525	0.6740
<i>DHDPSs/LKR-SDH1</i>	Biosynthetic genes analyzed	0.3577	0.3102
<i>DHDPSs/LKR-SDH1</i>	Catabolic genes analyzed	0.9189	0.0002
<i>DHDPSs/LKR-SDH1</i>	<i>CGS1</i>	0.7364	0.0152
<i>DHDPSs/LKR-SDH1</i>	<i>DHDPS1</i>	-0.1216	0.7378
<i>DHDPSs/LKR-SDH1</i>	<i>DHDPS2</i>	0.8475	0.0020
<i>DHDPSs/LKR-SDH1</i>	<i>DHDPSs</i>	0.5148	0.1279
<i>DHDPSs/LKR-SDH1</i>	<i>LKR-SDH1</i>	-0.8450	0.0021
<i>DHDPSs/LKR-SDH1</i>	<i>SAMS1</i>	0.3418	0.3337
<i>DHDPSs/LKR-SDH1</i>	<i>SAMS2</i>	0.1550	0.6689
<i>DHDPSs/LKR-SDH1</i>	<i>SAMS3</i>	0.8786	0.0008
<i>DHDPSs/LKR-SDH1</i>	<i>SAMS4</i>	0.9089	0.0003
<i>DHDPSs/LKR-SDH1</i>	<i>SAMSS</i>	0.9198	0.0002
<i>DHDPSs/LKR-SDH1</i>	<i>TD1</i>	0.5414	0.1061
<i>DHDPSs/LKR-SDH1</i>	<i>THA1</i>	-0.6698	0.0341
<i>DHDPSs/LKR-SDH1</i>	<i>THA2</i>	-0.2576	0.4724
<i>DHDPSs/LKR-SDH1</i>	<i>THAs</i>	-0.3620	0.3039
<i>DHDPSs/LKR-SDH1</i>	<i>THAs+TD1</i>	0.4554	0.1860
<i>DHDPSs/LKR-SDH1</i>	<i>TSI</i>	0.5763	0.0812
Free (Lys+Met+Thr+Ile)/Asp	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.1181	0.7451
Free (Lys+Met+Thr+Ile)/Asp	<i>(AK-HSDHs+TSI)/(THAs+TD1)</i>	-0.0206	0.9550
Free (Lys+Met+Thr+Ile)/Asp	<i>(AK-HSDHs+TSI+TD1)/BCAT1</i>	-0.1931	0.5929
Free (Lys+Met+Thr+Ile)/Asp	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.4854	0.1550
Free (Lys+Met+Thr+Ile)/Asp	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	0.4020	0.2495
Free (Lys+Met+Thr+Ile)/Asp	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	-0.0896	0.8057
Free (Lys+Met+Thr+Ile)/Asp	<i>(AKs+AK-HSDHs+TSI)/(THAs+TD1)</i>	0.1967	0.5860
Free (Lys+Met+Thr+Ile)/Asp	<i>(AKs+AK-HSDHs+TSI+TD1)/BCAT1</i>	-0.1808	0.6172
Free (Lys+Met+Thr+Ile)/Asp	<i>(AKs+DHDPSs)/LKR-SDH1</i>	0.0365	0.9203

Free (Lys+Met+Thr+Ile)/Asp	AK activity with four effectors	0.4270	0.2184
Free (Lys+Met+Thr+Ile)/Asp	AK activity without effectors	0.5918	0.0715
Free (Lys+Met+Thr+Ile)/Asp	AK activity/HSDH activity with four effectors	0.5783	0.0799
Free (Lys+Met+Thr+Ile)/Asp	AK activity/HSDH activity without effectors	0.3932	0.2610
Free (Lys+Met+Thr+Ile)/Asp	<i>AK1</i>	0.0361	0.9212
Free (Lys+Met+Thr+Ile)/Asp	<i>AK1+AK2</i>	0.5103	0.1318
Free (Lys+Met+Thr+Ile)/Asp	<i>AK1+AK3</i>	-0.1433	0.6928
Free (Lys+Met+Thr+Ile)/Asp	<i>AK2</i>	0.4837	0.1566
Free (Lys+Met+Thr+Ile)/Asp	<i>AK2+AK3</i>	0.4298	0.2151
Free (Lys+Met+Thr+Ile)/Asp	<i>AK3</i>	-0.2381	0.5077
Free (Lys+Met+Thr+Ile)/Asp	<i>AK-HSDH1</i>	-0.0611	0.8669
Free (Lys+Met+Thr+Ile)/Asp	<i>AK-HSDH2</i>	-0.5565	0.0948
Free (Lys+Met+Thr+Ile)/Asp	<i>AK-HSDHs</i>	-0.3967	0.2564
Free (Lys+Met+Thr+Ile)/Asp	<i>AK-HSDHs+CGS1</i>	-0.3382	0.3392
Free (Lys+Met+Thr+Ile)/Asp	<i>AK-HSDHs+TSI</i>	-0.0462	0.8991
Free (Lys+Met+Thr+Ile)/Asp	<i>AK-HSDHs+TSI+TD1</i>	-0.0580	0.8736
Free (Lys+Met+Thr+Ile)/Asp	<i>AK-HSDHs+TSI+THAs</i>	-0.0346	0.9243
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs</i>	0.4587	0.1824
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs/AK-HSDHs</i>	0.4854	0.1550
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs+AK-HSDHs</i>	0.3721	0.2897
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs+AK-HSDHs+CGS1</i>	0.3045	0.3923
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs+AK-HSDHs+DHDPSs</i>	0.3653	0.2992
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs+AK-HSDHs+TSI</i>	0.3458	0.3277
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.3246	0.3601
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3523	0.3181
Free (Lys+Met+Thr+Ile)/Asp	<i>AKs+DHDPSs</i>	0.4528	0.1888
<i>BCAT1</i>		0.3764	0.2837
Biosynthetic genes analyzed		0.2740	0.4437
Catabolic genes analyzed		-0.2517	0.4830
<i>CGS1</i>		-0.2076	0.5649
<i>CGS1/SAMSS</i>		0.1181	0.7452
<i>CGS1/TSI</i>		-0.3145	0.3761
<i>DHDPS1</i>		0.2179	0.5454
<i>DHDPS2</i>		-0.3178	0.3709
<i>DHDPSs</i>		-0.0817	0.8226
<i>DHDPSs/AK-HSDHs</i>		0.3744	0.2865
<i>DHDPSs/LKR-SDH1</i>		-0.3965	0.2566
Free Ala		-0.4464	0.1960
Free Arg		-0.3031	0.3945
Free Asn		-0.3199	0.3675
Free Asn+Asp		-0.4395	0.2038
Free Asn+Asp+Lys+Met+Thr+Ile		0.6100	0.0611
Free Asn+Asp+Lys+Thr+Ile		0.6150	0.0585
Free Asp		-0.4475	0.1947
Free Asp+Lys+Met+Thr+Ile		0.6509	0.0415
Free Cys		0.6880	0.0279
Free Gln		-0.3576	0.3104
Free Glu		-0.2089	0.5625
Free Gly		-0.3191	0.3688
Free Gly+Ile		-0.2938	0.4100
Free His		-0.2828	0.4286
Free Ile		0.3486	0.3236
Free Leu		-0.3788	0.2804
Free Lys		-0.3077	0.3871
Free Lys+Met+Thr+Ile		0.8804	0.0008
Free Met		-0.3399	0.3365
Free Met+Thr+Ile		0.8905	0.0006
Free Phe		-0.4830	0.1574

Free (Lys+Met+Thr+Ile)/Asp	Free Pro	-0.4419	0.2011
Free (Lys+Met+Thr+Ile)/Asp	Free Ser	-0.6346	0.0488
Free (Lys+Met+Thr+Ile)/Asp	Free Thr	0.8937	0.0005
Free (Lys+Met+Thr+Ile)/Asp	Free Trp	-0.4668	0.1738
Free (Lys+Met+Thr+Ile)/Asp	Free Tyr	-0.4007	0.2512
Free (Lys+Met+Thr+Ile)/Asp	Free Val	-0.4174	0.2301
Free (Lys+Met+Thr+Ile)/Asp	HSDH activity with four effectors	-0.2975	0.4039
Free (Lys+Met+Thr+Ile)/Asp	HSDH activity without effectors	-0.0228	0.9502
Free (Lys+Met+Thr+Ile)/Asp	<i>LKR-SDH1</i>	0.3909	0.2640
Free (Lys+Met+Thr+Ile)/Asp	Lys-sensitive AK activity	0.7222	0.0183
Free (Lys+Met+Thr+Ile)/Asp	Lys-sensitive AK activity/Thr-sensitive AK activity	0.5441	0.1040
Free (Lys+Met+Thr+Ile)/Asp	<i>SAMS1</i>	-0.4721	0.1683
Free (Lys+Met+Thr+Ile)/Asp	<i>SAMS2</i>	0.0745	0.8380
Free (Lys+Met+Thr+Ile)/Asp	<i>SAMS3</i>	-0.0627	0.8634
Free (Lys+Met+Thr+Ile)/Asp	<i>SAMS4</i>	-0.2648	0.4598
Free (Lys+Met+Thr+Ile)/Asp	<i>SAMSS</i>	-0.2563	0.4747
Free (Lys+Met+Thr+Ile)/Asp	<i>TD1</i>	-0.1857	0.6074
Free (Lys+Met+Thr+Ile)/Asp	<i>TD1/BCAT1</i>	-0.2174	0.5463
Free (Lys+Met+Thr+Ile)/Asp	<i>THA1</i>	0.0498	0.8914
Free (Lys+Met+Thr+Ile)/Asp	THA2	0.5188	0.1244
Free (Lys+Met+Thr+Ile)/Asp	THAs	0.5592	0.0929
Free (Lys+Met+Thr+Ile)/Asp	<i>THAs+TD1</i>	-0.0678	0.8525
Free (Lys+Met+Thr+Ile)/Asp	Thr-sensitive AK activity	-0.3947	0.2590
Free (Lys+Met+Thr+Ile)/Asp	Total free AAs	-0.1756	0.6274
Free Ala	<i>TS1</i>	0.1148	0.7522
Free Ala	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.2386	0.5068
Free Ala	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.6008	0.0662
Free Ala	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.2799	0.4334
Free Ala	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.2701	0.4504
Free Ala	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.2771	0.4382
Free Ala	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.0915	0.8015
Free Ala	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.7341	0.0156
Free Ala	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	0.2706	0.4495
Free Ala	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.1911	0.5969
Free Ala	AK activity with four effectors	-0.2921	0.4129
Free Ala	AK activity without effectors	-0.3393	0.3375
Free Ala	AK activity/HSDH activity with four effectors	-0.3786	0.2807
Free Ala	AK activity/HSDH activity without effectors	-0.2287	0.5251
Free Ala	<i>AK1</i>	-0.3416	0.3341
Free Ala	<i>AK1+AK2</i>	-0.2211	0.5394
Free Ala	<i>AK1+AK3</i>	0.0161	0.9648
Free Ala	<i>AK2</i>	-0.1416	0.6965
Free Ala	<i>AK2+AK3</i>	-0.0661	0.8560
Free Ala	AK3	0.4188	0.2284
Free Ala	<i>AK-HSDH1</i>	0.0634	0.8618
Free Ala	AK-HSDH2	0.5720	0.0841
Free Ala	<i>AK-HSDHs</i>	0.4083	0.2414
Free Ala	<i>AK-HSDHs+CGS1</i>	0.4769	0.1634
Free Ala	<i>AK-HSDHs+TS1</i>	0.5491	0.1002
Free Ala	<i>AK-HSDHs+TS1+TD1</i>	0.5995	0.0670
Free Ala	<i>AK-HSDHs+TS1+THAs</i>	0.5466	0.1020
Free Ala	<i>AKs</i>	-0.1419	0.6958
Free Ala	<i>AKs/AK-HSDHs</i>	-0.2701	0.4504
Free Ala	<i>AKs+AK-HSDHs</i>	-0.0389	0.9150

Free Ala	<i>AKs+AK-HSDHs+CGS1</i>	0.0675	0.8530
Free Ala	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.0079	0.9827
Free Ala	<i>AKs+AK-HSDHs+TSI</i>	0.2228	0.5361
Free Ala	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.2743	0.4431
Free Ala	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.2191	0.5430
Free Ala	<i>AKs+DHDPSS</i>	-0.1094	0.7636
Free Ala	<i>BCAT1</i>	-0.8230	0.0034
Free Ala	Biosynthetic genes analyzed	0.3023	0.3959
Free Ala	Catabolic genes analyzed	0.5594	0.0927
Free Ala	<i>CGS1</i>	0.4607	0.1803
Free Ala	<i>CGS1/SAMSS</i>	-0.2927	0.4118
Free Ala	<i>CGS1/TSI</i>	-0.1827	0.6135
Free Ala	<i>DHDPS1</i>	0.5208	0.1227
Free Ala	<i>DHDPS2</i>	0.6954	0.0256
Free Ala	<i>DHDPSs</i>	0.7927	0.0062
Free Ala	<i>DHDPSs/AK-HSDHs</i>	-0.2009	0.5779
Free Ala	<i>DHDPSs/LKR-SDH1</i>	0.4482	0.1940
Free Ala	HSDH activity with four effectors	0.3057	0.3904
Free Ala	HSDH activity without effectors	0.0413	0.9098
Free Ala	<i>LKR-SDH1</i>	-0.0421	0.9080
Free Ala	Lys-sensitive AK activity	-0.6662	0.0354
Free Ala	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.3442	0.3302
Free Ala	<i>SAMS1</i>	0.9459	<.0001
Free Ala	<i>SAMS2</i>	0.7999	0.0055
Free Ala	<i>SAMS3</i>	0.1221	0.7369
Free Ala	<i>SAMS4</i>	0.6587	0.0384
Free Ala	<i>SAMSS</i>	0.5576	0.0940
Free Ala	<i>TD1</i>	0.9292	0.0001
Free Ala	<i>TD1/BCAT1</i>	0.3428	0.3323
Free Ala	<i>THA1</i>	-0.1239	0.7331
Free Ala	<i>THA2</i>	-0.0165	0.9639
Free Ala	<i>THAs</i>	-0.0381	0.9168
Free Ala	<i>THAs+TD1</i>	0.8908	0.0005
Free Ala	Thr-sensitive AK activity	0.2612	0.4660
Free Ala	<i>TSI</i>	0.5372	0.1093
Free Ala	<i>TSI/(THAs+TD1)</i>	-0.7254	0.0176
Free Ala	<i>TSI/TD1</i>	-0.7349	0.0155
Free Ala	<i>TSI/THAs</i>	0.6195	0.0561
Free Arg	(AK-HSDHs+CGS1)/SAMSS	0.0843	0.8169
Free Arg	(AK-HSDHs+TSI)/(THAs+TD1)	-0.1794	0.6200
Free Arg	(AK-HSDHs+TSI+TD1)/BCAT1	0.6721	0.0333
Free Arg	(AKs+AK-HSDHs)/AK-HSDHs	-0.2553	0.4765
Free Arg	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.0983	0.7871
Free Arg	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.3034	0.3941
Free Arg	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	-0.2582	0.4714
Free Arg	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	0.6688	0.0345
Free Arg	(AKs+DHDPSS)/LKR-SDH1	0.2261	0.5300
Free Arg	AK activity with four effectors	0.2087	0.5628
Free Arg	AK activity without effectors	0.0230	0.9498
Free Arg	AK activity/HSDH activity with four effectors	-0.2225	0.5367
Free Arg	AK activity/HSDH activity without effectors	-0.1733	0.6322
Free Arg	<i>AK1</i>	0.1345	0.7110
Free Arg	<i>AK1+AK2</i>	0.0647	0.8591
Free Arg	<i>AK1+AK3</i>	0.2156	0.5497
Free Arg	<i>AK2</i>	0.0350	0.9236
Free Arg	<i>AK2+AK3</i>	0.0544	0.8813
Free Arg	<i>AK3</i>	0.1175	0.7465

Free Arg	<i>AK-HSDH1</i>	0.1432	0.6932
Free Arg	<i>AK-HSDH2</i>	0.6775	0.0314
Free Arg	<i>AK-HSDHs</i>	0.5250	0.1192
Free Arg	<i>AK-HSDHs+CGS1</i>	0.6265	0.0526
Free Arg	<i>AK-HSDHs+TS1</i>	0.5858	0.0752
Free Arg	<i>AK-HSDHs+TS1+TD1</i>	0.6060	0.0633
Free Arg	<i>AK-HSDHs+TS1+THAs</i>	0.5878	0.0739
Free Arg	<i>AKs</i>	0.0854	0.8145
Free Arg	<i>AKs/AK-HSDHs</i>	-0.2553	0.4765
Free Arg	<i>AKs+AK-HSDHs</i>	0.2275	0.5274
Free Arg	<i>AKs+AK-HSDHs+CGS1</i>	0.3545	0.3149
Free Arg	<i>AKs+AK-HSDHs+DHDPSs</i>	0.2508	0.4846
Free Arg	<i>AKs+AK-HSDHs+TS1</i>	0.4305	0.2143
Free Arg	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.4569	0.1844
Free Arg	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.4288	0.2163
Free Arg	<i>AKs+DHDPSs</i>	0.1118	0.7585
Free Arg	<i>BCAT1</i>	-0.6969	0.0251
Free Arg	Biosynthetic genes analyzed	0.5122	0.1302
Free Arg	Catabolic genes analyzed	0.4800	0.1603
Free Arg	<i>CGS1</i>	0.6129	0.0596
Free Arg	<i>CGS1/SAMSs</i>	-0.1563	0.6662
Free Arg	<i>CGS1/TS1</i>	-0.1217	0.7377
Free Arg	<i>DHDPS1</i>	0.4178	0.2295
Free Arg	<i>DHDPS2</i>	0.6163	0.0578
Free Arg	<i>DHDPSs</i>	0.6705	0.0339
Free Arg	<i>DHDPSs/AK-HSDHs</i>	-0.3040	0.3931
Free Arg	<i>DHDPSs/LKR-SDH1</i>	0.5216	0.1220
Free Arg	Free Ala	0.5508	0.0989
Free Arg	HSDH activity with four effectors	0.7239	0.0179
Free Arg	HSDH activity without effectors	0.4088	0.2408
Free Arg	<i>LKR-SDH1</i>	-0.2806	0.4323
Free Arg	Lys-sensitive AK activity	-0.2795	0.4342
Free Arg	Lys-sensitive AK activity/Thr-sensitive AK activity	0.1405	0.6987
Free Arg	<i>SAMS1</i>	0.4617	0.1792
Free Arg	<i>SAMS2</i>	0.5620	0.0909
Free Arg	<i>SAMS3</i>	0.3018	0.3968
Free Arg	<i>SAMS4</i>	0.4869	0.1535
Free Arg	<i>SAMsS</i>	0.4803	0.1601
Free Arg	<i>TD1</i>	0.6289	0.0515
Free Arg	<i>TD1/BCAT1</i>	0.7025	0.0235
Free Arg	<i>THA1</i>	-0.5257	0.1186
Free Arg	<i>THA2</i>	0.2249	0.5321
Free Arg	<i>THAs</i>	0.1847	0.6095
Free Arg	<i>THAs+TD1</i>	0.6452	0.0439
Free Arg	Thr-sensitive AK activity	-0.1589	0.6611
Free Arg	<i>TSI</i>	0.5353	0.1108
Free Arg	<i>TSI/(THAs+TD1)</i>	-0.3530	0.3170
Free Arg	<i>TSI/TD1</i>	-0.2878	0.4201
Free Arg	<i>TSI/THAs</i>	0.4445	0.1980
Free Asn	<i>(AK-HSDHs+CGS1)/SAMsS</i>	-0.2965	0.4054
Free Asn	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.5612	0.0914
Free Asn	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.4835	0.1569
Free Asn	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.1409	0.6979
Free Asn	<i>(AKs+AK-HSDHs+CGS1)/SAMsS</i>	-0.1369	0.7061
Free Asn	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	0.0503	0.8903
Free Asn	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.5875	0.0741
Free Asn	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	0.4858	0.1546

Free Asn	<i>(AKs+DHDPSSs)/LKR-SDH1</i>	-0.0061	0.9866
Free Asn	AK activity with four effectors	-0.0803	0.8255
Free Asn	AK activity without effectors	-0.2863	0.4225
Free Asn	AK activity/HSDH activity with four effectors	-0.1788	0.6211
Free Asn	AK activity/HSDH activity without effectors	-0.0784	0.8295
Free Asn	<i>AK1</i>	0.0909	0.8027
Free Asn	<i>AK1+AK2</i>	0.0489	0.8933
Free Asn	<i>AK1+AK3</i>	0.3098	0.3837
Free Asn	<i>AK2</i>	0.0290	0.9367
Free Asn	<i>AK2+AK3</i>	0.0777	0.8311
Free Asn	<i>AK3</i>	0.2856	0.4238
Free Asn	<i>AK-HSDH1</i>	-0.0950	0.7940
Free Asn	<i>AK-HSDH2</i>	0.6691	0.0344
Free Asn	<i>AK-HSDHs</i>	0.3836	0.2738
Free Asn	<i>AK-HSDHs+CGS1</i>	0.4402	0.2030
Free Asn	<i>AK-HSDHs+TS1</i>	0.4918	0.1488
Free Asn	<i>AK-HSDHs+TS1+TD1</i>	0.5417	0.1058
Free Asn	<i>AK-HSDHs+TS1+THAs</i>	0.4901	0.1504
Free Asn	<i>AKs</i>	0.1004	0.7826
Free Asn	<i>AKs/AK-HSDHs</i>	-0.1409	0.6979
Free Asn	<i>AKs+AK-HSDHs</i>	0.2062	0.5676
Free Asn	<i>AKs+AK-HSDHs+CGS1</i>	0.2892	0.4178
Free Asn	<i>AKs+AK-HSDHs+DHDPSSs</i>	0.2377	0.5083
Free Asn	<i>AKs+AK-HSDHs+TS1</i>	0.3846	0.2725
Free Asn	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.4280	0.2172
Free Asn	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.3810	0.2774
Free Asn	<i>AKs+DHDPSSs</i>	0.1346	0.7107
Free Asn	<i>BCAT1</i>	-0.9125	0.0002
Free Asn	Biosynthetic genes analyzed	0.4432	0.1996
Free Asn	Catabolic genes analyzed	0.5460	0.1025
Free Asn	<i>CGS1</i>	0.4187	0.2285
Free Asn	<i>CGS1/SAMSSs</i>	-0.3463	0.3270
Free Asn	<i>CGS1/TS1</i>	-0.1598	0.6592
Free Asn	<i>DHDPS1</i>	0.6074	0.0625
Free Asn	<i>DHDPS2</i>	0.7181	0.0193
Free Asn	<i>DHDPSs</i>	0.8690	0.0011
Free Asn	<i>DHDPSs/AK-HSDHs</i>	-0.1298	0.7207
Free Asn	<i>DHDPSs/LKR-SDH1</i>	0.4329	0.2114
Free Asn	Free Ala	0.8189	0.0038
Free Asn	Free Arg	0.8292	0.0030
Free Asn	HSDH activity with four effectors	0.3626	0.3032
Free Asn	HSDH activity without effectors	0.0208	0.9546
Free Asn	<i>LKR-SDH1</i>	-0.0764	0.8339
Free Asn	Lys-sensitive AK activity	-0.5284	0.1164
Free Asn	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.0734	0.8402
Free Asn	<i>SAMS1</i>	0.7876	0.0068
Free Asn	<i>SAMS2</i>	0.7706	0.0091
Free Asn	<i>SAMS3</i>	0.2099	0.5605
Free Asn	<i>SAMS4</i>	0.5548	0.0960
Free Asn	<i>SAMSSs</i>	0.5454	0.1030
Free Asn	<i>TD1</i>	0.8725	0.0010
Free Asn	<i>TD1/BCAT1</i>	0.5425	0.1052
Free Asn	<i>THA1</i>	-0.3732	0.2881
Free Asn	<i>THA2</i>	0.0204	0.9554
Free Asn	<i>THAs</i>	0.0249	0.9456
Free Asn	<i>THAs+TD1</i>	0.8435	0.0022
Free Asn	Thr-sensitive AK activity	-0.1043	0.7742

Free Asn	<i>TSI</i>	0.4737	0.1667
Free Asn	<i>TSI/(THAs+TDI)</i>	-0.7191	0.0191
Free Asn	<i>TSI/TDI</i>	-0.6808	0.0302
Free Asn	<i>TSI/THAs</i>	0.5903	0.0724
Free Asn+Asp	(AK-HSDHs+CGS1)/SAMSS	-0.4226	0.2237
Free Asn+Asp	(AK-HSDHs+TSI)/(THAs+TDI)	-0.7038	0.0231
Free Asn+Asp	(AK-HSDHs+TSI+TDI)/BCAT1	0.2996	0.4004
Free Asn+Asp	(AKs+AK-HSDHs)/AK-HSDHs	-0.0735	0.8401
Free Asn+Asp	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.1940	0.5912
Free Asn+Asp	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.2554	0.4763
Free Asn+Asp	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	-0.7384	0.0147
Free Asn+Asp	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	0.3024	0.3958
Free Asn+Asp	(AKs+DHDPSS)/LKR-SDH1	-0.2989	0.4015
Free Asn+Asp	AK activity with four effectors	-0.4406	0.2025
Free Asn+Asp	AK activity without effectors	-0.6301	0.0509
Free Asn+Asp	AK activity/HSDH activity with four effectors	-0.3064	0.3893
Free Asn+Asp	AK activity/HSDH activity without effectors	-0.1617	0.6553
Free Asn+Asp	AK1	0.1112	0.7598
Free Asn+Asp	AK1+AK2	-0.1124	0.7573
Free Asn+Asp	AK1+AK3	0.3351	0.3439
Free Asn+Asp	AK2	-0.1308	0.7188
Free Asn+Asp	AK2+AK3	-0.0759	0.8349
Free Asn+Asp	AK3	0.2976	0.4036
Free Asn+Asp	AK-HSDH1	-0.3015	0.3972
Free Asn+Asp	<i>AK-HSDH2</i>	0.4857	0.1547
Free Asn+Asp	<i>AK-HSDHs</i>	0.1468	0.6857
Free Asn+Asp	<i>AK-HSDHs+CGS1</i>	0.1504	0.6783
Free Asn+Asp	<i>AK-HSDHs+TSI</i>	0.1979	0.5836
Free Asn+Asp	<i>AK-HSDHs+TSI+TDI</i>	0.2579	0.4719
Free Asn+Asp	<i>AK-HSDHs+TSI+THAs</i>	0.1931	0.5930
Free Asn+Asp	<i>AKs</i>	-0.0560	0.8779
Free Asn+Asp	<i>AKs/AK-HSDHs</i>	-0.0735	0.8401
Free Asn+Asp	<i>AKs+AK-HSDHs</i>	-0.0185	0.9595
Free Asn+Asp	<i>AKs+AK-HSDHs+CGS1</i>	0.0103	0.9774
Free Asn+Asp	<i>AKs+AK-HSDHs+DHDPSS</i>	0.0101	0.9779
Free Asn+Asp	<i>AKs+AK-HSDHs+TSI</i>	0.0762	0.8343
Free Asn+Asp	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.1222	0.7367
Free Asn+Asp	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.0719	0.8434
Free Asn+Asp	<i>AKs+DHDPSS</i>	-0.0263	0.9424
Free Asn+Asp	<i>BCAT1</i>	-0.9215	0.0002
Free Asn+Asp	Biosynthetic genes analyzed	0.1114	0.7594
Free Asn+Asp	Catabolic genes analyzed	0.3853	0.2715
Free Asn+Asp	<i>CGS1</i>	0.1285	0.7235
Free Asn+Asp	<i>CGS1/SAMSS</i>	-0.3189	0.3691
Free Asn+Asp	<i>CGS1/TSI</i>	-0.0647	0.8591
Free Asn+Asp	<i>DHDPS1</i>	0.5922	0.0713
Free Asn+Asp	<i>DHDPS2</i>	0.5390	0.1079
Free Asn+Asp	<i>DHDPSs</i>	0.7408	0.0142
Free Asn+Asp	<i>DHDPSs/AK-HSDHs</i>	0.0742	0.8386
Free Asn+Asp	<i>DHDPSs/LKR-SDH1</i>	0.2158	0.5493
Free Asn+Asp	<i>Free Ala</i>	0.8126	0.0043
Free Asn+Asp	<i>Free Arg</i>	0.5758	0.0815
Free Asn+Asp	<i>Free Asn</i>	0.9075	0.0003
Free Asn+Asp	<i>Free Asp</i>	0.9976	<.0001
Free Asn+Asp	<i>Free Cys</i>	0.2664	0.4568
Free Asn+Asp	<i>Free Gln</i>	0.9169	0.0002
Free Asn+Asp	<i>Free Glu</i>	0.8631	0.0013

Free Asn+Asp	Free Gly	0.8556	0.0016
Free Asn+Asp	Free His	0.7471	0.0130
Free Asn+Asp	Free Ile	0.2373	0.5092
Free Asn+Asp	Free Leu	0.7640	0.0101
Free Asn+Asp	Free Lys	0.7455	0.0133
Free Asn+Asp	Free Lys+Met+Thr+Ile	-0.0641	0.8603
Free Asn+Asp	Free Met	0.7433	0.0138
Free Asn+Asp	Free Phe	0.7031	0.0233
Free Asn+Asp	Free Pro	0.9479	<.0001
Free Asn+Asp	Free Ser	0.6913	0.0268
Free Asn+Asp	Free Thr	-0.1046	0.7738
Free Asn+Asp	Free Trp	0.6458	0.0437
Free Asn+Asp	Free Tyr	0.4376	0.2060
Free Asn+Asp	Free Val	0.5221	0.1216
Free Asn+Asp	HSDH activity with four effectors	0.0569	0.8759
Free Asn+Asp	HSDH activity without effectors	-0.2327	0.5176
Free Asn+Asp	<i>LKR-SDH1</i>	0.0996	0.7844
Free Asn+Asp	Lys-sensitive AK activity	-0.7498	0.0125
Free Asn+Asp	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.2026	0.5746
Free Asn+Asp	SAMS1	0.8654	0.0012
Free Asn+Asp	SAMS2	0.6781	0.0312
Free Asn+Asp	<i>SAMS3</i>	-0.0008	0.9983
Free Asn+Asp	<i>SAMS4</i>	0.3736	0.2876
Free Asn+Asp	<i>SAMSs</i>	0.3858	0.2709
Free Asn+Asp	TD1	0.7668	0.0097
Free Asn+Asp	<i>TD1/BCAT1</i>	0.3633	0.3022
Free Asn+Asp	<i>THA1</i>	-0.1193	0.7428
Free Asn+Asp	<i>THA2</i>	-0.2035	0.5729
Free Asn+Asp	<i>THAs</i>	-0.1699	0.6389
Free Asn+Asp	THAs+TD1	0.7010	0.0239
Free Asn+Asp	Thr-sensitive AK activity	-0.0837	0.8182
Free Asn+Asp	Total free AAs	0.9386	<.0001
Free Asn+Asp	<i>TS1</i>	0.1933	0.5925
Free Asn+Asp	TS1/(THAs+TD1)	-0.8048	0.0050
Free Asn+Asp	TS1/TD1	-0.7767	0.0082
Free Asn+Asp	TS1/THAs	0.5266	0.1179
Free Asn+Asp+Lys+Met+Thr+Ile	(AK-HSDHs+CGSI)/SAMSs	-0.2974	0.4039
Free Asn+Asp+Lys+Met+Thr+Ile	(AK-HSDHs+TS1)/(THAs+TD1)	-0.5820	0.0775
Free Asn+Asp+Lys+Met+Thr+Ile	(AK-HSDHs+TS1+TD1)/BCAT1	0.0481	0.8950
Free Asn+Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs)/AK-HSDHs	0.5553	0.0956
Free Asn+Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+CGSI)/SAMSs	0.4323	0.2122
Free Asn+Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.3139	0.3772
Free Asn+Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.3266	0.3570
Free Asn+Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.0681	0.8518
Free Asn+Asp+Lys+Met+Thr+Ile	(AKs+DHDPSS)/LKR-SDH1	-0.2033	0.5733
Free Asn+Asp+Lys+Met+Thr+Ile	AK activity with four effectors	0.0265	0.9420
Free Asn+Asp+Lys+Met+Thr+Ile	AK activity without effectors	0.0429	0.9064
Free Asn+Asp+Lys+Met+Thr+Ile	AK activity/HSDH activity with four effectors	0.2754	0.4413
Free Asn+Asp+Lys+Met+Thr+Ile	AK activity/HSDH activity without effectors	0.2761	0.4400
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK1</i>	0.0895	0.8059
Free Asn+Asp+Lys+Met+Thr+Ile	AK1+AK2	0.5228	0.1210
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK1+AK3</i>	0.2037	0.5724
Free Asn+Asp+Lys+Met+Thr+Ile	AK2	0.4850	0.1554
Free Asn+Asp+Lys+Met+Thr+Ile	AK2+AK3	0.4969	0.1440
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK3</i>	0.1416	0.6964
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK-HSDH1</i>	-0.3919	0.2627
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK-HSDH2</i>	-0.1835	0.6119
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK-HSDHs</i>	-0.3398	0.3367

Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK-HSDHs+CGS1</i>	-0.2980	0.4030
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK-HSDHs+TSI</i>	0.0892	0.8065
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK-HSDHs+TSI+TDI</i>	0.1262	0.7283
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AK-HSDHs+TSI+THAs</i>	0.0984	0.7868
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs</i>	0.5403	0.1069
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs/AK-HSDHs</i>	0.5553	0.0956
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs</i>	0.4723	0.1681
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+CGS1</i>	0.4023	0.2491
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+DHDPSs</i>	0.4875	0.1529
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+TSI</i>	0.4958	0.1450
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.5080	0.1338
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.4988	0.1422
Free Asn+Asp+Lys+Met+Thr+Ile	<i>AKs+DHDPSs</i>	0.5576	0.0940
Free Asn+Asp+Lys+Met+Thr+Ile	<i>BCAT1</i>	-0.4386	0.2048
Free Asn+Asp+Lys+Met+Thr+Ile	<i>Biosynthetic genes analyzed</i>	0.4290	0.2161
Free Asn+Asp+Lys+Met+Thr+Ile	Catabolic genes analyzed	-0.0963	0.7912
Free Asn+Asp+Lys+Met+Thr+Ile	<i>CGS1</i>	-0.1898	0.5995
Free Asn+Asp+Lys+Met+Thr+Ile	<i>CGS1/SAMSS</i>	0.0036	0.9921
Free Asn+Asp+Lys+Met+Thr+Ile	<i>CGS1/TSI</i>	-0.4042	0.2467
Free Asn+Asp+Lys+Met+Thr+Ile	<i>DHDPS1</i>	0.7878	0.0068
Free Asn+Asp+Lys+Met+Thr+Ile	<i>DHDPS2</i>	0.0362	0.9210
Free Asn+Asp+Lys+Met+Thr+Ile	<i>DHDPSs</i>	0.5129	0.1295
Free Asn+Asp+Lys+Met+Thr+Ile	<i>DHDPSs/AK-HSDHs</i>	0.5460	0.1025
Free Asn+Asp+Lys+Met+Thr+Ile	<i>DHDPSs/LKR-SDH1</i>	-0.3392	0.3377
Free Ala	Free Ala	0.2253	0.5314
Free Arg	Free Arg	0.2261	0.5299
Free Asn	Free Asn	0.4488	0.1933
Free Asn+Asp	Free Asn+Asp	0.3962	0.2570
Free Asp	Free Asp	0.3837	0.2736
Free Cys	Free Cys	0.9149	0.0002
Free Gln	Free Gln	0.3774	0.2823
Free Glu	Free Glu	0.5920	0.0714
Free Gly	Free Gly	0.3023	0.3960
Free His	Free His	0.3341	0.3454
Free Ile	Free Ile	0.5709	0.0848
Free Leu	Free Leu	0.2423	0.5000
Free Lys	Free Lys	0.3236	0.3618
Free Lys+Met+Thr+Ile	Free Lys+Met+Thr+Ile	0.8908	0.0005
Free Met	Free Met	0.2274	0.5275
Free Phe	Free Phe	0.0867	0.8117
Free Pro	Free Pro	0.3371	0.3408
Free Ser	Free Ser	-0.1217	0.7377
Free Thr	Free Thr	0.8708	0.0010
Free Trp	Free Trp	-0.0192	0.9581
Free Tyr	Free Tyr	-0.0530	0.8844
Free Val	Free Val	0.0303	0.9337
HSDH activity with four effectors	HSDH activity with four effectors	-0.2492	0.4875
HSDH activity without effectors	HSDH activity without effectors	-0.2625	0.4638
LKR-SDH1	LKR-SDH1	0.6325	0.0497
Lys-sensitive AK activity	Lys-sensitive AK activity	0.1292	0.7221
Lys-sensitive AK activity/Thr-sensitive AK activity	Lys-sensitive AK activity/Thr-sensitive AK activity	0.4679	0.1726
<i>SAMS1</i>	<i>SAMS1</i>	0.2008	0.5781
<i>SAMS2</i>	<i>SAMS2</i>	0.6905	0.0271
<i>SAMS3</i>	<i>SAMS3</i>	-0.2390	0.5061
<i>SAMS4</i>	<i>SAMS4</i>	-0.0873	0.8105
<i>SAMSS</i>	<i>SAMSS</i>	-0.1008	0.7817
<i>TDI</i>	<i>TDI</i>	0.4139	0.2344

Free Asn+Asp+Lys+Met+Thr+Ile	<i>TD1/BCAT1</i>	0.0702	0.8472
Free Asn+Asp+Lys+Met+Thr+Ile	<i>THA1</i>	0.0903	0.8040
Free Asn+Asp+Lys+Met+Thr+Ile	<i>THA2</i>	0.4030	0.2482
Free Asn+Asp+Lys+Met+Thr+Ile	<i>THAs</i>	0.4925	0.1481
Free Asn+Asp+Lys+Met+Thr+Ile	<i>THAs+TD1</i>	0.4928	0.1478
Free Asn+Asp+Lys+Met+Thr+Ile	Thr-sensitive AK activity	-0.5445	0.1037
Free Asn+Asp+Lys+Met+Thr+Ile	Total free AAs	0.6296	0.0511
Free Asn+Asp+Lys+Met+Thr+Ile	<i>TS1</i>	0.2668	0.4561
Free Asn+Asp+Lys+Met+Thr+Ile	<i>TS1/(THAs+TD1)</i>	-0.5388	0.1080
Free Asn+Asp+Lys+Met+Thr+Ile	<i>TS1/TD1</i>	-0.5866	0.0747
Free Asn+Asp+Lys+Met+Thr+Ile	<i>TS1/THAs</i>	0.0283	0.9381
Free Asn+Asp+Lys+Met+Thr+Ile	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.2989	0.4015
Free Asn+Asp+Lys+Thr+Ile	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.5748	0.0822
Free Asn+Asp+Lys+Thr+Ile	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.0420	0.9082
Free Asn+Asp+Lys+Thr+Ile	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.5566	0.0947
Free Asn+Asp+Lys+Thr+Ile	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	0.4338	0.2104
Free Asn+Asp+Lys+Thr+Ile	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.3133	0.3781
Free Asn+Asp+Lys+Thr+Ile	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.3190	0.3690
Free Asn+Asp+Lys+Thr+Ile	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	0.0620	0.8648
Free Asn+Asp+Lys+Thr+Ile	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.2024	0.5749
Free Asn+Asp+Lys+Thr+Ile	AK activity with four effectors	0.0278	0.9393
Free Asn+Asp+Lys+Thr+Ile	AK activity without effectors	0.0448	0.9022
Free Asn+Asp+Lys+Thr+Ile	AK activity/HSDH activity with four effectors	0.2778	0.4370
Free Asn+Asp+Lys+Thr+Ile	AK activity/HSDH activity without effectors	0.2770	0.4384
Free Asn+Asp+Lys+Thr+Ile	<i>AK1</i>	0.0954	0.7932
Free Asn+Asp+Lys+Thr+Ile	<i>AK1+AK2</i>	0.5239	0.1201
Free Asn+Asp+Lys+Thr+Ile	<i>AK1+AK3</i>	0.2088	0.5627
Free Asn+Asp+Lys+Thr+Ile	<i>AK2</i>	0.4848	0.1556
Free Asn+Asp+Lys+Thr+Ile	<i>AK2+AK3</i>	0.4966	0.1442
Free Asn+Asp+Lys+Thr+Ile	<i>AK3</i>	0.1410	0.6976
Free Asn+Asp+Lys+Thr+Ile	<i>AK-HSDH1</i>	-0.3901	0.2652
Free Asn+Asp+Lys+Thr+Ile	<i>AK-HSDH2</i>	-0.1880	0.6029
Free Asn+Asp+Lys+Thr+Ile	<i>AK-HSDHs</i>	-0.3418	0.3337
Free Asn+Asp+Lys+Thr+Ile	<i>AK-HSDHs+CGS1</i>	-0.3032	0.3945
Free Asn+Asp+Lys+Thr+Ile	<i>AK-HSDHs+TS1</i>	0.0855	0.8143
Free Asn+Asp+Lys+Thr+Ile	<i>AK-HSDHs+TS1+TD1</i>	0.1221	0.7368
Free Asn+Asp+Lys+Thr+Ile	<i>AK-HSDHs+TS1+THAs</i>	0.0947	0.7947
Free Asn+Asp+Lys+Thr+Ile	<i>AKs</i>	0.5413	0.1061
Free Asn+Asp+Lys+Thr+Ile	<i>AKs/AK-HSDHs</i>	0.5566	0.0947
Free Asn+Asp+Lys+Thr+Ile	<i>AKs+AK-HSDHs</i>	0.4728	0.1676
Free Asn+Asp+Lys+Thr+Ile	<i>AKs+AK-HSDHs+CGS1</i>	0.4011	0.2507
Free Asn+Asp+Lys+Thr+Ile	<i>AKs+AK-HSDHs+DHDPSS</i>	0.4878	0.1526
Free Asn+Asp+Lys+Thr+Ile	<i>AKs+AK-HSDHs+TS1</i>	0.4944	0.1464
Free Asn+Asp+Lys+Thr+Ile	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.5062	0.1355
Free Asn+Asp+Lys+Thr+Ile	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.4974	0.1436
Free Asn+Asp+Lys+Thr+Ile	<i>AKs+DHDPSS</i>	0.5584	0.0934
Free Asn+Asp+Lys+Thr+Ile	<i>BCAT1</i>	-0.4303	0.2145
Free Asn+Asp+Lys+Thr+Ile	<i>Biosynthetic genes analyzed</i>	0.4262	0.2194
Free Asn+Asp+Lys+Thr+Ile	Catabolic genes analyzed	-0.1003	0.7829
Free Asn+Asp+Lys+Thr+Ile	<i>CGS1</i>	-0.1974	0.5847
Free Asn+Asp+Lys+Thr+Ile	<i>CGS1/SAMSS</i>	0.0021	0.9954
Free Asn+Asp+Lys+Thr+Ile	<i>CGS1/TS1</i>	-0.4070	0.2431
Free Asn+Asp+Lys+Thr+Ile	<i>DHDPS1</i>	0.7857	0.0071
Free Asn+Asp+Lys+Thr+Ile	<i>DHDPS2</i>	0.0299	0.9346
Free Asn+Asp+Lys+Thr+Ile	<i>DHDPSs</i>	0.5075	0.1343
Free Asn+Asp+Lys+Thr+Ile	<i>DHDPSs/AK-HSDHs</i>	0.5470	0.1018
Free Asn+Asp+Lys+Thr+Ile	<i>DHDPSs/LKR-SDH1</i>	-0.3428	0.3322

Free Asn+Asp+Lys+Thr+Ile	Free Ala	0.2168	0.5475
Free Asn+Asp+Lys+Thr+Ile	Free Arg	0.2203	0.5408
Free Asn+Asp+Lys+Thr+Ile	Free Asn	0.4418	0.2011
Free Asn+Asp+Lys+Thr+Ile	Free Asn+Asp	0.3896	0.2658
Free Asn+Asp+Lys+Thr+Ile	Free Asn+Asp+Lys+Met+Thr+Ile	0.9999	<.0001
Free Asn+Asp+Lys+Thr+Ile	Free Asp	0.3773	0.2825
Free Asn+Asp+Lys+Thr+Ile	Free Cys	0.9165	0.0002
Free Asn+Asp+Lys+Thr+Ile	Free Gln	0.3708	0.2915
Free Asn+Asp+Lys+Thr+Ile	Free Glu	0.5877	0.0740
Free Asn+Asp+Lys+Thr+Ile	Free Gly	0.2982	0.4027
Free Asn+Asp+Lys+Thr+Ile	Free His	0.3262	0.3576
Free Asn+Asp+Lys+Thr+Ile	Free Ile	0.5655	0.0885
Free Asn+Asp+Lys+Thr+Ile	Free Leu	0.2332	0.5168
Free Asn+Asp+Lys+Thr+Ile	Free Lys	0.3143	0.3765
Free Asn+Asp+Lys+Thr+Ile	Free Lys+Met+Thr+Ile	0.8941	0.0005
Free Asn+Asp+Lys+Thr+Ile	Free Met	0.2187	0.5438
Free Asn+Asp+Lys+Thr+Ile	Free Phe	0.0777	0.8311
Free Asn+Asp+Lys+Thr+Ile	Free Pro	0.3305	0.3510
Free Asn+Asp+Lys+Thr+Ile	Free Ser	-0.1251	0.7306
Free Asn+Asp+Lys+Thr+Ile	Free Thr	0.8746	0.0009
Free Asn+Asp+Lys+Thr+Ile	Free Trp	-0.0272	0.9406
Free Asn+Asp+Lys+Thr+Ile	Free Tyr	-0.0629	0.8629
Free Asn+Asp+Lys+Thr+Ile	Free Val	0.0229	0.9498
Free Asn+Asp+Lys+Thr+Ile	HSDH activity with four effectors	-0.2527	0.4811
Free Asn+Asp+Lys+Thr+Ile	HSDH activity without effectors	-0.2632	0.4625
LKR-SDHI		0.6346	0.0487
Free Asn+Asp+Lys+Thr+Ile	Lys-sensitive AK activity	0.1343	0.7114
Free Asn+Asp+Lys+Thr+Ile	Lys-sensitive AK activity/Thr-sensitive AK activity	0.4691	0.1714
Free Asn+Asp+Lys+Thr+Ile	<i>SAMS1</i>	0.1920	0.5952
Free Asn+Asp+Lys+Thr+Ile	SAMS2	0.6850	0.0288
Free Asn+Asp+Lys+Thr+Ile	<i>SAMS3</i>	-0.2387	0.5066
Free Asn+Asp+Lys+Thr+Ile	<i>SAMS4</i>	-0.0923	0.7999
Free Asn+Asp+Lys+Thr+Ile	<i>SAMSS</i>	-0.1047	0.7734
Free Asn+Asp+Lys+Thr+Ile	TDI	0.4065	0.2437
Free Asn+Asp+Lys+Thr+Ile	<i>TDI/BCAT1</i>	0.0637	0.8611
Free Asn+Asp+Lys+Thr+Ile	<i>THA1</i>	0.0935	0.7972
Free Asn+Asp+Lys+Thr+Ile	<i>THA2</i>	0.3995	0.2527
Free Asn+Asp+Lys+Thr+Ile	THAs	0.4895	0.1510
Free Asn+Asp+Lys+Thr+Ile	THAs+TDI	0.4851	0.1553
Free Asn+Asp+Lys+Thr+Ile	Thr-sensitive AK activity	-0.5457	0.1027
Free Asn+Asp+Lys+Thr+Ile	Total free AAs	0.6241	0.0538
Free Asn+Asp+Lys+Thr+Ile	<i>TS1</i>	0.2629	0.4630
Free Asn+Asp+Lys+Thr+Ile	TS1/(THAs+TDI)	-0.5312	0.1141
Free Asn+Asp+Lys+Thr+Ile	TS1/TD1	-0.5787	0.0796
Free Asn+Asp+Lys+Thr+Ile	<i>TS1/THAs</i>	0.0265	0.9421
Free Asp	(AK-HSDHs+CGS1)/SAMSS	-0.4380	0.2054
Free Asp	(AK-HSDHs+TS1)/(THAs+TDI)	-0.7189	0.0191
Free Asp	(AK-HSDHs+TS1+TD1)/BCAT1	0.2599	0.4683
Free Asp	(AKs+AK-HSDHs)/AK-HSDHs	-0.0582	0.8730
Free Asp	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2004	0.5788
Free Asp	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDHI	-0.3023	0.3959
Free Asp	(AKs+AK-HSDHs+TS1)/(THAs+TDI)	-0.7528	0.0120
Free Asp	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.2627	0.4634
Free Asp	(AKs+DHDPSSs)/LKR-SDHI	-0.3430	0.3319
Free Asp	AK activity with four effectors	-0.4902	0.1504
Free Asp	AK activity without effectors	-0.6725	0.0331
Free Asp	AK activity/HSDH activity with four effectors	-0.3205	0.3665
Free Asp	AK activity/HSDH activity without effectors	-0.1713	0.6360

Free Asp	<i>AK1</i>	0.1128	0.7564
Free Asp	<i>AK1+AK2</i>	-0.1378	0.7043
Free Asp	<i>AK1+AK3</i>	0.3353	0.3436
Free Asp	<i>AK2</i>	-0.1556	0.6678
Free Asp	<i>AK2+AK3</i>	-0.1003	0.7828
Free Asp	<i>AK3</i>	0.2965	0.4056
Free Asp	<i>AK-HSDH1</i>	-0.3304	0.3511
Free Asp	<i>AK-HSDH2</i>	0.4452	0.1972
Free Asp	<i>AK-HSDHs</i>	0.1040	0.7750
Free Asp	<i>AK-HSDHs+CGS1</i>	0.1000	0.7835
Free Asp	<i>AK-HSDHs+TSI</i>	0.1425	0.6945
Free Asp	<i>AK-HSDHs+TSI+TD1</i>	0.2034	0.5731
Free Asp	<i>AK-HSDHs+TSI+THAs</i>	0.1373	0.7052
Free Asp	<i>AKs</i>	-0.0812	0.8236
Free Asp	<i>AKs/AK-HSDHs</i>	-0.0582	0.8730
Free Asp	<i>AKs+AK-HSDHs</i>	-0.0559	0.8780
Free Asp	<i>AKs+AK-HSDHs+CGS1</i>	-0.0362	0.9208
Free Asp	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.0284	0.9379
Free Asp	<i>AKs+AK-HSDHs+TSI</i>	0.0215	0.9530
Free Asp	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.0672	0.8536
Free Asp	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.0173	0.9621
Free Asp	<i>AHDPSs</i>	-0.0529	0.8845
Free Asp	<i>BCAT1</i>	-0.9081	0.0003
Free Asp	Biosynthetic genes analyzed	0.0526	0.8853
Free Asp	Catabolic genes analyzed	0.3544	0.3150
Free Asp	<i>CGS1</i>	0.0795	0.8271
Free Asp	<i>CGS1/SAMs</i>	-0.3087	0.3855
Free Asp	<i>CGS1/TSI</i>	-0.0417	0.9090
Free Asp	<i>DHDPS1</i>	0.5788	0.0795
Free Asp	<i>DHDPS2</i>	0.4963	0.1446
Free Asp	<i>DHDPSs</i>	0.7041	0.0230
Free Asp	<i>DHDPSs/AK-HSDHs</i>	0.1075	0.7675
Free Asp	<i>DHDPSs/LKR-SDH1</i>	0.1750	0.6287
Free Asp	<i>Free Ala</i>	0.7967	0.0058
Free Asp	<i>Free Arg</i>	0.5252	0.1190
Free Asp	<i>Free Asn</i>	0.8771	0.0009
Free Asp	HSDH activity with four effectors	0.0064	0.9859
Free Asp	HSDH activity without effectors	-0.2693	0.4518
Free Asp	<i>LKR-SDH1</i>	0.1261	0.7285
Free Asp	<i>Lys-sensitive AK activity</i>	-0.7734	0.0087
Free Asp	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.2125	0.5556
Free Asp	<i>SAMS1</i>	0.8645	0.0012
Free Asp	<i>SAMS2</i>	0.6511	0.0414
Free Asp	<i>SAMS3</i>	-0.0332	0.9275
Free Asp	<i>SAMS4</i>	0.3379	0.3396
Free Asp	<i>SAMs</i>	0.3550	0.3141
Free Asp	<i>TD1</i>	0.7361	0.0152
Free Asp	<i>TD1/BCAT1</i>	0.3237	0.3616
Free Asp	<i>THA1</i>	-0.0806	0.8248
Free Asp	<i>THA2</i>	-0.2323	0.5184
Free Asp	<i>THAs</i>	-0.1957	0.5880
Free Asp	<i>THAs+TD1</i>	0.6661	0.0355
Free Asp	Thr-sensitive AK activity	-0.0877	0.8095
Free Asp	<i>TSI</i>	0.1396	0.7005
Free Asp	<i>TSI/(THAs+TD1)</i>	-0.8100	0.0045
Free Asp	<i>TSI/TD1</i>	-0.7810	0.0077
Free Asp	<i>TSI/THAs</i>	0.5073	0.1345

Free Asp+Lys+Met+Thr+Ile	(AK-HSDHs+CGS1)/SAMSS	-0.2873	0.4208
Free Asp+Lys+Met+Thr+Ile	(AK-HSDHs+TSI)/(THAs+TDI)	-0.5594	0.0927
Free Asp+Lys+Met+Thr+Ile	(AK-HSDHs+TSI+TDI)/BCAT1	0.0151	0.9670
Free Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs)/AK-HSDHs	0.5789	0.0795
Free Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+CGS1)/SAMSS	0.4514	0.1903
Free Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.3286	0.3539
Free Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	-0.2967	0.4052
Free Asp+Lys+Met+Thr+Ile	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	0.0353	0.9229
Free Asp+Lys+Met+Thr+Ile	(AKs+DHDPSS)/LKR-SDH1	-0.2117	0.5571
Free Asp+Lys+Met+Thr+Ile	AK activity with four effectors	0.0311	0.9320
Free Asp+Lys+Met+Thr+Ile	AK activity without effectors	0.0635	0.8617
Free Asp+Lys+Met+Thr+Ile	AK activity/HSDH activity with four effectors	0.2927	0.4118
Free Asp+Lys+Met+Thr+Ile	AK activity/HSDH activity without effectors	0.2855	0.4239
Free Asp+Lys+Met+Thr+Ile	AK1	0.0871	0.8109
Free Asp+Lys+Met+Thr+Ile	AK1+AK2	0.5313	0.1140
Free Asp+Lys+Met+Thr+Ile	AK1+AK3	0.1884	0.6022
Free Asp+Lys+Met+Thr+Ile	AK2	0.4936	0.1471
Free Asp+Lys+Met+Thr+Ile	AK2+AK3	0.5023	0.1390
Free Asp+Lys+Met+Thr+Ile	AK3	0.1246	0.7316
Free Asp+Lys+Met+Thr+Ile	AK-HSDH1	-0.3936	0.2604
Free Asp+Lys+Met+Thr+Ile	AK-HSDH2	-0.2367	0.5103
Free Asp+Lys+Met+Thr+Ile	AK-HSDHs	-0.3755	0.2849
Free Asp+Lys+Met+Thr+Ile	AK-HSDHs+CGS1	-0.3372	0.3407
Free Asp+Lys+Met+Thr+Ile	AK-HSDHs+TSI	0.0579	0.8738
Free Asp+Lys+Met+Thr+Ile	AK-HSDHs+TSI+TDI	0.0925	0.7993
Free Asp+Lys+Met+Thr+Ile	AK-HSDHs+TSI+THAs	0.0675	0.8530
Free Asp+Lys+Met+Thr+Ile	AKs	0.5456	0.1028
Free Asp+Lys+Met+Thr+Ile	AKs/AK-HSDHs	0.5789	0.0795
Free Asp+Lys+Met+Thr+Ile	AKs+AK-HSDHs	0.4684	0.1722
Free Asp+Lys+Met+Thr+Ile	AKs+AK-HSDHs+CGS1	0.3905	0.2645
Free Asp+Lys+Met+Thr+Ile	AKs+AK-HSDHs+DHDPSS	0.4818	0.1585
Free Asp+Lys+Met+Thr+Ile	AKs+AK-HSDHs+TSI	0.4809	0.1595
Free Asp+Lys+Met+Thr+Ile	AKs+AK-HSDHs+TSI+TDI	0.4905	0.1500
Free Asp+Lys+Met+Thr+Ile	AKs+AK-HSDHs+TSI+THAs	0.4842	0.1562
Free Asp+Lys+Met+Thr+Ile	AKs+DHDPSS	0.5610	0.0915
Free Asp+Lys+Met+Thr+Ile	BCAT1	-0.3872	0.2689
Free Asp+Lys+Met+Thr+Ile	Biosynthetic genes analyzed	0.4081	0.2417
Free Asp+Lys+Met+Thr+Ile	Catabolic genes analyzed	-0.1358	0.7083
Free Asp+Lys+Met+Thr+Ile	CGS1	-0.2253	0.5315
Free Asp+Lys+Met+Thr+Ile	CGS1/SAMSS	0.0260	0.9431
Free Asp+Lys+Met+Thr+Ile	CGS1/TSI	-0.4065	0.2437
Free Asp+Lys+Met+Thr+Ile	DHDPS1	0.7702	0.0091
Free Asp+Lys+Met+Thr+Ile	DHDPS2	-0.0140	0.9694
Free Asp+Lys+Met+Thr+Ile	DHDPSs	0.4676	0.1730
Free Asp+Lys+Met+Thr+Ile	DHDPSs/AK-HSDHs	0.5700	0.0854
Free Asp+Lys+Met+Thr+Ile	DHDPSs/LKR-SDH1	-0.3788	0.2804
Free Asp+Lys+Met+Thr+Ile	Free Ala	0.1750	0.6287
Free Asp+Lys+Met+Thr+Ile	Free Arg	0.1746	0.6295
Free Asp+Lys+Met+Thr+Ile	Free Asn	0.3917	0.2630
Free Asp+Lys+Met+Thr+Ile	Free Asn+Asp	0.3441	0.3302
Free Asp+Lys+Met+Thr+Ile	Free Asn+Asp+Lys+Met+Thr+Ile	0.9980	<.0001
Free Asp+Lys+Met+Thr+Ile	Free Asn+Asp+Lys+Thr+Ile	0.9984	<.0001
Free Asp+Lys+Met+Thr+Ile	Free Asp	0.3335	0.3463
Free Asp+Lys+Met+Thr+Ile	Free Cys	0.9177	0.0002
Free Asp+Lys+Met+Thr+Ile	Free Gln	0.3206	0.3665
Free Asp+Lys+Met+Thr+Ile	Free Glu	0.5512	0.0986
Free Asp+Lys+Met+Thr+Ile	Free Gly	0.2575	0.4726

Free Asp+Lys+Met+Thr+Ile	Free His	0.2773	0.4379
Free Asp+Lys+Met+Thr+Ile	Free Ile	0.5580	0.0937
Free Asp+Lys+Met+Thr+Ile	Free Leu	0.1871	0.6047
Free Asp+Lys+Met+Thr+Ile	Free Lys	0.2705	0.4497
Free Asp+Lys+Met+Thr+Ile	Free Lys+Met+Thr+Ile	0.9145	0.0002
Free Asp+Lys+Met+Thr+Ile	Free Met	0.1842	0.6104
Free Asp+Lys+Met+Thr+Ile	Free Phe	0.0313	0.9315
Free Asp+Lys+Met+Thr+Ile	Free Pro	0.2805	0.4324
Free Asp+Lys+Met+Thr+Ile	Free Ser	-0.1643	0.6502
Free Asp+Lys+Met+Thr+Ile	Free Thr	0.8973	0.0004
Free Asp+Lys+Met+Thr+Ile	Free Trp	-0.0719	0.8434
Free Asp+Lys+Met+Thr+Ile	Free Tyr	-0.0952	0.7937
Free Asp+Lys+Met+Thr+Ile	Free Val	-0.0181	0.9605
Free Asp+Lys+Met+Thr+Ile	HSDH activity with four effectors	-0.2801	0.4331
Free Asp+Lys+Met+Thr+Ile	HSDH activity without effectors	-0.2683	0.4536
Free Asp+Lys+Met+Thr+Ile	LKR-SDHI	0.6564	0.0392
Free Asp+Lys+Met+Thr+Ile	Lys-sensitive AK activity	0.1681	0.6426
Free Asp+Lys+Met+Thr+Ile	Lys-sensitive AK activity/Thr-sensitive AK activity	0.4862	0.1542
Free Asp+Lys+Met+Thr+Ile	<i>SAMS1</i>	0.1520	0.6751
Free Asp+Lys+Met+Thr+Ile	SAMS2	0.6575	0.0388
Free Asp+Lys+Met+Thr+Ile	<i>SAMS3</i>	-0.2590	0.4699
Free Asp+Lys+Met+Thr+Ile	<i>SAMS4</i>	-0.1278	0.7251
Free Asp+Lys+Met+Thr+Ile	<i>SAMSS</i>	-0.1404	0.6989
Free Asp+Lys+Met+Thr+Ile	<i>TDI</i>	0.3653	0.2993
Free Asp+Lys+Met+Thr+Ile	<i>TDI/BCAT1</i>	0.0338	0.9261
Free Asp+Lys+Met+Thr+Ile	<i>THA1</i>	0.1199	0.7414
Free Asp+Lys+Met+Thr+Ile	THA2	0.4125	0.2362
Free Asp+Lys+Met+Thr+Ile	THAs	0.5038	0.1376
Free Asp+Lys+Met+Thr+Ile	THAs+TDI	0.4484	0.1937
Free Asp+Lys+Met+Thr+Ile	Thr-sensitive AK activity	-0.5534	0.0971
Free Asp+Lys+Met+Thr+Ile	Total free AAs	0.5814	0.0779
Free Asp+Lys+Met+Thr+Ile	<i>TSI</i>	0.2417	0.5011
Free Asp+Lys+Met+Thr+Ile	TSI/(THAs+TDI)	-0.5041	0.1374
Free Asp+Lys+Met+Thr+Ile	TSI/TD1	-0.5561	0.0951
Free Asp+Lys+Met+Thr+Ile	<i>TSI/THAs</i>	-0.0094	0.9795
Free Cys	(AK-HSDHs+CGSI)/SAMSS	-0.3715	0.2905
Free Cys	(AK-HSDHs+TSI)/(THAs+TD1)	-0.4118	0.2371
Free Cys	(AK-HSDHs+TSI+TD1)/BCAT1	0.1772	0.6244
Free Cys	(AKs+AK-HSDHs)/AK-HSDHs	0.4512	0.1906
Free Cys	(AKs+AK-HSDHs+CGSI)/SAMSS	0.3603	0.3064
Free Cys	(AKs+AK-HSDHs+DHDPSS)/LKR-SDHI	-0.1706	0.6374
Free Cys	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	-0.1681	0.6426
Free Cys	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	0.1956	0.5882
Free Cys	(AKs+DHDPSS)/LKR-SDHI	-0.0634	0.8619
Free Cys	AK activity with four effectors	0.1777	0.6232
Free Cys	AK activity without effectors	0.1297	0.7210
Free Cys	AK activity/HSDH activity with four effectors	0.3667	0.2973
Free Cys	AK activity/HSDH activity without effectors	0.2602	0.4679
Free Cys	<i>AK1</i>	0.3526	0.3177
Free Cys	AK1+AK2	0.5648	0.0889
Free Cys	<i>AK1+AK3</i>	0.2034	0.5730
Free Cys	AK2	0.4710	0.1694
Free Cys	AK2+AK3	0.4306	0.2142
Free Cys	<i>AK3</i>	-0.1659	0.6469
Free Cys	<i>AK-HSDH1</i>	-0.2979	0.4032
Free Cys	<i>AK-HSDH2</i>	-0.1579	0.6630
Free Cys	<i>AK-HSDHs</i>	-0.2691	0.4521

Free Cys	<i>AK-HSDHs+CGS1</i>	-0.2617	0.4651
Free Cys	<i>AK-HSDHs+TSI</i>	0.0296	0.9354
Free Cys	<i>AK-HSDHs+TSI+TDI</i>	0.0553	0.8794
Free Cys	<i>AK-HSDHs+TSI+THAs</i>	0.0361	0.9212
Free Cys	<i>AKs</i>	0.5261	0.1183
Free Cys	<i>AKs/AK-HSDHs</i>	0.4512	0.1906
Free Cys	<i>AKs+AK-HSDHs</i>	0.4764	0.1640
Free Cys	<i>AKs+AK-HSDHs+CGS1</i>	0.4041	0.2468
Free Cys	<i>AKs+AK-HSDHs+DHDPSs</i>	0.4890	0.1515
Free Cys	<i>AKs+AK-HSDHs+TSI</i>	0.4473	0.1949
Free Cys	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.4513	0.1904
Free Cys	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.4495	0.1925
Free Cys	<i>AKs+DHDPSs</i>	0.5409	0.1064
Free Cys	<i>BCAT1</i>	-0.2943	0.4091
Free Cys	Biosynthetic genes analyzed	0.3819	0.2761
Free Cys	Catabolic genes analyzed	-0.0228	0.9502
<i>CGS1</i>		-0.1975	0.5845
Free Cys	<i>CGS1/SAMSS</i>	-0.1226	0.7357
Free Cys	<i>CGS1/TSI</i>	-0.3329	0.3472
Free Cys	<i>DHDPS1</i>	0.6730	0.0329
Free Cys	<i>DHDPS2</i>	0.0254	0.9444
Free Cys	<i>DHDPSs</i>	0.4412	0.2018
Free Cys	<i>DHDPSs/AK-HSDHs</i>	0.3939	0.2600
Free Cys	<i>DHDPSs/LKR-SDH1</i>	-0.2429	0.4989
Free Cys	Free Ala	0.0143	0.9688
Free Cys	Free Arg	0.1992	0.5812
Free Cys	Free Asn	0.3515	0.3193
Free Cys	Free Asp	0.2516	0.4831
Free Cys	HSDH activity with four effectors	-0.1568	0.6654
Free Cys	HSDH activity without effectors	-0.1232	0.7345
Free Cys	<i>LKR-SDH1</i>	0.4417	0.2012
Free Cys	Lys-sensitive AK activity	0.2513	0.4837
Free Cys	<i>Lys-sensitive AK activity/Thr-sensitive AK activity</i>	0.4067	0.2435
Free Cys	<i>SAMS1</i>	-0.0020	0.9955
Free Cys	<i>SAMS2</i>	0.4618	0.1791
Free Cys	<i>SAMS3</i>	-0.0225	0.9508
Free Cys	<i>SAMS4</i>	-0.1069	0.7688
Free Cys	<i>SAMSS</i>	-0.0256	0.9439
Free Cys	<i>TDI</i>	0.2602	0.4678
Free Cys	<i>TDI/BCAT1</i>	0.1922	0.5948
Free Cys	<i>THA1</i>	-0.0341	0.9255
Free Cys	<i>THA2</i>	0.2951	0.4077
Free Cys	<i>THAs</i>	0.3639	0.3012
Free Cys	<i>THAs+TDI</i>	0.3193	0.3685
Free Cys	<i>Thr-sensitive AK activity</i>	-0.6347	0.0487
Free Cys	<i>TSI</i>	0.1577	0.6635
Free Cys	<i>TSI/(THAs+TDI)</i>	-0.3872	0.2689
Free Cys	<i>TSI/TDI</i>	-0.4332	0.2111
Free Cys	<i>TSI/THAs</i>	0.0679	0.8522
Free Gln	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.4206	0.2262
Free Gln	<i>(AK-HSDHs+TSI)/(THAs+TDI)</i>	-0.5623	0.0907
Free Gln	<i>(AK-HSDHs+TSI+TDI)/BCAT1</i>	0.4117	0.2371
Free Gln	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.2184	0.5444
Free Gln	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.2688	0.4527
Free Gln	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	0.0384	0.9161
Free Gln	<i>(AKs+AK-HSDHs+TSI)/(THAs+TDI)</i>	-0.6255	0.0531
Free Gln	<i>(AKs+AK-HSDHs+TSI+TDI)/BCAT1</i>	0.4103	0.2389

Free Gln	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.0395	0.9136
Free Gln	AK activity with four effectors	-0.1196	0.7422
Free Gln	AK activity without effectors	-0.3365	0.3417
Free Gln	AK activity/HSDH activity with four effectors	-0.1974	0.5847
Free Gln	AK activity/HSDH activity without effectors	-0.1193	0.7426
Free Gln	<i>AK1</i>	0.1688	0.6410
Free Gln	<i>AK1+AK2</i>	-0.0650	0.8585
Free Gln	<i>AK1+AK3</i>	0.3581	0.3096
Free Gln	<i>AK2</i>	-0.0967	0.7904
Free Gln	<i>AK2+AK3</i>	-0.0497	0.8915
Free Gln	<i>AK3</i>	0.2563	0.4748
Free Gln	<i>AK-HSDH1</i>	-0.0563	0.8772
Free Gln	<i>AK-HSDH2</i>	0.6857	0.0286
Free Gln	<i>AK-HSDHs</i>	0.4156	0.2323
Free Gln	<i>AK-HSDHs+CGS1</i>	0.4478	0.1944
Free Gln	<i>AK-HSDHs+TS1</i>	0.4200	0.2269
Free Gln	<i>AK-HSDHs+TS1+TD1</i>	0.4720	0.1685
Free Gln	<i>AK-HSDHs+TS1+THAs</i>	0.4156	0.2323
Free Gln	<i>AKs</i>	-0.0168	0.9634
Free Gln	<i>AKs/AK-HSDHs</i>	-0.2184	0.5444
Free Gln	<i>AKs+AK-HSDHs</i>	0.0934	0.7974
Free Gln	<i>AKs+AK-HSDHs+CGS1</i>	0.1773	0.6241
Free Gln	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1239	0.7330
Free Gln	<i>AKs+AK-HSDHs+TS1</i>	0.2447	0.4957
Free Gln	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.2908	0.4151
Free Gln	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.2405	0.5032
Free Gln	<i>AKs+DHDPSS</i>	0.0160	0.9651
Free Gln	<i>BCAT1</i>	-0.8826	0.0007
Free Gln	Biosynthetic genes analyzed	0.3116	0.3807
Free Gln	Catabolic genes analyzed	0.6348	0.0487
Free Gln	<i>CGS1</i>	0.3977	0.2551
Free Gln	<i>CGS1/SAMSs</i>	-0.4554	0.1859
Free Gln	<i>CGS1/TS1</i>	-0.0651	0.8583
Free Gln	<i>DHDPS1</i>	0.5292	0.1157
Free Gln	<i>DHDPS2</i>	0.7040	0.0231
Free Gln	<i>DHDPSs</i>	0.8178	0.0038
Free Gln	<i>DHDPSs/AK-HSDHs</i>	-0.1964	0.5865
Free Gln	<i>DHDPSs/LKR-SDH1</i>	0.4811	0.1592
Free Gln	<i>Free Ala</i>	0.8007	0.0054
Free Gln	<i>Free Arg</i>	0.7751	0.0084
Free Gln	<i>Free Asn</i>	0.9756	<.0001
Free Gln	<i>Free Asp</i>	0.8937	0.0005
Free Gln	<i>Free Cys</i>	0.3218	0.3646
Free Gln	HSDH activity with four effectors	0.3454	0.3283
Free Gln	HSDH activity without effectors	0.0226	0.9505
Free Gln	<i>LKR-SDH1</i>	-0.1710	0.6367
Free Gln	Lys-sensitive AK activity	-0.6081	0.0622
Free Gln	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.1315	0.7172
Free Gln	<i>SAMS1</i>	0.8142	0.0041
Free Gln	<i>SAMS2</i>	0.6834	0.0294
Free Gln	<i>SAMS3</i>	0.3135	0.3778
Free Gln	<i>SAMS4</i>	0.6006	0.0663
Free Gln	<i>SAMSS</i>	0.6351	0.0485
Free Gln	<i>TD1</i>	0.8474	0.0020
Free Gln	<i>TD1/BCAT1</i>	0.4784	0.1619
Free Gln	<i>THA1</i>	-0.4375	0.2061
Free Gln	<i>THA2</i>	-0.0903	0.8040

Free Gln	<i>THAs</i>	-0.1041	0.7748
Free Gln	<i>THAs+TDI</i>	0.7940	0.0061
Free Gln	Thr-sensitive AK activity	-0.1123	0.7574
Free Gln	<i>TSI</i>	0.3646	0.3003
Free Gln	<i>TSI/(THAs+TDI)</i>	-0.7398	0.0144
Free Gln	<i>TSI/TDI</i>	-0.6745	0.0324
Free Gln	<i>TSI/THAs</i>	0.6663	0.0354
Free Glu	(AK-HSDHs+CGS1)/SAMs	-0.2642	0.4608
Free Glu	(AK-HSDHs+TSI)/(THAs+TDI)	-0.6643	0.0362
Free Glu	(AK-HSDHs+TSI+TDI)/BCAT1	0.1743	0.6300
Free Glu	(AKs+AK-HSDHs)/AK-HSDHs	0.3404	0.3358
Free Glu	(AKs+AK-HSDHs+CGS1)/SAMs	0.2483	0.4892
Free Glu	(AKs+AK-HSDHs+DHDPs)/LKR-SDH1	-0.1521	0.6749
Free Glu	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	-0.4499	0.1921
Free Glu	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	0.1983	0.5830
Free Glu	(AKs+DHDPs)/LKR-SDH1	-0.0879	0.8092
Free Glu	AK activity with four effectors	-0.2368	0.5101
Free Glu	AK activity without effectors	-0.4606	0.1803
Free Glu	AK activity/HSDH activity with four effectors	0.0607	0.8676
Free Glu	AK activity/HSDH activity without effectors	0.2534	0.4800
Free Glu	<i>AK1</i>	0.1081	0.7663
Free Glu	<i>AK1+AK2</i>	0.3141	0.3768
Free Glu	<i>AK1+AK3</i>	0.4427	0.2001
Free Glu	<i>AK2</i>	0.2807	0.4320
Free Glu	<i>AK2+AK3</i>	0.3486	0.3235
Free Glu	<i>AK3</i>	0.4340	0.2101
Free Glu	<i>AK-HSDH1</i>	-0.5899	0.0727
Free Glu	<i>AK-HSDH2</i>	0.3542	0.3153
Free Glu	<i>AK-HSDHs</i>	-0.1018	0.7796
Free Glu	<i>AK-HSDHs+CGS1</i>	-0.0887	0.8074
Free Glu	<i>AK-HSDHs+TSI</i>	0.0386	0.9158
Free Glu	<i>AK-HSDHs+TSI+TDI</i>	0.0933	0.7976
Free Glu	<i>AK-HSDHs+TSI+THAs</i>	0.0379	0.9172
Free Glu	<i>AKs</i>	0.3883	0.2675
Free Glu	<i>AKs/AK-HSDHs</i>	0.3404	0.3358
Free Glu	<i>AKs+AK-HSDHs</i>	0.3768	0.2831
Free Glu	<i>AKs+AK-HSDHs+CGS1</i>	0.3431	0.3318
Free Glu	<i>AKs+AK-HSDHs+DHDPs</i>	0.3964	0.2568
Free Glu	<i>AKs+AK-HSDHs+TSI</i>	0.3398	0.3367
Free Glu	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.3671	0.2967
Free Glu	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3373	0.3405
Free Glu	<i>AKs+DHDPs</i>	0.4103	0.2390
Free Glu	<i>BCAT1</i>	-0.8139	0.0042
Free Glu	Biosynthetic genes analyzed	0.3147	0.3758
Free Glu	Catabolic genes analyzed	0.0797	0.8268
Free Glu	<i>CGS1</i>	-0.0509	0.8890
Free Glu	<i>CGS1/SAMs</i>	-0.0982	0.7872
Free Glu	<i>CGS1/TSI</i>	-0.0270	0.9409
Free Glu	<i>DHDPS1</i>	0.5393	0.1077
Free Glu	<i>DHDPS2</i>	0.3709	0.2914
Free Glu	<i>DHDPSs</i>	0.5956	0.0693
Free Glu	<i>DHDPSs/AK-HSDHs</i>	0.3408	0.3352
Free Glu	<i>DHDPSs/LKR-SDH1</i>	-0.0598	0.8697
Free Glu	<i>Free Ala</i>	0.5743	0.0825
Free Glu	<i>Free Arg</i>	0.4827	0.1576
Free Glu	<i>Free Asn</i>	0.7998	0.0055
Free Glu	<i>Free Asp</i>	0.8574	0.0015

Free Glu	Free Cys	0.4341	0.2101
Free Glu	Free Gln	0.7514	0.0122
Free Glu	HSDH activity with four effectors	-0.1970	0.5854
Free Glu	HSDH activity without effectors	-0.5413	0.1061
Free Glu	<i>LKR-SDH1</i>	0.3130	0.3785
Free Glu	Lys-sensitive AK activity	-0.4008	0.2511
Free Glu	Lys-sensitive AK activity/Thr-sensitive AK activity	0.0786	0.8290
Free Glu	SAMS1	0.6090	0.0617
Free Glu	SAMS2	0.6086	0.0619
Free Glu	<i>SAMS3</i>	-0.2311	0.5207
Free Glu	<i>SAMS4</i>	0.0983	0.7870
Free Glu	<i>SAMSS</i>	0.0792	0.8278
Free Glu	TD1	0.5868	0.0745
Free Glu	<i>TD1/BCAT1</i>	0.2191	0.5431
Free Glu	<i>THA1</i>	-0.0661	0.8560
Free Glu	<i>THA2</i>	-0.0390	0.9148
Free Glu	<i>THAs</i>	0.0537	0.8828
Free Glu	THAs+TD1	0.5636	0.0898
Free Glu	Thr-sensitive AK activity	-0.2900	0.4163
Free Glu	<i>TS1</i>	0.0953	0.7935
Free Glu	TS1/(THAs+TD1)	-0.7362	0.0152
Free Glu	TS1/TD1	-0.6703	0.0339
Free Glu	<i>TS1/THAs</i>	0.1931	0.5929
Free Gly	(AK-HSDHs+CGS1)/SAMSS	-0.7265	0.0173
Free Gly	(AK-HSDHs+TS1)/(THAs+TD1)	-0.4886	0.1518
Free Gly	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.2050	0.5699
Free Gly	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.3615	0.3047
Free Gly	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.4799	0.1604
Free Gly	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.1097	0.7628
Free Gly	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.6445	0.0443
Free Gly	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	0.1955	0.5884
Free Gly	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.2200	0.5414
Free Gly	AK activity with four effectors	-0.3238	0.3614
Free Gly	AK activity without effectors	-0.5067	0.1350
Free Gly	AK activity/HSDH activity with four effectors	-0.2689	0.4526
Free Gly	AK activity/HSDH activity without effectors	-0.2646	0.4600
Free Gly	<i>AK1</i>	0.3346	0.3446
Free Gly	<i>AK1+AK2</i>	-0.2611	0.4663
Free Gly	AK1+AK3	0.4176	0.2298
Free Gly	<i>AK2</i>	-0.3205	0.3667
Free Gly	<i>AK2+AK3</i>	-0.2872	0.4210
Free Gly	<i>AK3</i>	0.1376	0.7046
Free Gly	<i>AK-HSDH1</i>	0.0515	0.8877
Free Gly	AK-HSDH2	0.5610	0.0916
Free Gly	<i>AK-HSDHs</i>	0.3939	0.2601
Free Gly	<i>AK-HSDHs+CGS1</i>	0.2909	0.4148
Free Gly	<i>AK-HSDHs+TS1</i>	0.2959	0.4065
Free Gly	<i>AK-HSDHs+TS1+TD1</i>	0.3458	0.3278
Free Gly	<i>AK-HSDHs+TS1+THAs</i>	0.2850	0.4247
Free Gly	<i>AKs</i>	-0.2310	0.5207
Free Gly	<i>AKs/AK-HSDHs</i>	-0.3615	0.3047
Free Gly	<i>AKs+AK-HSDHs</i>	-0.1346	0.7109
Free Gly	<i>AKs+AK-HSDHs+CGS1</i>	-0.1002	0.7829
Free Gly	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.1041	0.7748
Free Gly	<i>AKs+AK-HSDHs+TS1</i>	-0.0064	0.9861
Free Gly	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.0408	0.9108
Free Gly	<i>AKs+AK-HSDHs+TS1+THAs</i>	-0.0131	0.9714

Free Gly	<i>AKs+DHDPSS</i>	-0.1999	0.5797
Free Gly	<i>BCAT1</i>	-0.6924	0.0265
Free Gly	Biosynthetic genes analyzed	0.0370	0.9192
Free Gly	Catabolic genes analyzed	0.6752	0.0322
Free Gly	<i>CGS1</i>	0.1270	0.7266
Free Gly	<i>CGS1/SAMSS</i>	-0.7067	0.0223
Free Gly	<i>CGS1/TS1</i>	-0.1642	0.6503
Free Gly	<i>DHDPS1</i>	0.5081	0.1338
Free Gly	<i>DHDPS2</i>	0.6119	0.0601
Free Gly	<i>DHDPSs</i>	0.7527	0.0120
Free Gly	<i>DHDPSs/AK-HSDHs</i>	-0.2478	0.4900
Free Gly	<i>DHDPSs/LKR-SDH1</i>	0.4608	0.1801
Free Gly	Free Ala	0.7150	0.0201
Free Gly	Free Arg	0.4472	0.1950
Free Gly	Free Asn	0.7900	0.0065
Free Gly	Free Asp	0.8533	0.0017
Free Gly	Free Cys	0.3174	0.3715
Free Gly	Free Gln	0.8765	0.0009
Free Gly	Free Glu	0.5999	0.0668
Free Gly	HSDH activity with four effectors	0.1605	0.6578
Free Gly	HSDH activity without effectors	-0.0211	0.9539
Free Gly	<i>LKR-SDH1</i>	-0.1470	0.6854
Free Gly	Lys-sensitive AK activity	-0.7021	0.0236
Free Gly	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.4314	0.2132
Free Gly	<i>SAMS1</i>	0.7551	0.0116
Free Gly	<i>SAMS2</i>	0.5401	0.1070
Free Gly	<i>SAMS3</i>	0.4093	0.2402
Free Gly	<i>SAMS4</i>	0.5815	0.0779
Free Gly	<i>SAMSS</i>	0.6761	0.0318
Free Gly	<i>TD1</i>	0.7438	0.0137
Free Gly	<i>TD1/BCAT1</i>	0.2771	0.4383
Free Gly	<i>THA1</i>	-0.2419	0.5008
Free Gly	<i>THA2</i>	-0.4364	0.2073
Free Gly	<i>THAs</i>	-0.4451	0.1974
Free Gly	<i>THAs+TD1</i>	0.6286	0.0516
Free Gly	Thr-sensitive AK activity	0.0299	0.9347
Free Gly	<i>TS1</i>	0.2114	0.5577
Free Gly	<i>TS1/(THAs+TD1)</i>	-0.6417	0.0455
Free Gly	<i>TS1/TD1</i>	-0.6234	0.0541
Free Gly	<i>TS1/THAs</i>	0.8185	0.0038
Free Gly/Thr	(AK-HSDHs+CGS1)/SAMSS	-0.3532	0.3168
Free Gly/Thr	(AK-HSDHs+TS1)/(THAs+TD1)	0.0308	0.9328
Free Gly/Thr	(AK-HSDHs+TS1+TD1)/BCAT1	-0.0072	0.9843
Free Gly/Thr	(AKs+AK-HSDHs)/AK-HSDHs	-0.7058	0.0226
Free Gly/Thr	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.7629	0.0103
Free Gly/Thr	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.2316	0.5196
Free Gly/Thr	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.3982	0.2544
Free Gly/Thr	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.0356	0.9222
Free Gly/Thr	(AKs+DHDPSS)/LKR-SDH1	-0.4194	0.2276
Free Gly/Thr	AK activity with four effectors	-0.6729	0.0330
Free Gly/Thr	AK activity without effectors	-0.7418	0.0140
Free Gly/Thr	AK activity/HSDH activity with four effectors	-0.7331	0.0158
Free Gly/Thr	AK activity/HSDH activity without effectors	-0.6863	0.0284
Free Gly/Thr	<i>AK1</i>	0.2119	0.5566
Free Gly/Thr	<i>AK1+AK2</i>	-0.8276	0.0031
Free Gly/Thr	<i>AK1+AK3</i>	0.2616	0.4653
Free Gly/Thr	<i>AK2</i>	-0.8419	0.0023
Free Gly/Thr	<i>AK2+AK3</i>	-0.8019	0.0053

Free Gly/Thr	<i>AK3</i>	0.0968	0.7903
Free Gly/Thr	<i>AK-HSDH1</i>	0.2744	0.4429
Free Gly/Thr	<i>AK-HSDH2</i>	0.3493	0.3225
Free Gly/Thr	<i>AK-HSDHs</i>	0.3809	0.2775
Free Gly/Thr	<i>AK-HSDHs+CGS1</i>	0.2010	0.5777
Free Gly/Thr	<i>AK-HSDHs+TSI</i>	0.1014	0.7805
Free Gly/Thr	<i>AK-HSDHs+TSI+TDI</i>	0.1135	0.7548
Free Gly/Thr	<i>AK-HSDHs+TSI+THAs</i>	0.0864	0.8124
Free Gly/Thr	<i>AKs</i>	-0.7958	0.0059
Free Gly/Thr	<i>AKs/AK-HSDHs</i>	-0.7058	0.0226
Free Gly/Thr	<i>AKs+AK-HSDHs</i>	-0.7261	0.0174
Free Gly/Thr	<i>AKs+AK-HSDHs+CGS1</i>	-0.6942	0.0259
Free Gly/Thr	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.7117	0.0210
Free Gly/Thr	<i>AKs+AK-HSDHs+TSI</i>	-0.5862	0.0749
Free Gly/Thr	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.5556	0.0954
Free Gly/Thr	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.5940	0.0702
Free Gly/Thr	<i>AKs+DHDPSS</i>	-0.7846	0.0072
Free Gly/Thr	<i>BCAT1</i>	-0.2206	0.5403
Free Gly/Thr	<i>Biosynthetic genes analyzed</i>	-0.5292	0.1158
Free Gly/Thr	Catabolic genes analyzed	0.3690	0.2940
Free Gly/Thr	<i>CGS1</i>	-0.0345	0.9247
Free Gly/Thr	<i>CGS1/SAMSs</i>	-0.4670	0.1736
Free Gly/Thr	<i>CGS1/TS1</i>	-0.0912	0.8022
Free Gly/Thr	<i>DHDPS1</i>	0.0088	0.9808
Free Gly/Thr	<i>DHDPS2</i>	0.2771	0.4382
Free Gly/Thr	<i>DHDPSs</i>	0.2007	0.5782
Free Gly/Thr	<i>DHDPSs/AK-HSDHs</i>	-0.3526	0.3177
Free Gly/Thr	<i>DHDPSs/LKR-SDH1</i>	0.3814	0.2768
Free Gly/Thr	<i>Free (Lys+Met+Thr+Ile)/Asp</i>	-0.7905	0.0065
Free Gly/Thr	<i>Free Ala</i>	0.4202	0.2266
Free Gly/Thr	Free Arg	0.0941	0.7960
Free Gly/Thr	Free Asn	0.2403	0.5037
Free Gly/Thr	<i>Free Asn+Asp</i>	0.4479	0.1942
Free Gly/Thr	<i>Free Asn+Asp+Lys+Met+Thr+Ile</i>	-0.4754	0.1650
Free Gly/Thr	<i>Free Asn+Asp+Lys+Thr+Ile</i>	-0.4776	0.1627
Free Gly/Thr	<i>Free Asp</i>	0.4700	0.1705
Free Gly/Thr	<i>Free Asp+Lys+Met+Thr+Ile</i>	-0.5045	0.1370
Free Gly/Thr	<i>Free Cys</i>	-0.5244	0.1197
Free Gly/Thr	Free Gln	0.3223	0.3638
Free Gly/Thr	Free Glu	0.0866	0.8121
Free Gly/Thr	<i>Free Gly</i>	0.5125	0.1299
Free Gly/Thr	<i>Free Gly+Ile</i>	0.4870	0.1535
Free Gly/Thr	Free His	0.1259	0.7289
Free Gly/Thr	Free Ile	-0.3205	0.3666
Free Gly/Thr	Free Leu	0.2809	0.4318
Free Gly/Thr	Free Lys	0.1055	0.7718
Free Gly/Thr	<i>Free Lys/(Met+Thr+Ile)</i>	0.9141	0.0002
Free Gly/Thr	<i>Free Lys/Thr</i>	0.9152	0.0002
Free Gly/Thr	<i>Free Lys+Met+Thr+Ile</i>	-0.7364	0.0151
Free Gly/Thr	Free Met	0.2928	0.4116
Free Gly/Thr	<i>Free Met/Thr</i>	0.9346	<.0001
Free Gly/Thr	<i>Free Met+Thr+Ile</i>	-0.7393	0.0146
Free Gly/Thr	Free Phe	0.3723	0.2893
Free Gly/Thr	Free Pro	0.3363	0.3420
Free Gly/Thr	<i>Free Ser</i>	0.7755	0.0084
Free Gly/Thr	<i>Free Thr</i>	-0.7404	0.0143
Free Gly/Thr	<i>Free Trp</i>	0.4798	0.1605
Free Gly/Thr	Free Tyr	0.1974	0.5846

Free Gly/Thr	Free Val	0.3064	0.3893
Free Gly/Thr	HSDH activity with four effectors	0.1465	0.6864
Free Gly/Thr	HSDH activity without effectors	0.1149	0.7520
Free Gly/Thr	<i>LKR-SDH1</i>	-0.2670	0.4558
Free Gly/Thr	Lys-sensitive AK activity	-0.8594	0.0014
Free Gly/Thr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.7034	0.0232
Free Gly/Thr	SAMS1	0.4803	0.1600
Free Gly/Thr	<i>SAMS2</i>	0.0206	0.9551
Free Gly/Thr	<i>SAMS3</i>	0.1998	0.5800
Free Gly/Thr	<i>SAMS4</i>	0.3345	0.3448
Free Gly/Thr	<i>SAMSS</i>	0.3725	0.2892
Free Gly/Thr	<i>TD1</i>	0.2208	0.5399
Free Gly/Thr	<i>TD1/BCAT1</i>	0.0273	0.9404
Free Gly/Thr	<i>THA1</i>	0.1042	0.7744
Free Gly/Thr	THA2	-0.7494	0.0126
Free Gly/Thr	THAs	-0.7760	0.0083
Free Gly/Thr	<i>THAs+TD1</i>	0.0656	0.8572
Free Gly/Thr	Thr-sensitive AK activity	0.5567	0.0946
Free Gly/Thr	Total free AAs	0.1640	0.6508
Free Gly/Thr	<i>TS1</i>	-0.0356	0.9221
Free Gly/Thr	<i>TS1/(THAs+TD1)</i>	-0.0286	0.9376
Free Gly/Thr	<i>TS1/TD1</i>	-0.0588	0.8718
Free Gly/Thr	TS1/THAs	0.5799	0.0789
Free Gly+Ile	(AK-HSDHs+CGS1)/SAMSS	-0.7116	0.0210
Free Gly+Ile	(AK-HSDHs+TS1)/(THAs+TD1)	-0.5127	0.1297
Free Gly+Ile	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.2278	0.5267
Free Gly+Ile	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.3526	0.3177
Free Gly+Ile	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.4684	0.1721
Free Gly+Ile	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.1202	0.7409
Free Gly+Ile	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.6686	0.0345
Free Gly+Ile	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	0.2179	0.5453
Free Gly+Ile	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.2297	0.5231
Free Gly+Ile	AK activity with four effectors	-0.3124	0.3795
Free Gly+Ile	AK activity without effectors	-0.4828	0.1576
Free Gly+Ile	AK activity/HSDH activity with four effectors	-0.2749	0.4421
Free Gly+Ile	AK activity/HSDH activity without effectors	-0.2715	0.4479
Free Gly+Ile	<i>AK1</i>	0.3054	0.3909
Free Gly+Ile	<i>AK1+AK2</i>	-0.2502	0.4857
Free Gly+Ile	<i>AK1+AK3</i>	0.3903	0.2649
Free Gly+Ile	<i>AK2</i>	-0.3039	0.3933
Free Gly+Ile	<i>AK2+AK3</i>	-0.2714	0.4482
Free Gly+Ile	<i>AK3</i>	0.1367	0.7066
Free Gly+Ile	<i>AK-HSDH1</i>	0.0588	0.8719
Free Gly+Ile	AK-HSDH2	0.5540	0.0966
Free Gly+Ile	<i>AK-HSDHs</i>	0.3936	0.2604
Free Gly+Ile	<i>AK-HSDHs+CGS1</i>	0.3059	0.3900
Free Gly+Ile	<i>AK-HSDHs+TS1</i>	0.3269	0.3566
Free Gly+Ile	<i>AK-HSDHs+TS1+TD1</i>	0.3776	0.2820
Free Gly+Ile	<i>AK-HSDHs+TS1+THAs</i>	0.3170	0.3721
Free Gly+Ile	<i>AKs</i>	-0.2205	0.5404
Free Gly+Ile	<i>AKs/AK-HSDHs</i>	-0.3526	0.3177
Free Gly+Ile	<i>AKs+AK-HSDHs</i>	-0.1237	0.7334
Free Gly+Ile	<i>AKs+AK-HSDHs+CGS1</i>	-0.0835	0.8187
Free Gly+Ile	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.0923	0.7998
Free Gly+Ile	<i>AKs+AK-HSDHs+TS1</i>	0.0213	0.9533
Free Gly+Ile	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.0696	0.8485
Free Gly+Ile	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.0150	0.9671

Free Gly+Ile	<i>AKs+DHDPSS</i>	-0.1884	0.6022
Free Gly+Ile	<i>BCAT1</i>	-0.7148	0.0202
Free Gly+Ile	Biosynthetic genes analyzed	0.0676	0.8528
Free Gly+Ile	Catabolic genes analyzed	0.6792	0.0308
Free Gly+Ile	<i>CGS1</i>	0.1554	0.6682
Free Gly+Ile	<i>CGS1/SAMSS</i>	-0.6886	0.0277
Free Gly+Ile	<i>CGS1/TS1</i>	-0.1870	0.6049
Free Gly+Ile	<i>DHDPS1</i>	0.5452	0.1031
Free Gly+Ile	<i>DHDPS2</i>	0.6217	0.0550
Free Gly+Ile	<i>DHDPSs</i>	0.7805	0.0077
Free Gly+Ile	<i>DHDPSs/AK-HSDHs</i>	-0.2377	0.5084
Free Gly+Ile	<i>DHDPSs/LKR-SDH1</i>	0.4602	0.1808
Free Gly+Ile	Free Ala	0.7387	0.0147
Free Gly+Ile	Free Arg	0.4739	0.1664
Free Gly+Ile	Free Asn	0.8100	0.0045
Free Gly+Ile	Free Asn+Asp	0.8618	0.0013
Free Gly+Ile	Free Asn+Asp+Lys+Met+Thr+Ile	0.3353	0.3436
Free Gly+Ile	Free Asn+Asp+Lys+Thr+Ile	0.3309	0.3504
Free Gly+Ile	Free Asp	0.8573	0.0015
Free Gly+Ile	Free Asp+Lys+Met+Thr+Ile	0.2901	0.4161
Free Gly+Ile	Free Cys	0.3415	0.3342
Free Gly+Ile	Free Gln	0.8897	0.0006
Free Gly+Ile	Free Glu	0.6028	0.0651
Free Gly+Ile	Free Gly	0.9980	<.0001
Free Gly+Ile	Free His	0.6548	0.0399
Free Gly+Ile	Free Ile	0.1935	0.5922
Free Gly+Ile	Free Leu	0.6686	0.0345
Free Gly+Ile	Free Lys	0.5787	0.0796
Free Gly+Ile	Free Lys+Met+Thr+Ile	-0.0616	0.8658
Free Gly+Ile	Free Met	0.5104	0.1317
Free Gly+Ile	Free Met+Thr+Ile	-0.0827	0.8203
Free Gly+Ile	Free Phe	0.6493	0.0422
Free Gly+Ile	Free Pro	0.8576	0.0015
Free Gly+Ile	Free Ser	0.8458	0.0020
Free Gly+Ile	Free Thr	-0.0947	0.7947
Free Gly+Ile	Free Trp	0.7365	0.0151
Free Gly+Ile	Free Tyr	0.3287	0.3537
Free Gly+Ile	Free Val	0.4352	0.2088
Free Gly+Ile	HSDH activity with four effectors	0.1839	0.6111
Free Gly+Ile	HSDH activity without effectors	0.0054	0.9883
Free Gly+Ile	<i>LKR-SDH1</i>	-0.1293	0.7219
Free Gly+Ile	Lys-sensitive AK activity	-0.6938	0.0261
Free Gly+Ile	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.4033	0.2478
Free Gly+Ile	<i>SAMS1</i>	0.7718	0.0089
Free Gly+Ile	<i>SAMS2</i>	0.5842	0.0761
Free Gly+Ile	<i>SAMS3</i>	0.4018	0.2497
Free Gly+Ile	<i>SAMS4</i>	0.5933	0.0706
Free Gly+Ile	<i>SAMSS</i>	0.6798	0.0306
Free Gly+Ile	<i>TD1</i>	0.7736	0.0087
Free Gly+Ile	<i>TD1/BCAT1</i>	0.3002	0.3993
Free Gly+Ile	<i>THA1</i>	-0.2444	0.4962
Free Gly+Ile	<i>THA2</i>	-0.3859	0.2708
Free Gly+Ile	<i>THAs</i>	-0.3963	0.2569
Free Gly+Ile	<i>THAs+TD1</i>	0.6677	0.0349
Free Gly+Ile	Thr-sensitive AK activity	0.0179	0.9609
Free Gly+Ile	Total free AAs	0.8315	0.0029
Free Gly+Ile	<i>TS1</i>	0.2521	0.4823
Free Gly+Ile	<i>TS1/(THAs+TD1)</i>	-0.6628	0.0367

Free Gly+Ile	<i>TSI/TDI</i>	-0.6511	0.0414
Free Gly+Ile	<i>TSI/THAs</i>	0.8191	0.0037
Free His	<i>(AK-HSDHs+CGS1)/SAMs</i>	-0.1397	0.7004
Free His	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.4517	0.1901
Free His	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.5579	0.0938
Free His	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.2134	0.5538
Free His	<i>(AKs+AK-HSDHs+CGS1)/SAMs</i>	-0.1556	0.6678
Free His	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	0.2359	0.5117
Free His	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.5033	0.1381
Free His	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	0.5572	0.0942
Free His	<i>(AKs+DHDPSs)/LKR-SDH1</i>	0.1697	0.6392
Free His	AK activity with four effectors	0.1560	0.6670
Free His	AK activity without effectors	-0.0229	0.9500
Free His	AK activity/HSDH activity with four effectors	-0.0943	0.7955
Free His	AK activity/HSDH activity without effectors	-0.0193	0.9578
Free His	<i>AK1</i>	-0.0628	0.8632
Free His	<i>AK1+AK2</i>	0.0644	0.8597
Free His	<i>AK1+AK3</i>	0.1427	0.6941
Free His	<i>AK2</i>	0.0759	0.8348
Free His	<i>AK2+AK3</i>	0.1171	0.7473
Free His	<i>AK3</i>	0.2528	0.4810
Free His	<i>AK-HSDH1</i>	0.0527	0.8850
Free His	<i>AK-HSDH2</i>	0.7304	0.0164
Free His	<i>AK-HSDHs</i>	0.5073	0.1345
Free His	<i>AK-HSDHs+CGS1</i>	0.6513	0.0414
Free His	<i>AK-HSDHs+TS1</i>	0.6484	0.0426
Free His	<i>AK-HSDHs+TS1+TD1</i>	0.6873	0.0281
Free His	<i>AK-HSDHs+TS1+THAs</i>	0.6498	0.0420
Free His	<i>AKs</i>	0.1094	0.7636
Free His	<i>AKs/AK-HSDHs</i>	-0.2134	0.5538
Free His	<i>AKs+AK-HSDHs</i>	0.2479	0.4897
Free His	<i>AKs+AK-HSDHs+CGS1</i>	0.3889	0.2667
Free His	<i>AKs+AK-HSDHs+DHDPSs</i>	0.2773	0.4379
Free His	<i>AKs+AK-HSDHs+TS1</i>	0.4883	0.1522
Free His	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.5285	0.1163
Free His	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.4864	0.1540
Free His	<i>AKs+DHDPSs</i>	0.1420	0.6955
Free His	<i>BCAT1</i>	-0.8164	0.0040
Free His	Biosynthetic genes analyzed	0.5805	0.0785
Free His	Catabolic genes analyzed	0.6273	0.0522
Free His	<i>CGS1</i>	0.6811	0.0301
Free His	<i>CGS1/SAMs</i>	-0.2778	0.4371
Free His	<i>CGS1/TS1</i>	-0.1202	0.7408
Free His	<i>DHDPS1</i>	0.4596	0.1814
Free His	<i>DHDPS2</i>	0.7993	0.0055
Free His	<i>DHDPSs</i>	0.8274	0.0031
Free His	<i>DHDPSs/AK-HSDHs</i>	-0.2745	0.4427
Free His	<i>DHDPSs/LKR-SDH1</i>	0.5692	0.0859
Free His	Free Ala	0.7851	0.0071
Free His	Free Arg	0.9024	0.0004
Free His	Free Asn	0.9428	<.0001
Free His	Free Asp	0.7028	0.0234
Free His	Free Cys	0.2384	0.5072
Free His	Free Gln	0.9028	0.0003
Free His	Free Glu	0.6327	0.0496
Free His	Free Gly	0.6264	0.0527
Free His	HSDH activity with four effectors	0.5334	0.1123
Free His	HSDH activity without effectors	0.1896	0.5998

Free His	<i>LKR-SDH1</i>	-0.2605	0.4673
Free His	Lys-sensitive AK activity	-0.3732	0.2882
Free His	Lys-sensitive AK activity/Thr-sensitive AK activity	0.0112	0.9755
Free His	SAMS1	0.7288	0.0168
Free His	SAMS2	0.7343	0.0156
Free His	<i>SAMS3</i>	0.3219	0.3644
Free His	SAMS4	0.6731	0.0329
Free His	SAMSS	0.6262	0.0528
Free His	TD1	0.8736	0.0010
Free His	TD1/BCAT1	0.6083	0.0621
Free His	THA1	-0.5628	0.0903
Free His	<i>THA2</i>	0.2188	0.5436
Free His	<i>THAs</i>	0.1892	0.6007
Free His	THAs+TD1	0.8787	0.0008
Free His	Thr-sensitive AK activity	-0.0181	0.9604
Free His	TSI	0.6239	0.0539
Free His	TSI/(THAs+TD1)	-0.6163	0.0577
Free His	TSI/TD1	-0.5855	0.0753
Free His	TSI/THAs	0.5304	0.1147
Free Ile	(AK-HSDHs+CGS1)/SAMSS	0.1184	0.7446
Free Ile	(AK-HSDHs+TS1)/(THAs+TD1)	-0.4602	0.1807
Free Ile	(AK-HSDHs+TS1+TD1)/BCAT1	0.3940	0.2599
Free Ile	(AKs+AK-HSDHs)/AK-HSDHs	0.0821	0.8215
Free Ile	(AKs+AK-HSDHs+CGS1)/SAMSS	0.1035	0.7760
Free Ile	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.1826	0.6137
Free Ile	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.4865	0.1539
Free Ile	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.3871	0.2691
Free Ile	(AKs+DHDPSS)/LKR-SDH1	-0.1902	0.5987
Free Ile	AK activity with four effectors	0.1271	0.7263
Free Ile	AK activity without effectors	0.2958	0.4066
Free Ile	AK activity/HSDH activity with four effectors	-0.1388	0.7021
Free Ile	AK activity/HSDH activity without effectors	-0.1527	0.6736
Free Ile	AK1	-0.4080	0.2418
Free Ile	<i>AK1+AK2</i>	0.1297	0.7209
Free Ile	<i>AK1+AK3</i>	-0.3643	0.3007
Free Ile	<i>AK2</i>	0.2096	0.5611
Free Ile	<i>AK2+AK3</i>	0.2036	0.5726
Free Ile	<i>AK3</i>	0.0072	0.9842
Free Ile	<i>AK-HSDH1</i>	0.1238	0.7333
Free Ile	<i>AK-HSDH2</i>	-0.0194	0.9575
Free Ile	<i>AK-HSDHs</i>	0.0599	0.8694
Free Ile	<i>AK-HSDHs+CGS1</i>	0.2845	0.4256
Free Ile	AK-HSDHs+TS1	0.5377	0.1089
Free Ile	AK-HSDHs+TS1+TD1	0.5597	0.0925
Free Ile	AK-HSDHs+TS1+THAs	0.5517	0.0983
Free Ile	<i>AKs</i>	0.1282	0.7242
Free Ile	<i>AKs/AK-HSDHs</i>	0.0821	0.8215
Free Ile	<i>AKs+AK-HSDHs</i>	0.1495	0.6801
Free Ile	<i>AKs+AK-HSDHs+CGS1</i>	0.2490	0.4879
Free Ile	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1691	0.6405
Free Ile	AKs+AK-HSDHs+TS1	0.4369	0.2068
Free Ile	AKs+AK-HSDHs+TS1+TD1	0.4609	0.1800
Free Ile	AKs+AK-HSDHs+TS1+THAs	0.4422	0.2006
Free Ile	<i>AKs+DHDPSS</i>	0.1494	0.6804
Free Ile	BCAT1	-0.4659	0.1748
Free Ile	Biosynthetic genes analyzed	0.4900	0.1506
Free Ile	Catabolic genes analyzed	0.1736	0.6315

Free Ile	<i>CGS1</i>	0.4694	0.1711
Free Ile	<i>CGS1/SAMSS</i>	0.1711	0.6364
Free Ile	<i>CGS1/TS1</i>	-0.3868	0.2695
Free Ile	DHDPS1	0.6690	0.0344
Free Ile	<i>DHDPS2</i>	0.2548	0.4775
Free Ile	DHDPSs	0.5613	0.0914
Free Ile	<i>DHDPSs/AK-HSDHs</i>	0.1187	0.7440
Free Ile	<i>DHDPSs/LKR-SDH1</i>	0.0651	0.8582
Free Ile	Free Ala	0.4919	0.1487
Free Ile	Free Arg	0.4947	0.1460
Free Ile	Free Asn	0.4443	0.1983
Free Ile	Free Asp	0.2024	0.5750
Free Ile	Free Cys	0.4324	0.2120
Free Ile	Free Gln	0.3515	0.3192
Free Ile	Free Glu	0.1440	0.6915
Free Ile	Free Gly	0.1316	0.7171
Free Ile	Free His	0.5512	0.0986
Free Ile	HSDH activity with four effectors	0.3951	0.2584
Free Ile	HSDH activity without effectors	0.4146	0.2336
Free Ile	<i>LKR-SDH1</i>	0.2554	0.4764
Free Ile	Lys-sensitive AK activity	0.0164	0.9641
Free Ile	Lys-sensitive AK activity/Thr-sensitive AK activity	0.3737	0.2875
Free Ile	<i>SAMS1</i>	0.3867	0.2696
Free Ile	SAMS2	0.7854	0.0071
Free Ile	<i>SAMS3</i>	-0.0518	0.8869
Free Ile	<i>SAMS4</i>	0.2817	0.4304
Free Ile	<i>SAMSS</i>	0.1685	0.6418
Free Ile	TD1	0.5921	0.0713
Free Ile	TD1/BCAT1	0.4107	0.2384
Free Ile	<i>THA1</i>	-0.0788	0.8287
Free Ile	THA2	0.7280	0.0170
Free Ile	THAs	0.6990	0.0245
Free Ile	THAs+TD1	0.7197	0.0189
Free Ile	Thr-sensitive AK activity	-0.1850	0.6089
Free Ile	TS1	0.6774	0.0314
Free Ile	TS1/(THAs+TD1)	-0.4377	0.2059
Free Ile	TS1/TD1	-0.5386	0.1082
Free Ile	<i>TS1/THAs</i>	0.1413	0.6971
Free Ile/Thr	(AK-HSDHs+CGS1)/SAMSS	0.0498	0.8914
Free Ile/Thr	(AK-HSDHs+TS1)/(THAs+TD1)	0.2434	0.4980
Free Ile/Thr	(AK-HSDHs+TS1+TD1)/BCAT1	0.0337	0.9264
Free Ile/Thr	(AKs+AK-HSDHs)/AK-HSDHs	-0.6946	0.0258
Free Ile/Thr	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.6214	0.0551
Free Ile/Thr	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	-0.0889	0.8071
Free Ile/Thr	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.1801	0.6186
Free Ile/Thr	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.0049	0.9894
Free Ile/Thr	(AKs+DHDPSs)/LKR-SDH1	-0.2670	0.4558
Free Ile/Thr	AK activity with four effectors	-0.5285	0.1163
Free Ile/Thr	AK activity without effectors	-0.5260	0.1184
Free Ile/Thr	AK activity/HSDH activity with four effectors	-0.7412	0.0142
Free Ile/Thr	AK activity/HSDH activity without effectors	-0.6581	0.0386
Free Ile/Thr	<i>AK1</i>	-0.0685	0.8509
Free Ile/Thr	AK1+AK2	-0.7790	0.0079
Free Ile/Thr	<i>AK1+AK3</i>	0.0222	0.9514
Free Ile/Thr	AK2	-0.7370	0.0150
Free Ile/Thr	AK2+AK3	-0.6959	0.0254
Free Ile/Thr	<i>AK3</i>	0.1224	0.7362
Free Ile/Thr	<i>AK-HSDH1</i>	0.3703	0.2921

Free Ile/Thr	<i>AK-HSDH2</i>	0.2988	0.4017
Free Ile/Thr	<i>AK-HSDHs</i>	0.4028	0.2485
Free Ile/Thr	<i>AK-HSDHs+CGS1</i>	0.2903	0.4159
Free Ile/Thr	<i>AK-HSDHs+TSI</i>	0.1818	0.6152
Free Ile/Thr	<i>AK-HSDHs+TSI+TD1</i>	0.1741	0.6305
Free Ile/Thr	<i>AK-HSDHs+TSI+THAs</i>	0.1710	0.6367
Free Ile/Thr	<i>AKs</i>	-0.7440	0.0136
Free Ile/Thr	<i>AKs/AK-HSDHs</i>	-0.6946	0.0258
Free Ile/Thr	<i>AKs+AK-HSDHs</i>	-0.6674	0.0350
Free Ile/Thr	<i>AKs+AK-HSDHs+CGS1</i>	-0.6049	0.0639
Free Ile/Thr	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.6604	0.0377
Free Ile/Thr	<i>AKs+AK-HSDHs+TSI</i>	-0.4942	0.1465
Free Ile/Thr	<i>AKs+AK-HSDHs+TSI+TD1</i>	-0.4759	0.1644
Free Ile/Thr	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.5002	0.1409
Free Ile/Thr	<i>AKs+DHDPSS</i>	-0.7399	0.0144
Free Ile/Thr	<i>BCAT1</i>	-0.0479	0.8955
Free Ile/Thr	Biosynthetic genes analyzed	-0.4263	0.2192
Free Ile/Thr	Catabolic genes analyzed	0.2083	0.5637
Free Ile/Thr	<i>CGS1</i>	0.1087	0.7651
Free Ile/Thr	<i>CGS1/SAMSS</i>	-0.1830	0.6128
Free Ile/Thr	<i>CGS1/TSI</i>	-0.0690	0.8498
Free Ile/Thr	<i>DHDPS1</i>	-0.1768	0.6251
Free Ile/Thr	<i>DHDPS2</i>	0.2038	0.5722
Free Ile/Thr	<i>DHDPSs</i>	0.0214	0.9532
Free Ile/Thr	<i>DHDPSs/AK-HSDHs</i>	-0.4014	0.2502
Free Ile/Thr	<i>DHDPSs/LKR-SDH1</i>	0.3652	0.2994
Free Ile/Thr	Free (Lys+Met+Thr+Ile)/Asp	-0.8292	0.0030
Free Ile/Thr	Free Ala	0.3179	0.3707
Free Ile/Thr	Free Arg	0.0639	0.8608
Free Ile/Thr	Free Asn	0.0371	0.9190
Free Ile/Thr	Free Asn+Asp	0.1726	0.6336
Free Ile/Thr	Free Asn+Asp+Lys+Met+Thr+Ile	-0.6892	0.0275
Free Ile/Thr	Free Asn+Asp+Lys+Thr+Ile	-0.6918	0.0267
Free Ile/Thr	Free Asp	0.1852	0.6085
Free Ile/Thr	Free Asp+Lys+Met+Thr+Ile	-0.7113	0.0211
Free Ile/Thr	Free Cys	-0.7931	0.0062
Free Ile/Thr	Free Gln	0.0586	0.8723
Free Ile/Thr	Free Glu	-0.1395	0.7006
Free Ile/Thr	Free Gly	0.1395	0.7008
Free Ile/Thr	Free Gly/Thr	0.8894	0.0006
Free Ile/Thr	Free Gly+Ile	0.1206	0.7401
Free Ile/Thr	Free His	0.0299	0.9346
Free Ile/Thr	Free Ile	-0.2762	0.4399
Free Ile/Thr	Free Leu	0.2099	0.5605
Free Ile/Thr	Free Lys	0.0452	0.9014
Free Ile/Thr	Free Lys/(Met+Thr+Ile)	0.9804	<.0001
Free Ile/Thr	Free Lys/Thr	0.9837	<.0001
Free Ile/Thr	Free Lys+Met+Thr+Ile	-0.8338	0.0027
Free Ile/Thr	Free Met	0.1667	0.6454
Free Ile/Thr	Free Met/Thr	0.9469	<.0001
Free Ile/Thr	Free Met+Thr+Ile	-0.8343	0.0027
Free Ile/Thr	Free Phe	0.3469	0.3261
Free Ile/Thr	Free Pro	0.0668	0.8545
Free Ile/Thr	Free Ser	0.5149	0.1278
Free Ile/Thr	Free Thr	-0.8340	0.0027
Free Ile/Thr	Free Trp	0.3808	0.2776
Free Ile/Thr	Free Tyr	0.3038	0.3935
Free Ile/Thr	Free Val	0.3857	0.2709

Free Ile/Thr	HSDH activity with four effectors	0.2711	0.4486
Free Ile/Thr	HSDH activity without effectors	0.2419	0.5008
Free Ile/Thr	<i>LKR-SDH1</i>	-0.3050	0.3914
Free Ile/Thr	Lys-sensitive AK activity	-0.6586	0.0384
Free Ile/Thr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.6391	0.0467
Free Ile/Thr	<i>SAMS1</i>	0.3076	0.3873
Free Ile/Thr	<i>SAMS2</i>	-0.0852	0.8149
Free Ile/Thr	<i>SAMS3</i>	0.0807	0.8247
Free Ile/Thr	<i>SAMS4</i>	0.2611	0.4662
Free Ile/Thr	<i>SAMSS</i>	0.2111	0.5583
Free Ile/Thr	<i>TD1</i>	0.0735	0.8401
Free Ile/Thr	<i>TD1/BCAT1</i>	0.0429	0.9063
Free Ile/Thr	<i>THA1</i>	0.1669	0.6450
Free Ile/Thr	THA2	-0.5484	0.1007
Free Ile/Thr	THAs	-0.5894	0.0730
Free Ile/Thr	<i>THAs+TD1</i>	-0.0374	0.9184
Free Ile/Thr	Thr-sensitive AK activity	0.7050	0.0228
Free Ile/Thr	Total free AAs	-0.1175	0.7464
Free Ile/Thr	<i>TSI</i>	0.0611	0.8669
Free Ile/Thr	<i>TSI/(THAs+TD1)</i>	0.2103	0.5598
Free Ile/Thr	<i>TSI/TD1</i>	0.1671	0.6444
Free Ile/Thr	<i>TSI/THAs</i>	0.3504	0.3209
Free Leu	(AK-HSDHs+CGS1)/SAMSS	-0.0832	0.8192
Free Leu	(AK-HSDHs+TSI)/(THAs+TD1)	-0.5010	0.1402
Free Leu	(AK-HSDHs+TSI+TD1)/BCAT1	0.7077	0.0220
Free Leu	(AKs+AK-HSDHs)/AK-HSDHs	-0.3139	0.3772
Free Leu	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2356	0.5123
Free Leu	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.0436	0.9048
Free Leu	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	-0.6386	0.0469
Free Leu	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	0.6999	0.0242
Free Leu	(AKs+DHDPSS)/LKR-SDH1	-0.0371	0.9190
Free Leu	AK activity with four effectors	-0.0671	0.8540
Free Leu	AK activity without effectors	-0.1962	0.5870
Free Leu	AK activity/HSDH activity with four effectors	-0.3338	0.3459
Free Leu	AK activity/HSDH activity without effectors	-0.2694	0.4517
Free Leu	<i>AK1</i>	-0.1406	0.6984
Free Leu	<i>AK1+AK2</i>	-0.0722	0.8428
Free Leu	<i>AK1+AK3</i>	-0.0941	0.7961
Free Leu	<i>AK2</i>	-0.0398	0.9131
Free Leu	<i>AK2+AK3</i>	-0.0316	0.9309
Free Leu	<i>AK3</i>	0.0472	0.8970
Free Leu	<i>AK-HSDH1</i>	0.0722	0.8429
Free Leu	AK-HSDH2	0.6243	0.0537
Free Leu	AK-HSDHs	0.4506	0.1912
Free Leu	AK-HSDHs+CGS1	0.5980	0.0679
Free Leu	AK-HSDHs+TSI	0.6289	0.0514
Free Leu	AK-HSDHs+TSI+TD1	0.6678	0.0348
Free Leu	AK-HSDHs+TSI+THAs	0.6299	0.0510
Free Leu	<i>AKs</i>	-0.0628	0.8631
Free Leu	<i>AKs/AK-HSDHs</i>	-0.3139	0.3772
Free Leu	<i>AKs+AK-HSDHs</i>	0.0540	0.8821
Free Leu	<i>AKs+AK-HSDHs+CGS1</i>	0.1971	0.5851
Free Leu	<i>AKs+AK-HSDHs+DHDPSS</i>	0.0862	0.8127
Free Leu	<i>AKs+AK-HSDHs+TSI</i>	0.3366	0.3417
Free Leu	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.3802	0.2785
Free Leu	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3343	0.3451
Free Leu	<i>AKs+DHDPSS</i>	-0.0283	0.9381

Free Leu	<i>BCAT1</i>	-0.8518	0.0018
Free Leu	Biosynthetic genes analyzed	0.4377	0.2058
Free Leu	Catabolic genes analyzed	0.5547	0.0961
Free Leu	<i>CGS1</i>	0.6417	0.0455
Free Leu	<i>CGS1/SAMSS</i>	-0.2042	0.5715
Free Leu	<i>CGS1/TS1</i>	-0.1810	0.6168
Free Leu	<i>DHDPS1</i>	0.5491	0.1002
Free Leu	<i>DHDPS2</i>	0.7661	0.0098
Free Leu	<i>DHDPSs</i>	0.8498	0.0019
Free Leu	<i>DHDPSs/AK-HSDHs</i>	-0.2506	0.4849
Free Leu	<i>DHDPSs/LKR-SDH1</i>	0.5281	0.1166
Free Leu	Free Ala	0.8538	0.0017
Free Leu	Free Arg	0.8204	0.0036
Free Leu	Free Asn	0.8901	0.0006
Free Leu	Free Asp	0.7282	0.0169
Free Leu	Free Cys	0.1520	0.6750
Free Leu	Free Gln	0.8413	0.0023
Free Leu	Free Glu	0.5385	0.1083
Free Leu	Free Gly	0.6373	0.0475
Free Leu	Free His	0.9195	0.0002
Free Leu	Free Ile	0.5983	0.0677
Free Leu	HSDH activity with four effectors	0.5628	0.0903
Free Leu	HSDH activity without effectors	0.2941	0.4095
Free Leu	<i>LKR-SDH1</i>	-0.1811	0.6165
Free Leu	Lys-sensitive AK activity	-0.5077	0.1341
Free Leu	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.1851	0.6087
Free Leu	<i>SAMS1</i>	0.7818	0.0076
Free Leu	<i>SAMS2</i>	0.7420	0.0140
Free Leu	<i>SAMS3</i>	0.2121	0.5564
Free Leu	<i>SAMS4</i>	0.6069	0.0628
Free Leu	<i>SAMSS</i>	0.5538	0.0967
Free Leu	<i>TD1</i>	0.8626	0.0013
Free Leu	<i>TD1/BCAT1</i>	0.7534	0.0119
Free Leu	<i>THA1</i>	-0.3242	0.3608
Free Leu	<i>THA2</i>	0.1549	0.6692
Free Leu	<i>THAs</i>	0.1234	0.7341
Free Leu	<i>THAs+TD1</i>	0.8593	0.0014
Free Leu	Thr-sensitive AK activity	0.0912	0.8021
Free Leu	<i>TS1</i>	0.6245	0.0536
Free Leu	<i>TS1/(THAs+TD1)</i>	-0.6106	0.0608
Free Leu	<i>TS1/TD1</i>	-0.6605	0.0376
Free Leu	<i>TS1/THAs</i>	0.5376	0.1090
Free Lys	(AK-HSDHs+CGS1)/SAMSS	0.0400	0.9127
Free Lys	(AK-HSDHs+TS1)/(THAs+TD1)	-0.5708	0.0848
Free Lys	(AK-HSDHs+TS1+TD1)/BCAT1	0.7606	0.0106
Free Lys	(AKs+AK-HSDHs)/AK-HSDHs	-0.1071	0.7683
Free Lys	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.0342	0.9253
Free Lys	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.0487	0.8937
Free Lys	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.5852	0.0756
Free Lys	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.7622	0.0104
Free Lys	(AKs+DHDPSs)/LKR-SDH1	0.0232	0.9493
Free Lys	AK activity with four effectors	0.0058	0.9872
Free Lys	AK activity without effectors	-0.1483	0.6826
Free Lys	AK activity/HSDH activity with four effectors	-0.2127	0.5552
Free Lys	AK activity/HSDH activity without effectors	-0.1233	0.7344
Free Lys	<i>AK1</i>	-0.1522	0.6747
Free Lys	<i>AK1+AK2</i>	0.1136	0.7547
Free Lys	<i>AK1+AK3</i>	-0.1296	0.7213

Free Lys	<i>AK2</i>	0.1419	0.6957
Free Lys	<i>AK2+AK3</i>	0.1394	0.7010
Free Lys	<i>AK3</i>	0.0155	0.9662
Free Lys	<i>AK-HSDH1</i>	-0.1182	0.7450
Free Lys	<i>AK-HSDH2</i>	0.5536	0.0968
Free Lys	<i>AK-HSDHs</i>	0.2979	0.4031
Free Lys	<i>AK-HSDHs+CGS1</i>	0.4971	0.1438
Free Lys	<i>AK-HSDHs+TS1</i>	0.4965	0.1444
Free Lys	<i>AK-HSDHs+TS1+TD1</i>	0.5372	0.1093
Free Lys	<i>AK-HSDHs+TS1+THAs</i>	0.5004	0.1407
Free Lys	<i>AKs</i>	0.1142	0.7535
Free Lys	<i>AKs/AK-HSDHs</i>	-0.1071	0.7683
Free Lys	<i>AKs+AK-HSDHs</i>	0.1976	0.5842
Free Lys	<i>AKs+AK-HSDHs+CGS1</i>	0.3270	0.3564
Free Lys	<i>AKs+AK-HSDHs+DHDPSS</i>	0.2253	0.5314
Free Lys	<i>AKs+AK-HSDHs+TS1</i>	0.3991	0.2532
Free Lys	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.4359	0.2079
Free Lys	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.3987	0.2538
Free Lys	<i>AKs+DHDPSS</i>	0.1447	0.6900
Free Lys	<i>BCAT1</i>	-0.8902	0.0006
Free Lys	Biosynthetic genes analyzed	0.4875	0.1529
Free Lys	Catabolic genes analyzed	0.4098	0.2396
Free Lys	<i>CGS1</i>	0.6166	0.0576
Free Lys	<i>CGS1/SAMSS</i>	-0.0288	0.9370
Free Lys	<i>CGS1/TS1</i>	-0.0407	0.9110
Free Lys	<i>DHDPS1</i>	0.5311	0.1142
Free Lys	<i>DHDPS2</i>	0.6690	0.0344
Free Lys	<i>DHDPSs</i>	0.7704	0.0091
Free Lys	<i>DHDPSs/AK-HSDHs</i>	-0.1031	0.7769
Free Lys	<i>DHDPSs/LKR-SDH1</i>	0.3876	0.2684
Free Lys	Free Ala	0.7653	0.0099
Free Lys	Free Arg	0.8426	0.0022
Free Lys	Free Asn	0.8832	0.0007
Free Lys	Free Asp	0.7091	0.0217
Free Lys	<i>Free Cys</i>	0.2438	0.4973
Free Lys	Free Gln	0.8201	0.0037
Free Lys	Free Glu	0.6085	0.0619
Free Lys	Free Gly	0.5459	0.1026
Free Lys	Free His	0.9154	0.0002
Free Lys	Free Ile	0.6085	0.0619
Free Lys	Free Leu	0.9672	<.0001
Free Lys	HSDH activity with four effectors	0.5035	0.1379
Free Lys	<i>HSDH activity without effectors</i>	0.1982	0.5831
Free Lys	<i>LKR-SDH1</i>	-0.1051	0.7726
Free Lys	<i>Lys-sensitive AK activity</i>	-0.3984	0.2541
Free Lys	<i>Lys-sensitive AK activity/Thr-sensitive AK activity</i>	-0.0016	0.9964
Free Lys	<i>SAMS1</i>	0.7123	0.0208
Free Lys	<i>SAMS2</i>	0.7001	0.0242
Free Lys	<i>SAMS3</i>	0.0846	0.8163
Free Lys	<i>SAMS4</i>	0.4542	0.1873
Free Lys	<i>SAMSS</i>	0.4091	0.2404
Free Lys	<i>TD1</i>	0.7818	0.0076
Free Lys	<i>TD1/BCAT1</i>	0.7991	0.0055
Free Lys	<i>THA1</i>	-0.3406	0.3355
Free Lys	<i>THA2</i>	0.2950	0.4080
Free Lys	<i>THAs</i>	0.2760	0.4402
Free Lys	<i>THAs+TD1</i>	0.8081	0.0047
Free Lys	Thr-sensitive AK activity	-0.1153	0.7512

Free Lys	<i>TSI</i>	0.5186	0.1246
Free Lys	<i>TSI/(THAs+TDI)</i>	-0.6673	0.0350
Free Lys	<i>TSI/TDI</i>	-0.6834	0.0294
Free Lys	<i>TSI/THAs</i>	0.3530	0.3171
Free Lys/(Met+Thr+Ile)	<i>(AK-HSDHs+CGS1)/SAMSS</i>	0.0020	0.9955
Free Lys/(Met+Thr+Ile)	<i>(AK-HSDHs+TSI)/(THAs+TDI)</i>	0.1611	0.6567
Free Lys/(Met+Thr+Ile)	<i>(AK-HSDHs+TSI+TDI)/BCAT1</i>	0.1665	0.6456
Free Lys/(Met+Thr+Ile)	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.7191	0.0191
Free Lys/(Met+Thr+Ile)	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.6321	0.0499
Free Lys/(Met+Thr+Ile)	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.0342	0.9253
Free Lys/(Met+Thr+Ile)	<i>(AKs+AK-HSDHs+TSI)/(THAs+TDI)</i>	-0.2465	0.4924
Free Lys/(Met+Thr+Ile)	<i>(AKs+AK-HSDHs+TSI+TDI)/BCAT1</i>	0.1397	0.7004
Free Lys/(Met+Thr+Ile)	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.2139	0.5529
Free Lys/(Met+Thr+Ile)	AK activity with four effectors	-0.5071	0.1347
Free Lys/(Met+Thr+Ile)	AK activity without effectors	-0.5678	0.0868
Free Lys/(Met+Thr+Ile)	AK activity/HSDH activity with four effectors	-0.7320	0.0161
Free Lys/(Met+Thr+Ile)	AK activity/HSDH activity without effectors	-0.6433	0.0448
Free Lys/(Met+Thr+Ile)	<i>AK1</i>	-0.0194	0.9575
Free Lys/(Met+Thr+Ile)	AK1+AK2	-0.7303	0.0165
Free Lys/(Met+Thr+Ile)	<i>AK1+AK3</i>	0.0499	0.8911
Free Lys/(Met+Thr+Ile)	AK2	-0.7000	0.0242
Free Lys/(Met+Thr+Ile)	AK2+AK3	-0.6638	0.0364
Free Lys/(Met+Thr+Ile)	<i>AK3</i>	0.1003	0.7828
Free Lys/(Met+Thr+Ile)	<i>AK-HSDH1</i>	0.3357	0.3429
Free Lys/(Met+Thr+Ile)	AK-HSDH2	0.4355	0.2083
Free Lys/(Met+Thr+Ile)	AK-HSDHs	0.4729	0.1675
Free Lys/(Met+Thr+Ile)	<i>AK-HSDHs+CGS1</i>	0.3716	0.2904
Free Lys/(Met+Thr+Ile)	<i>AK-HSDHs+TSI</i>	0.2341	0.5151
Free Lys/(Met+Thr+Ile)	<i>AK-HSDHs+TSI+TDI</i>	0.2339	0.5154
Free Lys/(Met+Thr+Ile)	<i>AK-HSDHs+TSI+THAs</i>	0.2222	0.5371
Free Lys/(Met+Thr+Ile)	AKs	-0.7001	0.0242
Free Lys/(Met+Thr+Ile)	AKs/AK-HSDHs	-0.7191	0.0191
Free Lys/(Met+Thr+Ile)	AKs+AK-HSDHs	-0.6031	0.0649
Free Lys/(Met+Thr+Ile)	AKs+AK-HSDHs+CGS1	-0.5266	0.1179
Free Lys/(Met+Thr+Ile)	AKs+AK-HSDHs+DHDPSS	-0.5915	0.0717
Free Lys/(Met+Thr+Ile)	AKs+AK-HSDHs+TSI	-0.4263	0.2192
Free Lys/(Met+Thr+Ile)	AKs+AK-HSDHs+TSI+TDI	-0.4026	0.2488
Free Lys/(Met+Thr+Ile)	AKs+AK-HSDHs+TSI+THAs	-0.4332	0.2111
Free Lys/(Met+Thr+Ile)	AKs+DHDPSS	-0.6907	0.0270
Free Lys/(Met+Thr+Ile)	<i>BCAT1</i>	-0.1949	0.5895
Free Lys/(Met+Thr+Ile)	Biosynthetic genes analyzed	-0.3479	0.3246
Free Lys/(Met+Thr+Ile)	Catabolic genes analyzed	0.3089	0.3851
Free Lys/(Met+Thr+Ile)	<i>CGS1</i>	0.1873	0.6043
Free Lys/(Met+Thr+Ile)	<i>CGS1/SAMSS</i>	-0.2499	0.4862
Free Lys/(Met+Thr+Ile)	<i>CGS1/TSI</i>	-0.0377	0.9176
Free Lys/(Met+Thr+Ile)	<i>DHDPS1</i>	-0.1163	0.7491
Free Lys/(Met+Thr+Ile)	<i>DHDPS2</i>	0.3375	0.3403
Free Lys/(Met+Thr+Ile)	<i>DHDPSs</i>	0.1521	0.6748
Free Lys/(Met+Thr+Ile)	DHDPSs/AK-HSDHs	-0.4530	0.1886
Free Lys/(Met+Thr+Ile)	DHDPSs/LKR-SDH1	0.4583	0.1828
Free Lys/(Met+Thr+Ile)	Free (Lys+Met+Thr+Ile)/Asp	-0.8918	0.0005
Free Lys/(Met+Thr+Ile)	Free Ala	0.4253	0.2205
Free Lys/(Met+Thr+Ile)	Free Arg	0.1946	0.5900
Free Lys/(Met+Thr+Ile)	Free Asn	0.1953	0.5887
Free Lys/(Met+Thr+Ile)	Free Asn+Asp	0.3149	0.3755
Free Lys/(Met+Thr+Ile)	Free Asn+Asp+Lys+Met+Thr+Ile	-0.6425	0.0451
Free Lys/(Met+Thr+Ile)	Free Asn+Asp+Lys+Thr+Ile	-0.6463	0.0435

Free Lys/(Met+Thr+Ile)	Free Asp	0.3224	0.3636
Free Lys/(Met+Thr+Ile)	Free Asp+Lys+Met+Thr+Ile	-0.6744	0.0324
Free Lys/(Met+Thr+Ile)	Free Cys	-0.7243	0.0178
Free Lys/(Met+Thr+Ile)	Free Gln	0.2206	0.5402
Free Lys/(Met+Thr+Ile)	Free Glu	-0.0147	0.9679
Free Lys/(Met+Thr+Ile)	Free Gly	0.2816	0.4305
Free Lys/(Met+Thr+Ile)	Free Gly+Ile	0.2630	0.4629
Free Lys/(Met+Thr+Ile)	Free His	0.1760	0.6267
Free Lys/(Met+Thr+Ile)	Free Ile	-0.2492	0.4875
Free Lys/(Met+Thr+Ile)	Free Leu	0.3549	0.3143
Free Lys/(Met+Thr+Ile)	Free Lys	0.1990	0.5815
Free Lys/(Met+Thr+Ile)	Free Lys+Met+Thr+Ile	-0.8534	0.0017
Free Lys/(Met+Thr+Ile)	Free Met	0.2886	0.4187
Free Lys/(Met+Thr+Ile)	Free Met+Thr+Ile	-0.8595	0.0014
Free Lys/(Met+Thr+Ile)	Free Phe	0.4719	0.1685
Free Lys/(Met+Thr+Ile)	Free Pro	0.2422	0.5001
Free Lys/(Met+Thr+Ile)	Free Ser	0.6119	0.0601
Free Lys/(Met+Thr+Ile)	Free Thr	-0.8621	0.0013
Free Lys/(Met+Thr+Ile)	Free Trp	0.5125	0.1298
Free Lys/(Met+Thr+Ile)	Free Tyr	0.3874	0.2687
Free Lys/(Met+Thr+Ile)	Free Val	0.4576	0.1836
Free Lys/(Met+Thr+Ile)	HSDH activity with four effectors	0.3405	0.3356
Free Lys/(Met+Thr+Ile)	HSDH activity without effectors	0.2418	0.5009
<i>LKR-SDH1</i>		-0.3659	0.2984
Free Lys/(Met+Thr+Ile)	Lys-sensitive AK activity	-0.7232	0.0181
Free Lys/(Met+Thr+Ile)	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.6860	0.0285
Free Lys/(Met+Thr+Ile)	SAMS1	0.4122	0.2366
Free Lys/(Met+Thr+Ile)	<i>SAMS2</i>	-0.0149	0.9674
Free Lys/(Met+Thr+Ile)	<i>SAMS3</i>	0.1471	0.6850
Free Lys/(Met+Thr+Ile)	<i>SAMS4</i>	0.3445	0.3296
Free Lys/(Met+Thr+Ile)	<i>SAMSS</i>	0.3121	0.3799
Free Lys/(Met+Thr+Ile)	<i>TD1</i>	0.1931	0.5930
Free Lys/(Met+Thr+Ile)	<i>TD1/BCAT1</i>	0.1844	0.6100
Free Lys/(Met+Thr+Ile)	<i>THA1</i>	0.0782	0.8300
Free Lys/(Met+Thr+Ile)	THA2	-0.5718	0.0842
Free Lys/(Met+Thr+Ile)	THAs	-0.6148	0.0586
Free Lys/(Met+Thr+Ile)	<i>THAs+TD1</i>	0.0714	0.8447
Free Lys/(Met+Thr+Ile)	Thr-sensitive AK activity	0.6639	0.0363
Free Lys/(Met+Thr+Ile)	Total free AAs	0.0284	0.9380
<i>TS1</i>		0.0985	0.7867
Free Lys/(Met+Thr+Ile)	<i>TS1/(THAs+TD1)</i>	0.0943	0.7956
Free Lys/(Met+Thr+Ile)	<i>TS1/TD1</i>	0.0632	0.8624
Free Lys/(Met+Thr+Ile)	TS1/THAs	0.4411	0.2020
Free Lys/Asp	(AK-HSDHs+CGS1)/SAMSS	0.5986	0.0675
Free Lys/Asp	(AK-HSDHs+TS1)/(THAs+TD1)	0.4067	0.2435
Free Lys/Asp	(AK-HSDHs+TS1+TD1)/BCAT1	0.4628	0.1780
Free Lys/Asp	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.0682	0.8516
Free Lys/Asp	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	0.2047	0.5704
Free Lys/Asp	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.4479	0.1942
Free Lys/Asp	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.4200	0.2269
Free Lys/Asp	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.4575	0.1837
Free Lys/Asp	(AKs+DHDPSs)/LKR-SDH1	0.4635	0.1773
Free Lys/Asp	AK activity with four effectors	0.6771	0.0315
Free Lys/Asp	AK activity without effectors	0.7785	0.0080
Free Lys/Asp	AK activity/HSDH activity with four effectors	0.1690	0.6408
Free Lys/Asp	AK activity/HSDH activity without effectors	0.0229	0.9499
Free Lys/Asp	<i>AK1</i>	-0.2283	0.5258
Free Lys/Asp	<i>AK1+AK2</i>	0.2848	0.4252

Free Lys/Asp	<i>AK1+AK3</i>	-0.5783	0.0799
Free Lys/Asp	<i>AK2</i>	0.3219	0.3644
Free Lys/Asp	<i>AK2+AK3</i>	0.2310	0.5208
Free Lys/Asp	<i>AK3</i>	-0.4697	0.1708
Free Lys/Asp	<i>AK-HSDH1</i>	0.3972	0.2557
Free Lys/Asp	<i>AK-HSDH2</i>	-0.0551	0.8798
Free Lys/Asp	<i>AK-HSDHs</i>	0.1920	0.5951
Free Lys/Asp	<i>AK-HSDHs+CGS1</i>	0.3809	0.2775
Free Lys/Asp	<i>AK-HSDHs+TSI</i>	0.3116	0.3809
Free Lys/Asp	<i>AK-HSDHs+TSI+TDI</i>	0.2701	0.4504
Free Lys/Asp	<i>AK-HSDHs+TSI+THAs</i>	0.3223	0.3638
Free Lys/Asp	<i>AKs</i>	0.1938	0.5917
Free Lys/Asp	<i>AKs/AK-HSDHs</i>	-0.0682	0.8516
Free Lys/Asp	<i>AKs+AK-HSDHs</i>	0.2515	0.4834
Free Lys/Asp	<i>AKs+AK-HSDHs+CGS1</i>	0.3547	0.3146
Free Lys/Asp	<i>AKs+AK-HSDHs+DHDPSS</i>	0.2432	0.4983
Free Lys/Asp	<i>AKs+AK-HSDHs+TSI</i>	0.3505	0.3208
Free Lys/Asp	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.3265	0.3572
Free Lys/Asp	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3556	0.3132
Free Lys/Asp	<i>AKs+DHDPSS</i>	0.1875	0.6040
Free Lys/Asp	<i>BCAT1</i>	0.3207	0.3662
Free Lys/Asp	Biosynthetic genes analyzed	0.3990	0.2534
Free Lys/Asp	Catabolic genes analyzed	-0.0235	0.9486
Free Lys/Asp	<i>CGS1</i>	0.5067	0.1350
Free Lys/Asp	<i>CGS1/SAMSS</i>	0.3432	0.3316
Free Lys/Asp	<i>CGS1/TSI</i>	-0.0009	0.9981
Free Lys/Asp	<i>DHDPS1</i>	-0.1830	0.6128
Free Lys/Asp	<i>DHDPS2</i>	-0.0228	0.9502
Free Lys/Asp	<i>DHDPSs</i>	-0.1528	0.6734
Free Lys/Asp	<i>DHDPSs/AK-HSDHs</i>	-0.2894	0.4174
Free Lys/Asp	<i>DHDPSs/LKR-SDH1</i>	0.1763	0.6261
Free Lys/Asp	Free (Lys+Met+Thr+Ile)/Asp	0.3484	0.3238
Free Lys/Asp	Free Ala	-0.3188	0.3693
Free Lys/Asp	Free Arg	0.1715	0.6356
Free Lys/Asp	Free Asn	-0.2854	0.4241
Free Lys/Asp	Free Asn+Asp	-0.6059	0.0634
Free Lys/Asp	Free Asn+Asp+Lys+Met+Thr+Ile	-0.1555	0.6680
Free Lys/Asp	Free Asn+Asp+Lys+Thr+Ile	-0.1557	0.6676
Free Lys/Asp	Free Asp	-0.6471	0.0431
Free Lys/Asp	Free Asp+Lys+Met+Thr+Ile	-0.1397	0.7002
Free Lys/Asp	Free Cys	-0.0090	0.9803
Free Lys/Asp	Free Gln	-0.3537	0.3160
Free Lys/Asp	Free Glu	-0.5972	0.0683
Free Lys/Asp	Free Gly	-0.5475	0.1014
Free Lys/Asp	Free Gly/Thr	-0.5494	0.0999
Free Lys/Asp	Free Gly+Ile	-0.5168	0.1261
Free Lys/Asp	Free His	-0.0273	0.9403
Free Lys/Asp	Free Ile	0.3955	0.2579
Free Lys/Asp	Free Ile/Thr	-0.2611	0.4663
Free Lys/Asp	Free Leu	0.0030	0.9935
Free Lys/Asp	Free Lys	0.0600	0.8693
Free Lys/Asp	Free Lys/(Met+Thr+Ile)	-0.2834	0.4275
Free Lys/Asp	Free Lys/Thr	-0.3083	0.3862
Free Lys/Asp	Free Lys+Met+Thr+Ile	0.1284	0.7237
Free Lys/Asp	Free Met	-0.2017	0.5762
Free Lys/Asp	Free Met/Thr	-0.4222	0.2242
Free Lys/Asp	Free Met+Thr+Ile	0.1260	0.7286

Free Lys/Asp	Free Phe	-0.0104	0.9774
Free Lys/Asp	Free Pro	-0.4467	0.1956
Free Lys/Asp	Free Ser	-0.5291	0.1158
Free Lys/Asp	Free Thr	0.1218	0.7375
Free Lys/Asp	Free Trp	0.0126	0.9725
Free Lys/Asp	Free Tyr	0.2878	0.4200
Free Lys/Asp	Free Val	-0.0137	0.9701
Free Lys/Asp	HSDH activity with four effectors	0.5846	0.0759
Free Lys/Asp	HSDH activity without effectors	0.6788	0.0309
Free Lys/Asp	<i>LKR-SDH1</i>	-0.2853	0.4243
Free Lys/Asp	Lys-sensitive AK activity	0.6398	0.0463
Free Lys/Asp	Lys-sensitive AK activity/Thr-sensitive AK activity	0.2947	0.4085
Free Lys/Asp	SAMS1	-0.4717	0.1687
Free Lys/Asp	<i>SAMS2</i>	-0.1679	0.6430
Free Lys/Asp	<i>SAMS3</i>	0.1980	0.5835
Free Lys/Asp	<i>SAMS4</i>	0.0085	0.9815
Free Lys/Asp	<i>SAMSs</i>	-0.0248	0.9457
Free Lys/Asp	<i>TD1</i>	-0.2068	0.5664
Free Lys/Asp	TD1/BCAT1	0.4180	0.2293
Free Lys/Asp	<i>THA1</i>	-0.2390	0.5061
Free Lys/Asp	THA2	0.6100	0.0611
Free Lys/Asp	THAs	0.5259	0.1184
Free Lys/Asp	THAs+TD1	-0.0866	0.8120
Free Lys/Asp	Thr-sensitive AK activity	-0.0875	0.8101
Free Lys/Asp	Total free AAs	-0.4743	0.1660
Free Lys/Asp	<i>TS1</i>	0.3245	0.3604
Free Lys/Asp	TS1/(THAs+TD1)	0.4155	0.2324
Free Lys/Asp	<i>TS1/TD1</i>	0.3705	0.2920
Free Lys/Asp	<i>TS1/THAs</i>	-0.2584	0.4711
Free Lys/Thr	(AK-HSDHs+CGS1)/SAMSS	-0.0169	0.9631
Free Lys/Thr	(AK-HSDHs+TS1)/(THAs+TD1)	0.1351	0.7099
Free Lys/Thr	(AK-HSDHs+TS1+TD1)/BCAT1	0.1470	0.6853
Free Lys/Thr	(AKs+AK-HSDHs)/AK-HSDHs	-0.6987	0.0246
Free Lys/Thr	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.6342	0.0489
Free Lys/Thr	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.0992	0.7851
Free Lys/Thr	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.2826	0.4289
Free Lys/Thr	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.1201	0.7411
Free Lys/Thr	(AKs+DHDPSS)/LKR-SDH1	-0.2733	0.4449
Free Lys/Thr	AK activity with four effectors	-0.5410	0.1064
Free Lys/Thr	AK activity without effectors	-0.5838	0.0764
Free Lys/Thr	AK activity/HSDH activity with four effectors	-0.7338	0.0157
Free Lys/Thr	AK activity/HSDH activity without effectors	-0.6491	0.0423
Free Lys/Thr	<i>AK1</i>	-0.0324	0.9293
Free Lys/Thr	AK1+AK2	-0.7415	0.0141
Free Lys/Thr	<i>AK1+AK3</i>	0.0353	0.9228
Free Lys/Thr	AK2	-0.7082	0.0219
Free Lys/Thr	AK2+AK3	-0.6724	0.0331
Free Lys/Thr	<i>AK3</i>	0.0971	0.7896
Free Lys/Thr	<i>AK-HSDH1</i>	0.3118	0.3805
Free Lys/Thr	<i>AK-HSDH2</i>	0.3798	0.2791
Free Lys/Thr	AK-HSDHs	0.4231	0.2231
Free Lys/Thr	AK-HSDHs+CGS1	0.3288	0.3537
Free Lys/Thr	AK-HSDHs+TS1	0.2363	0.5110
Free Lys/Thr	AK-HSDHs+TS1+TD1	0.2366	0.5104
Free Lys/Thr	AK-HSDHs+TS1+THAs	0.2254	0.5313
Free Lys/Thr	AKs	-0.7117	0.0210
Free Lys/Thr	AKs/AK-HSDHs	-0.6987	0.0246
Free Lys/Thr	AKs+AK-HSDHs	-0.6284	0.0517

Free Lys/Thr	<i>AKs+AK-HSDHs+CGS1</i>	-0.5565	0.0948
Free Lys/Thr	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.6162	0.0578
Free Lys/Thr	<i>AKs+AK-HSDHs+TS1</i>	-0.4343	0.2098
Free Lys/Thr	<i>AKs+AK-HSDHs+TS1+TD1</i>	-0.4101	0.2391
Free Lys/Thr	<i>AKs+AK-HSDHs+TS1+THAs</i>	-0.4407	0.2023
Free Lys/Thr	<i>AKs+DHDPSS</i>	-0.7020	0.0236
Free Lys/Thr	<i>BCAT1</i>	-0.1855	0.6080
Free Lys/Thr	Biosynthetic genes analyzed	-0.3594	0.3077
Free Lys/Thr	Catabolic genes analyzed	0.2742	0.4433
Free Lys/Thr	<i>CGS1</i>	0.1603	0.6582
Free Lys/Thr	<i>CGS1/SAMSS</i>	-0.2329	0.5172
Free Lys/Thr	<i>CGS1/TS1</i>	-0.0941	0.7960
Free Lys/Thr	<i>DHDPS1</i>	-0.0804	0.8253
Free Lys/Thr	<i>DHDPS2</i>	0.3228	0.3629
Free Lys/Thr	<i>DHDPSs</i>	0.1627	0.6534
Free Lys/Thr	<i>DHDPSs/AK-HSDHs</i>	-0.3929	0.2614
Free Lys/Thr	<i>DHDPSs/LKR-SDH1</i>	0.4133	0.2352
Free Lys/Thr	Free (Lys+Met+Thr+Ile)/Asp	-0.8557	0.0016
Free Ala	0.4222	0.2242	
Free Lys/Thr	Free Arg	0.1694	0.6398
Free Lys/Thr	Free Asn	0.1850	0.6089
Free Lys/Thr	Free Asn+Asp	0.3173	0.3716
Free Lys/Thr	Free Asn+Asp+Lys+Met+Thr+Ile	-0.6050	0.0639
Free Lys/Thr	Free Asn+Asp+Lys+Thr+Ile	-0.6087	0.0618
Free Lys/Thr	Free Asp	0.3263	0.3575
Free Lys/Thr	Free Asp+Lys+Met+Thr+Ile	-0.6352	0.0485
Free Lys/Thr	Free Cys	-0.7078	0.0220
Free Lys/Thr	Free Gln	0.2003	0.5790
Free Lys/Thr	Free Glu	-0.0036	0.9920
Free Lys/Thr	Free Gly	0.2628	0.4633
Free Lys/Thr	Free Gly+Ile	0.2459	0.4934
Free Lys/Thr	Free His	0.1632	0.6524
Free Lys/Thr	Free Ile	-0.2232	0.5353
Free Lys/Thr	Free Leu	0.3496	0.3221
Free Lys/Thr	Free Lys	0.1900	0.5991
Free Lys/Thr	Free Lys/(Met+Thr+Ile)	0.9938	<.0001
Free Lys/Thr	Free Lys+Met+Thr+Ile	-0.8138	0.0042
Free Lys/Thr	Free Met	0.3186	0.3696
Free Lys/Thr	Free Met+Thr+Ile	-0.8196	0.0037
Free Lys/Thr	Free Phe	0.4558	0.1855
Free Lys/Thr	Free Pro	0.2179	0.5453
Free Lys/Thr	Free Ser	0.5723	0.0839
Free Lys/Thr	Free Thr	-0.8219	0.0035
Free Lys/Thr	Free Trp	0.4890	0.1515
Free Lys/Thr	Free Tyr	0.3731	0.2883
Free Lys/Thr	Free Val	0.4599	0.1811
Free Lys/Thr	HSDH activity with four effectors	0.2880	0.4197
Free Lys/Thr	HSDH activity without effectors	0.2167	0.5476
Free Lys/Thr	<i>LKR-SDH1</i>	-0.3088	0.3853
Free Lys/Thr	Lys-sensitive AK activity	-0.7222	0.0183
Free Lys/Thr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.6639	0.0363
Free Lys/Thr	<i>SAMS1</i>	0.4155	0.2324
Free Lys/Thr	<i>SAMS2</i>	0.0179	0.9608
Free Lys/Thr	<i>SAMS3</i>	0.1011	0.7810
Free Lys/Thr	<i>SAMS4</i>	0.3218	0.3646
Free Lys/Thr	<i>SAMSS</i>	0.2769	0.4386
Free Lys/Thr	<i>TD1</i>	0.1959	0.5875
Free Lys/Thr	<i>TD1/BCAT1</i>	0.1633	0.6521

Free Lys/Thr	<i>THA1</i>	0.1141	0.7537
Free Lys/Thr	<i>THA2</i>	-0.5493	0.1000
Free Lys/Thr	<i>THAs</i>	-0.5817	0.0777
Free Lys/Thr	<i>THAs+TD1</i>	0.0808	0.8243
Free Lys/Thr	Thr-sensitive AK activity	0.6860	0.0285
Free Lys/Thr	Total free AAs	0.0285	0.9376
Free Lys/Thr	<i>TS1</i>	0.1236	0.7337
Free Lys/Thr	<i>TS1/(THAs+TD1)</i>	0.0962	0.7916
Free Lys/Thr	<i>TS1/TD1</i>	0.0363	0.9207
Free Lys/Thr	<i>TS1/THAs</i>	0.4134	0.2350
Free Lys+Met+Thr+Ile	(AK-HSDHs+CGS1)/SAMSS	-0.1160	0.7497
Free Lys+Met+Thr+Ile	(AK-HSDHs+TS1)/(THAs+TD1)	-0.2833	0.4277
Free Lys+Met+Thr+Ile	(AK-HSDHs+TS1+TD1)/BCAT1	-0.0957	0.7925
Free Lys+Met+Thr+Ile	(AKs+AK-HSDHs)/AK-HSDHs	0.6401	0.0462
Free Lys+Met+Thr+Ile	(AKs+AK-HSDHs+CGS1)/SAMSS	0.5659	0.0882
Free Lys+Met+Thr+Ile	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	-0.2172	0.5466
Free Lys+Met+Thr+Ile	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.0113	0.9753
Free Lys+Met+Thr+Ile	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.0754	0.8361
Free Lys+Met+Thr+Ile	(AKs+DHDPSSs)/LKR-SDH1	-0.0752	0.8363
Free Lys+Met+Thr+Ile	AK activity with four effectors	0.2436	0.4976
Free Lys+Met+Thr+Ile	AK activity without effectors	0.3545	0.3149
Free Lys+Met+Thr+Ile	AK activity/HSDH activity with four effectors	0.4498	0.1921
Free Lys+Met+Thr+Ile	AK activity/HSDH activity without effectors	0.3784	0.2809
Free Lys+Met+Thr+Ile	<i>AK1</i>	0.0464	0.8988
Free Lys+Met+Thr+Ile	<i>AK1+AK2</i>	0.6238	0.0539
Free Lys+Met+Thr+Ile	<i>AK1+AK3</i>	0.0569	0.8760
Free Lys+Met+Thr+Ile	<i>AK2</i>	0.5909	0.0720
Free Lys+Met+Thr+Ile	<i>AK2+AK3</i>	0.5762	0.0813
Free Lys+Met+Thr+Ile	<i>AK3</i>	0.0034	0.9925
Free Lys+Met+Thr+Ile	<i>AK-HSDH1</i>	-0.2784	0.4360
Free Lys+Met+Thr+Ile	<i>AK-HSDH2</i>	-0.4419	0.2010
Free Lys+Met+Thr+Ile	<i>AK-HSDHs</i>	-0.4443	0.1982
Free Lys+Met+Thr+Ile	<i>AK-HSDHs+CGS1</i>	-0.4024	0.2489
Free Lys+Met+Thr+Ile	<i>AK-HSDHs+TS1</i>	-0.0042	0.9908
Free Lys+Met+Thr+Ile	<i>AK-HSDHs+TS1+TD1</i>	0.0063	0.9862
Free Lys+Met+Thr+Ile	<i>AK-HSDHs+TS1+THAs</i>	0.0081	0.9822
Free Lys+Met+Thr+Ile	<i>AKs</i>	0.6144	0.0588
Free Lys+Met+Thr+Ile	<i>AKs/AK-HSDHs</i>	0.6401	0.0462
Free Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs</i>	0.5213	0.1223
Free Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+CGS1</i>	0.4298	0.2151
Free Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+DHDPSSs</i>	0.5236	0.1204
Free Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+TS1</i>	0.4987	0.1423
Free Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.4892	0.1513
Free Lys+Met+Thr+Ile	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.5041	0.1374
Free Lys+Met+Thr+Ile	<i>AKs+DHDPSSs</i>	0.6185	0.0566
Free Lys+Met+Thr+Ile	<i>BCAT1</i>	-0.0195	0.9573
Free Lys+Met+Thr+Ile	Biosynthetic genes analyzed	0.4080	0.2418
Free Lys+Met+Thr+Ile	Catabolic genes analyzed	-0.2980	0.4030
Free Lys+Met+Thr+Ile	<i>CGS1</i>	-0.2750	0.4419
Free Lys+Met+Thr+Ile	<i>CGS1/SAMSS</i>	0.1609	0.6570
Free Lys+Met+Thr+Ile	<i>CGS1/TS1</i>	-0.4086	0.2411
Free Lys+Met+Thr+Ile	<i>DHDPS1</i>	0.5642	0.0893
Free Lys+Met+Thr+Ile	<i>DHDPS2</i>	-0.2296	0.5234
Free Lys+Met+Thr+Ile	<i>DHDPSs</i>	0.1900	0.5990
Free Lys+Met+Thr+Ile	<i>DHDPSs/AK-HSDHs</i>	0.5585	0.0933
Free Lys+Met+Thr+Ile	<i>DHDPSs/LKR-SDH1</i>	-0.4779	0.1624
Free Lys+Met+Thr+Ile	Free Ala	-0.1596	0.6596

Free Lys+Met+Thr+Ile	Free Arg	-0.0420	0.9083
Free Lys+Met+Thr+Ile	Free Asn	0.0370	0.9191
Free Lys+Met+Thr+Ile	Free Asp	-0.0763	0.8341
Free Lys+Met+Thr+Ile	Free Cys	0.8638	0.0013
Free Lys+Met+Thr+Ile	Free Gln	-0.0450	0.9017
Free Lys+Met+Thr+Ile	Free Glu	0.2166	0.5478
Free Lys+Met+Thr+Ile	Free Gly	-0.0942	0.7959
Free Lys+Met+Thr+Ile	Free His	-0.0100	0.9781
Free Lys+Met+Thr+Ile	Free Ile	0.4994	0.1416
Free Lys+Met+Thr+Ile	Free Leu	-0.1168	0.7480
Free Lys+Met+Thr+Ile	Free Lys	-0.0194	0.9576
Free Lys+Met+Thr+Ile	Free Met	-0.1209	0.7394
Free Lys+Met+Thr+Ile	Free Phe	-0.2566	0.4742
Free Lys+Met+Thr+Ile	Free Pro	-0.1030	0.7771
Free Lys+Met+Thr+Ile	Free Ser	-0.4742	0.1662
Free Lys+Met+Thr+Ile	Free Thr	0.9984	<.0001
Free Lys+Met+Thr+Ile	Free Trp	-0.3425	0.3327
Free Lys+Met+Thr+Ile	Free Tyr	-0.2783	0.4363
Free Lys+Met+Thr+Ile	Free Val	-0.2296	0.5235
Free Lys+Met+Thr+Ile	HSDH activity with four effectors	-0.3018	0.3968
Free Lys+Met+Thr+Ile	HSDH activity without effectors	-0.1717	0.6353
LKR-SDH1		0.6404	0.0461
Free Lys+Met+Thr+Ile	Lys-sensitive AK activity	0.5107	0.1314
Free Lys+Met+Thr+Ile	Lys-sensitive AK activity/Thr-sensitive AK activity	0.6061	0.0632
Free Lys+Met+Thr+Ile	<i>SAMS1</i>	-0.2122	0.5561
Free Lys+Met+Thr+Ile	SAMS2	0.4127	0.2359
Free Lys+Met+Thr+Ile	<i>SAMS3</i>	-0.2609	0.4666
Free Lys+Met+Thr+Ile	<i>SAMS4</i>	-0.2833	0.4277
Free Lys+Met+Thr+Ile	<i>SAMSS</i>	-0.3031	0.3947
Free Lys+Met+Thr+Ile	<i>TD1</i>	0.0676	0.8527
Free Lys+Met+Thr+Ile	<i>TD1/BCAT1</i>	-0.1034	0.7763
Free Lys+Met+Thr+Ile	<i>THA1</i>	0.1613	0.6563
Free Lys+Met+Thr+Ile	THA2	0.5344	0.1116
Free Lys+Met+Thr+Ile	THAs	0.6157	0.0581
Free Lys+Met+Thr+Ile	<i>THAs+TD1</i>	0.1853	0.6083
Free Lys+Met+Thr+Ile	Thr-sensitive AK activity	-0.5507	0.0990
Free Lys+Met+Thr+Ile	Total free AAs	0.2192	0.5430
Free Lys+Met+Thr+Ile	<i>TS1</i>	0.1912	0.5966
Free Lys+Met+Thr+Ile	<i>TS1/(THAs+TD1)</i>	-0.1857	0.6076
Free Lys+Met+Thr+Ile	<i>TS1/TD1</i>	-0.2522	0.4820
Free Lys+Met+Thr+Ile	<i>TS1/THAs</i>	-0.2301	0.5225
Free Met	(AK-HSDHs+CGS1)/SAMSS	-0.1201	0.7410
Free Met	(AK-HSDHs+TS1)/(THAs+TD1)	-0.6690	0.0344
Free Met	(AK-HSDHs+TS1+TD1)/BCAT1	0.6313	0.0503
Free Met	(AKs+AK-HSDHs)/AK-HSDHs	-0.0635	0.8617
Free Met	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.1891	0.6009
Free Met	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.3122	0.3798
Free Met	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.7439	0.0136
Free Met	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.6323	0.0498
Free Met	(AKs+DHDPSS)/LKR-SDH1	-0.3094	0.3844
Free Met	AK activity with four effectors	-0.2973	0.4041
Free Met	AK activity without effectors	-0.4467	0.1956
Free Met	AK activity/HSDH activity with four effectors	-0.2570	0.4735
Free Met	AK activity/HSDH activity without effectors	-0.1968	0.5858
Free Met	<i>AK1</i>	-0.0205	0.9551
Free Met	<i>AK1+AK2</i>	-0.0988	0.7859
Free Met	<i>AK1+AK3</i>	-0.1747	0.6292

Free Met	<i>AK2</i>	-0.0904	0.8039
Free Met	<i>AK2+AK3</i>	-0.1227	0.7356
Free Met	<i>AK3</i>	-0.1888	0.6014
Free Met	<i>AK-HSDH1</i>	-0.3670	0.2969
Free Met	<i>AK-HSDH2</i>	0.2528	0.4810
Free Met	<i>AK-HSDHs</i>	-0.0383	0.9163
Free Met	<i>AK-HSDHs+CGS1</i>	0.1683	0.6421
Free Met	<i>AK-HSDHs+TSI</i>	0.1497	0.6797
Free Met	<i>AK-HSDHs+TSI+TD1</i>	0.1923	0.5946
Free Met	<i>AK-HSDHs+TSI+THAs</i>	0.1528	0.6734
Free Met	<i>AKs</i>	-0.1315	0.7173
Free Met	<i>AKs/AK-HSDHs</i>	-0.0635	0.8617
Free Met	<i>AKs+AK-HSDHs</i>	-0.1465	0.6863
Free Met	<i>AKs+AK-HSDHs+CGS1</i>	-0.0570	0.8757
Free Met	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.1245	0.7318
Free Met	<i>AKs+AK-HSDHs+TSI</i>	-0.0147	0.9678
Free Met	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.0193	0.9578
Free Met	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.0137	0.9700
Free Met	<i>AKs+DHDPSS</i>	-0.1093	0.7637
Free Met	<i>BCAT1</i>	-0.7695	0.0093
Free Met	Biosynthetic genes analyzed	0.0632	0.8622
Free Met	Catabolic genes analyzed	0.2045	0.5710
Free Met	<i>CGS1</i>	0.3576	0.3103
Free Met	<i>CGS1/SAMSS</i>	0.0348	0.9240
Free Met	<i>CGS1/TS1</i>	0.0647	0.8590
Free Met	<i>DHDPS1</i>	0.4111	0.2379
Free Met	<i>DHDPS2</i>	0.4535	0.1881
Free Met	<i>DHDPSs</i>	0.5503	0.0993
Free Met	<i>DHDPSs/AK-HSDHs</i>	0.1699	0.6389
Free Met	<i>DHDPSs/LKR-SDH1</i>	0.1301	0.7202
Free Met	<i>Free Ala</i>	0.5728	0.0835
Free Met	<i>Free Arg</i>	0.5668	0.0875
Free Met	<i>Free Asn</i>	0.6977	0.0249
Free Met	<i>Free Asp</i>	0.7355	0.0153
Free Met	Free Cys	0.1562	0.6666
Free Met	Free Gln	0.6696	0.0342
Free Met	Free Glu	0.5887	0.0734
Free Met	Free Gly	0.4927	0.1480
Free Met	Free His	0.6711	0.0336
Free Met	Free Ile	0.3612	0.3052
Free Met	<i>Free Leu</i>	0.7813	0.0076
Free Met	<i>Free Lys</i>	0.8176	0.0039
Free Met	HSDH activity with four effectors	0.1324	0.7154
Free Met	HSDH activity without effectors	-0.0346	0.9245
Free Met	<i>LKR-SDH1</i>	0.0000	1.0000
Free Met	<i>Lys-sensitive AK activity</i>	-0.5405	0.1068
Free Met	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.0011	0.9976
Free Met	<i>SAMS1</i>	0.6725	0.0331
Free Met	<i>SAMS2</i>	0.4836	0.1568
Free Met	<i>SAMS3</i>	-0.1098	0.7628
Free Met	<i>SAMS4</i>	0.2072	0.5656
Free Met	<i>SAMSS</i>	0.2051	0.5698
Free Met	<i>TD1</i>	0.5447	0.1035
Free Met	<i>TD1/BCAT1</i>	0.6618	0.0371
Free Met	<i>THA1</i>	-0.2182	0.5447
Free Met	<i>THA2</i>	0.1417	0.6961
Free Met	<i>THAs</i>	0.1580	0.6629
Free Met	<i>THAs+TD1</i>	0.5537	0.0968

Free Met	Thr-sensitive AK activity	-0.0880	0.8090
Free Met	<i>TSI</i>	0.2136	0.5536
Free Met	<i>TSI/(THAs+TDI)</i>	-0.6323	0.0498
Free Met	<i>TSI/TD1</i>	-0.7269	0.0172
Free Met	<i>TSI/THAs</i>	0.1467	0.6859
Free Met/(Thr+Ile)	(AK-HSDHs+CGSI)/SAMSS	-0.0900	0.8046
Free Met/(Thr+Ile)	(AK-HSDHs+TSI)/(THAs+TDI)	0.0466	0.8982
Free Met/(Thr+Ile)	(AK-HSDHs+TSI+TDI)/BCAT1	0.2218	0.5380
Free Met/(Thr+Ile)	(AKs+AK-HSDHs)/AK-HSDHs	-0.6869	0.0282
Free Met/(Thr+Ile)	(AKs+AK-HSDHs+CGSI)/SAMSS	-0.6689	0.0344
Free Met/(Thr+Ile)	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.2212	0.5391
Free Met/(Thr+Ile)	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	-0.3767	0.2833
Free Met/(Thr+Ile)	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	0.1942	0.5909
Free Met/(Thr+Ile)	(AKs+DHDPSS)/LKR-SDH1	-0.3864	0.2701
Free Met/(Thr+Ile)	AK activity with four effectors	-0.6291	0.0513
Free Met/(Thr+Ile)	AK activity without effectors	-0.6811	0.0301
Free Met/(Thr+Ile)	AK activity/HSDH activity with four effectors	-0.7768	0.0082
Free Met/(Thr+Ile)	AK activity/HSDH activity without effectors	-0.7227	0.0182
Free Met/(Thr+Ile)	<i>AK1</i>	0.0597	0.8698
Free Met/(Thr+Ile)	<i>AK1+AK2</i>	-0.7638	0.0101
Free Met/(Thr+Ile)	<i>AK1+AK3</i>	-0.0094	0.9795
Free Met/(Thr+Ile)	<i>AK2</i>	-0.7488	0.0127
Free Met/(Thr+Ile)	<i>AK2+AK3</i>	-0.7403	0.0143
Free Met/(Thr+Ile)	<i>AK3</i>	-0.0660	0.8562
Free Met/(Thr+Ile)	<i>AK-HSDH1</i>	0.2413	0.5018
Free Met/(Thr+Ile)	<i>AK-HSDH2</i>	0.3025	0.3955
Free Met/(Thr+Ile)	<i>AK-HSDHs</i>	0.3338	0.3458
Free Met/(Thr+Ile)	<i>AK-HSDHs+CGSI</i>	0.2426	0.4994
Free Met/(Thr+Ile)	<i>AK-HSDHs+TSI</i>	0.1373	0.7053
Free Met/(Thr+Ile)	<i>AK-HSDHs+TSI+TDI</i>	0.1422	0.6952
Free Met/(Thr+Ile)	<i>AK-HSDHs+TSI+THAs</i>	0.1261	0.7286
Free Met/(Thr+Ile)	<i>AKs</i>	-0.7632	0.0102
Free Met/(Thr+Ile)	<i>AKs/AK-HSDHs</i>	-0.6869	0.0282
Free Met/(Thr+Ile)	<i>AKs+AK-HSDHs</i>	-0.7051	0.0227
Free Met/(Thr+Ile)	<i>AKs+AK-HSDHs+CGSI</i>	-0.6443	0.0444
Free Met/(Thr+Ile)	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.6921	0.0266
Free Met/(Thr+Ile)	<i>AKs+AK-HSDHs+TSI</i>	-0.5371	0.1094
Free Met/(Thr+Ile)	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.5115	0.1307
Free Met/(Thr+Ile)	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.5433	0.1046
Free Met/(Thr+Ile)	<i>AKs+DHDPSS</i>	-0.7531	0.0119
Free Met/(Thr+Ile)	<i>BCAT1</i>	-0.2303	0.5221
Free Met/(Thr+Ile)	Biosynthetic genes analyzed	-0.4635	0.1773
Free Met/(Thr+Ile)	Catabolic genes analyzed	0.2501	0.4859
Free Met/(Thr+Ile)	<i>CGSI</i>	0.0941	0.7959
Free Met/(Thr+Ile)	<i>CGSI/SAMSS</i>	-0.2374	0.5089
Free Met/(Thr+Ile)	<i>CGSI/TSI</i>	-0.0599	0.8694
Free Met/(Thr+Ile)	<i>DHDPS1</i>	-0.0168	0.9632
Free Met/(Thr+Ile)	<i>DHDPS2</i>	0.2746	0.4426
Free Met/(Thr+Ile)	<i>DHDPSs</i>	0.1691	0.6404
Free Met/(Thr+Ile)	<i>DHDPSs/AK-HSDHs</i>	-0.3250	0.3596
Free Met/(Thr+Ile)	<i>DHDPSs/LKR-SDH1</i>	0.3537	0.3161
Free Met/(Thr+Ile)	Free (Lys+Met+Thr+Ile)/Asp	-0.8270	0.0032
Free Met/(Thr+Ile)	Free Ala	0.4005	0.2514
Free Met/(Thr+Ile)	Free Arg	0.1452	0.6891
Free Met/(Thr+Ile)	Free Asn	0.1941	0.5910
Free Met/(Thr+Ile)	Free Asn+Asp	0.3678	0.2958
Free Met/(Thr+Ile)	Free Asn+Asp+Lys+Met+Thr+Ile	-0.5604	0.0920

Free Met/(Thr+Ile)	Free Asn+Asp+Lys+Thr+Ile	-0.5643	0.0893
Free Met/(Thr+Ile)	Free Asp	0.3832	0.2744
Free Met/(Thr+Ile)	Free Asp+Lys+Met+Thr+Ile	-0.5894	0.0729
Free Met/(Thr+Ile)	Free Cys	-0.6147	0.0586
Free Met/(Thr+Ile)	Free Gln	0.2294	0.5237
Free Met/(Thr+Ile)	Free Glu	0.0072	0.9843
Free Met/(Thr+Ile)	Free Gly	0.3374	0.3403
Free Met/(Thr+Ile)	Free Gly/Thr	0.9375	<.0001
Free Met/(Thr+Ile)	Free Gly+Ile	0.3200	0.3674
Free Met/(Thr+Ile)	Free His	0.1362	0.7075
Free Met/(Thr+Ile)	Free Ile	-0.2207	0.5401
Free Met/(Thr+Ile)	Free Ile/Thr	0.9430	<.0001
Free Met/(Thr+Ile)	Free Leu	0.3674	0.2963
Free Met/(Thr+Ile)	Free Lys	0.2184	0.5444
Free Met/(Thr+Ile)	Free Lys/(Met+Thr+Ile)	0.9675	<.0001
Free Met/(Thr+Ile)	Free Lys/Asp	-0.3325	0.3478
Free Met/(Thr+Ile)	Free Lys/Thr	0.9743	<.0001
Free Met/(Thr+Ile)	Free Lys+Met+Thr+Ile	-0.7893	0.0066
Free Met/(Thr+Ile)	Free Met	0.4111	0.2379
Free Met/(Thr+Ile)	Free Met/Thr	0.9850	<.0001
Free Met/(Thr+Ile)	Free Met+Thr+Ile	-0.7962	0.0059
Free Met/(Thr+Ile)	Free Phe	0.4309	0.2138
Free Met/(Thr+Ile)	Free Pro	0.2641	0.4609
Free Met/(Thr+Ile)	Free Ser	0.6039	0.0645
Free Met/(Thr+Ile)	Free Thr	-0.8002	0.0054
Free Met/(Thr+Ile)	Free Thr/Asp	-0.8250	0.0033
Free Met/(Thr+Ile)	Free Trp	0.5059	0.1357
Free Met/(Thr+Ile)	Free Tyr	0.3590	0.3084
Free Met/(Thr+Ile)	Free Val	0.3450	0.3288
Free Met/(Thr+Ile)	HSDH activity with four effectors	0.2513	0.4837
Free Met/(Thr+Ile)	HSDH activity without effectors	0.2216	0.5384
<i>LKR-SDH1</i>		-0.2669	0.4560
Free Met/(Thr+Ile)	Lys-sensitive AK activity	-0.7805	0.0077
Free Met/(Thr+Ile)	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.6734	0.0328
Free Met/(Thr+Ile)	SAMS1	0.4289	0.2162
Free Met/(Thr+Ile)	SAMS2	-0.0021	0.9953
Free Met/(Thr+Ile)	SAMS3	0.0802	0.8258
Free Met/(Thr+Ile)	SAMS4	0.2541	0.4787
Free Met/(Thr+Ile)	SAMSs	0.2535	0.4798
Free Met/(Thr+Ile)	<i>TD1</i>	0.1710	0.6366
Free Met/(Thr+Ile)	<i>TD1/BCAT1</i>	0.2398	0.5046
Free Met/(Thr+Ile)	<i>THA1</i>	0.1530	0.6731
Free Met/(Thr+Ile)	THA2	-0.5808	0.0783
Free Met/(Thr+Ile)	THAs	-0.6112	0.0605
Free Met/(Thr+Ile)	THAs+TD1	0.0514	0.8880
Free Met/(Thr+Ile)	Thr-sensitive AK activity	0.5859	0.0751
Free Met/(Thr+Ile)	Total free AAs	0.0587	0.8720
<i>TS1</i>		0.0334	0.9269
<i>TS1/(THAs+TD1)</i>		0.0322	0.9296
<i>TS1/TD1</i>		-0.0472	0.8971
Free Met/(Thr+Ile)	TS1/THAs	0.4135	0.2349
Free Met/Thr	(AK-HSDHs+CGS1)/SAMSS	-0.1188	0.7438
Free Met/Thr	(AK-HSDHs+TS1)/(THAs+TD1)	0.0079	0.9828
Free Met/Thr	(AK-HSDHs+TS1+TD1)/BCAT1	0.1070	0.7686
Free Met/Thr	(AKs+AK-HSDHs)/AK-HSDHs	-0.6218	0.0549
Free Met/Thr	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.6396	0.0464
Free Met/Thr	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.2778	0.4371
Free Met/Thr	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.3970	0.2560

Free Met/Thr	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	0.0817	0.8225
Free Met/Thr	(AKs+DHDPSSs)/LKR-SDHI	-0.4294	0.2156
Free Met/Thr	AK activity with four effectors	-0.6709	0.0337
Free Met/Thr	AK activity without effectors	-0.7017	0.0237
Free Met/Thr	AK activity/HSDH activity with four effectors	-0.7313	0.0163
Free Met/Thr	AK activity/HSDH activity without effectors	-0.6558	0.0395
Free Met/Thr	AK1	-0.0058	0.9873
Free Met/Thr	AK1+AK2	-0.7593	0.0108
Free Met/Thr	AK1+AK3	0.0021	0.9954
Free Met/Thr	AK2	-0.7310	0.0163
Free Met/Thr	AK2+AK3	-0.7074	0.0221
Free Met/Thr	AK3	0.0245	0.9464
Free Met/Thr	AK-HSDH1	0.1815	0.6158
Free Met/Thr	AK-HSDH2	0.2452	0.4947
Free Met/Thr	AK-HSDHs	0.2620	0.4646
Free Met/Thr	AK-HSDHs+CGS1	0.1705	0.6377
Free Met/Thr	AK-HSDHs+TSI	0.1109	0.7605
Free Met/Thr	AK-HSDHs+TSI+TDI	0.1178	0.7458
Free Met/Thr	AK-HSDHs+TSI+THAs	0.1001	0.7832
Free Met/Thr	AKs	-0.7423	0.0139
Free Met/Thr	AKs/AK-HSDHs	-0.6218	0.0549
Free Met/Thr	AKs+AK-HSDHs	-0.7026	0.0235
Free Met/Thr	AKs+AK-HSDHs+CGS1	-0.6550	0.0398
Free Met/Thr	AKs+AK-HSDHs+DHDPSSs	-0.6904	0.0271
Free Met/Thr	AKs+AK-HSDHs+TSI	-0.5365	0.1099
Free Met/Thr	AKs+AK-HSDHs+TSI+TDI	-0.5108	0.1314
Free Met/Thr	AKs+AK-HSDHs+TSI+THAs	-0.5423	0.1053
Free Met/Thr	AKs+DHDPSSs	-0.7333	0.0158
Free Met/Thr	BCAT1	-0.2021	0.5755
Free Met/Thr	Biosynthetic genes analyzed	-0.4734	0.1670
Free Met/Thr	Catabolic genes analyzed	0.1977	0.5840
Free Met/Thr	CGS1	0.0362	0.9210
Free Met/Thr	CGS1/SAMSSs	-0.2172	0.5467
Free Met/Thr	CGS1/TSI	-0.0885	0.8078
Free Met/Thr	DHDPS1	-0.0246	0.9461
Free Met/Thr	DHDPS2	0.2492	0.4874
Free Met/Thr	DHDPSs	0.1477	0.6838
Free Met/Thr	DHDPSs/AK-HSDHs	-0.2438	0.4972
Free Met/Thr	DHDPSs/LKR-SDHI	0.2833	0.4277
Free Met/Thr	Free (Lys+Met+Thr+Ile)/Asp	-0.8010	0.0054
Free Met/Thr	Free Ala	0.4052	0.2454
Free Met/Thr	Free Arg	0.0586	0.8722
Free Met/Thr	Free Asn	0.1602	0.6585
Free Met/Thr	Free Asn+Asp	0.3662	0.2980
Free Met/Thr	Free Asn+Asp+Lys+Met+Thr+Ile	-0.5305	0.1146
Free Met/Thr	Free Asn+Asp+Lys+Thr+Ile	-0.5343	0.1116
Free Met/Thr	Free Asp	0.3863	0.2702
Free Met/Thr	Free Asp+Lys+Met+Thr+Ile	-0.5567	0.0946
Free Met/Thr	Free Cys	-0.6333	0.0493
Free Met/Thr	Free Gln	0.1864	0.6061
Free Met/Thr	Free Glu	0.0421	0.9081
Free Met/Thr	Free Gly	0.3036	0.3938
Free Met/Thr	Free Gly+Ile	0.2850	0.4248
Free Met/Thr	Free His	0.0937	0.7969
Free Met/Thr	Free Ile	-0.2441	0.4967
Free Met/Thr	Free Leu	0.3138	0.3773
Free Met/Thr	Free Lys	0.1599	0.6589
Free Met/Thr	Free Lys/(Met+Thr+Ile)	0.9546	<.0001

Free Met/Thr	Free Lys/Thr	0.9744	<.0001
Free Met/Thr	Free Lys+Met+Thr+Ile	-0.7561	0.0114
Free Met/Thr	Free Met	0.3931	0.2611
Free Met/Thr	Free Met+Thr+Ile	-0.7610	0.0106
Free Met/Thr	Free Phe	0.3865	0.2700
Free Met/Thr	Free Pro	0.2267	0.5289
Free Met/Thr	Free Ser	0.5591	0.0929
Free Met/Thr	Free Thr	-0.7634	0.0102
Free Met/Thr	Free Trp	0.4334	0.2108
Free Met/Thr	Free Tyr	0.3020	0.3964
Free Met/Thr	Free Val	0.3531	0.3169
Free Met/Thr	HSDH activity with four effectors	0.1205	0.7402
Free Met/Thr	HSDH activity without effectors	0.1015	0.7803
Free Met/Thr	<i>LKR-SDH1</i>	-0.1902	0.5987
Free Met/Thr	Lys-sensitive AK activity	-0.7735	0.0087
Free Met/Thr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.6642	0.0362
Free Met/Thr	SAMS1	0.4452	0.1972
Free Met/Thr	<i>SAMS2</i>	0.0203	0.9555
Free Met/Thr	<i>SAMS3</i>	0.0038	0.9916
Free Met/Thr	<i>SAMS4</i>	0.2290	0.5246
Free Met/Thr	<i>SAMSS</i>	0.2004	0.5787
Free Met/Thr	<i>TD1</i>	0.1710	0.6366
Free Met/Thr	<i>TD1/BCAT1</i>	0.1250	0.7309
Free Met/Thr	<i>THA1</i>	0.2077	0.5648
Free Met/Thr	THA2	-0.5787	0.0797
Free Met/Thr	THAs	-0.5917	0.0716
Free Met/Thr	<i>THAs+TD1</i>	0.0538	0.8826
Free Met/Thr	Thr-sensitive AK activity	0.6403	0.0461
Free Met/Thr	Total free AAs	0.0544	0.8813
Free Met/Thr	<i>TS1</i>	0.0305	0.9333
Free Met/Thr	<i>TS1/(THAs+TD1)</i>	0.0186	0.9594
Free Met/Thr	<i>TS1/TD1</i>	-0.0753	0.8362
Free Met/Thr	<i>TS1/THAs</i>	0.3619	0.3041
Free Met+Thr+Ile	(AK-HSDHs+CGSI)/SAMSS	-0.1173	0.7470
Free Met+Thr+Ile	(AK-HSDHs+TS1)/(THAs+TD1)	-0.2620	0.4647
Free Met+Thr+Ile	(AK-HSDHs+TS1+TD1)/BCAT1	-0.1235	0.7339
Free Met+Thr+Ile	(AKs+AK-HSDHs)/AK-HSDHs	0.6431	0.0449
Free Met+Thr+Ile	(AKs+AK-HSDHs+CGSI)/SAMS1	0.5664	0.0878
Free Met+Thr+Ile	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.2187	0.5438
Free Met+Thr+Ile	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.0327	0.9285
Free Met+Thr+Ile	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.1032	0.7766
Free Met+Thr+Ile	(AKs+DHDPSS)/LKR-SDH1	-0.0760	0.8347
Free Met+Thr+Ile	AK activity with four effectors	0.2430	0.4987
Free Met+Thr+Ile	AK activity without effectors	0.3594	0.3077
Free Met+Thr+Ile	AK activity/HSDH activity with four effectors	0.4570	0.1843
Free Met+Thr+Ile	AK activity/HSDH activity without effectors	0.3824	0.2754
Free Met+Thr+Ile	<i>AK1</i>	0.0519	0.8868
Free Met+Thr+Ile	AK1+AK2	0.6188	0.0565
Free Met+Thr+Ile	<i>AK1+AK3</i>	0.0615	0.8659
Free Met+Thr+Ile	AK2	0.5849	0.0757
Free Met+Thr+Ile	AK2+AK3	0.5703	0.0852
Free Met+Thr+Ile	<i>AK3</i>	0.0029	0.9938
Free Met+Thr+Ile	<i>AK-HSDH1</i>	-0.2737	0.4442
Free Met+Thr+Ile	AK-HSDH2	-0.4616	0.1792
Free Met+Thr+Ile	AK-HSDHs	-0.4547	0.1868
Free Met+Thr+Ile	AK-HSDHs+CGSI	-0.4201	0.2267
Free Met+Thr+Ile	<i>AK-HSDHs+TS1</i>	-0.0224	0.9509
Free Met+Thr+Ile	<i>AK-HSDHs+TS1+TD1</i>	-0.0134	0.9707

Free Met+Thr+Ile	<i>AK-HSDHs+TS1+THAs</i>	-0.0102	0.9776
Free Met+Thr+Ile	<i>AKs</i>	0.6093	0.0615
Free Met+Thr+Ile	<i>AKs/AK-HSDHs</i>	0.6431	0.0449
Free Met+Thr+Ile	<i>AKs+AK-HSDHs</i>	0.5133	0.1292
Free Met+Thr+Ile	<i>AKs+AK-HSDHs+CGS1</i>	0.4172	0.2303
Free Met+Thr+Ile	<i>AKs+AK-HSDHs+DHDPSSs</i>	0.5146	0.1280
Free Met+Thr+Ile	<i>AKs+AK-HSDHs+TS1</i>	0.4834	0.1570
Free Met+Thr+Ile	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.4725	0.1679
Free Met+Thr+Ile	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.4887	0.1517
Free Met+Thr+Ile	<i>AKs+DHDPSSs</i>	0.6123	0.0599
Free Met+Thr+Ile	<i>BCAT1</i>	0.0132	0.9712
Free Met+Thr+Ile	Biosynthetic genes analyzed	0.3896	0.2658
Free Met+Thr+Ile	Catabolic genes analyzed	-0.3126	0.3792
Free Met+Thr+Ile	<i>CGS1</i>	-0.2973	0.4042
Free Met+Thr+Ile	<i>CGS1/SAMSSs</i>	0.1617	0.6553
Free Met+Thr+Ile	<i>CGS1/TS1</i>	-0.4065	0.2437
Free Met+Thr+Ile	<i>DHDPS1</i>	0.5439	0.1041
Free Met+Thr+Ile	<i>DHDPS2</i>	-0.2538	0.4792
Free Met+Thr+Ile	<i>DHDPSs</i>	0.1615	0.6558
Free Met+Thr+Ile	<i>DHDPSs/AK-HSDHs</i>	0.5615	0.0912
Free Met+Thr+Ile	<i>DHDPSs/LKR-SDH1</i>	-0.4914	0.1492
Free Met+Thr+Ile	Free Ala	-0.1875	0.6039
Free Met+Thr+Ile	Free Arg	-0.0729	0.8414
Free Met+Thr+Ile	Free Asn	0.0045	0.9901
Free Met+Thr+Ile	Free Asn+Asp	-0.0914	0.8017
Free Met+Thr+Ile	Free Asn+Asp+Lys+Met+Thr+Ile	0.8777	0.0008
Free Met+Thr+Ile	Free Asn+Asp+Lys+Thr+Ile	0.8813	0.0008
Free Met+Thr+Ile	Free Asp	-0.1022	0.7788
Free Met+Thr+Ile	Free Asp+Lys+Met+Thr+Ile	0.9034	0.0003
Free Met+Thr+Ile	Free Cys	0.8536	0.0017
Free Met+Thr+Ile	Free Gln	-0.0751	0.8367
Free Met+Thr+Ile	Free Glu	0.1940	0.5913
Free Met+Thr+Ile	Free Gly	-0.1141	0.7537
Free Met+Thr+Ile	Free His	-0.0436	0.9049
Free Met+Thr+Ile	Free Ile	0.4764	0.1639
Free Met+Thr+Ile	Free Leu	-0.1521	0.6748
Free Met+Thr+Ile	Free Lys	-0.0561	0.8777
Free Met+Thr+Ile	Free Lys+Met+Thr+Ile	0.9993	<.0001
Free Met+Thr+Ile	Free Met	-0.1507	0.6777
Free Met+Thr+Ile	Free Phe	-0.2886	0.4187
Free Met+Thr+Ile	Free Pro	-0.1322	0.7158
Free Met+Thr+Ile	Free Ser	-0.4866	0.1538
Free Met+Thr+Ile	Free Thr	0.9998	<.0001
Free Met+Thr+Ile	Free Trp	-0.3712	0.2909
Free Met+Thr+Ile	Free Tyr	-0.3079	0.3867
Free Met+Thr+Ile	Free Val	-0.2545	0.4780
Free Met+Thr+Ile	HSDH activity with four effectors	-0.3198	0.3677
Free Met+Thr+Ile	HSDH activity without effectors	-0.1787	0.6212
Free Met+Thr+Ile	<i>LKR-SDH1</i>	0.6434	0.0448
Free Met+Thr+Ile	Lys-sensitive AK activity	0.5246	0.1195
Free Met+Thr+Ile	Lys-sensitive AK activity/Thr-sensitive AK activity	0.6053	0.0637
Free Met+Thr+Ile	<i>SAMS1</i>	-0.2381	0.5077
Free Met+Thr+Ile	<i>SAMS2</i>	0.3865	0.2700
Free Met+Thr+Ile	<i>SAMS3</i>	-0.2636	0.4617
Free Met+Thr+Ile	<i>SAMS4</i>	-0.2996	0.4004
Free Met+Thr+Ile	<i>SAMSSs</i>	-0.3177	0.3711
Free Met+Thr+Ile	<i>TD1</i>	0.0389	0.9151
Free Met+Thr+Ile	<i>TD1/BCAT1</i>	-0.1325	0.7151

Free Met+Thr+Ile	<i>THA1</i>	0.1735	0.6316
Free Met+Thr+Ile	<i>THA2</i>	0.5228	0.1210
Free Met+Thr+Ile	<i>THAs</i>	0.6047	0.0640
Free Met+Thr+Ile	<i>THAs+TD1</i>	0.1554	0.6682
Free Met+Thr+Ile	Thr-sensitive AK activity	-0.5457	0.1027
Free Met+Thr+Ile	Total free AAs	0.1910	0.5970
	<i>TS1</i>	0.1719	0.6348
	<i>TS1/(THAs+TD1)</i>	-0.1609	0.6570
	<i>TS1/TD1</i>	-0.2268	0.5286
	<i>TS1/THAs</i>	-0.2427	0.4993
Free Phe	(AK-HSDHs+CGS1)/SAMSS	-0.0678	0.8524
Free Phe	(AK-HSDHs+TS1)/(THAs+TD1)	-0.4056	0.2448
Free Phe	(AK-HSDHs+TS1+TD1)/BCAT1	0.5614	0.0913
Free Phe	(AKs+AK-HSDHs)/AK-HSDHs	-0.4339	0.2103
Free Phe	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.3294	0.3527
Free Phe	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.1340	0.7120
Free Phe	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.5969	0.0685
Free Phe	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.5478	0.1012
Free Phe	(AKs+DHDPSS)/LKR-SDH1	0.0118	0.9742
Free Phe	AK activity with four effectors	-0.0641	0.8603
Free Phe	AK activity without effectors	-0.1549	0.6692
Free Phe	AK activity/HSDH activity with four effectors	-0.3893	0.2662
Free Phe	AK activity/HSDH activity without effectors	-0.2978	0.4033
Free Phe	<i>AK1</i>	-0.2680	0.4540
Free Phe	<i>AK1+AK2</i>	-0.2003	0.5790
Free Phe	<i>AK1+AK3</i>	-0.0799	0.8263
Free Phe	<i>AK2</i>	-0.1367	0.7065
Free Phe	<i>AK2+AK3</i>	-0.0971	0.7896
Free Phe	<i>AK3</i>	0.2133	0.5541
Free Phe	<i>AK-HSDH1</i>	0.2352	0.5131
Free Phe	<i>AK-HSDH2</i>	0.7088	0.0217
Free Phe	<i>AK-HSDHs</i>	0.5961	0.0689
Free Phe	<i>AK-HSDHs+CGS1</i>	0.7150	0.0201
Free Phe	<i>AK-HSDHs+TS1</i>	0.7053	0.0227
Free Phe	<i>AK-HSDHs+TS1+TD1</i>	0.7407	0.0143
Free Phe	<i>AK-HSDHs+TS1+THAs</i>	0.7040	0.0231
Free Phe	<i>AKs</i>	-0.1588	0.6613
Free Phe	<i>AKs/AK-HSDHs</i>	-0.4339	0.2103
Free Phe	<i>AKs+AK-HSDHs</i>	-0.0072	0.9842
Free Phe	<i>AKs+AK-HSDHs+CGS1</i>	0.1536	0.6718
Free Phe	<i>AKs+AK-HSDHs+DHDPSS</i>	0.0239	0.9478
Free Phe	<i>AKs+AK-HSDHs+TS1</i>	0.3052	0.3911
Free Phe	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.3514	0.3194
Free Phe	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.3019	0.3965
Free Phe	<i>AKs+DHDPSS</i>	-0.1256	0.7296
Free Phe	<i>BCAT1</i>	-0.7791	0.0079
Free Phe	Biosynthetic genes analyzed	0.4189	0.2282
Free Phe	Catabolic genes analyzed	0.6534	0.0405
Free Phe	<i>CGS1</i>	0.7047	0.0229
Free Phe	<i>CGS1/SAMSS</i>	-0.2705	0.4498
Free Phe	<i>CGS1/TS1</i>	-0.1641	0.6505
Free Phe	<i>DHDPS1</i>	0.4303	0.2145
Free Phe	<i>DHDPS2</i>	0.8020	0.0053
Free Phe	<i>DHDPSs</i>	0.8031	0.0051
Free Phe	<i>DHDPSs/AK-HSDHs</i>	-0.4082	0.2415
Free Phe	<i>DHDPSs/LKR-SDH1</i>	0.6430	0.0449
Free Phe	Free Ala	0.9185	0.0002

Free Phe	Free Arg	0.7635	0.0102
Free Phe	Free Asn	0.8327	0.0028
Free Phe	Free Asp	0.6682	0.0347
Free Phe	Free Cys	-0.0421	0.9081
Free Phe	Free Gln	0.7998	0.0055
Free Phe	Free Glu	0.4322	0.2122
Free Phe	Free Gly	0.6208	0.0555
Free Phe	Free His	0.8886	0.0006
Free Phe	Free Ile	0.5514	0.0985
Free Phe	Free Leu	0.9570	<.0001
Free Phe	Free Lys	0.8811	0.0008
Free Phe	Free Met	0.6286	0.0516
Free Phe	HSDH activity with four effectors	0.6182	0.0568
Free Phe	HSDH activity without effectors	0.3348	0.3443
	<i>LKR-SDH1</i>	-0.2858	0.4235
Free Phe	Lys-sensitive AK activity	-0.5520	0.0980
Free Phe	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.3018	0.3967
Free Phe	SAMS1	0.8246	0.0033
Free Phe	SAMS2	0.7139	0.0204
Free Phe	<i>SAMS3</i>	0.2963	0.4058
Free Phe	SAMS4	0.7362	0.0152
Free Phe	SAMSS	0.6524	0.0409
Free Phe	TD1	0.8891	0.0006
Free Phe	TD1/BCAT1	0.6120	0.0600
Free Phe	<i>THA1</i>	-0.3331	0.3469
Free Phe	<i>THA2</i>	0.0849	0.8157
Free Phe	<i>THAs</i>	0.0284	0.9380
Free Phe	THAs+TD1	0.8679	0.0011
Free Phe	Thr-sensitive AK activity	0.2654	0.4586
Free Phe	TSI	0.6594	0.0380
Free Phe	TSI/(THAs+TD1)	-0.5565	0.0948
Free Phe	TSI/TD1	-0.5735	0.0830
Free Phe	TSI/THAs	0.6268	0.0525
Free Pro	(AK-HSDHs+CGS1)/SAMSS	-0.3673	0.2965
Free Pro	(AK-HSDHs+TSI)/(THAs+TD1)	-0.5963	0.0688
Free Pro	(AK-HSDHs+TSI+TD1)/BCAT1	0.4366	0.2071
Free Pro	(AKs+AK-HSDHs)/AK-HSDHs	-0.1047	0.7734
Free Pro	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.1485	0.6823
Free Pro	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.0163	0.9644
Free Pro	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	-0.5770	0.0808
Free Pro	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	0.4431	0.1997
Free Pro	(AKs+DHDPSS)/LKR-SDH1	-0.0216	0.9527
Free Pro	AK activity with four effectors	-0.1933	0.5926
Free Pro	AK activity without effectors	-0.4645	0.1762
Free Pro	AK activity/HSDH activity with four effectors	-0.1549	0.6692
Free Pro	AK activity/HSDH activity without effectors	-0.0372	0.9188
Free Pro	<i>AK1</i>	0.1905	0.5981
Free Pro	<i>AK1+AK2</i>	0.0322	0.9296
Free Pro	<i>AK1+AK3</i>	0.3484	0.3238
Free Pro	<i>AK2</i>	-0.0075	0.9837
Free Pro	<i>AK2+AK3</i>	0.0310	0.9322
Free Pro	<i>AK3</i>	0.2208	0.5398
Free Pro	<i>AK-HSDH1</i>	-0.2488	0.4881
Free Pro	AK-HSDH2	0.6595	0.0380
Free Pro	<i>AK-HSDHs</i>	0.2903	0.4158
Free Pro	<i>AK-HSDHs+CGS1</i>	0.3103	0.3828
Free Pro	<i>AK-HSDHs+TSI</i>	0.2497	0.4866
Free Pro	<i>AK-HSDHs+TSI+TD1</i>	0.3039	0.3933

Free Pro	<i>AK-HSDHs+TSI+THAs</i>	0.2440	0.4969
Free Pro	<i>AKs</i>	0.0723	0.8427
Free Pro	<i>AKs/AK-HSDHs</i>	-0.1047	0.7734
Free Pro	<i>AKs+AK-HSDHs</i>	0.1527	0.6737
Free Pro	<i>AKs+AK-HSDHs+CGS1</i>	0.2053	0.5693
Free Pro	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1799	0.6189
Free Pro	<i>AKs+AK-HSDHs+TSI</i>	0.2123	0.5561
Free Pro	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.2533	0.4801
Free Pro	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.2075	0.5652
Free Pro	<i>AKs+DHDPSS</i>	0.1018	0.7795
Free Pro	<i>BCAT1</i>	-0.9053	0.0003
Free Pro	Biosynthetic genes analyzed	0.2595	0.4691
Free Pro	Catabolic genes analyzed	0.4953	0.1455
Free Pro	<i>CGS1</i>	0.2757	0.4406
Free Pro	<i>CGS1/SAMSS</i>	-0.3682	0.2952
Free Pro	<i>CGS1/TSI</i>	0.0598	0.8696
Free Pro	<i>DHDPS1</i>	0.4681	0.1724
Free Pro	<i>DHDPS2</i>	0.6440	0.0445
Free Pro	<i>DHDPSs</i>	0.7403	0.0144
Free Pro	<i>DHDPSs/AK-HSDHs</i>	-0.0992	0.7852
Free Pro	<i>DHDPSs/LKR-SDH1</i>	0.3721	0.2897
Free Pro	Free Ala	0.7496	0.0125
Free Pro	Free Arg	0.6900	0.0272
Free Pro	Free Asn	0.9412	<.0001
Free Pro	Free Asp	0.9332	<.0001
Free Pro	Free Cys	0.2949	0.4081
Free Pro	Free Gln	0.9608	<.0001
Free Pro	Free Glu	0.8370	0.0025
Free Pro	Free Gly	0.8546	0.0016
Free Pro	Free His	0.8222	0.0035
Free Pro	Free Ile	0.1855	0.6078
Free Pro	Free Leu	0.7892	0.0066
Free Pro	Free Lys	0.7992	0.0055
Free Pro	Free Met	0.7037	0.0232
Free Pro	Free Phe	0.7225	0.0183
Free Pro	HSDH activity with four effectors	0.2111	0.5582
Free Pro	HSDH activity without effectors	-0.1551	0.6688
Free Pro	<i>LKR-SDH1</i>	-0.1126	0.7569
Free Pro	Lys-sensitive AK activity	-0.6167	0.0575
Free Pro	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.1954	0.5885
Free Pro	<i>SAMS1</i>	0.7797	0.0078
Free Pro	<i>SAMS2</i>	0.5745	0.0824
Free Pro	<i>SAMS3</i>	0.1794	0.6199
Free Pro	<i>SAMS4</i>	0.4503	0.1916
Free Pro	<i>SAMSS</i>	0.4967	0.1442
Free Pro	<i>TD1</i>	0.7516	0.0122
Free Pro	<i>TD1/BCAT1</i>	0.4981	0.1429
Free Pro	<i>THA1</i>	-0.3332	0.3469
Free Pro	<i>THA2</i>	-0.1832	0.6124
Free Pro	<i>THAs</i>	-0.1718	0.6352
Free Pro	<i>THAs+TD1</i>	0.6838	0.0292
Free Pro	Thr-sensitive AK activity	-0.1549	0.6691
Free Pro	<i>TSI</i>	0.1975	0.5844
Free Pro	<i>TSI/(THAs+TD1)</i>	-0.7591	0.0109
Free Pro	<i>TSI/TD1</i>	-0.6815	0.0300
Free Pro	<i>TSI/THAs</i>	0.5489	0.1004
Free Ser	(AK-HSDHs+CGS1)/SAMSS	-0.5337	0.1121
Free Ser	(AK-HSDHs+TSI)/(THAs+TD1)	-0.2137	0.5533

Free Ser	(AK-HSDHs+TSI+TDI)/BCAT1	0.0521	0.8863
Free Ser	(AKs+AK-HSDHs)/AK-HSDHs	-0.5988	0.0674
Free Ser	(AKs+AK-HSDHs+CGS1)/SAMSs	-0.6557	0.0395
Free Ser	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	-0.0582	0.8731
Free Ser	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	-0.5073	0.1345
Free Ser	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	0.0297	0.9351
Free Ser	(AKs+DHDPSs)/LKR-SDH1	-0.2443	0.4963
Free Ser	AK activity with four effectors	-0.4590	0.1820
Free Ser	AK activity without effectors	-0.5850	0.0756
Free Ser	AK activity/HSDH activity with four effectors	-0.5668	0.0875
Free Ser	AK activity/HSDH activity without effectors	-0.5119	0.1304
Free Ser	<i>AK1</i>	0.2521	0.4823
Free Ser	AK1+AK2	-0.5906	0.0722
Free Ser	AK1+AK3	0.4363	0.2074
Free Ser	AK2	-0.6209	0.0554
Free Ser	AK2+AK3	-0.5579	0.0938
Free Ser	<i>AK3</i>	0.2625	0.4637
Free Ser	<i>AK-HSDH1</i>	0.2837	0.4270
Free Ser	AK-HSDH2	0.5984	0.0676
Free Ser	AK-HSDHs	0.5479	0.1011
Free Ser	AK-HSDHs+CGS1	0.3791	0.2800
Free Ser	AK-HSDHs+TSI	0.2452	0.4948
Free Ser	AK-HSDHs+TSI+TDI	0.2800	0.4332
Free Ser	AK-HSDHs+TSI+THAs	0.2304	0.5218
Free Ser	AKs	-0.5325	0.1130
Free Ser	AKs/AK-HSDHs	-0.5988	0.0674
Free Ser	AKs+AK-HSDHs	-0.4072	0.2428
Free Ser	AKs+AK-HSDHs+CGS1	-0.3584	0.3092
Free Ser	AKs+AK-HSDHs+DHDPSs	-0.3842	0.2730
Free Ser	AKs+AK-HSDHs+TSI	-0.2833	0.4277
Free Ser	AKs+AK-HSDHs+TSI+TDI	-0.2396	0.5050
Free Ser	AKs+AK-HSDHs+TSI+THAs	-0.2915	0.4139
Free Ser	AKs+DHDPSs	-0.5103	0.1318
Free Ser	BCAT1	-0.5285	0.1163
Free Ser	Biosynthetic genes analyzed	-0.2209	0.5397
Free Ser	Catabolic genes analyzed	0.6623	0.0369
Free Ser	<i>CGS1</i>	0.1232	0.7345
Free Ser	CGS1/SAMSs	-0.6635	0.0365
Free Ser	<i>CGS1/TSI</i>	-0.0366	0.9200
Free Ser	<i>DHDPS1</i>	0.2457	0.4939
Free Ser	DHDPS2	0.4771	0.1632
Free Ser	DHDPSs	0.4957	0.1452
Free Ser	DHDPSs/AK-HSDHs	-0.4511	0.1907
Free Ser	DHDPSs/LKR-SDH1	0.5430	0.1048
Free Ser	Free Ala	0.6682	0.0347
Free Ser	Free Arg	0.3670	0.2968
Free Ser	Free Asn	0.5925	0.0711
Free Ser	Free Asp	0.6977	0.0249
Free Ser	Free Cys	-0.1337	0.7128
Free Ser	Free Gln	0.7087	0.0218
Free Ser	Free Glu	0.3331	0.3470
Free Ser	Free Gly	0.8586	0.0015
Free Ser	Free His	0.4576	0.1836
Free Ser	Free Ile	-0.0629	0.8629
Free Ser	Free Leu	0.4998	0.1413
Free Ser	Free Lys	0.3572	0.3109
Free Ser	Free Met	0.2802	0.4329
Free Ser	Free Phe	0.5961	0.0689

Free Ser	Free Pro	0.6747	0.0323
Free Ser	HSDH activity with four effectors	0.3113	0.3812
Free Ser	HSDH activity without effectors	0.1392	0.7014
Free Ser	<i>LKR-SDH1</i>	-0.3053	0.3911
Free Ser	Lys-sensitive AK activity	-0.8525	0.0017
Free Ser	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.5818	0.0777
Free Ser	SAMS1	0.6991	0.0245
Free Ser	<i>SAMS2</i>	0.3103	0.3829
Free Ser	SAMS3	0.4282	0.2170
Free Ser	SAMS4	0.5827	0.0771
Free Ser	<i>SAMSs</i>	0.6650	0.0359
Free Ser	TD1	0.5618	0.0910
Free Ser	<i>TD1/BCAT1</i>	0.1183	0.7449
Free Ser	<i>THA1</i>	-0.1520	0.6750
Free Ser	THA2	-0.6183	0.0567
Free Ser	THAs	-0.6722	0.0332
Free Ser	THAs+TD1	0.4134	0.2351
Free Ser	Thr-sensitive AK activity	0.2324	0.5183
Free Ser	<i>TS1</i>	0.0766	0.8333
Free Ser	TS1/(THAs+TD1)	-0.4093	0.2402
Free Ser	<i>TS1/TD1</i>	-0.3213	0.3653
Free Ser	TS1/THAs	0.8501	0.0018
Free Thr	(AK-HSDHs+CGSI)/SAMSs	-0.1176	0.7464
Free Thr	(AK-HSDHs+TS1)/(THAs+TD1)	-0.2483	0.4891
Free Thr	(AK-HSDHs+TS1+TD1)/BCAT1	-0.1395	0.7007
Free Thr	(AKs+AK-HSDHs)/AK-HSDHs	0.6460	0.0436
Free Thr	(AKs+AK-HSDHs+CGSI)/SAMSs	0.5686	0.0863
Free Thr	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	-0.2163	0.5484
Free Thr	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.0477	0.8959
Free Thr	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.1191	0.7432
Free Thr	(AKs+DHDPSSs)/LKR-SDH1	-0.0728	0.8415
Free Thr	AK activity with four effectors	0.2443	0.4963
Free Thr	AK activity without effectors	0.3615	0.3047
Free Thr	AK activity/HSDH activity with four effectors	0.4632	0.1776
Free Thr	AK activity/HSDH activity without effectors	0.3881	0.2678
Free Thr	<i>AK1</i>	0.0579	0.8738
Free Thr	AK1+AK2	0.6184	0.0567
Free Thr	<i>AK1+AK3</i>	0.0701	0.8473
Free Thr	AK2	0.5832	0.0768
Free Thr	AK2+AK3	0.5694	0.0858
Free Thr	<i>AK3</i>	0.0068	0.9852
Free Thr	<i>AK-HSDH1</i>	-0.2733	0.4449
Free Thr	AK-HSDH2	-0.4690	0.1715
Free Thr	AK-HSDHs	-0.4593	0.1818
Free Thr	AK-HSDHs+CGSI	-0.4296	0.2153
Free Thr	<i>AK-HSDHs+TS1</i>	-0.0322	0.9297
Free Thr	<i>AK-HSDHs+TS1+TD1</i>	-0.0240	0.9476
Free Thr	<i>AK-HSDHs+TS1+THAs</i>	-0.0201	0.9561
Free Thr	AKs	0.6097	0.0613
Free Thr	AKs/AK-HSDHs	0.6460	0.0436
Free Thr	AKs+AK-HSDHs	0.5124	0.1299
Free Thr	AKs+AK-HSDHs+CGSI	0.4134	0.2350
Free Thr	AKs+AK-HSDHs+DHDPSSs	0.5131	0.1293
Free Thr	AKs+AK-HSDHs+TS1	0.4777	0.1626
Free Thr	AKs+AK-HSDHs+TS1+TD1	0.4659	0.1747
Free Thr	AKs+AK-HSDHs+TS1+THAs	0.4830	0.1573
Free Thr	AKs+DHDPSSs	0.6120	0.0600

Free Thr	<i>BCAT1</i>	0.0304	0.9336
Free Thr	Biosynthetic genes analyzed	0.3818	0.2763
Free Thr	Catabolic genes analyzed	-0.3212	0.3656
Free Thr	<i>CGS1</i>	-0.3102	0.3831
Free Thr	<i>CGS1/SAMSS</i>	0.1615	0.6558
Free Thr	<i>CGS1/TSI</i>	-0.4054	0.2451
Free Thr	<i>DHDPS1</i>	0.5316	0.1138
Free Thr	<i>DHDPS2</i>	-0.2656	0.4583
Free Thr	<i>DHDPSs</i>	0.1463	0.6867
Free Thr	<i>DHDPSs/AK-HSDHs</i>	0.5634	0.0899
Free Thr	<i>DHDPSs/LKR-SDH1</i>	-0.4984	0.1426
Free Thr	Free Ala	-0.2035	0.5729
Free Thr	Free Arg	-0.0869	0.8113
Free Thr	Free Asn	-0.0109	0.9761
Free Thr	Free Asp	-0.1148	0.7523
Free Thr	Free Cys	0.8476	0.0020
Free Thr	Free Gln	-0.0898	0.8051
Free Thr	Free Glu	0.1861	0.6067
Free Thr	Free Gly	-0.1251	0.7305
Free Thr	Free His	-0.0599	0.8695
Free Thr	Free Ile	0.4603	0.1807
Free Thr	Free Leu	-0.1717	0.6353
Free Thr	Free Lys	-0.0759	0.8350
Free Thr	Free Met	-0.1667	0.6454
Free Thr	Free Phe	-0.3066	0.3889
Free Thr	Free Pro	-0.1459	0.6876
Free Thr	Free Ser	-0.4938	0.1469
Free Thr	HSDH activity with four effectors	-0.3306	0.3508
Free Thr	HSDH activity without effectors	-0.1861	0.6067
Free Thr	<i>LKR-SDH1</i>	0.6443	0.0443
Free Thr	Lys-sensitive AK activity	0.5327	0.1129
Free Thr	Lys-sensitive AK activity/Thr-sensitive AK activity	0.6063	0.0631
Free Thr	<i>SAMS1</i>	-0.2530	0.4806
Free Thr	<i>SAMS2</i>	0.3718	0.2901
Free Thr	<i>SAMS3</i>	-0.2654	0.4586
Free Thr	<i>SAMS4</i>	-0.3088	0.3854
Free Thr	<i>SAMSS</i>	-0.3262	0.3577
Free Thr	<i>TD1</i>	0.0229	0.9499
Free Thr	<i>TD1/BCAT1</i>	-0.1493	0.6805
Free Thr	<i>THA1</i>	0.1780	0.6228
Free Thr	<i>THA2</i>	0.5148	0.1279
Free Thr	<i>THAs</i>	0.5977	0.0680
Free Thr	<i>THAs+TD1</i>	0.1385	0.7028
Free Thr	Thr-sensitive AK activity	-0.5430	0.1048
Free Thr	<i>TS1</i>	0.1613	0.6562
Free Thr	<i>TS1/(THAs+TD1)</i>	-0.1462	0.6870
Free Thr	<i>TS1/TD1</i>	-0.2107	0.5591
Free Thr	<i>TS1/THAs</i>	-0.2502	0.4858
Free Thr/(Gly+Ile)	(AK-HSDHs+ <i>CGS1</i>)/SAMSS	-0.0043	0.9905
Free Thr/(Gly+Ile)	(AK-HSDHs+ <i>TS1</i>)/(THAs+ <i>TD1</i>)	-0.1644	0.6499
Free Thr/(Gly+Ile)	(AK-HSDHs+ <i>TS1+TD1</i>)/ <i>BCAT1</i>	-0.2039	0.5721
Free Thr/(Gly+Ile)	(AKs+AK-HSDHs)/AK-HSDHs	0.6651	0.0359
Free Thr/(Gly+Ile)	(AKs+AK-HSDHs+<i>CGS1</i>)/SAMSS	0.5659	0.0882
Free Thr/(Gly+Ile)	(AKs+AK-HSDHs+ <i>DHDPSs</i>)/ <i>LKR-SDH1</i>	-0.2058	0.5684
Free Thr/(Gly+Ile)	(AKs+AK-HSDHs+ <i>TS1</i>)/(THAs+ <i>TD1</i>)	0.1259	0.7289
Free Thr/(Gly+Ile)	(AKs+AK-HSDHs+ <i>TS1+TD1</i>)/ <i>BCAT1</i>	-0.1853	0.6083
Free Thr/(Gly+Ile)	(AKs+ <i>DHDPSs</i>)/ <i>LKR-SDH1</i>	-0.0555	0.8790

Free Thr/(Gly+Ile)	AK activity with four effectors	0.3145	0.3762
Free Thr/(Gly+Ile)	AK activity without effectors	0.4782	0.1621
Free Thr/(Gly+Ile)	AK activity/HSDH activity with four effectors	0.5001	0.1411
Free Thr/(Gly+Ile)	AK activity/HSDH activity without effectors	0.4077	0.2421
Free Thr/(Gly+Ile)	<i>AK1</i>	-0.0099	0.9783
Free Thr/(Gly+Ile)	<i>AK1+AK2</i>	0.5753	0.0818
Free Thr/(Gly+Ile)	<i>AK1+AK3</i>	-0.0392	0.9144
Free Thr/(Gly+Ile)	<i>AK2</i>	0.5559	0.0952
Free Thr/(Gly+Ile)	<i>AK2+AK3</i>	0.5321	0.1134
Free Thr/(Gly+Ile)	<i>AK3</i>	-0.0517	0.8872
Free Thr/(Gly+Ile)	<i>AK-HSDH1</i>	-0.2477	0.4903
Free Thr/(Gly+Ile)	<i>AK-HSDH2</i>	-0.5856	0.0753
Free Thr/(Gly+Ile)	<i>AK-HSDHs</i>	-0.5209	0.1227
Free Thr/(Gly+Ile)	<i>AK-HSDHs+CGS1</i>	-0.4458	0.1966
Free Thr/(Gly+Ile)	<i>AK-HSDHs+TSI</i>	-0.1177	0.7462
Free Thr/(Gly+Ile)	<i>AK-HSDHs+TSI+TD1</i>	-0.1190	0.7433
Free Thr/(Gly+Ile)	<i>AK-HSDHs+TSI+THAs</i>	-0.1034	0.7762
Free Thr/(Gly+Ile)	<i>AKs</i>	0.5566	0.0947
Free Thr/(Gly+Ile)	<i>AKs/AK-HSDHs</i>	0.6651	0.0359
Free Thr/(Gly+Ile)	<i>AKs+AK-HSDHs</i>	0.4410	0.2020
Free Thr/(Gly+Ile)	<i>AKs+AK-HSDHs+CGS1</i>	0.3538	0.3159
Free Thr/(Gly+Ile)	<i>AKs+AK-HSDHs+DHDPSs</i>	0.4344	0.2097
Free Thr/(Gly+Ile)	<i>AKs+AK-HSDHs+TSI</i>	0.3817	0.2764
Free Thr/(Gly+Ile)	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.3626	0.3032
Free Thr/(Gly+Ile)	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3891	0.2664
Free Thr/(Gly+Ile)	<i>AKs+DHDPSs</i>	0.5510	0.0988
Free Thr/(Gly+Ile)	<i>BCAT1</i>	0.1869	0.6052
Free Thr/(Gly+Ile)	Biosynthetic genes analyzed	0.2950	0.4080
Free Thr/(Gly+Ile)	Catabolic genes analyzed	-0.3953	0.2583
Free Thr/(Gly+Ile)	<i>CGS1</i>	-0.2769	0.4386
Free Thr/(Gly+Ile)	<i>CGS1/SAMSS</i>	0.2842	0.4262
Free Thr/(Gly+Ile)	<i>CGS1/TSI</i>	-0.2850	0.4248
Free Thr/(Gly+Ile)	<i>DHDPS1</i>	0.3586	0.3089
Free Thr/(Gly+Ile)	<i>DHDPS2</i>	-0.3988	0.2536
Free Thr/(Gly+Ile)	<i>DHDPSs</i>	-0.0546	0.8809
Free Thr/(Gly+Ile)	<i>DHDPSs/AK-HSDHs</i>	0.5745	0.0824
Free Thr/(Gly+Ile)	<i>DHDPSs/LKR-SDH1</i>	-0.5542	0.0964
Free Thr/(Gly+Ile)	<i>Free (Lys+Met+Thr+Ile)/Asp</i>	0.9421	<.0001
Free Thr/(Gly+Ile)	Free Ala	-0.3584	0.3092
Free Thr/(Gly+Ile)	Free Arg	-0.1753	0.6281
Free Thr/(Gly+Ile)	Free Asn	-0.1868	0.6052
Free Thr/(Gly+Ile)	Free Asn+Asp	-0.2918	0.4134
Free Thr/(Gly+Ile)	<i>Free Asn+Asp+Lys+Met+Thr+Ile</i>	0.7494	0.0126
Free Thr/(Gly+Ile)	<i>Free Asn+Asp+Lys+Thr+Ile</i>	0.7537	0.0118
Free Thr/(Gly+Ile)	Free Asp	-0.2991	0.4011
Free Thr/(Gly+Ile)	<i>Free Asp+Lys+Met+Thr+Ile</i>	0.7848	0.0072
Free Thr/(Gly+Ile)	<i>Free Cys</i>	0.7387	0.0147
Free Thr/(Gly+Ile)	Free Gln	-0.2549	0.4773
Free Thr/(Gly+Ile)	Free Glu	0.0032	0.9931
Free Thr/(Gly+Ile)	Free Gly	-0.3137	0.3774
Free Thr/(Gly+Ile)	<i>Free Gly/Thr</i>	-0.8151	0.0041
Free Thr/(Gly+Ile)	Free Gly+Ile	-0.2830	0.4282
Free Thr/(Gly+Ile)	Free His	-0.1815	0.6159
Free Thr/(Gly+Ile)	<i>Free Ile</i>	0.4341	0.2101
Free Thr/(Gly+Ile)	<i>Free Ile/Thr</i>	-0.8477	0.0020
Free Thr/(Gly+Ile)	Free Leu	-0.3071	0.3881
Free Thr/(Gly+Ile)	Free Lys	-0.1960	0.5874
Free Thr/(Gly+Ile)	<i>Free Lys/(Met+Thr+Ile)</i>	-0.9071	0.0003

Free Thr/(Gly+Ile)	Free Lys/Asp	0.2472	0.4911
Free Thr/(Gly+Ile)	Free Lys/Thr	-0.8664	0.0012
Free Thr/(Gly+Ile)	Free Lys+Met+Thr+Ile	0.9584	<.0001
Free Thr/(Gly+Ile)	Free Met	-0.2455	0.4942
Free Thr/(Gly+Ile)	Free Met/(Thr+Ile)	-0.8507	0.0018
Free Thr/(Gly+Ile)	Free Met/Thr	-0.8140	0.0042
Free Thr/(Gly+Ile)	Free Met+Thr+Ile	0.9643	<.0001
Free Thr/(Gly+Ile)	Free Phe	-0.4293	0.2157
Free Thr/(Gly+Ile)	Free Pro	-0.3275	0.3556
Free Thr/(Gly+Ile)	Free Ser	-0.6290	0.0514
Free Thr/(Gly+Ile)	Free Thr	0.9665	<.0001
Free Thr/(Gly+Ile)	Free Thr/Asp	0.9465	<.0001
Free Thr/(Gly+Ile)	Free Trp	-0.5008	0.1403
Free Thr/(Gly+Ile)	Free Tyr	-0.3447	0.3294
Free Thr/(Gly+Ile)	Free Val	-0.3622	0.3037
Free Thr/(Gly+Ile)	HSDH activity with four effectors	-0.3361	0.3423
Free Thr/(Gly+Ile)	HSDH activity without effectors	-0.1358	0.7084
Free Thr/(Gly+Ile)	LKR-SDH1	0.5880	0.0738
Free Thr/(Gly+Ile)	Lys-sensitive AK activity	0.6336	0.0492
Free Thr/(Gly+Ile)	Lys-sensitive AK activity/Thr-sensitive AK activity	0.7250	0.0177
Free Thr/(Gly+Ile)	SAMS1	-0.3771	0.2827
Free Thr/(Gly+Ile)	SAMS2	0.2162	0.5486
Free Thr/(Gly+Ile)	SAMS3	-0.2842	0.4261
Free Thr/(Gly+Ile)	SAMS4	-0.3818	0.2763
Free Thr/(Gly+Ile)	SAMSs	-0.4000	0.2520
Free Thr/(Gly+Ile)	TD1	-0.1389	0.7019
Free Thr/(Gly+Ile)	TD1/BCAT1	-0.2250	0.5321
Free Thr/(Gly+Ile)	THA1	0.1328	0.7146
Free Thr/(Gly+Ile)	THA2	0.6179	0.0569
Free Thr/(Gly+Ile)	THAs	0.6812	0.0301
Free Thr/(Gly+Ile)	THAs+TD1	0.0000	1.0000
Free Thr/(Gly+Ile)	Thr-sensitive AK activity	-0.5617	0.0911
Free Thr/(Gly+Ile)	Total free AAs	-0.0163	0.9645
Free Thr/(Gly+Ile)	TS1	0.0762	0.8342
Free Thr/(Gly+Ile)	TS1/(THAs+TD1)	-0.0353	0.9228
Free Thr/(Gly+Ile)	TS1/TD1	-0.0890	0.8068
Free Thr/(Gly+Ile)	TS1/THAs	-0.4022	0.2493
Free Thr/Asp	(AK-HSDHs+CGS1)/SAMSs	-0.1417	0.6962
Free Thr/Asp	(AK-HSDHs+TS1)/(THAs+TD1)	-0.0389	0.9150
Free Thr/Asp	(AK-HSDHs+TS1+TD1)/BCAT1	-0.2125	0.5557
Free Thr/Asp	(AKs+AK-HSDHs)/AK-HSDHs	0.4972	0.1438
Free Thr/Asp	(AKs+AK-HSDHs+CGS1)/SAMSs	0.4022	0.2492
Free Thr/Asp	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.1116	0.7589
Free Thr/Asp	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.1817	0.6154
Free Thr/Asp	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.1997	0.5803
Free Thr/Asp	(AKs+DHDPSS)/LKR-SDH1	0.0158	0.9655
Free Thr/Asp	AK activity with four effectors	0.4028	0.2485
Free Thr/Asp	AK activity without effectors	0.5658	0.0882
Free Thr/Asp	AK activity/HSDH activity with four effectors	0.5760	0.0814
Free Thr/Asp	AK activity/HSDH activity without effectors	0.3952	0.2583
Free Thr/Asp	AK1	0.0472	0.8970
Free Thr/Asp	AK1+AK2	0.5071	0.1347
Free Thr/Asp	AK1+AK3	-0.1203	0.7406
Free Thr/Asp	AK2	0.4783	0.1620
Free Thr/Asp	AK2+AK3	0.4273	0.2180
Free Thr/Asp	AK3	-0.2219	0.5377
Free Thr/Asp	AK-HSDH1	-0.0802	0.8257
Free Thr/Asp	AK-HSDH2	-0.5631	0.0901

Free Thr/Asp	<i>AK-HSDHs</i>	-0.4119	0.2369
Free Thr/Asp	<i>AK-HSDHs+CGS1</i>	-0.3607	0.3059
Free Thr/Asp	<i>AK-HSDHs+TSI</i>	-0.0608	0.8674
Free Thr/Asp	<i>AK-HSDHs+TSI+TD1</i>	-0.0709	0.8456
Free Thr/Asp	<i>AK-HSDHs+TSI+THAs</i>	-0.0495	0.8920
Free Thr/Asp	AKs	0.4585	0.1826
Free Thr/Asp	AKs/AK-HSDHs	0.4972	0.1438
Free Thr/Asp	<i>AKs+AK-HSDHs</i>	0.3679	0.2956
Free Thr/Asp	<i>AKs+AK-HSDHs+CGS1</i>	0.2946	0.4086
Free Thr/Asp	<i>AKs+AK-HSDHs+DHDPSs</i>	0.3614	0.3048
Free Thr/Asp	<i>AKs+AK-HSDHs+TSI</i>	0.3366	0.3415
Free Thr/Asp	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.3162	0.3735
Free Thr/Asp	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3430	0.3319
Free Thr/Asp	AKs+DHDPSs	0.4528	0.1888
Free Thr/Asp	<i>BCAT1</i>	0.3651	0.2996
Free Thr/Asp	Biosynthetic genes analyzed	0.2614	0.4657
Free Thr/Asp	Catabolic genes analyzed	-0.2572	0.4731
Free Thr/Asp	<i>CGS1</i>	-0.2335	0.5163
Free Thr/Asp	<i>CGS1/SAMSS</i>	0.1086	0.7653
Free Thr/Asp	<i>CGS1/TSI</i>	-0.3197	0.3679
Free Thr/Asp	<i>DHDPS1</i>	0.2329	0.5173
Free Thr/Asp	<i>DHDPS2</i>	-0.3236	0.3617
Free Thr/Asp	<i>DHDPSs</i>	-0.0755	0.8357
Free Thr/Asp	<i>DHDPSs/AK-HSDHs</i>	0.3944	0.2594
Free Thr/Asp	DHDPSs/LKR-SDH1	-0.4121	0.2366
Free Thr/Asp	Free (Lys+Met+Thr+Ile)/Asp	0.9992	<.0001
Free Thr/Asp	Free Ala	-0.4388	0.2046
Free Thr/Asp	Free Arg	-0.3115	0.3810
Free Thr/Asp	Free Asn	-0.3105	0.3825
Free Thr/Asp	Free Asn+Asp	-0.4187	0.2285
Free Thr/Asp	Free Asn+Asp+Lys+Met+Thr+Ile	0.6277	0.0520
Free Thr/Asp	Free Asn+Asp+Lys+Thr+Ile	0.6328	0.0496
Free Thr/Asp	Free Asp	-0.4252	0.2206
Free Thr/Asp	Free Asp+Lys+Met+Thr+Ile	0.6685	0.0346
Free Thr/Asp	Free Cys	0.7004	0.0241
Free Thr/Asp	Free Gln	-0.3465	0.3267
Free Thr/Asp	Free Glu	-0.1848	0.6092
Free Thr/Asp	Free Gly	-0.3006	0.3986
Free Thr/Asp	Free Gly/Thr	-0.7795	0.0079
Free Thr/Asp	Free Gly+Ile	-0.2761	0.4401
Free Thr/Asp	Free His	-0.2844	0.4257
Free Thr/Asp	Free Ile	0.3396	0.3370
Free Thr/Asp	Free Ile/Thr	-0.8307	0.0029
Free Thr/Asp	Free Leu	-0.3825	0.2753
Free Thr/Asp	Free Lys	-0.3121	0.3800
Free Thr/Asp	Free Lys/(Met+Thr+Ile)	-0.8931	0.0005
Free Thr/Asp	Free Lys/Asp	0.3125	0.3793
Free Thr/Asp	Free Lys/Thr	-0.8555	0.0016
Free Thr/Asp	Free Lys+Met+Thr+Ile	0.8895	0.0006
Free Thr/Asp	Free Met	-0.3352	0.3438
Free Thr/Asp	Free Met/Thr	-0.7955	0.0059
Free Thr/Asp	Free Met+Thr+Ile	0.8997	0.0004
Free Thr/Asp	Free Phe	-0.4884	0.1521
Free Thr/Asp	Free Pro	-0.4279	0.2173
Free Thr/Asp	Free Ser	-0.6212	0.0553
Free Thr/Asp	Free Thr	0.9031	0.0003
Free Thr/Asp	Free Trp	-0.4738	0.1666
Free Thr/Asp	Free Tyr	-0.4170	0.2306

	Free Val	
Free Thr/Asp	HSDH activity with four effectors	-0.4232 0.2229
Free Thr/Asp	HSDH activity without effectors	-0.3240 0.3610
Free Thr/Asp	LKR-SDH1	-0.0499 0.8910
Free Thr/Asp	Lys-sensitive AK activity	0.4121 0.2366
Free Thr/Asp	Lys-sensitive AK activity/Thr-sensitive AK activity	0.7047 0.0229
Free Thr/Asp	SAMS1	0.5421 0.1055
Free Thr/Asp	SAMS2	-0.4591 0.1819
Free Thr/Asp	SAMS3	0.0847 0.8161
Free Thr/Asp	SAMS4	-0.0752 0.8364
Free Thr/Asp	SAMSS	-0.2720 0.4471
Free Thr/Asp	TD1	-0.2619 0.4648
Free Thr/Asp	TD1/BCAT1	-0.1798 0.6191
Free Thr/Asp	THA1	-0.2352 0.5130
Free Thr/Asp	THA2	0.0634 0.8618
Free Thr/Asp	THAs	0.5023 0.1390
Free Thr/Asp	THAs+TD1	0.5469 0.1018
Free Thr/Asp	Thr-sensitive AK activity	-0.4011 0.2507
Free Thr/Asp	Total free AAs	-0.1563 0.6664
Free Trp	TS1	0.1024 0.7784
Free Trp	TS1/(THAs+TD1)	0.0948 0.7944
Free Trp	TS1/TD1	-0.0074 0.9838
Free Trp	TS1/THAs	-0.3147 0.3757
Free Trp	(AK-HSDHs+CGSI)/SAMSS	-0.2546 0.4778
Free Trp	(AK-HSDHs+TS1)/(THAs+TD1)	-0.2923 0.4125
Free Trp	(AK-HSDHs+TS1+TD1)/BCAT1	0.5889 0.0733
Free Trp	(AKs+AK-HSDHs)/AK-HSDHs	-0.6419 0.0454
Free Trp	(AKs+AK-HSDHs+CGSI)/SAMSS	-0.5654 0.0885
Free Trp	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.1565 0.6658
Free Trp	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.5904 0.0723
Free Trp	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.5666 0.0877
Free Trp	(AKs+DHDPSs)/LKR-SDH1	-0.0057 0.9876
Free Trp	AK activity with four effectors	-0.0544 0.8813
Free Trp	AK activity without effectors	-0.1662 0.6463
Free Trp	AK activity/HSDH activity with four effectors	-0.4214 0.2252
Free Trp	AK activity/HSDH activity without effectors	-0.4302 0.2146
Free Trp	AK1	-0.0544 0.8813
Free Trp	AK1+AK2	-0.3521 0.3183
Free Trp	AK1+AK3	-0.0576 0.8745
Free Trp	AK2	-0.3274 0.3558
Free Trp	AK2+AK3	-0.3204 0.3668
Free Trp	AK3	-0.0069 0.9848
Free Trp	AK-HSDH1	0.3964 0.2567
Free Trp	AK-HSDH2	0.7273 0.0171
Free Trp	AK-HSDHs	0.6992 0.0244
Free Trp	AK-HSDHs+CGSI	0.7713 0.0090
Free Trp	AK-HSDHs+TS1	0.6990 0.0245
Free Trp	AK-HSDHs+TS1+TD1	0.7281 0.0170
Free Trp	AK-HSDHs+TS1+THAs	0.6940 0.0260
Free Trp	AKs	-0.3478 0.3247
Free Trp	AKs/AK-HSDHs	-0.6419 0.0454
Free Trp	AKs+AK-HSDHs	-0.1761 0.6265
Free Trp	AKs+AK-HSDHs+CGSI	-0.0076 0.9834
Free Trp	AKs+AK-HSDHs+DHDPSs	-0.1442 0.6911
Free Trp	AKs+AK-HSDHs+TS1	0.1472 0.6848
Free Trp	AKs+AK-HSDHs+TS1+TD1	0.1940 0.5912
Free Trp	AKs+AK-HSDHs+TS1+THAs	0.1427 0.6940

Free Trp	<i>AKs+DHDPSS</i>	-0.3146	0.3760
Free Trp	<i>BCAT1</i>	-0.6595	0.0380
Free Trp	Biosynthetic genes analyzed	0.2747	0.4425
Free Trp	Catabolic genes analyzed	0.8027	0.0052
Free Trp	<i>CGS1</i>	0.6986	0.0246
Free Trp	<i>CGS1/SAMSS</i>	-0.4794	0.1609
Free Trp	<i>CGS1/TS1</i>	-0.1728	0.6331
Free Trp	<i>DHDPS1</i>	0.3588	0.3085
Free Trp	<i>DHDPS2</i>	0.8272	0.0031
Free Trp	<i>DHDPSs</i>	0.7829	0.0074
Free Trp	<i>DHDPSs/AK-HSDHs</i>	-0.5705	0.0851
Free Trp	<i>DHDPSs/LKR-SDH1</i>	0.7727	0.0088
Free Trp	Free Ala	0.8205	0.0036
Free Trp	Free Arg	0.7112	0.0211
Free Trp	Free Asn	0.7661	0.0098
Free Trp	Free Asp	0.6142	0.0589
Free Trp	Free Cys	-0.0341	0.9255
Free Trp	Free Gln	0.7876	0.0068
Free Trp	Free Glu	0.2760	0.4401
Free Trp	Free Gly	0.7156	0.0200
Free Trp	Free His	0.8154	0.0040
Free Trp	Free Ile	0.4466	0.1957
Free Trp	Free Leu	0.9056	0.0003
Free Trp	Free Lys	0.7948	0.0060
Free Trp	Free Met	0.6001	0.0666
Free Trp	Free Phe	0.9406	<.0001
Free Trp	Free Pro	0.6931	0.0263
Free Trp	Free Ser	0.6991	0.0245
Free Trp	Free Thr	-0.3884	0.2673
Free Trp	HSDH activity with four effectors	0.6798	0.0306
Free Trp	HSDH activity without effectors	0.4784	0.1619
Free Trp	<i>LKR-SDH1</i>	-0.4629	0.1779
Free Trp	Lys-sensitive AK activity	-0.5850	0.0757
Free Trp	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.4320	0.2125
Free Trp	<i>SAMS1</i>	0.7568	0.0113
Free Trp	<i>SAMS2</i>	0.5718	0.0842
Free Trp	<i>SAMS3</i>	0.5248	0.1193
Free Trp	<i>SAMS4</i>	0.8116	0.0044
Free Trp	<i>SAMSS</i>	0.8028	0.0052
Free Trp	<i>TDI</i>	0.8251	0.0033
Free Trp	<i>TDI/BCAT1</i>	0.6418	0.0455
Free Trp	<i>THA1</i>	-0.4286	0.2165
Free Trp	<i>THA2</i>	-0.0825	0.8208
Free Trp	<i>THAs</i>	-0.1638	0.6512
Free Trp	<i>THAs+TDI</i>	0.7706	0.0091
Free Trp	Thr-sensitive AK activity	0.3090	0.3850
Free Trp	<i>TSI</i>	0.6054	0.0636
Free Trp	<i>TSI/(THAs+TDI)</i>	-0.4501	0.1919
Free Trp	<i>TSI/TD1</i>	-0.4911	0.1495
Free Trp	<i>TSI/THAs</i>	0.7678	0.0095
Free Tyr	(AK-HSDHs+CGS1)/SAMSS	0.2519	0.4826
Free Tyr	(AK-HSDHs+TS1)/(THAs+TD1)	-0.3877	0.2684
Free Tyr	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.6061	0.0632
Free Tyr	(AKs+AK-HSDHs)/AK-HSDHs	-0.3292	0.3529
Free Tyr	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2367	0.5102
Free Tyr	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.0584	0.8727
Free Tyr	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	-0.5597	0.0925
Free Tyr	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.5907	0.0722

Free Tyr	<i>(AKs+DHDPs)/LKR-SDH1</i>	-0.0334	0.9270
Free Tyr	AK activity with four effectors	-0.0031	0.9933
Free Tyr	AK activity without effectors	0.0115	0.9749
Free Tyr	AK activity/HSDH activity with four effectors	-0.4109	0.2382
Free Tyr	AK activity/HSDH activity without effectors	-0.3248	0.3598
Free Tyr	AKI	-0.4979	0.1431
Free Tyr	<i>AKI+AK2</i>	-0.2164	0.5482
Free Tyr	AKI+AK3	-0.4299	0.2150
Free Tyr	<i>AK2</i>	-0.1044	0.7742
Free Tyr	<i>AK2+AK3</i>	-0.0970	0.7897
Free Tyr	<i>AK3</i>	0.0402	0.9122
Free Tyr	<i>AK-HSDH1</i>	0.2024	0.5749
Free Tyr	AK-HSDH2	0.4549	0.1865
Free Tyr	<i>AK-HSDHs</i>	0.4135	0.2349
Free Tyr	AK-HSDHs+CGS1	0.6624	0.0369
Free Tyr	AK-HSDHs+TS1	0.5606	0.0918
Free Tyr	AK-HSDHs+TS1+TD1	0.5849	0.0757
Free Tyr	AK-HSDHs+TS1+THAs	0.5659	0.0881
Free Tyr	<i>AKs</i>	-0.2066	0.5670
Free Tyr	<i>AKs/AK-HSDHs</i>	-0.3292	0.3529
Free Tyr	<i>AKs+AK-HSDHs</i>	-0.1050	0.7728
Free Tyr	<i>AKs+AK-HSDHs+CGS1</i>	0.0831	0.8194
Free Tyr	<i>AKs+AK-HSDHs+DHDPs</i>	-0.0846	0.8163
Free Tyr	<i>AKs+AK-HSDHs+TS1</i>	0.1775	0.6236
Free Tyr	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.2131	0.5545
Free Tyr	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.1789	0.6210
Free Tyr	<i>AKs+DHDPs</i>	-0.1848	0.6094
Free Tyr	BCAT1	-0.6411	0.0458
Free Tyr	Biosynthetic genes analyzed	0.3113	0.3813
Free Tyr	Catabolic genes analyzed	0.4459	0.1965
Free Tyr	CGS1	0.7982	0.0056
Free Tyr	<i>CGS1/SAMs</i>	0.0904	0.8039
Free Tyr	<i>CGS1/TS1</i>	0.0468	0.8979
Free Tyr	<i>DHDPS1</i>	0.2614	0.4657
Free Tyr	DHDPS2	0.5568	0.0945
Free Tyr	DHDPSs	0.5171	0.1259
Free Tyr	<i>DHDPSs/AK-HSDHs</i>	-0.2994	0.4006
Free Tyr	DHDPSs/LKR-SDH1	0.4767	0.1636
Free Tyr	<i>Free Ala</i>	0.7387	0.0147
Free Tyr	<i>Free Arg</i>	0.6713	0.0336
Free Tyr	<i>Free Asn</i>	0.5878	0.0739
Free Tyr	<i>Free Asp</i>	0.4060	0.2443
Free Tyr	<i>Free Cys</i>	-0.1800	0.6188
Free Tyr	Free Gln	0.5473	0.1015
Free Tyr	<i>Free Glu</i>	0.1563	0.6663
Free Tyr	<i>Free Gly</i>	0.2898	0.4167
Free Tyr	Free His	0.7345	0.0155
Free Tyr	Free Ile	0.6628	0.0367
Free Tyr	Free Leu	0.8462	0.0020
Free Tyr	Free Lys	0.8185	0.0038
Free Tyr	Free Met	0.6082	0.0621
Free Tyr	Free Phe	0.8853	0.0007
Free Tyr	Free Pro	0.4549	0.1865
Free Tyr	<i>Free Ser</i>	0.3316	0.3492
Free Tyr	<i>Free Thr</i>	-0.3266	0.3571
Free Tyr	Free Trp	0.8103	0.0045
Free Tyr	HSDH activity with four effectors	0.6614	0.0373
Free Tyr	HSDH activity without effectors	0.4669	0.1737

Free Tyr	<i>LKR-SDH1</i>	-0.2716	0.4478
Free Tyr	Lys-sensitive AK activity	-0.4047	0.2460
Free Tyr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.0663	0.8556
Free Tyr	SAMS1	0.6766	0.0317
Free Tyr	SAMS2	0.5486	0.1006
Free Tyr	<i>SAMS3</i>	0.1324	0.7154
Free Tyr	SAMS4	0.5489	0.1004
Free Tyr	SAMSS	0.4449	0.1976
Free Tyr	TD1	0.6646	0.0360
Free Tyr	TD1/BCAT1	0.6356	0.0483
Free Tyr	<i>THA1</i>	-0.3073	0.3877
Free Tyr	<i>THA2</i>	0.3871	0.2690
Free Tyr	<i>THAs</i>	0.2984	0.4024
Free Tyr	THAs+TD1	0.7079	0.0220
Free Tyr	Thr-sensitive AK activity	0.1557	0.6675
Free Tyr	TSI	0.5507	0.0990
Free Tyr	TSI/(THAs+TD1)	-0.4708	0.1697
Free Tyr	TSI/TD1	-0.4893	0.1512
Free Tyr	<i>TSI/THAs</i>	0.3094	0.3843
Free Val	(AK-HSDHs+CGS1)/SAMSS	-0.0163	0.9644
Free Val	(AK-HSDHs+TS1)/(THAs+TD1)	-0.2082	0.5639
Free Val	(AK-HSDHs+TS1+TD1)/BCAT1	0.3107	0.3823
Free Val	(AKs+AK-HSDHs)/AK-HSDHs	-0.4185	0.2287
Free Val	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2835	0.4273
Free Val	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.2801	0.4332
Free Val	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.3987	0.2538
Free Val	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	0.2987	0.4019
Free Val	(AKs+DHDPSS)/LKR-SDH1	0.1566	0.6657
Free Val	AK activity with four effectors	0.0834	0.8187
Free Val	AK activity without effectors	0.0351	0.9233
Free Val	AK activity/HSDH activity with four effectors	-0.2338	0.5156
Free Val	AK activity/HSDH activity without effectors	-0.1232	0.7346
Free Val	<i>AK1</i>	-0.3880	0.2679
Free Val	<i>AK1+AK2</i>	-0.1726	0.6334
Free Val	<i>AK1+AK3</i>	0.0120	0.9738
Free Val	<i>AK2</i>	-0.0855	0.8142
Free Val	<i>AK2+AK3</i>	-0.0028	0.9939
Free Val	AK3	0.4676	0.1730
Free Val	<i>AK-HSDH1</i>	0.3383	0.3391
Free Val	AK-HSDH2	0.7135	0.0205
Free Val	AK-HSDHs	0.6554	0.0397
Free Val	AK-HSDHs+CGS1	0.7552	0.0116
Free Val	AK-HSDHs+TS1	0.8259	0.0032
Free Val	AK-HSDHs+TS1+TD1	0.8484	0.0019
Free Val	AK-HSDHs+TS1+THAs	0.8256	0.0033
Free Val	<i>AKs</i>	-0.0853	0.8147
Free Val	AKs/AK-HSDHs	-0.4185	0.2287
Free Val	<i>AKs+AK-HSDHs</i>	0.0840	0.8176
Free Val	<i>AKs+AK-HSDHs+CGS1</i>	0.2431	0.4986
Free Val	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1110	0.7602
Free Val	AKs+AK-HSDHs+TS1	0.4391	0.2042
Free Val	AKs+AK-HSDHs+TS1+TD1	0.4782	0.1621
Free Val	AKs+AK-HSDHs+TS1+THAs	0.4359	0.2080
Free Val	<i>AKs+DHDPSS</i>	-0.0560	0.8779
Free Val	BCAT1	-0.5577	0.0939
Free Val	Biosynthetic genes analyzed	0.5397	0.1073
Free Val	Catabolic genes analyzed	0.6256	0.0531

Free Val	<i>CGS1</i>	0.7168	0.0197
Free Val	<i>CGS1/SAMSS</i>	-0.2757	0.4408
Free Val	<i>CGS1/TS1</i>	-0.2967	0.4052
Free Val	<i>DHDPS1</i>	0.2822	0.4295
Free Val	<i>DHDPS2</i>	0.8103	0.0045
Free Val	<i>DHDPSs</i>	0.7189	0.0191
Free Val	<i>DHDPSs/AK-HSDHs</i>	-0.4452	0.1973
Free Val	<i>DHDPSs/LKR-SDH1</i>	0.6589	0.0383
Free Val	Free Ala	0.8329	0.0028
Free Val	Free Arg	0.6650	0.0359
Free Val	Free Asn	0.6956	0.0255
Free Val	Free Asp	0.4815	0.1588
Free Val	Free Cys	-0.1851	0.6087
Free Val	Free Gln	0.6267	0.0525
Free Val	Free Glu	0.3587	0.3087
Free Val	Free Gly	0.4087	0.2409
Free Val	Free His	0.8109	0.0044
Free Val	Free Ile	0.4851	0.1553
Free Val	Free Leu	0.7893	0.0066
Free Val	Free Lys	0.6871	0.0282
Free Val	Free Met	0.4148	0.2333
Free Val	Free Phe	0.8940	0.0005
Free Val	Free Pro	0.5162	0.1266
Free Val	Free Ser	0.4290	0.2160
Free Val	Free Thr	-0.2665	0.4567
Free Val	Free Trp	0.7758	0.0083
Free Val	Free Tyr	0.7587	0.0110
Free Val	HSDH activity with four effectors	0.5312	0.1141
Free Val	HSDH activity without effectors	0.2526	0.4814
<i>LKR-SDH1</i>		-0.3017	0.3969
Free Val	Lys-sensitive AK activity	-0.3723	0.2893
Free Val	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.2517	0.4830
Free Val	<i>SAMS1</i>	0.7020	0.0236
Free Val	<i>SAMS2</i>	0.6903	0.0271
Free Val	<i>SAMS3</i>	0.3024	0.3958
Free Val	<i>SAMS4</i>	0.7865	0.0070
Free Val	<i>SAMSS</i>	0.6229	0.0544
Free Val	<i>TDI</i>	0.8392	0.0024
Free Val	<i>TDI/BCAT1</i>	0.3516	0.3191
Free Val	<i>THA1</i>	-0.3621	0.3039
Free Val	<i>THA2</i>	0.1254	0.7299
Free Val	<i>THAs</i>	0.0843	0.8170
Free Val	THAs+TDI	0.8296	0.0030
Free Val	Thr-sensitive AK activity	0.4867	0.1537
Free Val	<i>TSI</i>	0.7913	0.0064
Free Val	<i>TSI/(THAs+TDI)</i>	-0.3509	0.3202
Free Val	<i>TSI/TDI</i>	-0.3772	0.2826
Free Val	TSI/THAs	0.5504	0.0993
HSDH activity with four effectors	(AK-HSDHs+CGS1)/SAMSS	0.2642	0.4607
HSDH activity with four effectors	(AK-HSDHs+TS1)/(THAs+TDI)	0.3086	0.3857
HSDH activity with four effectors	(AK-HSDHs+TS1+TDI)/BCAT1	0.6336	0.0492
HSDH activity with four effectors	(AKs+AK-HSDHs)/AK-HSDHs	-0.6242	0.0537
HSDH activity with four effectors	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.3205	0.3667
HSDH activity with four effectors	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.4993	0.1417
HSDH activity with four effectors	(AKs+AK-HSDHs+TS1)/(THAs+TDI)	0.0478	0.8957
HSDH activity with four effectors	(AKs+AK-HSDHs+TS1+TDI)/BCAT1	0.6102	0.0610
HSDH activity with four effectors	(AKs+DHDPSs)/LKR-SDH1	0.3428	0.3322
HSDH activity with four effectors	AK activity with four effectors	0.3411	0.3348

HSDH activity with four effectors	AK activity without effectors	0.2889	0.4182
HSDH activity with four effectors	<i>AK1</i>	0.0330	0.9279
HSDH activity with four effectors	<i>AK1+AK2</i>	-0.1855	0.6079
HSDH activity with four effectors	<i>AK1+AK3</i>	-0.0889	0.8070
HSDH activity with four effectors	<i>AK2</i>	-0.1853	0.6082
HSDH activity with four effectors	<i>AK2+AK3</i>	-0.2060	0.5679
HSDH activity with four effectors	<i>AK3</i>	-0.1495	0.6802
HSDH activity with four effectors	<i>AK-HSDH1</i>	0.6694	0.0343
HSDH activity with four effectors	<i>AK-HSDH2</i>	0.5993	0.0671
HSDH activity with four effectors	<i>AK-HSDHs</i>	0.7708	0.0091
HSDH activity with four effectors	<i>AK-HSDHs+CGS1</i>	0.8182	0.0038
HSDH activity with four effectors	<i>AK-HSDHs+TS1</i>	0.6756	0.0320
HSDH activity with four effectors	<i>AK-HSDHs+TS1+TD1</i>	0.6601	0.0378
HSDH activity with four effectors	<i>AK-HSDHs+TS1+THAs</i>	0.6748	0.0323
HSDH activity with four effectors	<i>AKs</i>	-0.2098	0.5607
HSDH activity with four effectors	<i>AKs/AK-HSDHs</i>	-0.6242	0.0537
HSDH activity with four effectors	<i>AKs+AK-HSDHs</i>	-0.0145	0.9683
HSDH activity with four effectors	<i>AKs+AK-HSDHs+CGS1</i>	0.1479	0.6835
HSDH activity with four effectors	<i>AKs+AK-HSDHs+DHDPSS</i>	0.0002	0.9996
HSDH activity with four effectors	<i>AKs+AK-HSDHs+TS1</i>	0.2455	0.4941
HSDH activity with four effectors	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.2588	0.4703
HSDH activity with four effectors	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.2431	0.4986
HSDH activity with four effectors	<i>AKs+DHDPSS</i>	-0.1933	0.5927
HSDH activity with four effectors	<i>BCAT1</i>	-0.2190	0.5433
HSDH activity with four effectors	Biosynthetic genes analyzed	0.3533	0.3166
HSDH activity with four effectors	Catabolic genes analyzed	0.5488	0.1004
HSDH activity with four effectors	<i>CGS1</i>	0.7061	0.0225
HSDH activity with four effectors	<i>CGS1/SAMSS</i>	-0.1946	0.5900
HSDH activity with four effectors	<i>CGS1/TS1</i>	-0.1407	0.6982
HSDH activity with four effectors	<i>DHDPS1</i>	0.0906	0.8033
HSDH activity with four effectors	<i>DHDPS2</i>	0.4913	0.1493
HSDH activity with four effectors	<i>DHDPSs</i>	0.3775	0.2821
HSDH activity with four effectors	<i>DHDPSs/AK-HSDHs</i>	-0.7110	0.0212
HSDH activity with four effectors	<i>DHDPSs/LKR-SDH1</i>	0.7180	0.0194
HSDH activity with four effectors	HSDH activity without effectors	0.8670	0.0012
HSDH activity with four effectors	<i>LKR-SDH1</i>	-0.5710	0.0847
HSDH activity with four effectors	<i>SAMS1</i>	0.1347	0.7106
HSDH activity with four effectors	<i>SAMS2</i>	0.1965	0.5864
HSDH activity with four effectors	<i>SAMS3</i>	0.5546	0.0961
HSDH activity with four effectors	<i>SAMS4</i>	0.5460	0.1025
HSDH activity with four effectors	<i>SAMSS</i>	0.5497	0.0997
HSDH activity with four effectors	<i>TD1</i>	0.3397	0.3369
HSDH activity with four effectors	<i>TD1/BCAT1</i>	0.6414	0.0456
HSDH activity with four effectors	<i>THA1</i>	-0.4379	0.2056
HSDH activity with four effectors	<i>THA2</i>	0.1269	0.7269
HSDH activity with four effectors	<i>THAs</i>	0.0077	0.9831
HSDH activity with four effectors	<i>THAs+TD1</i>	0.3418	0.3337
HSDH activity with four effectors	<i>TS1</i>	0.5445	0.1037
HSDH activity with four effectors	<i>TS1/(THAs+TD1)</i>	0.1276	0.7253
HSDH activity with four effectors	<i>TS1/TD1</i>	0.1605	0.6578
HSDH activity with four effectors	<i>TS1/THAs</i>	0.4901	0.1504
HSDH activity without effectors	<i>(AK-HSDHs+CGS1)/SAMSS</i>	0.1789	0.6209
HSDH activity without effectors	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	0.4286	0.2165
HSDH activity without effectors	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	0.4777	0.1626
HSDH activity without effectors	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.6654	0.0358
HSDH activity without effectors	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.4408	0.2022
HSDH activity without effectors	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.2466	0.4922

HSDH activity without effectors	$(AKs+AK-HSDHs+TSI)/(THAs+TDI)$	0.0609	0.8673
HSDH activity without effectors	$(AKs+AK-HSDHs+TSI+TDI)/BCAT1$	0.4439	0.1988
HSDH activity without effectors	$(AKs+DHDPSSs)/LKR-SDH1$	0.0831	0.8194
HSDH activity without effectors	AK activity without effectors	0.3383	0.3390
	<i>AK1</i>	0.0894	0.8060
	<i>AK1+AK2</i>	-0.3549	0.3143
	<i>AK1+AK3</i>	-0.2400	0.5042
	<i>AK2</i>	-0.3609	0.3055
	<i>AK2+AK3</i>	-0.4216	0.2249
	<i>AK3</i>	-0.4073	0.2427
	<i>AK-HSDH1</i>	0.7999	0.0055
	<i>AK-HSDH2</i>	0.2084	0.5635
	<i>AK-HSDHs</i>	0.5897	0.0728
	<i>AK-HSDHs+CGS1</i>	0.6071	0.0627
	<i>AK-HSDHs+TSI</i>	0.5640	0.0894
	<i>AK-HSDHs+TSI+TDI</i>	0.5337	0.1121
	<i>AK-HSDHs+TSI+THAs</i>	0.5650	0.0888
	<i>AKs</i>	-0.4232	0.2230
	<i>AKs/AK-HSDHs</i>	-0.6654	0.0358
	<i>AKs+AK-HSDHs</i>	-0.2839	0.4267
	<i>AKs+AK-HSDHs+CGS1</i>	-0.1528	0.6735
	<i>AKs+AK-HSDHs+DHDPSSs</i>	-0.2744	0.4430
	<i>AKs+AK-HSDHs+TSI</i>	0.0035	0.9925
	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.0086	0.9813
	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.0031	0.9933
	<i>AKs+DHDPSSs</i>	-0.4139	0.2344
	<i>BCAT1</i>	0.1060	0.7707
	Biosynthetic genes analyzed	0.0941	0.7960
	Catabolic genes analyzed	0.4020	0.2495
	<i>CGS1</i>	0.5011	0.1401
	<i>CGS1/SAMSSs</i>	-0.1727	0.6333
	<i>CGS1/TSI</i>	-0.3138	0.3772
	<i>DHDPS1</i>	0.0948	0.7944
	<i>DHDPS2</i>	0.2127	0.5553
	<i>DHDPSs</i>	0.1857	0.6075
	<i>DHDPSs/AK-HSDHs</i>	-0.6010	0.0661
	<i>DHDPSs/LKR-SDH1</i>	0.5311	0.1142
	<i>LKR-SDH1</i>	-0.4338	0.2103
	<i>SAMS1</i>	-0.1021	0.7789
	<i>SAMS2</i>	0.0605	0.8682
	<i>SAMS3</i>	0.5124	0.1299
	<i>SAMS4</i>	0.3744	0.2864
	<i>SAMSSs</i>	0.4021	0.2494
	<i>TD1</i>	0.0960	0.7919
	<i>TD1/BCAT1</i>	0.4691	0.1714
	<i>THA1</i>	-0.2325	0.5180
	<i>THA2</i>	0.1389	0.7020
	<i>THAs</i>	0.0184	0.9599
	<i>THAs+TDI</i>	0.1155	0.7506
	<i>TSI</i>	0.4788	0.1615
	<i>TSI/(THAs+TDI)</i>	0.3603	0.3064
	<i>TSI/TD1</i>	0.2897	0.4169
	<i>TSI/THAs</i>	0.3916	0.2631
	<i>AK1</i>	-0.1312	0.7178
	<i>AK2</i>	0.2951	0.4078
	<i>AK3</i>	0.1647	0.6494
	<i>AK-HSDH1</i>	-0.5670	0.0874

LKR-SDH1	AK-HSDH2	-0.6844	0.0290
LKR-SDH1	CGS1	-0.6692	0.0343
LKR-SDH1	DHDPS1	0.5814	0.0779
LKR-SDH1	DHDPS2	-0.5591	0.0929
LKR-SDH1	TD1	-0.1076	0.7673
LKR-SDH1	TS1	-0.1742	0.6304
Lys-sensitive AK activity	(AK-HSDHs+CGS1)/SAMSs	0.3628	0.3029
Lys-sensitive AK activity	(AK-HSDHs+TS1)/(THAs+TD1)	0.4260	0.2197
Lys-sensitive AK activity	(AK-HSDHs+TS1+TD1)/BCAT1	-0.0639	0.8609
Lys-sensitive AK activity	(AKs+AK-HSDHs)/AK-HSDHs	0.4259	0.2197
Lys-sensitive AK activity	(AKs+AK-HSDHs+CGS1)/SAMSs	0.5868	0.0745
Lys-sensitive AK activity	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.4484	0.1937
Lys-sensitive AK activity	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.7232	0.0181
Lys-sensitive AK activity	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.0435	0.9050
Lys-sensitive AK activity	(AKs+DHDPSs)/LKR-SDH1	0.5912	0.0718
Lys-sensitive AK activity	AK activity with four effectors	0.7769	0.0082
Lys-sensitive AK activity	AK activity without effectors	0.8360	0.0026
Lys-sensitive AK activity	AK activity/HSDH activity with four effectors	0.7477	0.0129
Lys-sensitive AK activity	AK activity/HSDH activity without effectors	0.6205	0.0556
Lys-sensitive AK activity	AK1	-0.0829	0.8200
Lys-sensitive AK activity	AK1+AK2	0.6960	0.0254
Lys-sensitive AK activity	AK1+AK3	-0.2384	0.5072
Lys-sensitive AK activity	AK2	0.6877	0.0280
Lys-sensitive AK activity	AK2+AK3	0.6323	0.0498
Lys-sensitive AK activity	AK3	-0.2156	0.5496
Lys-sensitive AK activity	AK-HSDH1	0.0146	0.9681
Lys-sensitive AK activity	AK-HSDH2	-0.3032	0.3944
Lys-sensitive AK activity	AK-HSDHs	-0.1885	0.6021
Lys-sensitive AK activity	AK-HSDHs+CGS1	-0.1078	0.7670
Lys-sensitive AK activity	AK-HSDHs+TS1	-0.0190	0.9584
Lys-sensitive AK activity	AK-HSDHs+TS1+TD1	-0.0605	0.8682
Lys-sensitive AK activity	AK-HSDHs+TS1+THAs	-0.0091	0.9800
Lys-sensitive AK activity	AKs	0.6449	0.0441
Lys-sensitive AK activity	AKs/AK-HSDHs	0.4259	0.2197
Lys-sensitive AK activity	AKs+AK-HSDHs	0.6192	0.0563
Lys-sensitive AK activity	AKs+AK-HSDHs+CGS1	0.5867	0.0746
Lys-sensitive AK activity	AKs+AK-HSDHs+DHDPSs	0.5999	0.0667
Lys-sensitive AK activity	AKs+AK-HSDHs+TS1	0.5137	0.1288
Lys-sensitive AK activity	AKs+AK-HSDHs+TS1+TD1	0.4702	0.1702
Lys-sensitive AK activity	AKs+AK-HSDHs+TS1+THAs	0.5187	0.1245
Lys-sensitive AK activity	AKs+DHDPSs	0.6280	0.0518
Lys-sensitive AK activity	BCAT1	0.6128	0.0596
Lys-sensitive AK activity	Biosynthetic genes analyzed	0.4544	0.1871
Lys-sensitive AK activity	Catabolic genes analyzed	-0.3335	0.3464
Lys-sensitive AK activity	CGS1	0.0028	0.9938
Lys-sensitive AK activity	CGS1/SAMSs	0.3119	0.3803
Lys-sensitive AK activity	CGS1/TS1	-0.0355	0.9225
Lys-sensitive AK activity	DHDPS1	-0.2976	0.4037
Lys-sensitive AK activity	DHDPS2	-0.2602	0.4678
Lys-sensitive AK activity	DHDPSs	-0.3643	0.3007
Lys-sensitive AK activity	DHDPSs/AK-HSDHs	0.0800	0.8261
Lys-sensitive AK activity	DHDPSs/LKR-SDH1	-0.2150	0.5508
Lys-sensitive AK activity	HSDH activity with four effectors	-0.0984	0.7867
Lys-sensitive AK activity	HSDH activity without effectors	0.0149	0.9675
Lys-sensitive AK activity	LKR-SDH1	0.0295	0.9355
Lys-sensitive AK activity	SAMS1	-0.7735	0.0087
Lys-sensitive AK activity	SAMS2	-0.3295	0.3525

Lys-sensitive AK activity	<i>SAMS3</i>	-0.0049	0.9893
Lys-sensitive AK activity	<i>SAMS4</i>	-0.3010	0.3980
Lys-sensitive AK activity	<i>SAMSS</i>	-0.3361	0.3423
Lys-sensitive AK activity	<i>TDI</i>	-0.4552	0.1862
Lys-sensitive AK activity	<i>TDI/BCAT1</i>	-0.1185	0.7443
Lys-sensitive AK activity	<i>THA1</i>	-0.0952	0.7935
Lys-sensitive AK activity	<i>THA2</i>	0.4923	0.1483
Lys-sensitive AK activity	<i>THAs</i>	0.5119	0.1304
Lys-sensitive AK activity	<i>THAs+TDI</i>	-0.3420	0.3334
Lys-sensitive AK activity	<i>TSI</i>	0.0597	0.8699
Lys-sensitive AK activity	<i>TSI/(THAs+TDI)</i>	0.4940	0.1468
Lys-sensitive AK activity	<i>TSI/TDI</i>	0.4673	0.1732
Lys-sensitive AK activity	<i>TSI/THAs</i>	-0.5507	0.0990
Lys-sensitive AK activity/Thr-sensitive AK activity	(AK-HSDHs+CGSI)/SAMSS	0.3500	0.3214
Lys-sensitive AK activity/Thr-sensitive AK activity	(AK-HSDHs+TSI)/(THAs+TDI)	-0.1867	0.6055
Lys-sensitive AK activity/Thr-sensitive AK activity	(AK-HSDHs+TSI+TDI)/BCAT1	-0.0753	0.8361
Lys-sensitive AK activity/Thr-sensitive AK activity	(AKs+AK-HSDHs)/AK-HSDHs	0.6654	0.0358
Lys-sensitive AK activity/Thr-sensitive AK activity	(AKs+AK-HSDHs+CGSI)/SAMSs	0.5508	0.0989
Lys-sensitive AK activity/Thr-sensitive AK activity	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.1398	0.7001
Lys-sensitive AK activity/Thr-sensitive AK activity	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	0.1003	0.7827
Lys-sensitive AK activity/Thr-sensitive AK activity	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	-0.0559	0.8781
Lys-sensitive AK activity/Thr-sensitive AK activity	(AKs+DHDPSS)/LKR-SDH1	-0.0007	0.9985
Lys-sensitive AK activity/Thr-sensitive AK activity	AK activity with four effectors	0.2987	0.4018
Lys-sensitive AK activity/Thr-sensitive AK activity	AK activity without effectors	0.3917	0.2630
Lys-sensitive AK activity/Thr-sensitive AK activity	AK activity/HSDH activity with four effectors	0.3317	0.3491
Lys-sensitive AK activity/Thr-sensitive AK activity	AK activity/HSDH activity without effectors	0.3602	0.3066
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK1</i>	-0.0781	0.8302
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK1+AK2</i>	0.4341	0.2100
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK1+AK3</i>	-0.0173	0.9622
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK2</i>	0.4346	0.2094
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK2+AK3</i>	0.4329	0.2114
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK3</i>	0.0642	0.8602
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK-HSDH1</i>	-0.3950	0.2586
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK-HSDH2</i>	-0.4434	0.1993
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK-HSDHs</i>	-0.5107	0.1314
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK-HSDHs+CGSI</i>	-0.3133	0.3781
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK-HSDHs+TSI</i>	-0.2672	0.4555
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK-HSDHs+TSI+TDI</i>	-0.2670	0.4558
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AK-HSDHs+TSI+THAs</i>	-0.2505	0.4852
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs</i>	0.4390	0.2044
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs/AK-HSDHs</i>	0.6654	0.0358
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs+AK-HSDHs</i>	0.3215	0.3650
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs+AK-HSDHs+CGSI</i>	0.2939	0.4097
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs+AK-HSDHs+DHDPSS</i>	0.3070	0.3883
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs+AK-HSDHs+TSI</i>	0.1934	0.5924
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.1736	0.6315
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.2031	0.5735
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>AKs+DHDPSS</i>	0.4252	0.2206
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>BCAT1</i>	0.0050	0.9891
Lys-sensitive AK activity/Thr-sensitive AK activity	Biosynthetic genes analyzed	0.1583	0.6623
Lys-sensitive AK activity/Thr-sensitive AK activity	Catabolic genes analyzed	-0.4529	0.1888
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>CGSI</i>	-0.0446	0.9026
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>CGSI/SAMSS</i>	0.5820	0.0775
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>CGSI/TSI</i>	0.1761	0.6266
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>DHDPS1</i>	0.0997	0.7841
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>DHDPS2</i>	-0.4593	0.1818
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>DHDPSs</i>	-0.2640	0.4611

Lys-sensitive AK activity/Thr-sensitive AK activity	<i>DHDPSs/AK-HSDHs</i>	0.5788	0.0795
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>DHDPSs/LKR-SDH1</i>	-0.5343	0.1116
Lys-sensitive AK activity/Thr-sensitive AK activity	HSDH activity with four effectors	-0.1339	0.7124
Lys-sensitive AK activity/Thr-sensitive AK activity	HSDH activity without effectors	-0.0964	0.7910
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>LKR-SDH1</i>	0.3820	0.2760
Lys-sensitive AK activity/Thr-sensitive AK activity	Lys-sensitive AK activity	0.4408	0.2023
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>SAMS1</i>	-0.2717	0.4475
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>SAMS2</i>	0.0728	0.8416
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>SAMS3</i>	-0.3927	0.2617
Lys-sensitive AK activity/Thr-sensitive AK activity	SAMS4	-0.4382	0.2053
Lys-sensitive AK activity/Thr-sensitive AK activity	SAMSS	-0.4549	0.1866
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>TD1</i>	-0.2312	0.5205
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>TD1/BCAT1</i>	-0.0990	0.7856
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>THA1</i>	-0.1319	0.7165
Lys-sensitive AK activity/Thr-sensitive AK activity	THA2	0.7611	0.0106
Lys-sensitive AK activity/Thr-sensitive AK activity	THAs	0.7842	0.0072
Lys-sensitive AK activity/Thr-sensitive AK activity	<i>THAs+TD1</i>	-0.0705	0.8466
Lys-sensitive AK activity/Thr-sensitive AK activity	Thr-sensitive AK activity	-0.7265	0.0173
Protein-bound Ala	<i>TSI</i>	-0.1247	0.7315
Protein-bound Ala	<i>TSI/(THAs+TD1)</i>	-0.1045	0.7739
Protein-bound Ala	<i>TSI/TD1</i>	-0.0171	0.9625
Protein-bound Ala	TSI/THAs	-0.5884	0.0735
Protein-bound Ala	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.3709	0.2913
Protein-bound Ala	<i>(AK-HSDHs+TSI)/(THAs+TD1)</i>	0.3252	0.3592
Protein-bound Ala	(AK-HSDHs+TSI+TD1)/BCAT1	-0.4899	0.1506
Protein-bound Ala	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.3349	0.3442
Protein-bound Ala	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.3192	0.3686
Protein-bound Ala	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	-0.0001	0.9997
Protein-bound Ala	<i>(AKs+AK-HSDHs+TSI)/(THAs+TD1)</i>	0.0949	0.7944
Protein-bound Ala	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	-0.5112	0.1310
Protein-bound Ala	<i>(AKs+DHDPSs)/LKR-SDH1</i>	-0.0962	0.7916
Protein-bound Ala	AK activity with four effectors	0.0240	0.9475
Protein-bound Ala	AK activity without effectors	0.2536	0.4795
Protein-bound Ala	AK activity/HSDH activity with four effectors	0.0070	0.9847
Protein-bound Ala	AK activity/HSDH activity without effectors	-0.1362	0.7076
Protein-bound Ala	AK1	-0.1318	0.7166
Protein-bound Ala	<i>AK1+AK2</i>	-0.2718	0.4475
Protein-bound Ala	<i>AK1+AK3</i>	-0.0108	0.9765
Protein-bound Ala	<i>AK2</i>	-0.2358	0.5120
Protein-bound Ala	<i>AK2+AK3</i>	-0.2053	0.5694
Protein-bound Ala	<i>AK3</i>	0.1311	0.7181
Protein-bound Ala	AK-HSDH1	0.6149	0.0585
Protein-bound Ala	<i>AK-HSDH2</i>	-0.1391	0.7015
Protein-bound Ala	<i>AK-HSDHs</i>	0.2525	0.4815
Protein-bound Ala	<i>AK-HSDHs+CGS1</i>	0.0836	0.8184
Protein-bound Ala	<i>AK-HSDHs+TSI</i>	0.3793	0.2797
Protein-bound Ala	<i>AK-HSDHs+TSI+TD1</i>	0.3593	0.3079
Protein-bound Ala	<i>AK-HSDHs+TSI+THAs</i>	0.3753	0.2853
Protein-bound Ala	<i>AKs</i>	-0.2437	0.4974
Protein-bound Ala	<i>AKs/AK-HSDHs</i>	-0.3349	0.3442
Protein-bound Ala	<i>AKs+AK-HSDHs</i>	-0.1868	0.6053
Protein-bound Ala	<i>AKs+AK-HSDHs+CGS1</i>	-0.2016	0.5765
Protein-bound Ala	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.1816	0.6155
Protein-bound Ala	<i>AKs+AK-HSDHs+TSI</i>	0.0353	0.9228
Protein-bound Ala	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.0388	0.9153
Protein-bound Ala	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.0327	0.9286
Protein-bound Ala	<i>AKs+DHDPSs</i>	-0.2399	0.5045

Protein-bound Ala	<i>BCAT1</i>	0.5054	0.1361
Protein-bound Ala	Biosynthetic genes analyzed	0.0153	0.9666
Protein-bound Ala	Catabolic genes analyzed	0.2315	0.5198
Protein-bound Ala	<i>CGS1</i>	-0.1127	0.7566
Protein-bound Ala	<i>CGS1/SAMSS</i>	-0.4414	0.2016
Protein-bound Ala	<i>CGS1/TSI</i>	-0.6339	0.0491
Protein-bound Ala	<i>DHDPS1</i>	0.0439	0.9041
Protein-bound Ala	<i>DHDPS2</i>	0.0583	0.8730
Protein-bound Ala	<i>DHDPSs</i>	0.0744	0.8382
Protein-bound Ala	<i>DHDPSs/AK-HSDHs</i>	-0.2798	0.4337
Protein-bound Ala	<i>DHDPSs/LKR-SDH1</i>	0.1752	0.6282
Protein-bound Ala	Free (Lys+Met+Thr+Ile)/Asp	0.3404	0.3358
Protein-bound Ala	Free Ala	-0.0139	0.9696
Protein-bound Ala	Free Arg	-0.4644	0.1763
Protein-bound Ala	Free Asn	-0.3477	0.3249
Protein-bound Ala	Free Asn+Asp	-0.3538	0.3159
Protein-bound Ala	Free Asn+Asp+Lys+Met+Thr+Ile	-0.0214	0.9532
Protein-bound Ala	Free Asn+Asp+Lys+Thr+Ile	-0.0170	0.9628
Protein-bound Ala	Free Asp	-0.3510	0.3200
Protein-bound Ala	Free Asp+Lys+Met+Thr+Ile	0.0045	0.9902
Protein-bound Ala	Free Cys	-0.0635	0.8616
Protein-bound Ala	Free Gln	-0.3371	0.3408
Protein-bound Ala	Free Glu	-0.4530	0.1886
Protein-bound Ala	Free Gly	-0.0470	0.8975
Protein-bound Ala	Free Gly/Thr	0.0801	0.8259
Protein-bound Ala	Free Gly+Ile	-0.0429	0.9063
Protein-bound Ala	Free His	-0.3279	0.3550
Protein-bound Ala	Free Ile	0.0565	0.8767
Protein-bound Ala	Free Ile/Thr	0.1069	0.7688
Protein-bound Ala	Free Leu	-0.2878	0.4200
Protein-bound Ala	Free Lys	-0.4781	0.1622
Protein-bound Ala	Free Lys/(Met+Thr+Ile)	0.0050	0.9892
Protein-bound Ala	Free Lys/Asp	0.0002	0.9995
Protein-bound Ala	Free Lys/Thr	0.0354	0.9226
Protein-bound Ala	Free Lys+Met+Thr+Ile	0.1519	0.6753
Protein-bound Ala	Free Met	-0.5565	0.0948
Protein-bound Ala	Free Met/(Thr+Ile)	-0.0314	0.9314
Protein-bound Ala	Free Met/Thr	0.0319	0.9304
Protein-bound Ala	Free Met+Thr+Ile	0.1692	0.6402
Protein-bound Ala	Free Phe	-0.1366	0.7066
Protein-bound Ala	Free Pro	-0.4670	0.1736
Protein-bound Ala	Free Ser	0.0136	0.9702
Protein-bound Ala	Free Thr	0.1758	0.6272
Protein-bound Ala	Free Thr/(Gly+Ile)	0.1627	0.6533
Protein-bound Ala	Free Thr/Asp	0.3419	0.3336
Protein-bound Ala	Free Trp	-0.0620	0.8648
Protein-bound Ala	Free Tyr	-0.2450	0.4951
Protein-bound Ala	Free Val	0.0831	0.8194
Protein-bound Ala	HSDH activity with four effectors	-0.0934	0.7974
Protein-bound Ala	HSDH activity without effectors	0.1868	0.6053
Protein-bound Ala	<i>LKR-SDH1</i>	0.0231	0.9496
Protein-bound Ala	Lys-sensitive AK activity	0.1653	0.6480
Protein-bound Ala	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.3809	0.2775
Protein-bound Ala	<i>SAMS1</i>	-0.1313	0.7177
Protein-bound Ala	<i>SAMS2</i>	0.0934	0.7974
Protein-bound Ala	<i>SAMS3</i>	0.2995	0.4006
Protein-bound Ala	<i>SAMS4</i>	0.3042	0.3928

Protein-bound Ala	<i>SAMSS</i>	0.2274	0.5275
Protein-bound Ala	<i>TDI</i>	0.0684	0.8510
Protein-bound Ala	<i>TDI/BCAT1</i>	-0.4878	0.1526
Protein-bound Ala	<i>THA1</i>	0.2323	0.5184
Protein-bound Ala	<i>THA2</i>	-0.1969	0.5856
Protein-bound Ala	<i>THAs</i>	-0.2067	0.5667
Protein-bound Ala	<i>THAs+TDI</i>	0.0355	0.9225
Protein-bound Ala	Thr-sensitive AK activity	0.6035	0.0647
Protein-bound Ala	Total free AAs	-0.3088	0.3854
	<i>TSI</i>	0.3848	0.2722
	<i>TSI/(THAs+TDI)</i>	0.3609	0.3056
	<i>TSI/TDI</i>	0.2031	0.5735
	<i>TSI/THAs</i>	0.3298	0.3520
Protein-bound Arg	(AK-HSDHs+CGS1)/SAMSS	0.1772	0.6244
Protein-bound Arg	(AK-HSDHs+TSI)/(THAs+TDI)	0.1891	0.6008
Protein-bound Arg	(AK-HSDHs+TSI+TDI)/BCAT1	-0.5404	0.1068
Protein-bound Arg	(AKs+AK-HSDHs)/AK-HSDHs	0.3084	0.3860
Protein-bound Arg	(AKs+AK-HSDHs+CGS1)/SAMSS	0.1948	0.5896
Protein-bound Arg	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.4006	0.2513
Protein-bound Arg	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	0.2627	0.4634
Protein-bound Arg	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	-0.5343	0.1116
Protein-bound Arg	(AKs+DHDPSS)/LKR-SDH1	-0.3060	0.3898
Protein-bound Arg	AK activity with four effectors	-0.3541	0.3155
Protein-bound Arg	AK activity without effectors	-0.1834	0.6120
Protein-bound Arg	AK activity/HSDH activity with four effectors	0.0553	0.8795
Protein-bound Arg	AK activity/HSDH activity without effectors	0.0828	0.8201
	<i>AK1</i>	-0.1887	0.6017
Protein-bound Arg	<i>AK1+AK2</i>	-0.0836	0.8184
Protein-bound Arg	<i>AK1+AK3</i>	-0.2623	0.4640
Protein-bound Arg	<i>AK2</i>	-0.0422	0.9078
Protein-bound Arg	<i>AK2+AK3</i>	-0.0601	0.8689
Protein-bound Arg	<i>AK3</i>	-0.1074	0.7678
Protein-bound Arg	<i>AK-HSDH1</i>	-0.2946	0.4087
Protein-bound Arg	<i>AK-HSDH2</i>	-0.7196	0.0190
Protein-bound Arg	<i>AK-HSDHs</i>	-0.6365	0.0478
Protein-bound Arg	<i>AK-HSDHs+CGS1</i>	-0.7045	0.0229
Protein-bound Arg	<i>AK-HSDHs+TSI</i>	-0.6499	0.0419
Protein-bound Arg	<i>AK-HSDHs+TSI+TDI</i>	-0.6733	0.0329
Protein-bound Arg	<i>AK-HSDHs+TSI+THAs</i>	-0.6498	0.0420
Protein-bound Arg	<i>AKs</i>	-0.1022	0.7787
Protein-bound Arg	<i>AKs/AK-HSDHs</i>	0.3084	0.3860
Protein-bound Arg	<i>AKs+AK-HSDHs</i>	-0.2751	0.4417
Protein-bound Arg	<i>AKs+AK-HSDHs+CGS1</i>	-0.4050	0.2456
Protein-bound Arg	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.3005	0.3989
Protein-bound Arg	<i>AKs+AK-HSDHs+TSI</i>	-0.4834	0.1569
Protein-bound Arg	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.5139	0.1286
Protein-bound Arg	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.4811	0.1592
Protein-bound Arg	<i>AKs+DHDPSS</i>	-0.1310	0.7182
Protein-bound Arg	<i>BCAT1</i>	0.6135	0.0592
Protein-bound Arg	Biosynthetic genes analyzed	-0.5662	0.0879
Protein-bound Arg	Catabolic genes analyzed	-0.7034	0.0232
Protein-bound Arg	<i>CGS1</i>	-0.6407	0.0459
Protein-bound Arg	<i>CGS1/SAMSS</i>	0.4104	0.2387
Protein-bound Arg	<i>CGS1/TSI</i>	0.1467	0.6858
Protein-bound Arg	<i>DHDPS1</i>	-0.4112	0.2378
Protein-bound Arg	<i>DHDPS2</i>	-0.6894	0.0274
Protein-bound Arg	<i>DHDPSs</i>	-0.7291	0.0167

Protein-bound Arg	<i>DHDPSs/AK-HSDHs</i>	0.4496	0.1923
Protein-bound Arg	<i>DHDPSs/LKR-SDH1</i>	-0.6478	0.0428
Protein-bound Arg	Free (Lys+Met+Thr+Ile)/Asp	0.1028	0.7774
Protein-bound Arg	Free Ala	-0.5533	0.0971
Protein-bound Arg	Free Arg	-0.9048	0.0003
Protein-bound Arg	Free Asn	-0.8118	0.0043
Protein-bound Arg	Free Asn+Asp	-0.5292	0.1157
Protein-bound Arg	Free Asn+Asp+Lys+Met+Thr+Ile	-0.3182	0.3703
Protein-bound Arg	Free Asn+Asp+Lys+Thr+Ile	-0.3135	0.3777
Protein-bound Arg	Free Asp	-0.4780	0.1623
Protein-bound Arg	Free Asp+Lys+Met+Thr+Ile	-0.2716	0.4477
Protein-bound Arg	Free Cys	-0.3623	0.3036
Protein-bound Arg	Free Gln	-0.8129	0.0042
Protein-bound Arg	Free Glu	-0.3967	0.2564
Protein-bound Arg	Free Gly	-0.5923	0.0712
Protein-bound Arg	Free Gly/Thr	0.0023	0.9950
Protein-bound Arg	Free Gly+Ile	-0.6191	0.0563
Protein-bound Arg	Free His	-0.8831	0.0007
Protein-bound Arg	Free Ile	-0.5201	0.1233
Protein-bound Arg	Free Ile/Thr	0.1332	0.7137
Protein-bound Arg	Free Leu	-0.7528	0.0120
Protein-bound Arg	Free Lys	-0.7468	0.0131
Protein-bound Arg	Free Lys/(Met+Thr+Ile)	-0.0058	0.9873
Protein-bound Arg	Free Lys/Asp	-0.1838	0.6112
Protein-bound Arg	Free Lys/Thr	0.0352	0.9232
Protein-bound Arg	Free Lys+Met+Thr+Ile	-0.0807	0.8245
Protein-bound Arg	Free Met	-0.3924	0.2620
Protein-bound Arg	Free Met/(Thr+Ile)	0.0471	0.8973
Protein-bound Arg	Free Met/Thr	0.1426	0.6943
Protein-bound Arg	Free Met+Thr+Ile	-0.0532	0.8839
Protein-bound Arg	Free Phe	-0.7281	0.0170
Protein-bound Arg	Free Pro	-0.6827	0.0296
Protein-bound Arg	Free Ser	-0.4586	0.1825
Protein-bound Arg	Free Thr	-0.0394	0.9140
Protein-bound Arg	Free Thr/(Gly+Ile)	0.0564	0.8770
Protein-bound Arg	Free Thr/Asp	0.1102	0.7619
Protein-bound Arg	Free Trp	-0.7489	0.0127
Protein-bound Arg	Free Tyr	-0.5851	0.0756
Protein-bound Arg	Free Val	-0.6115	0.0603
Protein-bound Arg	HSDH activity with four effectors	-0.7135	0.0205
Protein-bound Arg	HSDH activity without effectors	-0.4430	0.1997
<i>LKR-SDH1</i>		0.3864	0.2701
Protein-bound Arg	Lys-sensitive AK activity	0.1963	0.5868
Protein-bound Arg	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.0799	0.8264
Protein-bound Arg	Protein-bound Ala	0.2463	0.4928
Protein-bound Arg	SAMS1	-0.4666	0.1740
Protein-bound Arg	SAMS2	-0.5728	0.0835
Protein-bound Arg	SAMS3	-0.5637	0.0897
Protein-bound Arg	SAMS4	-0.6668	0.0352
Protein-bound Arg	SAMSS	-0.7030	0.0233
Protein-bound Arg	TD1	-0.7130	0.0206
Protein-bound Arg	TD1/BCAT1	-0.5850	0.0757
Protein-bound Arg	THA1	0.6611	0.0374
Protein-bound Arg	THA2	-0.1843	0.6103
Protein-bound Arg	THAs	-0.1189	0.7436
Protein-bound Arg	THAs+TD1	-0.7140	0.0204
Protein-bound Arg	Thr-sensitive AK activity	0.1768	0.6252
Protein-bound Arg	Total free AAs	-0.6683	0.0347

Protein-bound Arg	<i>TSI</i>	-0.5684	0.0865
Protein-bound Arg	<i>TSI/(THAs+TDI)</i>	0.4076	0.2423
Protein-bound Arg	<i>TSI/TDI</i>	0.3260	0.3580
Protein-bound Arg	<i>TSI/THAs</i>	-0.6256	0.0530
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.1843	0.6103
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AK-HSDHs+TSI)/(THAs+TDI)</i>	0.4153	0.2327
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AK-HSDHs+TSI+TDI)/BCAT1</i>	-0.4577	0.1835
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.3224	0.3637
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.2831	0.4279
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.0136	0.9702
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AKs+AK-HSDHs+TSI)/(THAs+TDI)</i>	0.1821	0.6146
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AKs+AK-HSDHs+TSI+TDI)/BCAT1</i>	-0.4761	0.1642
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.0580	0.8736
Protein-bound Asn+Asp+Ile+Lys+Thr	AK activity with four effectors	0.0074	0.9838
Protein-bound Asn+Asp+Ile+Lys+Thr	AK activity without effectors	0.2256	0.5308
Protein-bound Asn+Asp+Ile+Lys+Thr	AK activity/HSDH activity with four effectors	0.0265	0.9421
Protein-bound Asn+Asp+Ile+Lys+Thr	AK activity/HSDH activity without effectors	-0.0877	0.8096
<i>AK1</i>		-0.2402	0.5039
<i>AK1+AK2</i>		-0.2838	0.4268
<i>AK1+AK3</i>		-0.1590	0.6609
<i>AK2</i>		-0.2250	0.5321
<i>AK2+AK3</i>		-0.2051	0.5698
<i>AK3</i>		0.0747	0.8375
AK-HSDH1		0.5224	0.1214
<i>AK-HSDH2</i>		-0.1923	0.5946
<i>AK-HSDHs</i>		0.1663	0.6460
<i>AK-HSDHs+CGS1</i>		0.0437	0.9045
<i>AK-HSDHs+TSI</i>		0.3062	0.3896
<i>AK-HSDHs+TSI+TDI</i>		0.2760	0.4402
<i>AK-HSDHs+TSI+THAs</i>		0.3030	0.3948
<i>AKs</i>		-0.2660	0.4575
<i>AKs/AK-HSDHs</i>		-0.3224	0.3637
<i>AKs+AK-HSDHs</i>		-0.2336	0.5160
<i>AKs+AK-HSDHs+CGS1</i>		-0.2411	0.5023
<i>AKs+AK-HSDHs+DHDPSS</i>		-0.2341	0.5151
<i>AKs+AK-HSDHs+TSI</i>		-0.0280	0.9388
<i>AKs+AK-HSDHs+TSI+TDI</i>		-0.0328	0.9283
<i>AKs+AK-HSDHs+TSI+THAs</i>		-0.0300	0.9344
<i>AKs+DHDPSS</i>		-0.2683	0.4535
BCAT1		0.6170	0.0574
Biosynthetic genes analyzed		-0.0431	0.9059
Catabolic genes analyzed		0.0739	0.8391
<i>CGS1</i>		-0.0953	0.7934
<i>CGS1/SAMSS</i>		-0.2638	0.4615
CGS1/TSI		-0.5442	0.1039
<i>DHDPS1</i>		-0.1610	0.6569
<i>DHDPS2</i>		0.0191	0.9581
<i>DHDPSs</i>		-0.0859	0.8134
<i>DHDPSs/AK-HSDHs</i>		-0.2340	0.5152
<i>DHDPSs/LKR-SDH1</i>		0.1154	0.7508
Free (Lys+Met+Thr+Ile)/Asp		0.2126	0.5554
Free Ala		-0.1196	0.7422
Free Arg		-0.5595	0.0926
Free Asn		-0.4925	0.1482
Free Asn+Asp		-0.4638	0.1770
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Asn+Asp+Lys+Met+Thr+Ile	-0.2325	0.5181
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Asn+Asp+Lys+Thr+Ile	-0.2286	0.5252

Protein-bound Asn+Asp+Ile+Lys+Thr	Free Asp	-0.4572	0.1841
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Asp+Lys+Met+Thr+Ile	-0.2040	0.5718
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Cys	-0.3037	0.3937
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Gln	-0.5132	0.1293
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Glu	-0.5194	0.1239
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Gly	-0.2664	0.4569
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Gly/Thr	0.1302	0.7200
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Gly+Ile	-0.2695	0.4515
Protein-bound Asn+Asp+Ile+Lys+Thr	Free His	-0.4340	0.2101
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Ile	-0.0924	0.7996
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Ile/Thr	0.2696	0.4514
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Leu	-0.3563	0.3123
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Lys	-0.5343	0.1116
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Lys/(Met+Thr+Ile)	0.1459	0.6875
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Lys/Asp	0.0263	0.9424
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Lys/Thr	0.1919	0.5953
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Lys+Met+Thr+Ile	-0.0227	0.9503
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Met	-0.4945	0.1463
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Met/(Thr+Ile)	0.1060	0.7708
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Met/Thr	0.1933	0.5926
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Met+Thr+Ile	-0.0031	0.9932
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Phe	-0.2107	0.5591
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Pro	-0.5928	0.0709
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Ser	-0.1611	0.6567
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Thr	0.0058	0.9874
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Thr/(Gly+Ile)	0.0289	0.9369
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Thr/Asp	0.2103	0.5597
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Trp	-0.1673	0.6441
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Tyr	-0.2566	0.4741
Protein-bound Asn+Asp+Ile+Lys+Thr	Free Val	0.0725	0.8423
Protein-bound Asn+Asp+Ile+Lys+Thr	HSDH activity with four effectors	-0.1762	0.6262
Protein-bound Asn+Asp+Ile+Lys+Thr	HSDH activity without effectors	0.1022	0.7788
<i>LKR-SDHI</i>		-0.0155	0.9660
Protein-bound Asn+Asp+Ile+Lys+Thr	Lys-sensitive AK activity	0.2132	0.5542
Protein-bound Asn+Asp+Ile+Lys+Thr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.4173	0.2303
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Ala	0.9225	0.0001
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Arg	0.4629	0.1779
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Gly	0.8414	0.0023
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound His	0.4071	0.2429
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Ile	0.4856	0.1547
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Leu	0.5540	0.0966
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Lys	0.4813	0.1590
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Phe	0.3784	0.2810
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Pro	0.9192	0.0002
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Ser	0.9462	<.0001
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Thr	0.9487	<.0001
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Tyr	0.8141	0.0041
Protein-bound Asn+Asp+Ile+Lys+Thr	Protein-bound Val	0.4465	0.1959
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>SAMS1</i>	-0.2218	0.5379
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>SAMS2</i>	-0.0749	0.8371
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>SAMS3</i>	0.1595	0.6599
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>SAMS4</i>	0.1890	0.6010
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>SAMSs</i>	0.0703	0.8469
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>TD1</i>	-0.0872	0.8106
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>TD1/BCAT1</i>	-0.4737	0.1666
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>THA1</i>	0.2812	0.4312
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>THA2</i>	-0.1943	0.5907
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>THAs</i>	-0.1891	0.6009

Protein-bound Asn+Asp+Ile+Lys+Thr	<i>THAs+TD1</i>	-0.1136	0.7548
Protein-bound Asn+Asp+Ile+Lys+Thr	Thr-sensitive AK activity	0.7623	0.0104
Protein-bound Asn+Asp+Ile+Lys+Thr	Total free AAs	-0.4878	0.1526
Protein-bound Asn+Asp+Ile+Lys+Thr	Total protein-bound AAs	0.9807	<.0001
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>TS1</i>	0.3282	0.3545
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>TS1/(THAs+TD1)</i>	0.5099	0.1322
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>TS1/TD1</i>	0.3113	0.3812
Protein-bound Asn+Asp+Ile+Lys+Thr	<i>TS1/THAs</i>	0.1101	0.7620
Protein-bound Asp+Asn	(AK-HSDHs+CGS1)/SAMSS	-0.2488	0.4883
Protein-bound Asp+Asn	(AK-HSDHs+TS1)/(THAs+TD1)	0.4651	0.1756
Protein-bound Asp+Asn	(AK-HSDHs+TS1+TD1)/BCAT1	-0.4368	0.2069
Protein-bound Asp+Asn	(AKs+AK-HSDHs)/AK-HSDHs	-0.3564	0.3120
Protein-bound Asp+Asn	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2978	0.4033
Protein-bound Asp+Asn	(AKs+AK-HSDHs+DHDPSS)/LKR-SDHI	0.1862	0.6065
Protein-bound Asp+Asn	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.2416	0.5012
Protein-bound Asp+Asn	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.4567	0.1846
Protein-bound Asp+Asn	(AKs+DHDPSS)/LKR-SDHI	0.0979	0.7879
Protein-bound Asp+Asn	AK activity with four effectors	0.2469	0.4916
Protein-bound Asp+Asn	AK activity without effectors	0.4578	0.1834
Protein-bound Asp+Asn	AK activity/HSDH activity with four effectors	0.1444	0.6907
Protein-bound Asp+Asn	AK activity/HSDH activity without effectors	-0.0229	0.9500
AK1	AK1	-0.1609	0.6571
Protein-bound Asp+Asn	AK1+AK2	-0.2061	0.5677
Protein-bound Asp+Asn	AK1+AK3	-0.0692	0.8493
Protein-bound Asp+Asn	AK2	-0.1664	0.6460
Protein-bound Asp+Asn	AK2+AK3	-0.1449	0.6897
Protein-bound Asp+Asn	AK3	0.0913	0.8020
Protein-bound Asp+Asn	AK-HSDH1	0.6743	0.0325
Protein-bound Asp+Asn	AK-HSDH2	-0.0874	0.8102
Protein-bound Asp+Asn	AK-HSDHs	0.3200	0.3673
Protein-bound Asp+Asn	AK-HSDHs+CGS1	0.2071	0.5659
Protein-bound Asp+Asn	AK-HSDHs+TS1	0.4518	0.1900
Protein-bound Asp+Asn	AK-HSDHs+TS1+TD1	0.4199	0.2270
Protein-bound Asp+Asn	AK-HSDHs+TS1+THAs	0.4497	0.1923
Protein-bound Asp+Asn	AKs	-0.1864	0.6060
Protein-bound Asp+Asn	AKs/AK-HSDHs	-0.3564	0.3120
Protein-bound Asp+Asn	AKs+AK-HSDHs	-0.1099	0.7625
Protein-bound Asp+Asn	AKs+AK-HSDHs+CGS1	-0.0923	0.7998
Protein-bound Asp+Asn	AKs+AK-HSDHs+DHDPSS	-0.1084	0.7656
Protein-bound Asp+Asn	AKs+AK-HSDHs+TS1	0.1264	0.7278
Protein-bound Asp+Asn	AKs+AK-HSDHs+TS1+TD1	0.1226	0.7358
Protein-bound Asp+Asn	AKs+AK-HSDHs+TS1+THAs	0.1249	0.7310
Protein-bound Asp+Asn	AKs+DHDPSS	-0.1858	0.6074
Protein-bound Asp+Asn	BCAT1	0.6229	0.0544
Protein-bound Asp+Asn	Biosynthetic genes analyzed	0.1226	0.7358
Protein-bound Asp+Asn	Catabolic genes analyzed	0.2509	0.4845
Protein-bound Asp+Asn	CGS1	0.0460	0.8995
Protein-bound Asp+Asn	CGS1/SAMSS	-0.3865	0.2700
Protein-bound Asp+Asn	CGS1/TS1	-0.5819	0.0776
Protein-bound Asp+Asn	DHDPS1	-0.1250	0.7309
Protein-bound Asp+Asn	DHDPS2	0.1031	0.7769
Protein-bound Asp+Asn	DHDPSs	-0.0015	0.9967
Protein-bound Asp+Asn	DHDPSs/AK-HSDHs	-0.3672	0.2966
Protein-bound Asp+Asn	DHDPSs/LKR-SDHI	0.2558	0.4757
Protein-bound Asp+Asn	Free (Lys+Met+Thr+Ile)/Asp	0.3726	0.2889
Protein-bound Asp+Asn	Free Ala	-0.1292	0.7220
Protein-bound Asp+Asn	Free Arg	-0.4102	0.2391

Protein-bound Asp+Asn	Free Asn	-0.4130	0.2355
Protein-bound Asp+Asn	Free Asn+Asp	-0.4991	0.1420
Protein-bound Asp+Asn	Free Asn+Asp+Lys+Met+Thr+Ile	-0.1191	0.7431
Protein-bound Asp+Asn	Free Asn+Asp+Lys+Thr+Ile	-0.1147	0.7524
Protein-bound Asp+Asn	Free Asp	-0.5073	0.1345
Protein-bound Asp+Asn	Free Asp+Lys+Met+Thr+Ile	-0.0923	0.7998
Protein-bound Asp+Asn	Free Cys	-0.1415	0.6966
Protein-bound Asp+Asn	Free Gln	-0.4184	0.2288
Protein-bound Asp+Asn	Free Glu	-0.5520	0.0980
Protein-bound Asp+Asn	Free Gly	-0.2117	0.5571
Protein-bound Asp+Asn	Free Gly/Thr	-0.0283	0.9382
Protein-bound Asp+Asn	Free Gly+Ile	-0.2067	0.5666
Protein-bound Asp+Asn	Free His	-0.3092	0.3846
Protein-bound Asp+Asn	Free Ile	0.0441	0.9037
Protein-bound Asp+Asn	Free Ile/Thr	0.0783	0.8297
Protein-bound Asp+Asn	Free Leu	-0.3203	0.3668
Protein-bound Asp+Asn	Free Lys	-0.4925	0.1481
Protein-bound Asp+Asn	Free Lys/(Met+Thr+Ile)	-0.0321	0.9298
Protein-bound Asp+Asn	Free Lys/Asp	0.1760	0.6266
Protein-bound Asp+Asn	Free Lys/Thr	-0.0012	0.9973
Protein-bound Asp+Asn	Free Lys+Met+Thr+Ile	0.1166	0.7483
Protein-bound Asp+Asn	Free Met	-0.5790	0.0794
Protein-bound Asp+Asn	Free Met/(Thr+Ile)	-0.0987	0.7862
Protein-bound Asp+Asn	Free Met/Thr	-0.0384	0.9161
Protein-bound Asp+Asn	Free Met+Thr+Ile	0.1345	0.7110
Protein-bound Asp+Asn	Free Phe	-0.1694	0.6399
Protein-bound Asp+Asn	Free Pro	-0.5653	0.0886
Protein-bound Asp+Asn	Free Ser	-0.1460	0.6873
Protein-bound Asp+Asn	Free Thr	0.1424	0.6948
Protein-bound Asp+Asn	Free Thr/(Gly+Ile)	0.1741	0.6305
Protein-bound Asp+Asn	Free Thr/Asp	0.3665	0.2976
Protein-bound Asp+Asn	Free Trp	-0.0972	0.7893
Protein-bound Asp+Asn	Free Tyr	-0.2239	0.5341
Protein-bound Asp+Asn	Free Val	0.1173	0.7469
Protein-bound Asp+Asn	HSDH activity with four effectors	-0.0087	0.9811
Protein-bound Asp+Asn	HSDH activity without effectors	0.2567	0.4741
Protein-bound Asp+Asn	<i>LKR-SDH1</i>	-0.1349	0.7102
Protein-bound Asp+Asn	Lys-sensitive AK activity	0.3361	0.3423
Protein-bound Asp+Asn	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.2811	0.4314
Protein-bound Ala	0.9562	<.0001	
Protein-bound Asp+Asn	Protein-bound Arg	0.2167	0.5475
Protein-bound Asp+Asn	Protein-bound Asn+Asp+Ile+Lys+Thr	0.9365	<.0001
Protein-bound Asp+Asn	Protein-bound Gly	0.9194	0.0002
Protein-bound Asp+Asn	Protein-bound His	0.2903	0.4158
Protein-bound Asp+Asn	Protein-bound Ile	0.2888	0.4183
Protein-bound Asp+Asn	Protein-bound Leu	0.5391	0.1078
Protein-bound Asp+Asn	Protein-bound Lys	0.1846	0.6096
Protein-bound Asp+Asn	Protein-bound Phe	0.1739	0.6308
Protein-bound Asp+Asn	Protein-bound Pro	0.8930	0.0005
Protein-bound Asp+Asn	Protein-bound Ser	0.9951	<.0001
Protein-bound Asp+Asn	Protein-bound Thr	0.8944	0.0005
Protein-bound Asp+Asn	Protein-bound Tyr	0.8135	0.0042
Protein-bound Asp+Asn	Protein-bound Val	0.4038	0.2472
Protein-bound Asp+Asn	<i>SAMS1</i>	-0.2542	0.4784
Protein-bound Asp+Asn	<i>SAMS2</i>	-0.0072	0.9842
Protein-bound Asp+Asn	<i>SAMS3</i>	0.3803	0.2784
Protein-bound Asp+Asn	<i>SAMS4</i>	0.3399	0.3366
Protein-bound Asp+Asn	<i>SAMSS</i>	0.2467	0.4920

Protein-bound Asp+Asn	<i>TDI</i>	-0.0021	0.9953
Protein-bound Asp+Asn	<i>TDI/BCAT1</i>	-0.4464	0.1959
Protein-bound Asp+Asn	<i>THA1</i>	0.0512	0.8882
Protein-bound Asp+Asn	<i>THA2</i>	-0.0757	0.8353
Protein-bound Asp+Asn	<i>THAs</i>	-0.0986	0.7865
Protein-bound Asp+Asn	<i>THAs+TDI</i>	-0.0121	0.9735
Protein-bound Asp+Asn	Thr-sensitive AK activity	0.6451	0.0440
Protein-bound Asp+Asn	Total free AAs	-0.4291	0.2159
Protein-bound Asp+Asn	Total protein-bound AAs	0.9453	<.0001
Protein-bound Asp+Asn	<i>TSI</i>	0.4500	0.1919
Protein-bound Asp+Asn	<i>TSI/(THAs+TDI)</i>	0.5003	0.1408
Protein-bound Asp+Asn	<i>TSI/TDI</i>	0.3423	0.3329
Protein-bound Asp+Asn	<i>TSI/THAs</i>	0.2283	0.5257
Protein-bound Glu+Gln	<i>(AK-HSDHs+CGS1)/SAMs</i>	-0.2372	0.5093
Protein-bound Glu+Gln	<i>(AK-HSDHs+TSI)/(THAs+TDI)</i>	0.4010	0.2508
Protein-bound Glu+Gln	<i>(AK-HSDHs+TSI+TDI)/BCAT1</i>	-0.5537	0.0968
Protein-bound Glu+Gln	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.3189	0.3691
Protein-bound Glu+Gln	<i>(AKs+AK-HSDHs+CGS1)/SAMs</i>	-0.3454	0.3283
Protein-bound Glu+Gln	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.1871	0.6047
Protein-bound Glu+Gln	<i>(AKs+AK-HSDHs+TSI)/(THAs+TDI)</i>	0.1287	0.7231
Protein-bound Glu+Gln	<i>(AKs+AK-HSDHs+TSI+TDI)/BCAT1</i>	-0.5771	0.0807
Protein-bound Glu+Gln	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.2720	0.4472
Protein-bound Glu+Gln	AK activity with four effectors	-0.1811	0.6166
Protein-bound Glu+Gln	AK activity without effectors	0.0850	0.8154
Protein-bound Glu+Gln	AK activity/HSDH activity with four effectors	-0.1351	0.7097
Protein-bound Glu+Gln	AK activity/HSDH activity without effectors	-0.2616	0.4653
Protein-bound Glu+Gln	<i>AK1</i>	-0.1334	0.7134
Protein-bound Glu+Gln	<i>AK1+AK2</i>	-0.4270	0.2184
Protein-bound Glu+Gln	<i>AK1+AK3</i>	-0.1085	0.7655
Protein-bound Glu+Gln	<i>AK2</i>	-0.3853	0.2715
Protein-bound Glu+Gln	<i>AK2+AK3</i>	-0.3713	0.2908
Protein-bound Glu+Gln	<i>AK3</i>	0.0152	0.9668
Protein-bound Glu+Gln	<i>AK-HSDH1</i>	0.5112	0.1310
Protein-bound Glu+Gln	<i>AK-HSDH2</i>	-0.3604	0.3062
Protein-bound Glu+Gln	<i>AK-HSDHs</i>	0.0502	0.8904
Protein-bound Glu+Gln	<i>AK-HSDHs+CGS1</i>	-0.1219	0.7372
Protein-bound Glu+Gln	<i>AK-HSDHs+TSI</i>	0.1259	0.7289
Protein-bound Glu+Gln	<i>AK-HSDHs+TSI+TDI</i>	0.0969	0.7901
Protein-bound Glu+Gln	<i>AK-HSDHs+TSI+THAs</i>	0.1218	0.7375
Protein-bound Glu+Gln	<i>AKs</i>	-0.4175	0.2300
Protein-bound Glu+Gln	<i>AKs/AK-HSDHs</i>	-0.3189	0.3691
Protein-bound Glu+Gln	<i>AKs+AK-HSDHs</i>	-0.4211	0.2256
Protein-bound Glu+Gln	<i>AKs+AK-HSDHs+CGS1</i>	-0.4615	0.1794
Protein-bound Glu+Gln	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.4245	0.2214
Protein-bound Glu+Gln	<i>AKs+AK-HSDHs+TSI</i>	-0.2622	0.4642
Protein-bound Glu+Gln	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.2676	0.4547
Protein-bound Glu+Gln	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.2639	0.4613
Protein-bound Glu+Gln	<i>AKs+DHDPSS</i>	-0.4240	0.2220
Protein-bound Glu+Gln	<i>BCAT1</i>	0.6497	0.0420
Protein-bound Glu+Gln	Biosynthetic genes analyzed	-0.2904	0.4156
Protein-bound Glu+Gln	Catabolic genes analyzed	-0.0174	0.9619
Protein-bound Glu+Gln	<i>CGS1</i>	-0.2841	0.4262
Protein-bound Glu+Gln	<i>CGS1/SAMs</i>	-0.2466	0.4922
Protein-bound Glu+Gln	<i>CGS1/TSI</i>	-0.5136	0.1289
Protein-bound Glu+Gln	<i>DHDPS1</i>	-0.1146	0.7525
Protein-bound Glu+Gln	<i>DHDPS2</i>	-0.1910	0.5971
Protein-bound Glu+Gln	<i>DHDPSs</i>	-0.2001	0.5794

Protein-bound Glu+Gln	<i>DHDPSs/AK-HSDHs</i>	-0.1381	0.7037
Protein-bound Glu+Gln	<i>DHDPSs/LKR-SDH1</i>	-0.0237	0.9482
Protein-bound Glu+Gln	Free (Lys+Met+Thr+Ile)/Asp	0.2251	0.5319
Protein-bound Glu+Gln	Free Ala	-0.1981	0.5832
Protein-bound Glu+Gln	Free Arg	-0.6555	0.0396
Protein-bound Glu+Gln	Free Asn	-0.5797	0.0790
Protein-bound Glu+Gln	Free Asn+Asp	-0.4816	0.1587
Protein-bound Glu+Gln	Free Asn+Asp+Lys+Met+Thr+Ile	-0.2347	0.5140
Protein-bound Glu+Gln	Free Asn+Asp+Lys+Thr+Ile	-0.2296	0.5234
Protein-bound Glu+Gln	Free Asp	-0.4610	0.1799
Protein-bound Glu+Gln	Free Asp+Lys+Met+Thr+Ile	-0.1989	0.5816
Protein-bound Glu+Gln	Free Cys	-0.2828	0.4286
Protein-bound Glu+Gln	Free Gln	-0.5644	0.0892
Protein-bound Glu+Gln	Free Glu	-0.5912	0.0718
Protein-bound Glu+Gln	Free Gly	-0.2428	0.4990
Protein-bound Glu+Gln	Free Gly/Thr	0.2050	0.5699
Protein-bound Glu+Gln	Free Gly+Ile	-0.2487	0.4885
Protein-bound Glu+Gln	Free His	-0.5754	0.0818
Protein-bound Glu+Gln	Free Ile	-0.1314	0.7175
Protein-bound Glu+Gln	Free Ile/Thr	0.2893	0.4175
Protein-bound Glu+Gln	Free Leu	-0.4655	0.1752
Protein-bound Glu+Gln	Free Lys	-0.6479	0.0428
Protein-bound Glu+Gln	Free Lys/(Met+Thr+Ile)	0.1472	0.6849
Protein-bound Glu+Gln	Free Lys/Asp	-0.0464	0.8987
Protein-bound Glu+Gln	Free Lys/Thr	0.1912	0.5968
Protein-bound Glu+Gln	Free Lys+Met+Thr+Ile	-0.0155	0.9661
Protein-bound Glu+Gln	Free Met	-0.5489	0.1003
Protein-bound Glu+Gln	Free Met/(Thr+Ile)	0.1446	0.6902
Protein-bound Glu+Gln	Free Met/Thr	0.2206	0.5402
Protein-bound Glu+Gln	Free Met+Thr+Ile	0.0083	0.9819
Protein-bound Glu+Gln	Free Phe	-0.3252	0.3592
Protein-bound Glu+Gln	Free Pro	-0.6484	0.0426
Protein-bound Glu+Gln	Free Ser	-0.0856	0.8141
Protein-bound Glu+Gln	Free Thr	0.0183	0.9600
Protein-bound Glu+Gln	Free Thr/(Gly+Ile)	0.0555	0.8791
Protein-bound Glu+Gln	Free Thr/Asp	0.2269	0.5284
Protein-bound Glu+Gln	Free Trp	-0.2428	0.4992
Protein-bound Glu+Gln	Free Tyr	-0.3426	0.3326
Protein-bound Glu+Gln	Free Val	-0.1089	0.7645
Protein-bound Glu+Gln	HSDH activity with four effectors	-0.2312	0.5205
Protein-bound Glu+Gln	HSDH activity without effectors	0.1316	0.7171
	<i>LKR-SDH1</i>	0.0939	0.7965
Protein-bound Glu+Gln	Lys-sensitive AK activity	0.1060	0.7708
Protein-bound Glu+Gln	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.3837	0.2737
Protein-bound Ala	0.9207	0.0002	
Protein-bound Arg	0.5445	0.1037	
Protein-bound Asn+Asp+Ile+Lys+Thr	0.9514	<.0001	
Protein-bound Asp+Asn	0.8812	0.0008	
Protein-bound Gly	0.8264	0.0032	
Protein-bound His		0.2950	0.4080
Protein-bound Ile	0.5017	0.1395	
Protein-bound Leu		0.3613	0.3050
Protein-bound Lys	0.4029	0.2483	
Protein-bound Phe		0.3540	0.3156
Protein-bound Pro	0.9550	<.0001	
Protein-bound Ser	0.8758	0.0009	
Protein-bound Thr	0.9316	<.0001	
Protein-bound Tyr	0.6497	0.0420	

Protein-bound Glu+Gln	Protein-bound Val	0.3071	0.3880
Protein-bound Glu+Gln	<i>SAMS1</i>	-0.2575	0.4726
Protein-bound Glu+Gln	<i>SAMS2</i>	-0.1428	0.6939
Protein-bound Glu+Gln	<i>SAMS3</i>	0.0887	0.8075
Protein-bound Glu+Gln	<i>SAMS4</i>	0.0499	0.8911
Protein-bound Glu+Gln	<i>SAMSS</i>	-0.0202	0.9559
Protein-bound Glu+Gln	<i>TDI</i>	-0.2091	0.5620
Protein-bound Glu+Gln	<i>TDI/BCAT1</i>	-0.5687	0.0863
Protein-bound Glu+Gln	<i>THA1</i>	0.4209	0.2258
Protein-bound Glu+Gln	<i>THA2</i>	-0.2756	0.4408
Protein-bound Glu+Gln	<i>THAs</i>	-0.2755	0.4410
Protein-bound Glu+Gln	<i>THAs+TDI</i>	-0.2452	0.4947
Protein-bound Glu+Gln	Thr-sensitive AK activity	0.6391	0.0466
Protein-bound Glu+Gln	Total free AAs	-0.5362	0.1101
Protein-bound Glu+Gln	Total protein-bound AAs	0.9787	<.0001
Protein-bound Glu+Gln	<i>TSI</i>	0.1431	0.6933
Protein-bound Glu+Gln	<i>TSI/(THAs+TDI)</i>	0.5142	0.1284
Protein-bound Glu+Gln	<i>TSI/TDI</i>	0.3351	0.3439
Protein-bound Glu+Gln	<i>TSI/THAs</i>	0.1108	0.7606
Protein-bound Gly	(AK-HSDHs+CGS1)/SAMSS	-0.3192	0.3687
Protein-bound Gly	(AK-HSDHs+TSI)/(THAs+TDI)	0.3434	0.3312
Protein-bound Gly	(AK-HSDHs+TSI+TDI)/BCAT1	-0.3255	0.3587
Protein-bound Gly	(AKs+AK-HSDHs)/AK-HSDHs	-0.2565	0.4744
Protein-bound Gly	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.1780	0.6228
Protein-bound Gly	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDHI	0.0922	0.8001
Protein-bound Gly	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	0.1887	0.6015
Protein-bound Gly	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	-0.3420	0.3333
Protein-bound Gly	(AKs+DHDPSSs)/LKR-SDH1	0.0279	0.9391
Protein-bound Gly	AK activity with four effectors	0.1867	0.6055
Protein-bound Gly	AK activity without effectors	0.3939	0.2600
Protein-bound Gly	AK activity/HSDH activity with four effectors	0.1263	0.7282
Protein-bound Gly	AK activity/HSDH activity without effectors	-0.0624	0.8639
Protein-bound Gly	<i>AK1</i>	-0.0721	0.8431
Protein-bound Gly	<i>AK1+AK2</i>	-0.0616	0.8658
Protein-bound Gly	<i>AK1+AK3</i>	-0.0828	0.8201
Protein-bound Gly	<i>AK2</i>	-0.0455	0.9007
Protein-bound Gly	<i>AK2+AK3</i>	-0.0483	0.8946
Protein-bound Gly	<i>AK3</i>	-0.0325	0.9289
Protein-bound Gly	<i>AK-HSDH1</i>	0.6040	0.0644
Protein-bound Gly	<i>AK-HSDH2</i>	-0.1486	0.6820
Protein-bound Gly	<i>AK-HSDHs</i>	0.2415	0.5014
Protein-bound Gly	<i>AK-HSDHs+CGS1</i>	0.0909	0.8027
Protein-bound Gly	<i>AK-HSDHs+TSI</i>	0.4076	0.2423
Protein-bound Gly	<i>AK-HSDHs+TSI+TDI</i>	0.3841	0.2731
Protein-bound Gly	<i>AK-HSDHs+TSI+THAs</i>	0.4054	0.2452
Protein-bound Gly	<i>AKs</i>	-0.0668	0.8544
Protein-bound Gly	<i>AKs/AK-HSDHs</i>	-0.2565	0.4744
Protein-bound Gly	<i>AKs+AK-HSDHs</i>	-0.0059	0.9870
Protein-bound Gly	<i>AKs+AK-HSDHs+CGS1</i>	-0.0245	0.9465
Protein-bound Gly	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.0003	0.9994
Protein-bound Gly	<i>AKs+AK-HSDHs+TSI</i>	0.1971	0.5853
Protein-bound Gly	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.1948	0.5897
Protein-bound Gly	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.1949	0.5895
Protein-bound Gly	<i>AKs+DHDPSS</i>	-0.0615	0.8660
Protein-bound Gly	<i>BCAT1</i>	0.5063	0.1353
Protein-bound Gly	Biosynthetic genes analyzed	0.1674	0.6440
Protein-bound Gly	Catabolic genes analyzed	0.2093	0.5617

Protein-bound Gly	<i>CGS1</i>	-0.0855	0.8143
Protein-bound Gly	<i>CGS1/SAMSs</i>	-0.4095	0.2399
Protein-bound Gly	<i>CGS1/TSI</i>	-0.6599	0.0379
Protein-bound Gly	<i>DHDPS1</i>	0.1144	0.7530
Protein-bound Gly	<i>DHDPS2</i>	0.0673	0.8534
Protein-bound Gly	<i>DHDPSs</i>	0.1226	0.7357
Protein-bound Gly	<i>DHDPSs/AK-HSDHs</i>	-0.2819	0.4300
Protein-bound Gly	<i>DHDPSs/LKR-SDH1</i>	0.1697	0.6392
Protein-bound Gly	Free (Lys+Met+Thr+Ile)/Asp	0.5014	0.1398
Protein-bound Gly	Free Ala	-0.0877	0.8095
Protein-bound Gly	Free Arg	-0.4151	0.2330
Protein-bound Gly	Free Asn	-0.3413	0.3345
Protein-bound Gly	Free Asn+Asp	-0.4121	0.2366
Protein-bound Gly	Free Asn+Asp+Lys+Met+Thr+Ile	0.0943	0.7955
Protein-bound Gly	Free Asn+Asp+Lys+Thr+Ile	0.0991	0.7853
Protein-bound Gly	Free Asp	-0.4189	0.2283
Protein-bound Gly	Free Asp+Lys+Met+Thr+Ile	0.1231	0.7347
Protein-bound Gly	Free Cys	0.1261	0.7285
Protein-bound Gly	Free Gln	-0.3469	0.3261
Protein-bound Gly	Free Glu	-0.4697	0.1708
Protein-bound Gly	Free Gly	-0.0720	0.8432
Protein-bound Gly	Free Gly/Thr	-0.1159	0.7499
Protein-bound Gly	Free Gly+Ile	-0.0623	0.8642
Protein-bound Gly	Free His	-0.3132	0.3783
Protein-bound Gly	Free Ile	0.1415	0.6966
Protein-bound Gly	Free Ile/Thr	-0.0943	0.7956
Protein-bound Gly	Free Leu	-0.2664	0.4569
Protein-bound Gly	Free Lys	-0.4220	0.2245
Protein-bound Gly	Free Lys/(Met+Thr+Ile)	-0.1742	0.6303
Protein-bound Gly	Free Lys/Asp	0.1809	0.6170
Protein-bound Gly	Free Lys/Thr	-0.1537	0.6716
Protein-bound Gly	Free Lys+Met+Thr+Ile	0.3070	0.3883
Protein-bound Gly	Free Met	-0.5764	0.0812
Protein-bound Gly	Free Met/(Thr+Ile)	-0.1977	0.5840
Protein-bound Gly	Free Met/Thr	-0.1633	0.6521
Protein-bound Gly	Free Met+Thr+Ile	0.3220	0.3642
Protein-bound Gly	Free Phe	-0.1608	0.6571
Protein-bound Gly	Free Pro	-0.4684	0.1721
Protein-bound Gly	Free Ser	-0.0973	0.7891
Protein-bound Gly	Free Thr	0.3267	0.3569
Protein-bound Gly	Free Thr/(Gly+Ile)	0.3017	0.3968
Protein-bound Gly	Free Thr/Asp	0.4983	0.1427
Protein-bound Gly	Free Trp	-0.0720	0.8432
Protein-bound Gly	Free Tyr	-0.2585	0.4708
Protein-bound Gly	Free Val	0.0028	0.9938
Protein-bound Gly	HSDH activity with four effectors	-0.0185	0.9595
Protein-bound Gly	HSDH activity without effectors	0.2637	0.4617
Protein-bound Gly	<i>LKR-SDH1</i>	0.0361	0.9211
Protein-bound Gly	Lys-sensitive AK activity	0.3418	0.3338
Protein-bound Gly	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.3211	0.3656
Protein-bound Gly	Protein-bound Ala	0.9551	<.0001
Protein-bound Gly	Protein-bound Arg	0.1615	0.6558
Protein-bound Gly	<i>SAMS1</i>	-0.2467	0.4920
Protein-bound Gly	<i>SAMS2</i>	0.0973	0.7892
Protein-bound Gly	<i>SAMS3</i>	0.3361	0.3424
Protein-bound Gly	<i>SAMS4</i>	0.2578	0.4720
Protein-bound Gly	<i>SAMsS</i>	0.2049	0.5701
Protein-bound Gly	<i>TDI</i>	0.0519	0.8868

Protein-bound Gly	<i>TDI/BCATI</i>	-0.3303	0.3513
Protein-bound Gly	<i>THA1</i>	0.2086	0.5630
Protein-bound Gly	<i>THA2</i>	-0.0922	0.7999
Protein-bound Gly	<i>THAs</i>	-0.1008	0.7817
Protein-bound Gly	<i>THAs+TDI</i>	0.0401	0.9124
Protein-bound Gly	Thr-sensitive AK activity	0.4585	0.1826
Protein-bound Gly	Total free AAs	-0.3043	0.3926
Protein-bound Gly	TSI	0.4272	0.2182
Protein-bound Gly	<i>TSI/(THAs+TDI)</i>	0.3752	0.2854
Protein-bound Gly	<i>TSI/TDI</i>	0.2072	0.5657
Protein-bound Gly	<i>TSI/THAs</i>	0.2945	0.4088
Protein-bound His	<i>(AK-HSDHs+CGS1)/SAMSS</i>	0.0178	0.9610
Protein-bound His	<i>(AK-HSDHs+TSI)/(THAs+TDI)</i>	0.0956	0.7929
Protein-bound His	(AK-HSDHs+TSI+TDI)/BCATI	-0.6193	0.0562
Protein-bound His	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.3731	0.2882
Protein-bound His	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	0.2662	0.4572
Protein-bound His	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.1458	0.6877
Protein-bound His	<i>(AKs+AK-HSDHs+TSI)/(THAs+TDI)</i>	0.3283	0.3544
Protein-bound His	(AKs+AK-HSDHs+TSI+TDI)/BCATI	-0.5980	0.0678
Protein-bound His	<i>(AKs+DHDPSS)/LKR-SDH1</i>	0.2614	0.4656
Protein-bound His	AK activity with four effectors	0.1676	0.6435
Protein-bound His	AK activity without effectors	0.1769	0.6249
Protein-bound His	AK activity/HSDH activity with four effectors	0.6200	0.0559
Protein-bound His	AK activity/HSDH activity without effectors	0.6975	0.0249
Protein-bound His	<i>AK1</i>	-0.3238	0.3614
Protein-bound His	<i>AK1+AK2</i>	0.2297	0.5231
Protein-bound His	<i>AK1+AK3</i>	-0.0487	0.8937
Protein-bound His	<i>AK2</i>	0.2888	0.4183
Protein-bound His	<i>AK2+AK3</i>	0.3351	0.3440
Protein-bound His	<i>AK3</i>	0.3141	0.3768
Protein-bound His	<i>AK-HSDH1</i>	-0.3185	0.3698
Protein-bound His	<i>AK-HSDH2</i>	-0.2034	0.5730
Protein-bound His	<i>AK-HSDHs</i>	-0.3160	0.3738
Protein-bound His	<i>AK-HSDHs+CGS1</i>	-0.2931	0.4112
Protein-bound His	<i>AK-HSDHs+TSI</i>	-0.3319	0.3488
Protein-bound His	<i>AK-HSDHs+TSI+TDI</i>	-0.3422	0.3331
Protein-bound His	<i>AK-HSDHs+TSI+THAs</i>	-0.3322	0.3483
Protein-bound His	<i>AKs</i>	0.2826	0.4289
Protein-bound His	<i>AKs/AK-HSDHs</i>	0.3731	0.2882
Protein-bound His	<i>AKs+AK-HSDHs</i>	0.2092	0.5619
Protein-bound His	<i>AKs+AK-HSDHs+CGS1</i>	0.1504	0.6784
Protein-bound His	<i>AKs+AK-HSDHs+DHDPSS</i>	0.1890	0.6010
Protein-bound His	<i>AKs+AK-HSDHs+TSI</i>	0.0247	0.9460
Protein-bound His	<i>AKs+AK-HSDHs+TSI+TDI</i>	0.0031	0.9933
Protein-bound His	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.0261	0.9429
Protein-bound His	<i>AKs+DHDPSS</i>	0.2623	0.4641
Protein-bound His	BCATI	0.4756	0.1648
Protein-bound His	Biosynthetic genes analyzed	-0.0264	0.9423
Protein-bound His	Catabolic genes analyzed	-0.2817	0.4304
Protein-bound His	<i>CGS1</i>	-0.2075	0.5651
Protein-bound His	<i>CGS1/SAMSS</i>	0.1536	0.6718
Protein-bound His	<i>CGS1/TSI</i>	0.2912	0.4143
Protein-bound His	DHDPS1	-0.6120	0.0600
Protein-bound His	<i>DHDPS2</i>	-0.1811	0.6166
Protein-bound His	DHDPSs	-0.4872	0.1532
Protein-bound His	<i>DHDPSs/AK-HSDHs</i>	0.1947	0.5899
Protein-bound His	<i>DHDPSs/LKR-SDH1</i>	-0.2652	0.4589

Protein-bound His	Free (Lys+Met+Thr+Ile)/Asp	0.1151	0.7516
Protein-bound His	Free Ala	-0.3320	0.3487
Protein-bound His	Free Arg	-0.6498	0.0420
Protein-bound His	Free Asn	-0.4860	0.1544
Protein-bound His	Free Asn+Asp	-0.3605	0.3062
Protein-bound His	Free Asn+Asp+Lys+Met+Thr+Ile	-0.2050	0.5699
Protein-bound His	Free Asn+Asp+Lys+Thr+Ile	-0.2025	0.5747
Protein-bound His	Free Asp	-0.3363	0.3420
Protein-bound His	Free Asp+Lys+Met+Thr+Ile	-0.1806	0.6177
Protein-bound His	Free Cys	-0.2998	0.4000
Protein-bound His	Free Gln	-0.4888	0.1517
Protein-bound His	Free Glu	-0.0785	0.8294
Protein-bound His	Free Gly	-0.4339	0.2102
Protein-bound His	Free Gly/Thr	-0.2116	0.5573
Protein-bound His	Free Gly+Ile	-0.4624	0.1784
Protein-bound His	Free His	-0.4534	0.1882
Protein-bound His	Free Ile	-0.5204	0.1230
Protein-bound His	Free Ile/Thr	-0.1041	0.7747
Protein-bound His	Free Leu	-0.5795	0.0791
Protein-bound His	Free Lys	-0.5493	0.1001
Protein-bound His	Free Lys/(Met+Thr+Ile)	-0.1849	0.6091
Protein-bound His	Free Lys/Asp	-0.2456	0.4940
Protein-bound His	Free Lys/Thr	-0.1605	0.6579
Protein-bound His	Free Lys+Met+Thr+Ile	-0.0448	0.9023
Protein-bound His	Free Met	-0.3610	0.3055
Protein-bound His	Free Met/(Thr+Ile)	-0.2534	0.4799
Protein-bound His	Free Met/Thr	-0.1232	0.7346
Protein-bound His	Free Met+Thr+Ile	-0.0245	0.9463
Protein-bound His	Free Phe	-0.5017	0.1396
Protein-bound His	Free Pro	-0.3877	0.2683
Protein-bound His	Free Ser	-0.4325	0.2119
Protein-bound His	Free Thr	-0.0109	0.9762
Protein-bound His	Free Thr/(Gly+Ile)	0.0627	0.8634
Protein-bound His	Free Thr/Asp	0.1220	0.7371
Protein-bound His	Free Trp	-0.5908	0.0721
Protein-bound His	Free Tyr	-0.4951	0.1457
Protein-bound His	Free Val	-0.2115	0.5575
Protein-bound His	HSDH activity with four effectors	-0.6942	0.0259
Protein-bound His	HSDH activity without effectors	-0.6987	0.0246
Protein-bound His	<i>LKR-SDH1</i>	0.0183	0.9601
Protein-bound His	Lys-sensitive AK activity	0.3729	0.2885
Protein-bound His	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.0050	0.9890
Protein-bound His	Protein-bound Ala	0.2058	0.5684
Protein-bound His	Protein-bound Arg	0.6340	0.0490
Protein-bound His	Protein-bound Gly	0.1082	0.7661
Protein-bound His	<i>SAMS1</i>	-0.2504	0.4853
Protein-bound His	SAMS2	-0.4113	0.2376
Protein-bound His	<i>SAMS3</i>	-0.2105	0.5594
Protein-bound His	<i>SAMS4</i>	-0.1902	0.5986
Protein-bound His	<i>SAMSS</i>	-0.2828	0.4286
Protein-bound His	<i>TD1</i>	-0.3384	0.3389
Protein-bound His	<i>TD1/BCAT1</i>	-0.6394	0.0465
Protein-bound His	<i>THA1</i>	0.0371	0.9190
Protein-bound His	<i>THA2</i>	-0.0485	0.8942
Protein-bound His	<i>THAs</i>	0.0095	0.9792
Protein-bound His	<i>THAs+TD1</i>	-0.3388	0.3383
Protein-bound His	Thr-sensitive AK activity	0.2737	0.4442
Protein-bound His	Total free AAs	-0.3695	0.2933

Protein-bound His	<i>TSI</i>	-0.2958	0.4067
Protein-bound His	<i>TSI/(THAs+TD1)</i>	0.1787	0.6214
Protein-bound His	<i>TSI/TD1</i>	0.1936	0.5921
Protein-bound His	<i>TSI/THAs</i>	-0.4934	0.1473
Protein-bound Ile	<i>(AK-HSDHs+CGS1)/SAMSS</i>	0.1945	0.5903
Protein-bound Ile	<i>(AK-HSDHs+TSI)/(THAs+TD1)</i>	0.3037	0.3936
Protein-bound Ile	<i>(AK-HSDHs+TSI+TD1)/BCAT1</i>	-0.2918	0.4133
Protein-bound Ile	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.3042	0.3929
Protein-bound Ile	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	0.2930	0.4113
Protein-bound Ile	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.1838	0.6112
Protein-bound Ile	<i>(AKs+AK-HSDHs+TSI)/(THAs+TD1)</i>	0.4278	0.2175
Protein-bound Ile	<i>(AKs+AK-HSDHs+TSI+TD1)/BCAT1</i>	-0.2811	0.4314
Protein-bound Ile	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.0584	0.8728
Protein-bound Ile	AK activity with four effectors	-0.0559	0.8780
Protein-bound Ile	AK activity without effectors	0.0616	0.8657
Protein-bound Ile	AK activity/HSDH activity with four effectors	0.2823	0.4293
Protein-bound Ile	AK activity/HSDH activity without effectors	0.2116	0.5573
Protein-bound Ile	<i>AK1</i>	-0.0902	0.8043
Protein-bound Ile	<i>AK1+AK2</i>	0.1752	0.6283
Protein-bound Ile	<i>AK1+AK3</i>	-0.3812	0.2771
Protein-bound Ile	<i>AK2</i>	0.1867	0.6054
Protein-bound Ile	<i>AK2+AK3</i>	0.1165	0.7485
Protein-bound Ile	<i>AK3</i>	-0.3758	0.2845
Protein-bound Ile	<i>AK-HSDH1</i>	-0.2269	0.5285
Protein-bound Ile	<i>AK-HSDH2</i>	-0.6624	0.0369
Protein-bound Ile	<i>AK-HSDHs</i>	-0.5592	0.0928
Protein-bound Ile	<i>AK-HSDHs+CGS1</i>	-0.6000	0.0667
Protein-bound Ile	<i>AK-HSDHs+TSI</i>	-0.5023	0.1390
Protein-bound Ile	<i>AK-HSDHs+TSI+TD1</i>	-0.5366	0.1098
Protein-bound Ile	<i>AK-HSDHs+TSI+THAs</i>	-0.5008	0.1403
Protein-bound Ile	<i>AKs</i>	0.1034	0.7762
Protein-bound Ile	<i>AKs/AK-HSDHs</i>	0.3042	0.3929
Protein-bound Ile	<i>AKs+AK-HSDHs</i>	-0.0414	0.9096
Protein-bound Ile	<i>AKs+AK-HSDHs+CGS1</i>	-0.1575	0.6640
Protein-bound Ile	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.0645	0.8595
Protein-bound Ile	<i>AKs+AK-HSDHs+TSI</i>	-0.2249	0.5322
Protein-bound Ile	<i>AKs+AK-HSDHs+TSI+TD1</i>	-0.2634	0.4621
Protein-bound Ile	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.2226	0.5364
Protein-bound Ile	<i>AKs+DHDPSS</i>	0.0783	0.8297
Protein-bound Ile	<i>BCAT1</i>	0.6979	0.0248
Protein-bound Ile	Biosynthetic genes analyzed	-0.3096	0.3839
Protein-bound Ile	Catabolic genes analyzed	-0.6489	0.0424
Protein-bound Ile	<i>CGS1</i>	-0.5245	0.1196
Protein-bound Ile	<i>CGS1/SAMSS</i>	0.3597	0.3073
Protein-bound Ile	<i>CGS1/TSI</i>	0.0363	0.9206
Protein-bound Ile	<i>DHDPS1</i>	-0.3920	0.2626
Protein-bound Ile	<i>DHDPS2</i>	-0.5553	0.0956
Protein-bound Ile	<i>DHDPSs</i>	-0.6264	0.0526
Protein-bound Ile	<i>DHDPSs/AK-HSDHs</i>	0.3433	0.3314
Protein-bound Ile	<i>DHDPSs/LKR-SDH1</i>	-0.5395	0.1075
Protein-bound Ile	Free (Lys+Met+Thr+Ile)/Asp	0.3108	0.3821
Protein-bound Ile	Free Ala	-0.6710	0.0337
Protein-bound Ile	Free Arg	-0.8495	0.0019
Protein-bound Ile	Free Asn	-0.8236	0.0034
Protein-bound Ile	Free Asn+Asp	-0.6483	0.0426
Protein-bound Ile	Free Asn+Asp+Lys+Met+Thr+Ile	-0.2360	0.5115
Protein-bound Ile	Free Asn+Asp+Lys+Thr+Ile	-0.2308	0.5211

Protein-bound Ile	Free Asp	-0.6148	0.0586
Protein-bound Ile	Free Asp+Lys+Met+Thr+Ile	-0.1868	0.6053
Protein-bound Ile	Free Cys	-0.1677	0.6433
Protein-bound Ile	Free Gln	-0.8540	0.0017
Protein-bound Ile	Free Glu	-0.4637	0.1770
Protein-bound Ile	Free Gly	-0.6445	0.0442
Protein-bound Ile	Free Gly/Thr	-0.2186	0.5440
Protein-bound Ile	Free Gly+Ile	-0.6668	0.0352
Protein-bound Ile	Free His	-0.8519	0.0018
Protein-bound Ile	Free Ile	-0.4568	0.1844
Protein-bound Ile	Free Ile/Thr	-0.0734	0.8404
Protein-bound Ile	Free Leu	-0.7143	0.0203
Protein-bound Ile	Free Lys	-0.6869	0.0282
Protein-bound Ile	Free Lys/(Met+Thr+Ile)	-0.1844	0.6101
Protein-bound Ile	Free Lys/Asp	0.0804	0.8253
Protein-bound Ile	Free Lys/Thr	-0.1471	0.6850
Protein-bound Ile	Free Lys+Met+Thr+Ile	0.0681	0.8518
Protein-bound Ile	Free Met	-0.3988	0.2536
Protein-bound Ile	Free Met/(Thr+Ile)	-0.1189	0.7435
Protein-bound Ile	Free Met/Thr	-0.0519	0.8869
Protein-bound Ile	Free Met+Thr+Ile	0.0932	0.7979
Protein-bound Ile	Free Phe	-0.7490	0.0127
Protein-bound Ile	Free Pro	-0.7175	0.0195
Protein-bound Ile	Free Ser	-0.6438	0.0445
Protein-bound Ile	Free Thr	0.1055	0.7719
Protein-bound Ile	Free Thr/(Gly+Ile)	0.1864	0.6061
Protein-bound Ile	Free Thr/Asp	0.3097	0.3838
Protein-bound Ile	Free Trp	-0.7280	0.0170
Protein-bound Ile	Free Tyr	-0.6170	0.0574
Protein-bound Ile	Free Val	-0.6546	0.0400
Protein-bound Ile	HSDH activity with four effectors	-0.6014	0.0659
Protein-bound Ile	HSDH activity without effectors	-0.3172	0.3719
Protein-bound Ile	<i>LKR-SDH1</i>	0.2847	0.4253
Protein-bound Ile	Lys-sensitive AK activity	0.4805	0.1598
Protein-bound Ile	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.0928	0.7988
Protein-bound Ile	Protein-bound Ala	0.2682	0.4538
Protein-bound Ile	Protein-bound Arg	0.9018	0.0004
Protein-bound Ile	Protein-bound Gly	0.2953	0.4075
Protein-bound Ile	Protein-bound His	0.5885	0.0735
Protein-bound Ile	<i>SAMS1</i>	-0.6498	0.0420
Protein-bound Ile	<i>SAMS2</i>	-0.6003	0.0665
Protein-bound Ile	<i>SAMS3</i>	-0.4073	0.2427
Protein-bound Ile	<i>SAMS4</i>	-0.6319	0.0500
Protein-bound Ile	<i>SAMSS</i>	-0.6491	0.0423
Protein-bound Ile	<i>TD1</i>	-0.7182	0.0193
Protein-bound Ile	<i>TD1/BCAT1</i>	-0.3489	0.3231
Protein-bound Ile	<i>THA1</i>	0.5449	0.1033
Protein-bound Ile	<i>THA2</i>	-0.0888	0.8072
Protein-bound Ile	<i>THAs</i>	-0.0200	0.9563
Protein-bound Ile	<i>THAs+TD1</i>	-0.7005	0.0241
Protein-bound Ile	Thr-sensitive AK activity	0.1533	0.6725
Protein-bound Ile	Total free AAs	-0.7125	0.0208
Protein-bound Ile	<i>TSI</i>	-0.4082	0.2416
Protein-bound Ile	<i>TSI/(THAs+TD1)</i>	0.5279	0.1168
Protein-bound Ile	<i>TSI/TD1</i>	0.3829	0.2748
Protein-bound Ile	<i>TSI/THAs</i>	-0.6397	0.0464
Protein-bound Leu	(AK-HSDHs+CGS1)/SAMSS	0.0056	0.9878
Protein-bound Leu	(AK-HSDHs+TS1)/(THAs+TD1)	0.1614	0.6560

Protein-bound Leu	(AK-HSDHs+TSI+TDI)/BCAT1	-0.2065	0.5671
Protein-bound Leu	(AKs+AK-HSDHs)/AK-HSDHs	-0.0202	0.9558
Protein-bound Leu	(AKs+AK-HSDHs+CGS1)/SAMSS	0.1705	0.6376
Protein-bound Leu	(AKs+AK-HSDHs+DHDPSSs)/LKR-SDH1	0.5091	0.1328
Protein-bound Leu	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	0.2871	0.4212
Protein-bound Leu	(AKs+AK-HSDHs+TSI+TD1)/BCAT1	-0.1977	0.5839
Protein-bound Leu	(AKs+DHDPSSs)/LKR-SDH1	0.5234	0.1205
Protein-bound Leu	AK activity with four effectors	0.3597	0.3072
Protein-bound Leu	AK activity without effectors	0.3611	0.3053
Protein-bound Leu	AK activity/HSDH activity with four effectors	0.4277	0.2176
Protein-bound Leu	AK activity/HSDH activity without effectors	0.4719	0.1685
Protein-bound Leu	AK1	-0.4601	0.1809
Protein-bound Leu	AK1+AK2	0.3005	0.3989
Protein-bound Leu	AK1+AK3	-0.1524	0.6743
Protein-bound Leu	AK2	0.3853	0.2715
Protein-bound Leu	AK2+AK3	0.4336	0.2106
Protein-bound Leu	AK3	0.3350	0.3440
Protein-bound Leu	AK-HSDH1	0.2052	0.5695
Protein-bound Leu	AK-HSDH2	0.3045	0.3923
Protein-bound Leu	AK-HSDHs	0.3116	0.3808
Protein-bound Leu	AK-HSDHs+CGS1	0.2780	0.4368
Protein-bound Leu	AK-HSDHs+TSI	0.3521	0.3184
Protein-bound Leu	AK-HSDHs+TSI+TD1	0.3450	0.3289
Protein-bound Leu	AK-HSDHs+TSI+THAs	0.3480	0.3244
Protein-bound Leu	AKs	0.3551	0.3140
Protein-bound Leu	AKs/AK-HSDHs	-0.0202	0.9558
Protein-bound Leu	AKs+AK-HSDHs	0.4504	0.1915
Protein-bound Leu	AKs+AK-HSDHs+CGS1	0.4704	0.1701
Protein-bound Leu	AKs+AK-HSDHs+DHDPSSs	0.4523	0.1894
Protein-bound Leu	AKs+AK-HSDHs+TSI	0.5057	0.1359
Protein-bound Leu	AKs+AK-HSDHs+TSI+TD1	0.5039	0.1375
Protein-bound Leu	AKs+AK-HSDHs+TSI+THAs	0.5018	0.1395
Protein-bound Leu	AKs+DHDPSSs	0.3598	0.3071
	BCAT1	0.2006	0.5783
Protein-bound Leu	Biosynthetic genes analyzed	0.4946	0.1461
Protein-bound Leu	Catabolic genes analyzed	0.2167	0.5477
Protein-bound Leu	CGS1	0.1967	0.5860
Protein-bound Leu	CGS1/SAMSS	-0.1949	0.5895
Protein-bound Leu	CGS1/TSI	-0.1135	0.7550
Protein-bound Leu	DHDPS1	-0.2404	0.5035
Protein-bound Leu	DHDPS2	0.3701	0.2925
Protein-bound Leu	DHDPSs	0.1142	0.7534
Protein-bound Leu	DHDPSs/AK-HSDHs	-0.3573	0.3107
Protein-bound Leu	DHDPSs/LKR-SDH1	0.3015	0.3972
Protein-bound Leu	Free (Lys+Met+Thr+Ile)/Asp	0.0353	0.9229
Protein-bound Leu	Free Ala	0.1756	0.6275
Protein-bound Leu	Free Arg	-0.2810	0.4316
Protein-bound Leu	Free Asn	-0.1142	0.7534
Protein-bound Leu	Free Asn+Asp	-0.1804	0.6180
Protein-bound Leu	Free Asn+Asp+Lys+Met+Thr+Ile	-0.1208	0.7396
Protein-bound Leu	Free Asn+Asp+Lys+Thr+Ile	-0.1209	0.7393
Protein-bound Leu	Free Asp	-0.1933	0.5927
Protein-bound Leu	Free Asp+Lys+Met+Thr+Ile	-0.1184	0.7445
Protein-bound Leu	Free Cys	-0.1839	0.6111
Protein-bound Leu	Free Gln	-0.1563	0.6663
Protein-bound Leu	Free Glu	-0.0765	0.8336
Protein-bound Leu	Free Gly	-0.0754	0.8360

Protein-bound Leu	Free Gly/Thr	-0.1529	0.6731
Protein-bound Leu	Free Gly+Ile	-0.0818	0.8222
Protein-bound Leu	Free His	-0.0514	0.8879
Protein-bound Leu	Free Ile	-0.1142	0.7533
Protein-bound Leu	Free Ile/Thr	-0.0222	0.9514
Protein-bound Leu	Free Leu	-0.0731	0.8410
Protein-bound Leu	Free Lys	-0.1412	0.6972
Protein-bound Leu	Free Lys/(Met+Thr+Ile)	-0.0247	0.9461
Protein-bound Leu	Free Lys/Asp	0.0521	0.8863
Protein-bound Leu	Free Lys/Thr	-0.0438	0.9043
Protein-bound Leu	Free Lys+Met+Thr+Ile	-0.0431	0.9059
Protein-bound Leu	Free Met	-0.4093	0.2402
Protein-bound Leu	Free Met/(Thr+Ile)	-0.1661	0.6465
Protein-bound Leu	Free Met/Thr	-0.1076	0.7674
Protein-bound Leu	Free Met+Thr+Ile	-0.0379	0.9173
Protein-bound Leu	Free Phe	0.0854	0.8145
Protein-bound Leu	Free Pro	-0.1220	0.7371
Protein-bound Leu	Free Ser	-0.0779	0.8307
Protein-bound Leu	Free Thr	-0.0351	0.9233
Protein-bound Leu	Free Thr/(Gly+Ile)	-0.0946	0.7949
Protein-bound Leu	Free Thr/Asp	0.0299	0.9346
Protein-bound Leu	Free Trp	0.0050	0.9891
Protein-bound Leu	Free Tyr	-0.0519	0.8868
Protein-bound Leu	Free Val	0.2932	0.4110
Protein-bound Leu	HSDH activity with four effectors	-0.0814	0.8232
Protein-bound Leu	HSDH activity without effectors	-0.2047	0.5705
<i>LKR-SDH1</i>		-0.1825	0.6137
Protein-bound Leu	Lys-sensitive AK activity	0.3209	0.3659
Protein-bound Leu	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.4645	0.1762
Protein-bound Leu	Protein-bound Ala	0.5199	0.1235
Protein-bound Leu	Protein-bound Arg	0.1315	0.7172
Protein-bound Leu	Protein-bound Gly	0.5412	0.1062
Protein-bound Leu	Protein-bound His	0.5387	0.1081
Protein-bound Leu	Protein-bound Ile	0.2440	0.4970
	<i>SAMS1</i>	0.0074	0.9839
Protein-bound Leu	<i>SAMS2</i>	0.0298	0.9348
Protein-bound Leu	<i>SAMS3</i>	0.2026	0.5745
Protein-bound Leu	<i>SAMS4</i>	0.3530	0.3170
Protein-bound Leu	<i>SAMSS</i>	0.2138	0.5531
Protein-bound Leu	<i>TD1</i>	0.2075	0.5652
Protein-bound Leu	<i>TD1/BCAT1</i>	-0.2037	0.5725
Protein-bound Leu	<i>THA1</i>	0.0093	0.9797
Protein-bound Leu	<i>THA2</i>	-0.0838	0.8180
Protein-bound Leu	<i>THAs</i>	-0.0788	0.8286
Protein-bound Leu	<i>THAs+TD1</i>	0.1786	0.6214
Protein-bound Leu	Thr-sensitive AK activity	0.5374	0.1092
Protein-bound Leu	Total free AAs	-0.1152	0.7513
Protein-bound Leu	<i>TS1</i>	0.3230	0.3627
Protein-bound Leu	<i>TS1/(THAs+TD1)</i>	0.0852	0.8150
Protein-bound Leu	<i>TS1/TD1</i>	0.0646	0.8593
Protein-bound Leu	<i>TS1/THAs</i>	0.1059	0.7709
Protein-bound Lys	(AK-HSDHs+CGSI)/SAMSS	0.2355	0.5124
Protein-bound Lys	(AK-HSDHs+TS1)/(THAs+TD1)	0.0834	0.8189
Protein-bound Lys	(AK-HSDHs+TS1+TD1)/BCAT1	-0.2800	0.4333
Protein-bound Lys	(AKs+AK-HSDHs)/AK-HSDHs	0.1139	0.7540
Protein-bound Lys	(AKs+AK-HSDHs+CGSI)/SAMSS	0.0756	0.8355
Protein-bound Lys	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.2335	0.5162

Protein-bound Lys	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	0.0670	0.8540
Protein-bound Lys	(AKs+AK-HSDHs+TSI+TDI)/BCATI	-0.2742	0.4432
Protein-bound Lys	(AKs+DHDPSSs)/LKR-SDH1	-0.1769	0.6248
Protein-bound Lys	AK activity with four effectors	-0.3159	0.3739
Protein-bound Lys	AK activity without effectors	-0.2423	0.5000
Protein-bound Lys	AK activity/HSDH activity with four effectors	-0.0097	0.9788
Protein-bound Lys	AK activity/HSDH activity without effectors	0.1034	0.7761
Protein-bound Lys	AK1	-0.3802	0.2785
Protein-bound Lys	AK1+AK2	-0.1296	0.7212
Protein-bound Lys	AK1+AK3	-0.2645	0.4602
Protein-bound Lys	AK2	-0.0467	0.8980
Protein-bound Lys	AK2+AK3	-0.0261	0.9430
Protein-bound Lys	AK3	0.1174	0.7467
Protein-bound Lys	AK-HSDH1	-0.2667	0.4563
Protein-bound Lys	AK-HSDH2	-0.2985	0.4021
Protein-bound Lys	AK-HSDHs	-0.3458	0.3276
Protein-bound Lys	AK-HSDHs+CGS1	-0.3223	0.3637
Protein-bound Lys	AK-HSDHs+TSI	-0.2248	0.5324
Protein-bound Lys	AK-HSDHs+TSI+TDI	-0.2381	0.5077
Protein-bound Lys	AK-HSDHs+TSI+THAs	-0.2244	0.5332
Protein-bound Lys	AKs	-0.1068	0.7691
Protein-bound Lys	AKs/AK-HSDHs	0.1139	0.7540
Protein-bound Lys	AKs+AK-HSDHs	-0.2041	0.5717
Protein-bound Lys	AKs+AK-HSDHs+CGS1	-0.2444	0.4963
Protein-bound Lys	AKs+AK-HSDHs+DHDPSS	-0.2154	0.5501
Protein-bound Lys	AKs+AK-HSDHs+TSI	-0.2255	0.5310
Protein-bound Lys	AKs+AK-HSDHs+TSI+TDI	-0.2381	0.5077
Protein-bound Lys	AKs+AK-HSDHs+TSI+THAs	-0.2250	0.5321
Protein-bound Lys	AKs+DHDPSSs	-0.1203	0.7407
Protein-bound Lys	BCATI	0.2954	0.4073
Protein-bound Lys	Biosynthetic genes analyzed	-0.2523	0.4818
Protein-bound Lys	Catabolic genes analyzed	-0.4535	0.1881
Protein-bound Lys	CGS1	-0.2330	0.5170
Protein-bound Lys	CGS1/SAMSS	0.3423	0.3329
Protein-bound Lys	CGS1/TSI	0.0104	0.9773
Protein-bound Lys	DHDPS1	-0.3399	0.3366
Protein-bound Lys	DHDPS2	-0.1854	0.6081
Protein-bound Lys	DHDPSs	-0.3487	0.3233
Protein-bound Lys	DHDPSs/AK-HSDHs	0.2836	0.4272
Protein-bound Lys	DHDPSs/LKR-SDH1	-0.3168	0.3725
Protein-bound Lys	Free (Lys+Met+Thr+Ile)/Asp	-0.2356	0.5123
Protein-bound Lys	Free Ala	-0.1381	0.7035
Protein-bound Lys	Free Arg	-0.5062	0.1355
Protein-bound Lys	Free Asn	-0.4084	0.2413
Protein-bound Lys	Free Asn+Asp	-0.1987	0.5820
Protein-bound Lys	Free Asn+Asp+Lys+Met+Thr+Ile	-0.3662	0.2980
Protein-bound Lys	Free Asn+Asp+Lys+Thr+Ile	-0.3663	0.2978
Protein-bound Lys	Free Asp	-0.1708	0.6371
Protein-bound Lys	Free Asp+Lys+Met+Thr+Ile	-0.3513	0.3196
Protein-bound Lys	Free Cys	-0.5541	0.0965
Protein-bound Lys	Free Gln	-0.4828	0.1575
Protein-bound Lys	Free Glu	-0.0867	0.8117
Protein-bound Lys	Free Gly	-0.4479	0.1942
Protein-bound Lys	Free Gly/Thr	0.2239	0.5341
Protein-bound Lys	Free Gly+Ile	-0.4669	0.1737
Protein-bound Lys	Free His	-0.4054	0.2451
Protein-bound Lys	Free Ile	-0.3727	0.2888

Protein-bound Lys	Free Ile/Thr	0.4413	0.2017
Protein-bound Lys	Free Leu	-0.2877	0.4203
Protein-bound Lys	Free Lys	-0.3161	0.3735
Protein-bound Lys	Free Lys/(Met+Thr+Ile)	0.3472	0.3256
Protein-bound Lys	Free Lys/Asp	-0.2571	0.4734
Protein-bound Lys	Free Lys/Thr	0.4097	0.2396
Protein-bound Lys	Free Lys+Met+Thr+Ile	-0.2982	0.4026
Protein-bound Lys	Free Met	0.0142	0.9690
Protein-bound Lys	Free Met/(Thr+Ile)	0.3484	0.3239
Protein-bound Lys	Free Met/Thr	0.4720	0.1684
Protein-bound Lys	Free Met+Thr+Ile	-0.2862	0.4227
Protein-bound Lys	Free Phe	-0.2501	0.4859
Protein-bound Lys	Free Pro	-0.3633	0.3022
Protein-bound Lys	Free Ser	-0.3398	0.3367
Protein-bound Lys	Free Thr	-0.2778	0.4372
Protein-bound Lys	Free Thr/(Gly+Ile)	-0.2338	0.5156
Protein-bound Lys	Free Thr/Asp	-0.2308	0.5211
Protein-bound Lys	Free Trp	-0.3663	0.2979
Protein-bound Lys	Free Tyr	-0.1900	0.5990
Protein-bound Lys	Free Val	-0.0245	0.9465
Protein-bound Lys	HSDH activity with four effectors	-0.5139	0.1287
Protein-bound Lys	HSDH activity without effectors	-0.4427	0.2002
<i>LKR-SDH1</i>		0.2015	0.5767
Lys-sensitive AK activity		-0.0031	0.9932
Lys-sensitive AK activity/Thr-sensitive AK activity		-0.2158	0.5493
Protein-bound Ala		0.1426	0.6943
Protein-bound Arg		0.7513	0.0122
Protein-bound Gly		-0.0129	0.9718
Protein-bound His		0.6637	0.0364
Protein-bound Ile		0.6489	0.0424
Protein-bound Leu		0.2593	0.4694
<i>SAMS1</i>		-0.0992	0.7852
<i>SAMS2</i>		-0.2504	0.4853
Protein-bound Lys	SAMS3	-0.4992	0.1418
Protein-bound Lys	<i>SAMS4</i>	-0.3038	0.3935
Protein-bound Lys	SAMSS	-0.4541	0.1874
Protein-bound Lys	<i>TD1</i>	-0.2986	0.4020
Protein-bound Lys	<i>TD1/BCAT1</i>	-0.3120	0.3801
Protein-bound Lys	THA1	0.4294	0.2156
Protein-bound Lys	<i>THA2</i>	-0.1317	0.7168
Protein-bound Lys	<i>THAs</i>	-0.0566	0.8767
Protein-bound Lys	<i>THAs+TD1</i>	-0.3045	0.3923
Protein-bound Lys	Thr-sensitive AK activity	0.5312	0.1141
Protein-bound Lys	Total free AAs	-0.3798	0.2791
	<i>TS1</i>	-0.1392	0.7013
	<i>TS1/(THAs+TD1)</i>	0.2676	0.4548
	<i>TS1/TD1</i>	0.1299	0.7206
Protein-bound Lys	TS1/THAs	-0.4640	0.1767
Protein-bound Phe	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.2064	0.5673
Protein-bound Phe	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	0.2708	0.4492
Protein-bound Phe	(AK-HSDHs+TS1+TD1)/BCAT1	-0.4551	0.1863
Protein-bound Phe	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.1083	0.7658
Protein-bound Phe	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.2451	0.4949
Protein-bound Phe	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.0079	0.9826
Protein-bound Phe	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	0.2083	0.5635
Protein-bound Phe	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.4525	0.1891
Protein-bound Phe	<i>(AKs+DHDPSS)/LKR-SDH1</i>	0.0036	0.9922

Protein-bound Phe	AK activity with four effectors	-0.1980	0.5835
Protein-bound Phe	AK activity without effectors	-0.2780	0.4367
Protein-bound Phe	AK activity/HSDH activity with four effectors	0.1757	0.6273
Protein-bound Phe	AK activity/HSDH activity without effectors	0.1785	0.6216
Protein-bound Phe	<i>AK1</i>	0.1193	0.7427
Protein-bound Phe	<i>AK1+AK2</i>	-0.2661	0.4573
Protein-bound Phe	<i>AK1+AK3</i>	0.1084	0.7655
Protein-bound Phe	<i>AK2</i>	-0.2814	0.4309
Protein-bound Phe	<i>AK2+AK3</i>	-0.2724	0.4464
Protein-bound Phe	<i>AK3</i>	0.0066	0.9856
Protein-bound Phe	<i>AK-HSDH1</i>	-0.1490	0.6811
Protein-bound Phe	<i>AK-HSDH2</i>	-0.0980	0.7876
Protein-bound Phe	<i>AK-HSDHs</i>	-0.1509	0.6774
Protein-bound Phe	<i>AK-HSDHs+CGS1</i>	-0.2579	0.4718
Protein-bound Phe	<i>AK-HSDHs+TS1</i>	-0.3971	0.2558
Protein-bound Phe	<i>AK-HSDHs+TS1+TD1</i>	-0.4134	0.2351
Protein-bound Phe	<i>AK-HSDHs+TS1+THAs</i>	-0.4071	0.2430
Protein-bound Phe	<i>AKs</i>	-0.2602	0.4678
Protein-bound Phe	<i>AKs/AK-HSDHs</i>	-0.1083	0.7658
Protein-bound Phe	<i>AKs+AK-HSDHs</i>	-0.3111	0.3815
Protein-bound Phe	<i>AKs+AK-HSDHs+CGS1</i>	-0.3674	0.2964
Protein-bound Phe	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.3261	0.3578
Protein-bound Phe	<i>AKs+AK-HSDHs+TS1</i>	-0.4578	0.1834
Protein-bound Phe	<i>AKs+AK-HSDHs+TS1+TD1</i>	-0.4718	0.1686
Protein-bound Phe	<i>AKs+AK-HSDHs+TS1+THAs</i>	-0.4607	0.1802
Protein-bound Phe	<i>AKs+DHDPSs</i>	-0.2778	0.4371
Protein-bound Phe	<i>BCAT1</i>	0.4783	0.1621
Protein-bound Phe	<i>Biosynthetic genes analyzed</i>	-0.4810	0.1593
Protein-bound Phe	Catabolic genes analyzed	-0.1386	0.7025
Protein-bound Phe	<i>CGS1</i>	-0.3221	0.3640
Protein-bound Phe	<i>CGS1/SAMs</i>	-0.1325	0.7151
Protein-bound Phe	<i>CGS1/TS1</i>	0.2474	0.4908
Protein-bound Phe	<i>DHDPS1</i>	-0.6507	0.0416
Protein-bound Phe	<i>DHDPS2</i>	-0.1305	0.7193
Protein-bound Phe	<i>DHDPSs</i>	-0.4732	0.1672
Protein-bound Phe	<i>DHDPSs/AK-HSDHs</i>	-0.0101	0.9779
Protein-bound Phe	<i>DHDPSs/LKR-SDH1</i>	-0.0784	0.8296
Protein-bound Phe	Free (Lys+Met+Thr+Ile)/Asp	-0.2817	0.4304
Protein-bound Phe	Free Ala	-0.3532	0.3168
Protein-bound Phe	Free Arg	-0.5967	0.0686
Protein-bound Phe	Free Asn	-0.4553	0.1860
Protein-bound Phe	Free Asn+Asp	-0.2108	0.5588
Protein-bound Phe	Free Asn+Asp+Lys+Met+Thr+Ile	-0.5424	0.1052
Protein-bound Phe	Free Asn+Asp+Lys+Thr+Ile	-0.5395	0.1075
Protein-bound Phe	Free Asp	-0.1728	0.6330
Protein-bound Phe	Free Asp+Lys+Met+Thr+Ile	-0.5286	0.1162
Protein-bound Phe	Free Cys	-0.5243	0.1198
Protein-bound Phe	Free Gln	-0.3922	0.2623
Protein-bound Phe	Free Glu	-0.1544	0.6701
Protein-bound Phe	Free Gly	-0.1883	0.6023
Protein-bound Phe	Free Gly/Thr	0.3721	0.2896
Protein-bound Phe	Free Gly+Ile	-0.2388	0.5065
Protein-bound Phe	Free His	-0.5011	0.1401
Protein-bound Phe	Free Ile	-0.8275	0.0031
Protein-bound Phe	Free Ile/Thr	0.3777	0.2819
Protein-bound Phe	Free Leu	-0.5053	0.1363
Protein-bound Phe	Free Lys	-0.5558	0.0952
Protein-bound Phe	Free Lys/(Met+Thr+Ile)	0.3176	0.3713

Protein-bound Phe	Free Lys/Asp	-0.4521	0.1896
Protein-bound Phe	Free Lys/Thr	0.3430	0.3319
Protein-bound Phe	Free Lys+Met+Thr+Ile	-0.4827	0.1577
Protein-bound Phe	Free Met	-0.1464	0.6865
Protein-bound Phe	Free Met/(Thr+Ile)	0.3242	0.3608
Protein-bound Phe	Free Met/Thr	0.4130	0.2355
Protein-bound Phe	Free Met+Thr+Ile	-0.4616	0.1793
Protein-bound Phe	Free Phe	-0.4566	0.1847
Protein-bound Phe	Free Pro	-0.2641	0.4609
Protein-bound Phe	Free Ser	-0.0646	0.8592
Protein-bound Phe	Free Thr	-0.4473	0.1950
Protein-bound Phe	Free Thr/(Gly+Ile)	-0.3946	0.2591
Protein-bound Phe	Free Thr/Asp	-0.2717	0.4476
Protein-bound Phe	Free Trp	-0.3838	0.2736
Protein-bound Phe	Free Tyr	-0.5199	0.1235
Protein-bound Phe	Free Val	-0.2878	0.4200
Protein-bound Phe	HSDH activity with four effectors	-0.5618	0.0910
Protein-bound Phe	HSDH activity without effectors	-0.4950	0.1458
<i>LKR-SDH1</i>		-0.2056	0.5687
Lys-sensitive AK activity		-0.0551	0.8799
Lys-sensitive AK activity/Thr-sensitive AK activity		-0.3789	0.2803
Protein-bound Ala		0.1265	0.7277
Protein-bound Arg	0.6612	0.0374	
Protein-bound Gly		-0.0330	0.9279
Protein-bound His	0.7327	0.0159	
Protein-bound Ile	0.5744	0.0824	
Protein-bound Leu		0.1885	0.6019
Protein-bound Lys	0.7187	0.0192	
<i>SAMS1</i>		-0.2053	0.5694
<i>SAMS2</i>		-0.6165	0.0576
<i>SAMS3</i>		-0.0293	0.9361
<i>SAMS4</i>		-0.1551	0.6687
<i>SAMSs</i>		-0.1359	0.7081
TD1	-0.4368	0.2069	
TD1/BCAT1		-0.4705	0.1699
<i>THA1</i>		0.0668	0.8544
<i>THA2</i>		-0.5626	0.0904
<i>THAs</i>		-0.5199	0.1235
<i>THAs+TD1</i>		-0.5337	0.1121
Thr-sensitive AK activity		0.4727	0.1677
Total free AAs		-0.4019	0.2496
TSI		-0.4531	0.1884
<i>TSI/(THAs+TD1)</i>		0.3570	0.3112
<i>TSI/TD1</i>		0.3183	0.3702
<i>TSI/THAs</i>		-0.2154	0.5502
(AK-HSDHs+CGS1)/SAMSS		-0.3742	0.2868
Protein-bound Pro		0.3232	0.3623
Protein-bound Pro		0.3232	0.3623
Protein-bound Pro	(AK-HSDHs+TS1)/(THAs+TD1)	-0.4750	0.1653
Protein-bound Pro	(AKs+AK-HSDHs)/AK-HSDHs	-0.2645	0.4602
Protein-bound Pro	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2876	0.4204
Protein-bound Pro	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.1961	0.5871
Protein-bound Pro	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.0849	0.8155
Protein-bound Pro	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.4950	0.1458
Protein-bound Pro	(AKs+DHDPSS)/LKR-SDH1	-0.2673	0.4553
Protein-bound Pro	AK activity with four effectors	-0.1269	0.7269
Protein-bound Pro	AK activity without effectors	0.1121	0.7578
Protein-bound Pro	AK activity/HSDH activity with four effectors	-0.0568	0.8761
Protein-bound Pro	AK activity/HSDH activity without effectors	-0.2189	0.5435

Protein-bound Pro	<i>AK1</i>	-0.0087	0.9811
Protein-bound Pro	<i>AK1+AK2</i>	-0.2866	0.4220
Protein-bound Pro	<i>AK1+AK3</i>	-0.0110	0.9758
Protein-bound Pro	<i>AK2</i>	-0.2760	0.4401
Protein-bound Pro	<i>AK2+AK3</i>	-0.2689	0.4526
Protein-bound Pro	<i>AK3</i>	-0.0104	0.9773
Protein-bound Pro	<i>AK-HSDH1</i>	0.4901	0.1505
Protein-bound Pro	<i>AK-HSDH2</i>	-0.3326	0.3477
Protein-bound Pro	<i>AK-HSDHs</i>	0.0568	0.8761
Protein-bound Pro	<i>AK-HSDHs+CGS1</i>	-0.1347	0.7106
Protein-bound Pro	<i>AK-HSDHs+TSI</i>	0.2286	0.5253
Protein-bound Pro	<i>AK-HSDHs+TSI+TD1</i>	0.2058	0.5683
Protein-bound Pro	<i>AK-HSDHs+TSI+THAs</i>	0.2252	0.5315
Protein-bound Pro	<i>AKs</i>	-0.2838	0.4268
Protein-bound Pro	<i>AKs/AK-HSDHs</i>	-0.2645	0.4602
Protein-bound Pro	<i>AKs+AK-HSDHs</i>	-0.2803	0.4327
Protein-bound Pro	<i>AKs+AK-HSDHs+CGS1</i>	-0.3353	0.3435
Protein-bound Pro	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.2771	0.4383
Protein-bound Pro	<i>AKs+AK-HSDHs+TSI</i>	-0.0899	0.8050
Protein-bound Pro	<i>AKs+AK-HSDHs+TSI+TD1</i>	-0.0919	0.8007
Protein-bound Pro	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.0920	0.8005
Protein-bound Pro	<i>AKs+DHDPSs</i>	-0.2829	0.4284
Protein-bound Pro	<i>BCAT1</i>	0.5531	0.0973
Protein-bound Pro	Biosynthetic genes analyzed	-0.1341	0.7120
Protein-bound Pro	Catabolic genes analyzed	0.0353	0.9229
Protein-bound Pro	<i>CGS1</i>	-0.3132	0.3782
Protein-bound Pro	<i>CGS1/SAMSS</i>	-0.3542	0.3152
Protein-bound Pro	<i>CGS1/TS1</i>	-0.6990	0.0245
Protein-bound Pro	<i>DHDPS1</i>	0.1111	0.7600
Protein-bound Pro	<i>DHDPS2</i>	-0.0999	0.7837
Protein-bound Pro	<i>DHDPSs</i>	0.0041	0.9910
Protein-bound Pro	<i>DHDPSs/AK-HSDHs</i>	-0.0901	0.8044
Protein-bound Pro	<i>DHDPSs/LKR-SDH1</i>	-0.0173	0.9623
Protein-bound Pro	Free (Lys+Met+Thr+Ile)/Asp	0.3858	0.2708
Protein-bound Pro	Free Ala	-0.1454	0.6885
Protein-bound Pro	Free Arg	-0.5545	0.0962
Protein-bound Pro	Free Asn	-0.4327	0.2117
Protein-bound Pro	Free Asn+Asp	-0.3728	0.2888
Protein-bound Pro	Free Asn+Asp+Lys+Met+Thr+Ile	0.0202	0.9558
Protein-bound Pro	Free Asn+Asp+Lys+Thr+Ile	0.0258	0.9437
Protein-bound Pro	Free Asp	-0.3606	0.3061
Protein-bound Pro	Free Asp+Lys+Met+Thr+Ile	0.0533	0.8838
Protein-bound Pro	Free Cys	-0.0102	0.9778
Protein-bound Pro	Free Gln	-0.4353	0.2086
Protein-bound Pro	Free Glu	-0.4458	0.1966
Protein-bound Pro	Free Gly	-0.1109	0.7604
Protein-bound Pro	Free Gly/Thr	0.1113	0.7595
Protein-bound Pro	Free Gly+Ile	-0.1101	0.7621
Protein-bound Pro	Free His	-0.4606	0.1804
Protein-bound Pro	Free Ile	-0.0048	0.9895
Protein-bound Pro	Free Ile/Thr	0.1219	0.7372
Protein-bound Pro	Free Leu	-0.3713	0.2907
Protein-bound Pro	Free Lys	-0.5485	0.1007
Protein-bound Pro	Free Lys/(Met+Thr+Ile)	0.0042	0.9908
Protein-bound Pro	Free Lys/Asp	-0.0636	0.8615
Protein-bound Pro	Free Lys/Thr	0.0554	0.8792
Protein-bound Pro	Free Lys+Met+Thr+Ile	0.2081	0.5639

Protein-bound Pro	Free Met	-0.4927	0.1480
Protein-bound Pro	Free Met/(Thr+Ile)	0.0243	0.9469
Protein-bound Pro	Free Met/Thr	0.0964	0.7911
Protein-bound Pro	Free Met+Thr+Ile	0.2280	0.5264
Protein-bound Pro	Free Phe	-0.2800	0.4332
Protein-bound Pro	Free Pro	-0.5332	0.1125
Protein-bound Pro	Free Ser	-0.0821	0.8215
Protein-bound Pro	Free Thr	0.2361	0.5114
Protein-bound Pro	Free Thr/(Gly+Ile)	0.2230	0.5357
Protein-bound Pro	Free Thr/Asp	0.3912	0.2636
Protein-bound Pro	Free Trp	-0.1938	0.5917
Protein-bound Pro	Free Tyr	-0.3765	0.2835
Protein-bound Pro	Free Val	-0.0843	0.8169
Protein-bound Pro	HSDH activity with four effectors	-0.2305	0.5216
Protein-bound Pro	HSDH activity without effectors	0.1292	0.7220
<i>LKR-SDH1</i>		0.1896	0.5999
Protein-bound Pro	Lys-sensitive AK activity	0.1547	0.6696
Protein-bound Pro	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.3401	0.3363
Protein-bound Ala	0.9530	<.0001	
Protein-bound Arg	0.4036	0.2474	
Protein-bound Gly	0.9085	0.0003	
Protein-bound Pro	Protein-bound His	0.1905	0.5981
Protein-bound Ile	0.4293	0.2157	
Protein-bound Pro	Protein-bound Leu	0.3520	0.3185
Protein-bound Pro	Protein-bound Lys	0.2630	0.4629
Protein-bound Pro	Protein-bound Phe	0.2125	0.5555
	<i>SAMS1</i>	-0.2343	0.5148
	<i>SAMS2</i>	0.0350	0.9236
	<i>SAMS3</i>	0.1337	0.7127
	<i>SAMS4</i>	0.0883	0.8082
	<i>SAMSs</i>	0.0315	0.9311
Protein-bound Pro	<i>TD1</i>	-0.0769	0.8328
Protein-bound Pro	<i>TD1/BCAT1</i>	-0.4839	0.1564
Protein-bound Pro	<i>THA1</i>	0.4035	0.2476
Protein-bound Pro	<i>THA2</i>	-0.2411	0.5021
Protein-bound Pro	<i>THAs</i>	-0.2185	0.5441
Protein-bound Pro	<i>THAs+TD1</i>	-0.1069	0.7688
Protein-bound Pro	Thr-sensitive AK activity	0.5437	0.1042
Protein-bound Pro	Total free AAs	-0.3589	0.3085
Protein-bound Pro	<i>TS1</i>	0.2750	0.4419
Protein-bound Pro	<i>TS1/(THAs+TD1)</i>	0.4325	0.2119
Protein-bound Pro	<i>TS1/TD1</i>	0.2222	0.5373
Protein-bound Pro	<i>TS1/THAs</i>	0.2084	0.5634
Protein-bound Ser	(AK-HSDHs+CGS1)/SAMSS	-0.2217	0.5381
Protein-bound Ser	(AK-HSDHs+TS1)/(THAs+TD1)	0.4469	0.1954
Protein-bound Ser	(AK-HSDHs+TS1+TD1)/BCAT1	-0.4342	0.2099
Protein-bound Ser	(AKs+AK-HSDHs)/AK-HSDHs	-0.3120	0.3802
Protein-bound Ser	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2633	0.4623
Protein-bound Ser	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.1765	0.6258
Protein-bound Ser	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	0.2427	0.4992
Protein-bound Ser	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.4519	0.1898
Protein-bound Ser	(AKs+DHDPSS)/LKR-SDH1	0.1041	0.7747
Protein-bound Ser	AK activity with four effectors	0.2627	0.4633
Protein-bound Ser	AK activity without effectors	0.4741	0.1663
Protein-bound Ser	AK activity/HSDH activity with four effectors	0.1907	0.5976
Protein-bound Ser	AK activity/HSDH activity without effectors	0.0273	0.9404
Protein-bound Ser	<i>AK1</i>	-0.1967	0.5859

Protein-bound Ser	<i>AK1+AK2</i>	-0.1730	0.6327
Protein-bound Ser	<i>AK1+AK3</i>	-0.1116	0.7589
Protein-bound Ser	<i>AK2</i>	-0.1270	0.7266
Protein-bound Ser	<i>AK2+AK3</i>	-0.1087	0.7649
Protein-bound Ser	<i>AK3</i>	0.0798	0.8265
Protein-bound Ser	<i>AK-HSDH1</i>	0.6230	0.0544
Protein-bound Ser	<i>AK-HSDH2</i>	-0.1194	0.7425
Protein-bound Ser	<i>AK-HSDHs</i>	0.2704	0.4499
Protein-bound Ser	<i>AK-HSDHs+CGS1</i>	0.1823	0.6143
Protein-bound Ser	<i>AK-HSDHs+TSI</i>	0.4337	0.2104
Protein-bound Ser	<i>AK-HSDHs+TSI+TD1</i>	0.4014	0.2502
Protein-bound Ser	<i>AK-HSDHs+TSI+THAs</i>	0.4327	0.2116
Protein-bound Ser	<i>AKs</i>	-0.1560	0.6670
Protein-bound Ser	<i>AKs/AK-HSDHs</i>	-0.3120	0.3802
Protein-bound Ser	<i>AKs+AK-HSDHs</i>	-0.0915	0.8015
Protein-bound Ser	<i>AKs+AK-HSDHs+CGS1</i>	-0.0733	0.8406
Protein-bound Ser	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.0911	0.8024
Protein-bound Ser	<i>AKs+AK-HSDHs+TSI</i>	0.1401	0.6994
Protein-bound Ser	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.1346	0.7108
Protein-bound Ser	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.1392	0.7013
Protein-bound Ser	<i>AKs+DHDPSS</i>	-0.1564	0.6662
Protein-bound Ser	<i>BCAT1</i>	0.6372	0.0475
Protein-bound Ser	Biosynthetic genes analyzed	0.1356	0.7089
Protein-bound Ser	Catabolic genes analyzed	0.2091	0.5622
Protein-bound Ser	<i>CGS1</i>	0.0528	0.8848
Protein-bound Ser	<i>CGS1/SAMSS</i>	-0.3362	0.3422
Protein-bound Ser	<i>CGS1/TSI</i>	-0.5661	0.0880
Protein-bound Ser	<i>DHDPS1</i>	-0.1498	0.6795
Protein-bound Ser	<i>DHDPS2</i>	0.0948	0.7944
Protein-bound Ser	<i>DHDPSs</i>	-0.0239	0.9477
Protein-bound Ser	<i>DHDPSs/AK-HSDHs</i>	-0.3214	0.3652
Protein-bound Ser	<i>DHDPSs/LKR-SDH1</i>	0.2198	0.5418
Protein-bound Ser	Free (Lys+Met+Thr+Ile)/Asp	0.3921	0.2624
Protein-bound Ser	Free Ala	-0.1521	0.6748
Protein-bound Ser	Free Arg	-0.4323	0.2122
Protein-bound Ser	Free Asn	-0.4344	0.2096
Protein-bound Ser	Free Asn+Asp	-0.5168	0.1262
Protein-bound Ser	Free Asn+Asp+Lys+Met+Thr+Ile	-0.1154	0.7508
Protein-bound Ser	Free Asn+Asp+Lys+Thr+Ile	-0.1112	0.7597
Protein-bound Ser	Free Asp	-0.5246	0.1195
Protein-bound Ser	Free Asp+Lys+Met+Thr+Ile	-0.0874	0.8103
Protein-bound Ser	Free Cys	-0.1488	0.6817
Protein-bound Ser	Free Gln	-0.4497	0.1922
Protein-bound Ser	Free Glu	-0.5445	0.1036
Protein-bound Ser	Free Gly	-0.2608	0.4668
Protein-bound Ser	Free Gly/Thr	-0.0613	0.8665
Protein-bound Ser	Free Gly+Ile	-0.2554	0.4763
Protein-bound Ser	Free His	-0.3203	0.3670
Protein-bound Ser	Free Ile	0.0421	0.9080
Protein-bound Ser	Free Ile/Thr	0.0625	0.8638
Protein-bound Ser	Free Leu	-0.3325	0.3479
Protein-bound Ser	Free Lys	-0.4942	0.1465
Protein-bound Ser	Free Lys/(Met+Thr+Ile)	-0.0520	0.8865
Protein-bound Ser	Free Lys/Asp	0.1828	0.6131
Protein-bound Ser	Free Lys/Thr	-0.0144	0.9685
Protein-bound Ser	Free Lys+Met+Thr+Ile	0.1293	0.7218
Protein-bound Ser	Free Met	-0.5504	0.0992

Protein-bound Ser	Free Met/(Thr+Ile)	-0.1142	0.7534
Protein-bound Ser	Free Met/Thr	-0.0444	0.9032
Protein-bound Ser	Free Met+Thr+Ile	0.1473	0.6847
Protein-bound Ser	Free Phe	-0.1920	0.5952
Protein-bound Ser	Free Pro	-0.5883	0.0736
Protein-bound Ser	Free Ser	-0.2142	0.5523
Protein-bound Ser	Free Thr	0.1554	0.6682
Protein-bound Ser	Free Thr/(Gly+Ile)	0.1955	0.5884
Protein-bound Ser	Free Thr/Asp	0.3857	0.2710
Protein-bound Ser	Free Trp	-0.1324	0.7154
Protein-bound Ser	Free Tyr	-0.2303	0.5222
Protein-bound Ser	Free Val	0.1111	0.7600
Protein-bound Ser	HSDH activity with four effectors	-0.0549	0.8802
Protein-bound Ser	HSDH activity without effectors	0.2128	0.5550
<i>LKR-SDH1</i>		-0.1184	0.7447
Protein-bound Ser	Lys-sensitive AK activity	0.3719	0.2899
Protein-bound Ser	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.2490	0.4879
Protein-bound Ser	Protein-bound Ala	0.9365	<.0001
Protein-bound Ser	Protein-bound Arg	0.2580	0.4717
Protein-bound Ser	Protein-bound Gly	0.8972	0.0004
Protein-bound Ser	Protein-bound His	0.3499	0.3216
Protein-bound Ser	Protein-bound Ile	0.3375	0.3402
Protein-bound Ser	Protein-bound Leu	0.5457	0.1027
Protein-bound Ser	Protein-bound Lys	0.2522	0.4821
Protein-bound Ser	Protein-bound Phe	0.2150	0.5508
Protein-bound Ser	Protein-bound Pro	0.8837	0.0007
Protein-bound Ser	<i>SAMS1</i>	-0.2685	0.4533
Protein-bound Ser	<i>SAMS2</i>	-0.0185	0.9595
Protein-bound Ser	<i>SAMS3</i>	0.3366	0.3416
Protein-bound Ser	<i>SAMS4</i>	0.3099	0.3835
Protein-bound Ser	<i>SAMSS</i>	0.2047	0.5706
Protein-bound Ser	<i>TD1</i>	-0.0212	0.9536
Protein-bound Ser	<i>TD1/BCAT1</i>	-0.4473	0.1949
Protein-bound Ser	<i>THA1</i>	0.0490	0.8931
Protein-bound Ser	<i>THA2</i>	-0.0331	0.9277
Protein-bound Ser	<i>THAs</i>	-0.0486	0.8940
Protein-bound Ser	<i>THAs+TD1</i>	-0.0217	0.9525
Protein-bound Ser	Thr-sensitive AK activity	0.6517	0.0412
Protein-bound Ser	Total free AAs	-0.4480	0.1942
Protein-bound Ser	<i>TS1</i>	0.4485	0.1936
Protein-bound Ser	<i>TS1/(THAs+TD1)</i>	0.5028	0.1385
Protein-bound Ser	<i>TS1/TD1</i>	0.3310	0.3502
Protein-bound Ser	<i>TS1/THAs</i>	0.1595	0.6599
Protein-bound Thr	(AK-HSDHs+CGSI)/SAMSS	-0.2959	0.4065
Protein-bound Thr	(AK-HSDHs+TS1)/(THAs+TD1)	0.2926	0.4120
Protein-bound Thr	(AK-HSDHs+TS1+TD1)/BCAT1	-0.3794	0.2796
Protein-bound Thr	(AKs+AK-HSDHs)/AK-HSDHs	-0.4611	0.1798
Protein-bound Thr	(AKs+AK-HSDHs+CGSI)/SAMSS	-0.4237	0.2224
Protein-bound Thr	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	-0.0776	0.8313
Protein-bound Thr	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.0244	0.9467
Protein-bound Thr	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.4052	0.2453
Protein-bound Thr	(AKs+DHDPSS)/LKR-SDH1	-0.1993	0.5809
Protein-bound Thr	AK activity with four effectors	-0.1547	0.6696
Protein-bound Thr	AK activity without effectors	0.0663	0.8557
Protein-bound Thr	AK activity/HSDH activity with four effectors	-0.1985	0.5826
Protein-bound Thr	AK activity/HSDH activity without effectors	-0.2969	0.4048
Protein-bound Thr	<i>AK1</i>	-0.2203	0.5408

Protein-bound Thr	<i>AK1+AK2</i>	-0.4275	0.2178
Protein-bound Thr	<i>AK1+AK3</i>	-0.1005	0.7823
Protein-bound Thr	<i>AK2</i>	-0.3676	0.2961
Protein-bound Thr	<i>AK2+AK3</i>	-0.3349	0.3442
Protein-bound Thr	<i>AK3</i>	0.1257	0.7293
Protein-bound Thr	<i>AK-HSDH1</i>	0.6088	0.0618
Protein-bound Thr	<i>AK-HSDH2</i>	-0.0747	0.8374
Protein-bound Thr	<i>AK-HSDHs</i>	0.2917	0.4135
Protein-bound Thr	<i>AK-HSDHs+CGS1</i>	0.1370	0.7059
Protein-bound Thr	<i>AK-HSDHs+TS1</i>	0.4234	0.2228
Protein-bound Thr	<i>AK-HSDHs+TS1+TD1</i>	0.4056	0.2449
Protein-bound Thr	<i>AK-HSDHs+TS1+THAs</i>	0.4180	0.2293
Protein-bound Thr	<i>AKs</i>	-0.3981	0.2546
Protein-bound Thr	<i>AKs/AK-HSDHs</i>	-0.4611	0.1798
Protein-bound Thr	<i>AKs+AK-HSDHs</i>	-0.3372	0.3407
Protein-bound Thr	<i>AKs+AK-HSDHs+CGS1</i>	-0.3301	0.3516
Protein-bound Thr	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.3286	0.3538
Protein-bound Thr	<i>AKs+AK-HSDHs+TS1</i>	-0.0632	0.8623
Protein-bound Thr	<i>AKs+AK-HSDHs+TS1+TD1</i>	-0.0535	0.8834
Protein-bound Thr	<i>AKs+AK-HSDHs+TS1+THAs</i>	-0.0669	0.8544
Protein-bound Thr	<i>AKs+DHDPSS</i>	-0.3914	0.2633
Protein-bound Thr	<i>BCAT1</i>	0.4037	0.2473
Protein-bound Thr	Biosynthetic genes analyzed	-0.0621	0.8647
Protein-bound Thr	Catabolic genes analyzed	0.2295	0.5235
Protein-bound Thr	<i>CGS1</i>	-0.0548	0.8805
Protein-bound Thr	<i>CGS1/SAMSS</i>	-0.3968	0.2563
Protein-bound Thr	<i>CGS1/TS1</i>	-0.6397	0.0464
Protein-bound Thr	<i>DHDPS1</i>	0.0469	0.8976
Protein-bound Thr	<i>DHDPS2</i>	0.1405	0.6986
Protein-bound Thr	<i>DHDPSs</i>	0.1250	0.7307
Protein-bound Thr	<i>DHDPSs/AK-HSDHs</i>	-0.3076	0.3873
Protein-bound Thr	<i>DHDPSs/LKR-SDH1</i>	0.2276	0.5271
Protein-bound Thr	Free (Lys+Met+Thr+Ile)/Asp	0.0917	0.8010
Protein-bound Thr	Free Ala	0.1268	0.7271
Protein-bound Thr	<i>Free Arg</i>	-0.4140	0.2342
Protein-bound Thr	Free Asn	-0.2861	0.4229
Protein-bound Thr	Free Asn+Asp	-0.2439	0.4971
Protein-bound Thr	Free Asn+Asp+Lys+Met+Thr+Ile	-0.1709	0.6369
Protein-bound Thr	Free Asn+Asp+Lys+Thr+Ile	-0.1685	0.6418
Protein-bound Thr	Free Asp	-0.2382	0.5075
Protein-bound Thr	Free Asp+Lys+Met+Thr+Ile	-0.1540	0.6709
Protein-bound Thr	Free Cys	-0.2643	0.4606
Protein-bound Thr	Free Gln	-0.2930	0.4113
Protein-bound Thr	<i>Free Glu</i>	-0.4148	0.2332
Protein-bound Thr	Free Gly	-0.0169	0.9630
Protein-bound Thr	Free Gly/Thr	0.3072	0.3878
Protein-bound Thr	Free Gly+Ile	-0.0144	0.9685
Protein-bound Thr	Free His	-0.2691	0.4522
Protein-bound Thr	Free Ile	0.0365	0.9203
Protein-bound Thr	Free Ile/Thr	0.3815	0.2767
Protein-bound Thr	Free Leu	-0.1461	0.6872
Protein-bound Thr	Free Lys	-0.3630	0.3026
Protein-bound Thr	Free Lys/(Met+Thr+Ile)	0.2854	0.4241
Protein-bound Thr	Free Lys/Asp	-0.0666	0.8550
Protein-bound Thr	Free Lys/Thr	0.3245	0.3603
Protein-bound Thr	Free Lys+Met+Thr+Ile	-0.0646	0.8592
Protein-bound Thr	Free Met	-0.3819	0.2762

Protein-bound Thr	Free Met/(Thr+Ile)	0.2561	0.4750
Protein-bound Thr	Free Met/Thr	0.3253	0.3591
Protein-bound Thr	Free Met+Thr+Ile	-0.0512	0.8882
Protein-bound Thr	Free Phe	0.0146	0.9681
Protein-bound Thr	Free Pro	-0.3969	0.2561
Protein-bound Thr	Free Ser	0.1057	0.7714
Protein-bound Thr	Free Thr	-0.0467	0.8981
Protein-bound Thr	Free Thr/(Gly+Ile)	-0.0729	0.8415
Protein-bound Thr	Free Thr/Asp	0.0926	0.7992
Protein-bound Thr	Free Trp	0.0693	0.8492
Protein-bound Thr	Free Tyr	-0.0884	0.8080
Protein-bound Thr	Free Val	0.2242	0.5335
Protein-bound Thr	HSDH activity with four effectors	-0.0436	0.9048
Protein-bound Thr	HSDH activity without effectors	0.2072	0.5658
Protein-bound Thr	<i>LKR-SDH1</i>	-0.0006	0.9987
Protein-bound Thr	Lys-sensitive AK activity	-0.0303	0.9338
Protein-bound Thr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.5433	0.1045
Protein-bound Thr	Protein-bound Ala	0.9460	<.0001
Protein-bound Thr	Protein-bound Arg	0.2970	0.4047
Protein-bound Thr	Protein-bound Gly	0.8542	0.0017
Protein-bound Thr	Protein-bound His	0.1779	0.6229
Protein-bound Thr	Protein-bound Ile	0.2769	0.4387
Protein-bound Thr	Protein-bound Leu	0.5059	0.1357
Protein-bound Thr	Protein-bound Lys	0.3384	0.3388
Protein-bound Thr	Protein-bound Phe	0.2189	0.5435
Protein-bound Thr	Protein-bound Pro	0.9225	0.0001
Protein-bound Thr	Protein-bound Ser	0.8818	0.0007
Protein-bound Thr	<i>SAMS1</i>	0.0072	0.9842
Protein-bound Thr	<i>SAMS2</i>	0.1263	0.7280
Protein-bound Thr	<i>SAMS3</i>	0.2208	0.5398
Protein-bound Thr	<i>SAMS4</i>	0.3361	0.3423
Protein-bound Thr	<i>SAMSS</i>	0.2260	0.5302
Protein-bound Thr	<i>TD1</i>	0.1279	0.7246
Protein-bound Thr	<i>TD1/BCAT1</i>	-0.3767	0.2833
Protein-bound Thr	<i>THA1</i>	0.3163	0.3732
Protein-bound Thr	<i>THA2</i>	-0.2801	0.4331
Protein-bound Thr	<i>THAs</i>	-0.2885	0.4189
Protein-bound Thr	<i>THAs+TD1</i>	0.0778	0.8308
Protein-bound Thr	Thr-sensitive AK activity	0.7837	0.0073
Protein-bound Thr	Total free AAs	-0.2914	0.4140
Protein-bound Thr	TSI	0.4259	0.2197
Protein-bound Thr	<i>TSI/(THAs+TD1)</i>	0.3456	0.3281
Protein-bound Thr	<i>TSI/TD1</i>	0.1497	0.6798
Protein-bound Thr	<i>TSI/THAs</i>	0.3573	0.3108
Protein-bound Tyr	(AK-HSDHs+CGS1)/SAMSS	-0.2909	0.4149
Protein-bound Tyr	(AK-HSDHs+TS1)/(THAs+TD1)	0.1315	0.7172
Protein-bound Tyr	(AK-HSDHs+TS1+TD1)/BCAT1	-0.3259	0.3581
Protein-bound Tyr	(AKs+AK-HSDHs)/AK-HSDHs	-0.2572	0.4732
Protein-bound Tyr	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2990	0.4013
Protein-bound Tyr	(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1	0.1953	0.5887
Protein-bound Tyr	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.0219	0.9521
Protein-bound Tyr	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.3357	0.3429
Protein-bound Tyr	(AKs+DHDPSS)/LKR-SDH1	0.1532	0.6726
Protein-bound Tyr	AK activity with four effectors	0.2707	0.4493
Protein-bound Tyr	AK activity without effectors	0.3862	0.2703
Protein-bound Tyr	AK activity/HSDH activity with four effectors	0.3390	0.3380
Protein-bound Tyr	AK activity/HSDH activity without effectors	0.2410	0.5024

Protein-bound Tyr	<i>AK1</i>	-0.3731	0.2883
Protein-bound Tyr	<i>AK1+AK2</i>	-0.1327	0.7147
Protein-bound Tyr	<i>AK1+AK3</i>	-0.2136	0.5535
Protein-bound Tyr	<i>AK2</i>	-0.0509	0.8890
Protein-bound Tyr	<i>AK2+AK3</i>	-0.0223	0.9513
Protein-bound Tyr	<i>AK3</i>	0.1590	0.6609
Protein-bound Tyr	<i>AK-HSDH1</i>	0.3763	0.2838
Protein-bound Tyr	<i>AK-HSDH2</i>	0.0674	0.8532
Protein-bound Tyr	<i>AK-HSDHs</i>	0.2533	0.4801
Protein-bound Tyr	<i>AK-HSDHs+CGS1</i>	0.3003	0.3992
Protein-bound Tyr	<i>AK-HSDHs+TS1</i>	0.4682	0.1723
Protein-bound Tyr	<i>AK-HSDHs+TS1+TD1</i>	0.4562	0.1851
Protein-bound Tyr	<i>AK-HSDHs+TS1+THAs</i>	0.4681	0.1725
Protein-bound Tyr	<i>AKs</i>	-0.1022	0.7787
Protein-bound Tyr	<i>AKs/AK-HSDHs</i>	-0.2572	0.4732
Protein-bound Tyr	<i>AKs+AK-HSDHs</i>	-0.0403	0.9121
Protein-bound Tyr	<i>AKs+AK-HSDHs+CGS1</i>	0.0300	0.9344
Protein-bound Tyr	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.0347	0.9241
Protein-bound Tyr	<i>AKs+AK-HSDHs+TS1</i>	0.2046	0.5707
Protein-bound Tyr	<i>AKs+AK-HSDHs+TS1+TD1</i>	0.2122	0.5562
Protein-bound Tyr	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.2045	0.5710
Protein-bound Tyr	<i>AKs+DHDPSs</i>	-0.0968	0.7901
Protein-bound Tyr	<i>BCAT1</i>	0.3792	0.2799
Protein-bound Tyr	Biosynthetic genes analyzed	0.2394	0.5053
Protein-bound Tyr	Catabolic genes analyzed	0.3434	0.3313
Protein-bound Tyr	<i>CGS1</i>	0.2947	0.4085
Protein-bound Tyr	<i>CGS1/SAMSS</i>	-0.3254	0.3589
Protein-bound Tyr	<i>CGS1/TS1</i>	-0.3598	0.3071
Protein-bound Tyr	<i>DHDPS1</i>	-0.2216	0.5384
Protein-bound Tyr	<i>DHDPS2</i>	0.3715	0.2905
Protein-bound Tyr	<i>DHDPSs</i>	0.1223	0.7365
Protein-bound Tyr	<i>DHDPSs/AK-HSDHs</i>	-0.2815	0.4308
Protein-bound Tyr	<i>DHDPSs/LKR-SDH1</i>	0.3178	0.3709
Protein-bound Tyr	Free (Lys+Met+Thr+Ile)/Asp	0.2206	0.5402
Protein-bound Tyr	Free Ala	0.0919	0.8007
Protein-bound Tyr	Free Arg	-0.3101	0.3833
Protein-bound Tyr	Free Asn	-0.1896	0.5999
Protein-bound Tyr	Free Asn+Asp	-0.2410	0.5025
Protein-bound Tyr	Free Asn+Asp+Lys+Met+Thr+Ile	-0.1076	0.7674
Protein-bound Tyr	Free Asn+Asp+Lys+Thr+Ile	-0.1077	0.7671
Protein-bound Tyr	Free Asp	-0.2496	0.4868
Protein-bound Tyr	Free Asp+Lys+Met+Thr+Ile	-0.0983	0.7870
Protein-bound Tyr	Free Cys	-0.2080	0.5642
Protein-bound Tyr	Free Gln	-0.2073	0.5655
Protein-bound Tyr	Free Glu	-0.2623	0.4641
Protein-bound Tyr	Free Gly	-0.1142	0.7535
Protein-bound Tyr	Free Gly/Thr	0.0010	0.9979
Protein-bound Tyr	Free Gly+Ile	-0.1095	0.7633
Protein-bound Tyr	Free His	-0.0469	0.8976
Protein-bound Tyr	Free Ile	0.0553	0.8794
Protein-bound Tyr	Free Ile/Thr	0.0986	0.7865
Protein-bound Tyr	Free Leu	-0.0836	0.8185
Protein-bound Tyr	Free Lys	-0.2191	0.5431
Protein-bound Tyr	Free Lys/(Met+Thr+Ile)	0.0321	0.9298
Protein-bound Tyr	Free Lys/Asp	0.0204	0.9554
Protein-bound Tyr	Free Lys/Thr	0.0815	0.8229
Protein-bound Tyr	Free Lys+Met+Thr+Ile	0.0003	0.9994

Protein-bound Tyr	Free Met	-0.1744	0.6298
Protein-bound Tyr	Free Met/(Thr+Ile)	-0.0209	0.9543
Protein-bound Tyr	Free Met/Thr	0.0799	0.8264
Protein-bound Tyr	Free Met+Thr+Ile	0.0083	0.9818
Protein-bound Tyr	Free Phe	0.0343	0.9250
Protein-bound Tyr	Free Pro	-0.3068	0.3886
Protein-bound Tyr	Free Ser	-0.1664	0.6459
Protein-bound Tyr	Free Thr	0.0122	0.9734
Protein-bound Tyr	Free Thr/(Gly+Ile)	0.0409	0.9106
Protein-bound Tyr	Free Thr/Asp	0.2168	0.5475
Protein-bound Tyr	Free Trp	0.0484	0.8943
Protein-bound Tyr	Free Tyr	-0.0197	0.9569
Protein-bound Tyr	Free Val	0.3404	0.3358
Protein-bound Tyr	HSDH activity with four effectors	-0.1602	0.6584
Protein-bound Tyr	HSDH activity without effectors	-0.0340	0.9256
Protein-bound Tyr	<i>LKR-SDH1</i>	-0.2408	0.5028
Protein-bound Tyr	Lys-sensitive AK activity	0.2294	0.5238
Protein-bound Tyr	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.2717	0.4476
Protein-bound Tyr	Protein-bound Ala	0.7190	0.0191
Protein-bound Tyr	Protein-bound Arg	0.1815	0.6158
Protein-bound Tyr	Protein-bound Gly	0.6333	0.0493
Protein-bound Tyr	Protein-bound His	0.5423	0.1054
Protein-bound Tyr	Protein-bound Ile	0.2436	0.4976
Protein-bound Tyr	Protein-bound Leu	0.6085	0.0619
Protein-bound Tyr	Protein-bound Lys	0.4266	0.2189
Protein-bound Tyr	Protein-bound Phe	0.3779	0.2816
Protein-bound Tyr	Protein-bound Pro	0.6402	0.0462
Protein-bound Tyr	Protein-bound Ser	0.8506	0.0018
Protein-bound Tyr	Protein-bound Thr	0.7308	0.0163
Protein-bound Tyr	<i>SAMS1</i>	0.0521	0.8862
Protein-bound Tyr	<i>SAMS2</i>	0.0970	0.7898
Protein-bound Tyr	<i>SAMS3</i>	0.3202	0.3671
Protein-bound Tyr	<i>SAMS4</i>	0.4822	0.1582
Protein-bound Tyr	<i>SAMSS</i>	0.3390	0.3380
Protein-bound Tyr	<i>TD1</i>	0.2198	0.5417
Protein-bound Tyr	<i>TD1/BCAT1</i>	-0.3237	0.3616
Protein-bound Tyr	<i>THA1</i>	-0.1907	0.5977
Protein-bound Tyr	<i>THA2</i>	0.0410	0.9104
Protein-bound Tyr	<i>THAs</i>	0.0349	0.9237
Protein-bound Tyr	<i>THAs+TD1</i>	0.2199	0.5416
Protein-bound Tyr	Thr-sensitive AK activity	0.7326	0.0160
Protein-bound Tyr	Total free AAs	-0.2167	0.5475
Protein-bound Tyr	<i>TSI</i>	0.5006	0.1406
Protein-bound Tyr	<i>TSI/(THAs+TD1)</i>	0.1923	0.5946
Protein-bound Tyr	<i>TSI/TD1</i>	0.0099	0.9784
Protein-bound Tyr	<i>TSI/THAs</i>	0.1253	0.7301
Protein-bound Val	<i>(AK-HSDHs+CGSI)/SAMSS</i>	0.3460	0.3274
Protein-bound Val	<i>(AK-HSDHs+TS1)/(THAs+TD1)</i>	0.2665	0.4567
Protein-bound Val	<i>(AK-HSDHs+TS1+TD1)/BCAT1</i>	-0.0376	0.9178
Protein-bound Val	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.1597	0.6595
Protein-bound Val	<i>(AKs+AK-HSDHs+CGSI)/SAMSS</i>	0.2405	0.5034
Protein-bound Val	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.3155	0.3745
Protein-bound Val	<i>(AKs+AK-HSDHs+TS1)/(THAs+TD1)</i>	0.4035	0.2476
Protein-bound Val	<i>(AKs+AK-HSDHs+TS1+TD1)/BCAT1</i>	-0.0289	0.9369
Protein-bound Val	<i>(AKs+DHDPSS)/LKR-SDH1</i>	0.4183	0.2290
Protein-bound Val	AK activity with four effectors	0.5176	0.1254
Protein-bound Val	AK activity without effectors	0.6148	0.0586
Protein-bound Val	AK activity/HSDH activity with four effectors	0.5690	0.0861

Protein-bound Val	AK activity/HSDH activity without effectors	0.4731	0.1673
Protein-bound Val	<i>AKI</i>	-0.4701	0.1704
Protein-bound Val	<i>AKI+AK2</i>	0.3141	0.3767
Protein-bound Val	<i>AKI+AK3</i>	-0.6943	0.0259
Protein-bound Val	<i>AK2</i>	0.4006	0.2514
Protein-bound Val	<i>AK2+AK3</i>	0.3304	0.3511
Protein-bound Val	<i>AK3</i>	-0.3338	0.3459
Protein-bound Val	<i>AK-HSDH1</i>	0.0325	0.9289
Protein-bound Val	<i>AK-HSDH2</i>	-0.2674	0.4551
Protein-bound Val	<i>AK-HSDHs</i>	-0.1550	0.6690
Protein-bound Val	<i>AK-HSDHs+CGS1</i>	0.0268	0.9413
Protein-bound Val	<i>AK-HSDHs+TSI</i>	-0.0391	0.9146
Protein-bound Val	<i>AK-HSDHs+TSI+TD1</i>	-0.0739	0.8392
Protein-bound Val	<i>AK-HSDHs+TSI+THAs</i>	-0.0325	0.9289
Protein-bound Val	<i>AKs</i>	0.2469	0.4917
Protein-bound Val	<i>AKs/AK-HSDHs</i>	0.1597	0.6595
Protein-bound Val	<i>AKs+AK-HSDHs</i>	0.2145	0.5518
Protein-bound Val	<i>AKs+AK-HSDHs+CGS1</i>	0.2539	0.4791
Protein-bound Val	<i>AKs+AK-HSDHs+DHDPSs</i>	0.1964	0.5866
Protein-bound Val	<i>AKs+AK-HSDHs+TSI</i>	0.1769	0.6250
Protein-bound Val	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.1475	0.6842
Protein-bound Val	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.1816	0.6156
Protein-bound Val	<i>AKs+DHDPSs</i>	0.2295	0.5237
Protein-bound Val	<i>BCAT1</i>	0.6035	0.0647
Protein-bound Val	Biosynthetic genes analyzed	0.1857	0.6075
Protein-bound Val	Catabolic genes analyzed	-0.2006	0.5784
Protein-bound Val	<i>CGS1</i>	0.2191	0.5430
Protein-bound Val	<i>CGS1/SAMSS</i>	0.3264	0.3573
Protein-bound Val	<i>CGS1/TSI</i>	0.2026	0.5746
Protein-bound Val	<i>DHDPS1</i>	-0.5852	0.0756
Protein-bound Val	<i>DHDPS2</i>	-0.0961	0.7918
Protein-bound Val	<i>DHDPSs</i>	-0.4359	0.2080
Protein-bound Val	<i>DHDPSs/AK-HSDHs</i>	-0.0650	0.8585
Protein-bound Val	<i>DHDPSs/LKR-SDH1</i>	-0.0603	0.8687
Protein-bound Val	Free (Lys+Met+Thr+Ile)/Asp	0.3494	0.3223
Protein-bound Val	Free Ala	-0.4389	0.2044
Protein-bound Val	Free Arg	-0.5146	0.1280
Protein-bound Val	Free Asn	-0.6273	0.0522
Protein-bound Val	Free Asn+Asp	-0.6991	0.0245
Protein-bound Val	Free Asn+Asp+Lys+Met+Thr+Ile	-0.3132	0.3782
Protein-bound Val	Free Asn+Asp+Lys+Thr+Ile	-0.3127	0.3790
Protein-bound Val	Free Asp	-0.7023	0.0236
Protein-bound Val	Free Asp+Lys+Met+Thr+Ile	-0.2807	0.4320
Protein-bound Val	Free Cys	-0.2417	0.5011
Protein-bound Val	Free Gln	-0.6664	0.0354
Protein-bound Val	Free Glu	-0.5642	0.0893
Protein-bound Val	Free Gly	-0.6656	0.0357
Protein-bound Val	Free Gly/Thr	-0.4793	0.1610
Protein-bound Val	Free Gly+Ile	-0.6654	0.0357
Protein-bound Val	Free His	-0.4306	0.2142
Protein-bound Val	Free Ile	-0.1060	0.7707
Protein-bound Val	Free Ile/Thr	-0.2158	0.5493
Protein-bound Val	Free Leu	-0.3896	0.2657
Protein-bound Val	Free Lys	-0.3507	0.3204
Protein-bound Val	Free Lys/(Met+Thr+Ile)	-0.2837	0.4271
Protein-bound Val	Free Lys/Asp	0.5330	0.1126
Protein-bound Val	Free Lys/Thr	-0.2728	0.4457
Protein-bound Val	Free Lys+Met+Thr+Ile	0.0047	0.9898

Protein-bound Val	Free Met	-0.3027	0.3953
Protein-bound Val	Free Met/(Thr+Ile)	-0.3112	0.3814
Protein-bound Val	Free Met/Thr	-0.2749	0.4421
Protein-bound Val	Free Met+Thr+Ile	0.0175	0.9616
Protein-bound Val	Free Phe	-0.3614	0.3048
Protein-bound Val	Free Pro	-0.6288	0.0515
Protein-bound Val	Free Ser	-0.7035	0.0232
Protein-bound Val	Free Thr	0.0223	0.9513
Protein-bound Val	Free Thr/(Gly+Ile)	0.1580	0.6628
Protein-bound Val	Free Thr/Asp	0.3280	0.3549
Protein-bound Val	Free Trp	-0.3609	0.3055
Protein-bound Val	Free Tyr	-0.1264	0.7278
Protein-bound Val	Free Val	-0.2145	0.5518
Protein-bound Val	HSDH activity with four effectors	-0.1780	0.6227
Protein-bound Val	HSDH activity without effectors	-0.0377	0.9176
<i>LKR-SDH1</i>		-0.2029	0.5741
Protein-bound Val	Lys-sensitive AK activity	0.6940	0.0260
Protein-bound Val	Lys-sensitive AK activity/Thr-sensitive AK activity	0.0068	0.9850
Protein-bound Val	Protein-bound Ala	0.2421	0.5003
Protein-bound Val	Protein-bound Arg	0.4695	0.1710
Protein-bound Val	Protein-bound Gly	0.3144	0.3763
Protein-bound Val	Protein-bound His	0.6006	0.0663
Protein-bound Val	Protein-bound Ile	0.6772	0.0315
Protein-bound Val	Protein-bound Leu	0.5187	0.1245
Protein-bound Val	Protein-bound Lys	0.4276	0.2177
Protein-bound Val	Protein-bound Phe	0.3245	0.3604
Protein-bound Val	Protein-bound Pro	0.2141	0.5526
Protein-bound Val	Protein-bound Ser	0.4625	0.1783
Protein-bound Val	Protein-bound Thr	0.2164	0.5481
Protein-bound Val	Protein-bound Tyr	0.5436	0.1044
<i>SAMS1</i>		-0.4695	0.1709
<i>SAMS2</i>		-0.4532	0.1884
Protein-bound Val	<i>SAMS3</i>	-0.0094	0.9795
Protein-bound Val	<i>SAMS4</i>	-0.1159	0.7499
Protein-bound Val	<i>SAMSS</i>	-0.2025	0.5748
Protein-bound Val	<i>TD1</i>	-0.3776	0.2820
Protein-bound Val	<i>TD1/BCAT1</i>	-0.0850	0.8155
Protein-bound Val	<i>THA1</i>	-0.0591	0.8712
Protein-bound Val	<i>THA2</i>	0.3441	0.3302
Protein-bound Val	<i>THAs</i>	0.3275	0.3556
Protein-bound Val	<i>THAs+TD1</i>	-0.3031	0.3946
Protein-bound Val	Thr-sensitive AK activity	0.2723	0.4466
Protein-bound Val	Total free AAs	-0.6693	0.0343
Protein-bound Val	<i>TS1</i>	0.0180	0.9607
Protein-bound Val	<i>TS1/(THAs+TD1)</i>	0.3930	0.2613
Protein-bound Val	<i>TS1/TD1</i>	0.2785	0.4359
Protein-bound Val	TS1/THAs	-0.5462	0.1023
<i>SAMS1</i>	<i>AK1</i>	-0.2895	0.4171
<i>SAMS1</i>	<i>AK2</i>	-0.2506	0.4850
<i>SAMS1</i>	<i>AK3</i>	0.3812	0.2771
<i>SAMS1</i>	<i>AK-HSDH1</i>	-0.0943	0.7954
<i>SAMS1</i>	<i>AK-HSDH2</i>	0.4696	0.1709
<i>SAMS1</i>	<i>CGS1</i>	0.3836	0.2738
<i>SAMS1</i>	<i>DHDPS1</i>	0.4308	0.2139
<i>SAMS1</i>	<i>DHDPS2</i>	0.5942	0.0701
<i>SAMS1</i>	<i>LKR-SDH1</i>	-0.0395	0.9136
<i>SAMS1</i>	<i>TD1</i>	0.8548	0.0016
<i>SAMS1</i>	<i>TS1</i>	0.3250	0.3595

<i>SAMS2</i>	<i>AK1</i>	-0.2392	0.5056
<i>SAMS2</i>	<i>AK2</i>	0.1193	0.7427
<i>SAMS2</i>	<i>AK3</i>	0.3721	0.2897
<i>SAMS2</i>	<i>AK-HSDH1</i>	-0.0104	0.9773
<i>SAMS2</i>	<i>AK-HSDH2</i>	0.2592	0.4695
<i>SAMS2</i>	<i>CGS1</i>	0.2819	0.4301
<i>SAMS2</i>	<i>DHDPS1</i>	0.8453	0.0021
<i>SAMS2</i>	<i>DHDPS2</i>	0.5009	0.1403
<i>SAMS2</i>	<i>LKR-SDH1</i>	0.3349	0.3442
<i>SAMS2</i>	<i>SAMS1</i>	0.7006	0.0240
<i>SAMS2</i>	<i>TD1</i>	0.8706	0.0010
<i>SAMS2</i>	<i>TS1</i>	0.6964	0.0253
<i>SAMS3</i>	<i>AK1</i>	0.3539	0.3158
<i>SAMS3</i>	<i>AK2</i>	-0.3061	0.3896
<i>SAMS3</i>	<i>AK3</i>	-0.1379	0.7040
<i>SAMS3</i>	<i>AK-HSDH1</i>	0.7316	0.0162
<i>SAMS3</i>	<i>AK-HSDH2</i>	0.6560	0.0394
<i>SAMS3</i>	<i>CGS1</i>	0.5249	0.1193
<i>SAMS3</i>	<i>DHDPS1</i>	-0.1945	0.5902
<i>SAMS3</i>	<i>DHDPS2</i>	0.6329	0.0495
<i>SAMS3</i>	<i>LKR-SDH1</i>	-0.8280	0.0031
<i>SAMS3</i>	<i>SAMS1</i>	0.0698	0.8480
<i>SAMS3</i>	<i>SAMS2</i>	-0.0442	0.9034
<i>SAMS3</i>	<i>TD1</i>	0.3135	0.3778
<i>SAMS3</i>	<i>TS1</i>	0.3891	0.2664
<i>SAMS4</i>	<i>AK1</i>	-0.1009	0.7816
<i>SAMS4</i>	<i>AK2</i>	-0.2734	0.4447
<i>SAMS4</i>	<i>AK3</i>	0.2312	0.5204
<i>SAMS4</i>	<i>AK-HSDH1</i>	0.6069	0.0628
<i>SAMS4</i>	<i>AK-HSDH2</i>	0.7864	0.0070
<i>SAMS4</i>	<i>CGS1</i>	0.7356	0.0153
<i>SAMS4</i>	<i>DHDPS1</i>	0.0676	0.8529
<i>SAMS4</i>	<i>DHDPS2</i>	0.8838	0.0007
<i>SAMS4</i>	<i>LKR-SDH1</i>	-0.6520	0.0411
<i>SAMS4</i>	<i>SAMS1</i>	0.5837	0.0765
<i>SAMS4</i>	<i>SAMS2</i>	0.4366	0.2071
<i>SAMS4</i>	<i>SAMS3</i>	0.7843	0.0072
<i>SAMS4</i>	<i>TD1</i>	0.7684	0.0094
<i>SAMS4</i>	<i>TS1</i>	0.6848	0.0289
<i>SAMSS</i>	<i>AK1</i>	0.1280	0.7245
<i>SAMSS</i>	<i>AK2</i>	-0.3540	0.3156
<i>SAMSS</i>	<i>AK3</i>	0.0861	0.8132
<i>SAMSS</i>	<i>AK-HSDH1</i>	0.6031	0.0649
<i>SAMSS</i>	<i>AK-HSDH2</i>	0.7847	0.0072
<i>SAMSS</i>	<i>AK-HSDHs</i>	0.8501	0.0018
<i>SAMSS</i>	<i>AKs</i>	-0.3191	0.3689
<i>SAMSS</i>	<i>AKs+AK-HSDHs</i>	-0.1062	0.7703
<i>SAMSS</i>	<i>BCAT1</i>	-0.2747	0.4424
<i>SAMSS</i>	<i>CGS1</i>	0.6521	0.0410
<i>SAMSS</i>	<i>DHDPS1</i>	0.0434	0.9052
<i>SAMSS</i>	<i>DHDPS2</i>	0.8353	0.0026
<i>SAMSS</i>	<i>DHDPSs</i>	0.6161	0.0578
<i>SAMSS</i>	<i>LKR-SDH1</i>	-0.7190	0.0191
<i>SAMSS</i>	<i>SAMS1</i>	0.5227	0.1211
<i>SAMSS</i>	<i>SAMS2</i>	0.3170	0.3722
<i>SAMSS</i>	<i>SAMS3</i>	0.8842	0.0007
<i>SAMSS</i>	<i>SAMS4</i>	0.9601	<.0001

<i>SAMSS</i>	<i>TD1</i>	0.6849	0.0289
<i>SAMSS</i>	<i>THA1</i>	-0.6945	0.0258
<i>SAMSS</i>	<i>THA2</i>	-0.2444	0.4961
<i>SAMSS</i>	<i>TSI</i>	0.5352	0.1109
<i>TD1</i>	<i>AK1</i>	-0.2114	0.5577
<i>TD1</i>	<i>AK2</i>	-0.0076	0.9833
<i>TD1</i>	<i>AK3</i>	0.3489	0.3231
<i>TD1</i>	<i>AK-HSDH1</i>	0.1391	0.7016
<i>TD1</i>	<i>AK-HSDH2</i>	0.6214	0.0552
<i>TD1</i>	<i>CGS1</i>	0.5458	0.1027
<i>TD1</i>	<i>DHDPS1</i>	0.5828	0.0770
<i>TD1</i>	<i>DHDPS2</i>	0.8171	0.0039
<i>TD1</i>	<i>TSI</i>	0.7059	0.0225
<i>TD1/BCAT1</i>	(AK-HSDHs+CGS1)/SAMSS	0.2145	0.5518
<i>TD1/BCAT1</i>	(AK-HSDHs+TSI)/(THAs+TD1)	-0.1662	0.6463
<i>TD1/BCAT1</i>	(AKs+AK-HSDHs)/AK-HSDHs	-0.2397	0.5048
<i>TD1/BCAT1</i>	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.0315	0.9312
<i>TD1/BCAT1</i>	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.1980	0.5836
<i>TD1/BCAT1</i>	(AKs+AK-HSDHs+TSI)/(THAs+TD1)	-0.2237	0.5344
<i>TD1/BCAT1</i>	(AKs+DHDPSs)/LKR-SDH1	0.1819	0.6150
<i>TD1/BCAT1</i>	<i>AK1</i>	0.0887	0.8075
<i>TD1/BCAT1</i>	<i>AK1+AK2</i>	0.1722	0.6343
<i>TD1/BCAT1</i>	<i>AK1+AK3</i>	-0.3192	0.3687
<i>TD1/BCAT1</i>	<i>AK2</i>	0.1481	0.6831
<i>TD1/BCAT1</i>	<i>AK2+AK3</i>	0.0561	0.8777
<i>TD1/BCAT1</i>	<i>AK3</i>	-0.5029	0.1385
<i>TD1/BCAT1</i>	<i>AK-HSDH1</i>	0.0358	0.9217
<i>TD1/BCAT1</i>	<i>AK-HSDH2</i>	0.4258	0.2198
<i>TD1/BCAT1</i>	<i>AK-HSDHs</i>	0.3040	0.3931
<i>TD1/BCAT1</i>	<i>AK-HSDHs+CGS1</i>	0.4658	0.1748
<i>TD1/BCAT1</i>	<i>AK-HSDHs+TSI</i>	0.4056	0.2449
<i>TD1/BCAT1</i>	<i>AK-HSDHs+TSI+TD1</i>	0.4138	0.2346
<i>TD1/BCAT1</i>	<i>AK-HSDHs+TSI+THAs</i>	0.4083	0.2414
<i>TD1/BCAT1</i>	<i>AKs</i>	0.0776	0.8314
<i>TD1/BCAT1</i>	<i>AKs/AK-HSDHs</i>	-0.2397	0.5048
<i>TD1/BCAT1</i>	<i>AKs+AK-HSDHs</i>	0.1606	0.6576
<i>TD1/BCAT1</i>	<i>AKs+AK-HSDHs+CGS1</i>	0.2778	0.4371
<i>TD1/BCAT1</i>	<i>AKs+AK-HSDHs+DHDPSs</i>	0.1800	0.6189
<i>TD1/BCAT1</i>	<i>AKs+AK-HSDHs+TSI</i>	0.3136	0.3776
<i>TD1/BCAT1</i>	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.3276	0.3554
<i>TD1/BCAT1</i>	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3128	0.3788
<i>TD1/BCAT1</i>	<i>AKs+DHDPSs</i>	0.0993	0.7848
<i>TD1/BCAT1</i>	<i>BCAT1</i>	-0.5344	0.1115
<i>TD1/BCAT1</i>	Biosynthetic genes analyzed	0.3928	0.2615
<i>TD1/BCAT1</i>	Catabolic genes analyzed	0.2680	0.4540
<i>TD1/BCAT1</i>	<i>CGS1</i>	0.5507	0.0990
<i>TD1/BCAT1</i>	<i>CGS1/SAMSS</i>	0.0319	0.9303
<i>TD1/BCAT1</i>	<i>DHDPS1</i>	0.3264	0.3573
<i>TD1/BCAT1</i>	<i>DHDPS2</i>	0.5140	0.1285
<i>TD1/BCAT1</i>	<i>DHDPSs</i>	0.5331	0.1126
<i>TD1/BCAT1</i>	<i>DHDPSs/LKR-SDH1</i>	0.3954	0.2580
<i>TD1/BCAT1</i>	<i>LKR-SDH1</i>	-0.2622	0.4642
<i>TD1/BCAT1</i>	<i>SAMS1</i>	0.2474	0.4908
<i>TD1/BCAT1</i>	<i>SAMS2</i>	0.2917	0.4135
<i>TD1/BCAT1</i>	<i>SAMS3</i>	0.1845	0.6098
<i>TD1/BCAT1</i>	<i>SAMS4</i>	0.2393	0.5054
<i>TD1/BCAT1</i>	<i>SAMSS</i>	0.2692	0.4520

<i>TDI/BCAT1</i>	<i>TD1</i>	0.3848	0.2722
<i>TDI/BCAT1</i>	<i>THA1</i>	-0.2797	0.4338
<i>TDI/BCAT1</i>	<i>THA2</i>	0.2099	0.5605
<i>TDI/BCAT1</i>	<i>THAs</i>	0.1771	0.6246
<i>TDI/BCAT1</i>	<i>THAs+TD1</i>	0.4086	0.2411
<i>TDI/BCAT1</i>	<i>TS1</i>	0.3990	0.2534
<i>TDI/BCAT1</i>	<i>TS1/(THAs+TD1)</i>	-0.2167	0.5476
<i>TDI/BCAT1</i>	<i>TS1/TD1</i>	-0.2972	0.4044
<i>TDI/BCAT1</i>	<i>TS1/THAs</i>	0.2051	0.5697
<i>THA1</i>	<i>AK1</i>	-0.1408	0.6981
<i>THA1</i>	<i>AK2</i>	-0.0187	0.9591
<i>THA1</i>	<i>AK3</i>	0.0085	0.9815
<i>THA1</i>	<i>AK-HSDH1</i>	-0.2561	0.4752
<i>THA1</i>	<i>AK-HSDH2</i>	-0.6294	0.0512
<i>THA1</i>	<i>CGS1</i>	-0.7264	0.0174
<i>THA1</i>	<i>DHDPS1</i>	0.2970	0.4047
<i>THA1</i>	<i>DHDPS2</i>	-0.5938	0.0703
<i>THA1</i>	<i>LKR-SDH1</i>	0.7715	0.0090
<i>THA1</i>	<i>SAMS1</i>	-0.1744	0.6300
<i>THA1</i>	<i>SAMS2</i>	-0.0077	0.9831
<i>THA1</i>	<i>SAMS3</i>	-0.7204	0.0188
<i>THA1</i>	<i>SAMS4</i>	-0.6378	0.0473
<i>THA1</i>	<i>TD1</i>	-0.3286	0.3539
<i>THA1</i>	<i>TS1</i>	-0.2839	0.4267
<i>THA2</i>	<i>AK1</i>	-0.5485	0.1006
<i>THA2</i>	<i>AK2</i>	0.5699	0.0855
<i>THA2</i>	<i>AK3</i>	-0.0360	0.9213
<i>THA2</i>	<i>AK-HSDH1</i>	-0.1918	0.5956
<i>THA2</i>	<i>AK-HSDH2</i>	-0.2811	0.4315
<i>THA2</i>	<i>CGS1</i>	0.4047	0.2460
<i>THA2</i>	<i>DHDPS1</i>	0.1607	0.6573
<i>THA2</i>	<i>DHDPS2</i>	-0.1055	0.7718
<i>THA2</i>	<i>LKR-SDH1</i>	0.2405	0.5032
<i>THA2</i>	<i>SAMS1</i>	-0.0547	0.8808
<i>THA2</i>	<i>SAMS2</i>	0.3112	0.3815
<i>THA2</i>	<i>SAMS3</i>	-0.2948	0.4083
<i>THA2</i>	<i>SAMS4</i>	-0.1184	0.7446
<i>THA2</i>	<i>TD1</i>	0.0908	0.8029
<i>THA2</i>	<i>THA1</i>	-0.1650	0.6488
<i>THA2</i>	<i>TS1</i>	0.3127	0.3790
<i>THAs</i>	<i>AK1</i>	-0.5194	0.1239
<i>THAs</i>	<i>AK2</i>	0.6385	0.0469
<i>THAs</i>	<i>AK3</i>	-0.0082	0.9820
<i>THAs</i>	<i>AK-HSDH1</i>	-0.3040	0.3931
<i>THAs</i>	<i>AK-HSDH2</i>	-0.3393	0.3375
<i>THAs</i>	<i>AK-HSDHs</i>	-0.3898	0.2655
<i>THAs</i>	<i>AKs</i>	0.5391	0.1079
<i>THAs</i>	<i>AKs+AK-HSDHs</i>	0.4569	0.1843
<i>THAs</i>	<i>BCAT1</i>	-0.1238	0.7334
<i>THAs</i>	<i>CGS1</i>	0.2937	0.4102
<i>THAs</i>	<i>DHDPS1</i>	0.2217	0.5381
<i>THAs</i>	<i>DHDPS2</i>	-0.1442	0.6910
<i>THAs</i>	<i>DHDPSs</i>	0.0116	0.9745
<i>THAs</i>	<i>LKR-SDH1</i>	0.3631	0.3024
<i>THAs</i>	<i>SAMS1</i>	-0.0752	0.8364
<i>THAs</i>	<i>SAMS2</i>	0.3395	0.3372
<i>THAs</i>	<i>SAMS3</i>	-0.3988	0.2536

<i>THAs</i>	<i>SAMS4</i>	-0.2084	0.5635
<i>THAs</i>	<i>SAMSS</i>	-0.3420	0.3334
<i>THAs</i>	<i>TD1</i>	0.0734	0.8403
<i>THAs</i>	<i>THA1</i>	-0.0776	0.8313
<i>THAs</i>	<i>THA2</i>	0.9853	<.0001
<i>THAs</i>	<i>TS1</i>	0.2878	0.4201
<i>THAs+TD1</i>	<i>AK1</i>	-0.3078	0.3870
<i>THAs+TD1</i>	<i>AK2</i>	0.1058	0.7711
<i>THAs+TD1</i>	<i>AK3</i>	0.3295	0.3526
<i>THAs+TD1</i>	<i>AK-HSDH1</i>	0.0907	0.8032
<i>THAs+TD1</i>	<i>AK-HSDH2</i>	0.5287	0.1161
<i>THAs+TD1</i>	<i>AK-HSDHs</i>	0.3962	0.2570
<i>THAs+TD1</i>	<i>AKs</i>	0.1017	0.7798
<i>THAs+TD1</i>	<i>AKs+AK-HSDHs</i>	0.2108	0.5587
<i>THAs+TD1</i>	<i>BCAT1</i>	-0.7561	0.0114
<i>THAs+TD1</i>	Biosynthetic genes analyzed	0.5924	0.0711
<i>THAs+TD1</i>	Catabolic genes analyzed	0.6011	0.0661
<i>THAs+TD1</i>	<i>CGS1</i>	0.5880	0.0738
<i>THAs+TD1</i>	<i>DHDPS1</i>	0.6121	0.0600
<i>THAs+TD1</i>	<i>DHDPS2</i>	0.7578	0.0111
<i>THAs+TD1</i>	<i>DHDPSs</i>	0.8914	0.0005
<i>THAs+TD1</i>	<i>LKR-SDH1</i>	-0.0329	0.9282
<i>THAs+TD1</i>	<i>SAMS1</i>	0.8094	0.0046
<i>THAs+TD1</i>	<i>SAMS2</i>	0.9108	0.0002
<i>THAs+TD1</i>	<i>SAMS3</i>	0.2282	0.5260
<i>THAs+TD1</i>	<i>SAMS4</i>	0.7045	0.0229
<i>THAs+TD1</i>	<i>SAMSS</i>	0.5972	0.0683
<i>THAs+TD1</i>	<i>TD1</i>	0.9802	<.0001
<i>THAs+TD1</i>	<i>THA1</i>	-0.3278	0.3551
<i>THAs+TD1</i>	<i>THA2</i>	0.2839	0.4266
<i>THAs+TD1</i>	<i>THAs</i>	0.2679	0.4542
<i>THAs+TD1</i>	<i>TS1</i>	0.7461	0.0132
Thr-sensitive AK activity	(AK-HSDHs+CGS1)/SAMSS	-0.1450	0.6894
Thr-sensitive AK activity	(AK-HSDHs+TS1)/(THAs+TD1)	0.3507	0.3204
Thr-sensitive AK activity	(AK-HSDHs+TS1+TD1)/BCAT1	-0.1165	0.7487
Thr-sensitive AK activity	(AKs+AK-HSDHs)/AK-HSDHs	-0.6731	0.0329
Thr-sensitive AK activity	(AKs+AK-HSDHs+CGS1)/SAMSs	-0.5630	0.0901
Thr-sensitive AK activity	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.2151	0.5506
Thr-sensitive AK activity	(AKs+AK-HSDHs+TS1)/(THAs+TD1)	-0.0105	0.9770
Thr-sensitive AK activity	(AKs+AK-HSDHs+TS1+TD1)/BCAT1	-0.1405	0.6986
Thr-sensitive AK activity	(AKs+DHDPSs)/LKR-SDH1	0.0685	0.8509
Thr-sensitive AK activity	AK activity with four effectors	-0.0753	0.8363
Thr-sensitive AK activity	AK activity without effectors	-0.0301	0.9343
Thr-sensitive AK activity	AK activity/HSDH activity with four effectors	-0.2141	0.5526
Thr-sensitive AK activity	AK activity/HSDH activity without effectors	-0.2429	0.4990
Thr-sensitive AK activity	<i>AK1</i>	-0.2532	0.4803
Thr-sensitive AK activity	<i>AK1+AK2</i>	-0.5023	0.1390
Thr-sensitive AK activity	<i>AK1+AK3</i>	-0.1250	0.7308
Thr-sensitive AK activity	<i>AK2</i>	-0.4321	0.2124
Thr-sensitive AK activity	<i>AK2+AK3</i>	-0.3956	0.2578
Thr-sensitive AK activity	<i>AK3</i>	0.1413	0.6970
Thr-sensitive AK activity	<i>AK-HSDH1</i>	0.5687	0.0863
Thr-sensitive AK activity	<i>AK-HSDH2</i>	0.3352	0.3438
Thr-sensitive AK activity	<i>AK-HSDHs</i>	0.5370	0.1095
Thr-sensitive AK activity	<i>AK-HSDHs+CGS1</i>	0.4561	0.1853
Thr-sensitive AK activity	<i>AK-HSDHs+TS1</i>	0.5097	0.1324
Thr-sensitive AK activity	<i>AK-HSDHs+TS1+TD1</i>	0.4913	0.1493

Thr-sensitive AK activity	<i>AK-HSDHs+TSI+THAs</i>	0.5006	0.1406
Thr-sensitive AK activity	<i>AKs</i>	-0.4689	0.1716
Thr-sensitive AK activity	<i>AKs/AK-HSDHs</i>	-0.6731	0.0329
Thr-sensitive AK activity	<i>AKs+AK-HSDHs</i>	-0.3466	0.3265
Thr-sensitive AK activity	<i>AKs+AK-HSDHs+CGS1</i>	-0.2623	0.4641
Thr-sensitive AK activity	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.3369	0.3411
Thr-sensitive AK activity	<i>AKs+AK-HSDHs+TSI</i>	-0.0684	0.8510
Thr-sensitive AK activity	<i>AKs+AK-HSDHs+TSI+TD1</i>	-0.0544	0.8813
Thr-sensitive AK activity	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.0742	0.8387
Thr-sensitive AK activity	<i>AKs+DHDPSS</i>	-0.4603	0.1807
Thr-sensitive AK activity	<i>BCAT1</i>	0.2526	0.4813
Thr-sensitive AK activity	Biosynthetic genes analyzed	-0.0082	0.9822
Thr-sensitive AK activity	Catabolic genes analyzed	0.4087	0.2410
Thr-sensitive AK activity	<i>CGS1</i>	0.2813	0.4311
Thr-sensitive AK activity	<i>CGS1/SAMSs</i>	-0.4061	0.2443
Thr-sensitive AK activity	<i>CGS1/TSI</i>	-0.3427	0.3324
Thr-sensitive AK activity	<i>DHDPS1</i>	-0.2646	0.4600
Thr-sensitive AK activity	<i>DHDPS2</i>	0.4587	0.1824
Thr-sensitive AK activity	<i>DHDPSs</i>	0.1495	0.6801
Thr-sensitive AK activity	<i>DHDPSs/AK-HSDHs</i>	-0.5679	0.0868
Thr-sensitive AK activity	<i>DHDPSs/LKR-SDH1</i>	0.5414	0.1061
Thr-sensitive AK activity	HSDH activity with four effectors	0.1451	0.6891
Thr-sensitive AK activity	HSDH activity without effectors	0.1835	0.6119
Thr-sensitive AK activity	<i>LKR-SDH1</i>	-0.4171	0.2305
Thr-sensitive AK activity	Lys-sensitive AK activity	-0.1994	0.5808
Thr-sensitive AK activity	<i>SAMS1</i>	0.1693	0.6400
Thr-sensitive AK activity	<i>SAMS2</i>	-0.0155	0.9660
Thr-sensitive AK activity	<i>SAMS3</i>	0.3504	0.3209
Thr-sensitive AK activity	<i>SAMS4</i>	0.5307	0.1145
Thr-sensitive AK activity	<i>SAMSs</i>	0.4076	0.2423
Thr-sensitive AK activity	<i>TD1</i>	0.2030	0.5737
Thr-sensitive AK activity	<i>TD1/BCAT1</i>	-0.1117	0.7587
Thr-sensitive AK activity	<i>THA1</i>	-0.0024	0.9947
Thr-sensitive AK activity	<i>THA2</i>	-0.4015	0.2501
Thr-sensitive AK activity	<i>THAs</i>	-0.4319	0.2126
Thr-sensitive AK activity	<i>THAs+TD1</i>	0.1161	0.7494
Thr-sensitive AK activity	<i>TSI</i>	0.4308	0.2139
Thr-sensitive AK activity	<i>TSI/(THAs+TD1)</i>	0.3397	0.3370
Thr-sensitive AK activity	<i>TSI/TD1</i>	0.1851	0.6087
Thr-sensitive AK activity	<i>TSI/THAs</i>	0.3774	0.2823
Total free AAs	<i>(AK-HSDHs+CGS1)/SAMSs</i>	-0.4226	0.2237
Total free AAs	<i>(AK-HSDHs+TSI)/(THAs+TD1)</i>	-0.6950	0.0257
Total free AAs	<i>(AK-HSDHs+TSI+TD1)/BCAT1</i>	0.2928	0.4117
Total free AAs	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	0.0759	0.8350
Total free AAs	<i>(AKs+AK-HSDHs+CGS1)/SAMSs</i>	-0.0119	0.9739
Total free AAs	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	-0.1268	0.7270
Total free AAs	<i>(AKs+AK-HSDHs+TSI)/(THAs+TD1)</i>	-0.6258	0.0529
Total free AAs	<i>(AKs+AK-HSDHs+TSI+TD1)/BCAT1</i>	0.3024	0.3958
Total free AAs	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.1379	0.7040
Total free AAs	AK activity with four effectors	-0.1964	0.5866
Total free AAs	AK activity without effectors	-0.3820	0.2759
Total free AAs	AK activity/HSDH activity with four effectors	-0.0858	0.8136
Total free AAs	AK activity/HSDH activity without effectors	0.0314	0.9314
Total free AAs	<i>AK1</i>	0.1297	0.7210
Total free AAs	<i>AK1+AK2</i>	0.1372	0.7055
Total free AAs	<i>AK1+AK3</i>	0.3986	0.2539
Total free AAs	<i>AK2</i>	0.1059	0.7710

Total free AAs	<i>AK2+AK3</i>	0.1640	0.6508
Total free AAs	<i>AK3</i>	0.3505	0.3207
Total free AAs	<i>AK-HSDH1</i>	-0.2913	0.4141
Total free AAs	<i>AK-HSDH2</i>	0.4869	0.1535
Total free AAs	<i>AK-HSDHs</i>	0.1533	0.6725
Total free AAs	<i>AK-HSDHs+CGS1</i>	0.1724	0.6340
Total free AAs	<i>AK-HSDHs+TSI</i>	0.2965	0.4055
Total free AAs	<i>AK-HSDHs+TSI+TD1</i>	0.3552	0.3138
Total free AAs	<i>AK-HSDHs+TSI+THAs</i>	0.2950	0.4079
Total free AAs	<i>AKs</i>	0.1991	0.5812
Total free AAs	<i>AKs/AK-HSDHs</i>	0.0759	0.8350
Total free AAs	<i>AKs+AK-HSDHs</i>	0.2483	0.4891
Total free AAs	<i>AKs+AK-HSDHs+CGS1</i>	0.2705	0.4498
Total free AAs	<i>AKs+AK-HSDHs+DHDPSS</i>	0.2774	0.4377
Total free AAs	<i>AKs+AK-HSDHs+TSI</i>	0.3448	0.3292
Total free AAs	<i>AKs+AK-HSDHs+TSI+TD1</i>	0.3863	0.2702
Total free AAs	<i>AKs+AK-HSDHs+TSI+THAs</i>	0.3417	0.3339
Total free AAs	<i>AKs+DHDPSS</i>	0.2307	0.5214
Total free AAs	<i>BCAT1</i>	-0.9032	0.0003
Total free AAs	Biosynthetic genes analyzed	0.3620	0.3040
Total free AAs	Catabolic genes analyzed	0.3967	0.2563
Total free AAs	<i>CGS1</i>	0.1643	0.6502
Total free AAs	<i>CGS1/SAMSS</i>	-0.3242	0.3608
Total free AAs	<i>CGS1/TSI</i>	-0.1636	0.6515
Total free AAs	<i>DHDPS1</i>	0.6898	0.0273
Total free AAs	<i>DHDPS2</i>	0.5580	0.0937
Total free AAs	<i>DHDPSs</i>	0.8164	0.0040
Total free AAs	<i>DHDPSs/AK-HSDHs</i>	0.1041	0.7747
Total free AAs	<i>DHDPSs/LKR-SDH1</i>	0.2007	0.5783
Total free AAs	Free Ala	0.7601	0.0107
Total free AAs	Free Arg	0.6492	0.0422
Total free AAs	Free Asn	0.9477	<.0001
Total free AAs	Free Asp	0.9222	0.0001
Total free AAs	Free Cys	0.5121	0.1302
Total free AAs	Free Gln	0.9326	<.0001
Total free AAs	Free Glu	0.9050	0.0003
Total free AAs	Free Gly	0.8154	0.0040
Total free AAs	Free His	0.8132	0.0042
Total free AAs	Free Ile	0.3873	0.2688
Total free AAs	Free Leu	0.7444	0.0135
Total free AAs	Free Lys	0.7577	0.0111
Total free AAs	Free Met	0.6353	0.0484
Total free AAs	Free Phe	0.6639	0.0363
Total free AAs	Free Pro	0.9278	0.0001
Total free AAs	Free Ser	0.5503	0.0993
Total free AAs	Free Thr	0.1779	0.6230
Total free AAs	Free Trp	0.5808	0.0783
Total free AAs	Free Tyr	0.3809	0.2776
Total free AAs	Free Val	0.5218	0.1219
Total free AAs	HSDH activity with four effectors	0.0826	0.8206
Total free AAs	HSDH activity without effectors	-0.2204	0.5407
Total free AAs	<i>LKR-SDH1</i>	0.1574	0.6641
Total free AAs	Lys-sensitive AK activity	-0.5124	0.1300
Total free AAs	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.0057	0.9875
Total free AAs	<i>SAMS1</i>	0.7679	0.0095
Total free AAs	<i>SAMS2</i>	0.7851	0.0071
Total free AAs	<i>SAMS3</i>	0.0522	0.8860
Total free AAs	<i>SAMS4</i>	0.3911	0.2638

Total free AAs	<i>SAMSS</i>	0.3957	0.2577
Total free AAs	<i>TDI</i>	0.8165	0.0039
Total free AAs	<i>TDI/BCAT1</i>	0.3548	0.3145
Total free AAs	<i>THA1</i>	-0.2158	0.5493
Total free AAs	<i>THA2</i>	-0.0138	0.9698
Total free AAs	<i>THAs</i>	0.0276	0.9397
Total free AAs	<i>THAs+TDI</i>	0.7870	0.0069
Total free AAs	Thr-sensitive AK activity	-0.2384	0.5071
Total free AAs	<i>TSI</i>	0.3194	0.3684
Total free AAs	<i>TSI/(THAs+TDI)</i>	-0.8161	0.0040
Total free AAs	<i>TSI/TDI</i>	-0.7720	0.0089
Total free AAs	<i>TSI/THAs</i>	0.5054	0.1362
Total protein-bound AAs	(AK-HSDHs+CGS1)/SAMSS	-0.2541	0.4787
Total protein-bound AAs	(AK-HSDHs+TSI)/(THAs+TDI)	0.3971	0.2559
Total protein-bound AAs	(AK-HSDHs+TSI+TDI)/BCAT1	-0.5145	0.1281
Total protein-bound AAs	(AKs+AK-HSDHs)/AK-HSDHs	-0.2913	0.4141
Total protein-bound AAs	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.2827	0.4287
Total protein-bound AAs	(AKs+AK-HSDHs+DHDPSS)/LKR-SDHI	-0.0528	0.8848
Total protein-bound AAs	(AKs+AK-HSDHs+TSI)/(THAs+TDI)	0.1724	0.6339
Total protein-bound AAs	(AKs+AK-HSDHs+TSI+TDI)/BCAT1	-0.5341	0.1117
Total protein-bound AAs	(AKs+DHDPSS)/LKR-SDHI	-0.1243	0.7323
Total protein-bound AAs	AK activity with four effectors	-0.0216	0.9528
Total protein-bound AAs	AK activity without effectors	0.2226	0.5365
Total protein-bound AAs	AK activity/HSDH activity with four effectors	0.0158	0.9654
Total protein-bound AAs	AK activity/HSDH activity without effectors	-0.1233	0.7344
Total protein-bound AAs	<i>AK1</i>	-0.1735	0.6316
Total protein-bound AAs	<i>AK1+AK2</i>	-0.2899	0.4165
Total protein-bound AAs	<i>AK1+AK3</i>	-0.1254	0.7299
Total protein-bound AAs	<i>AK2</i>	-0.2447	0.4957
Total protein-bound AAs	<i>AK2+AK3</i>	-0.2305	0.5217
Total protein-bound AAs	<i>AK3</i>	0.0377	0.9177
Total protein-bound AAs	<i>AK-HSDH1</i>	0.5334	0.1123
Total protein-bound AAs	<i>AK-HSDH2</i>	-0.2747	0.4425
Total protein-bound AAs	<i>AK-HSDHs</i>	0.1186	0.7441
Total protein-bound AAs	<i>AK-HSDHs+CGS1</i>	-0.0322	0.9297
Total protein-bound AAs	<i>AK-HSDHs+TSI</i>	0.2392	0.5057
Total protein-bound AAs	<i>AK-HSDHs+TSI+TDI</i>	0.2105	0.5595
Total protein-bound AAs	<i>AK-HSDHs+TSI+THAs</i>	0.2358	0.5119
Total protein-bound AAs	<i>AKs</i>	-0.2787	0.4356
Total protein-bound AAs	<i>AKs/AK-HSDHs</i>	-0.2913	0.4141
Total protein-bound AAs	<i>AKs+AK-HSDHs</i>	-0.2589	0.4701
Total protein-bound AAs	<i>AKs+AK-HSDHs+CGS1</i>	-0.2862	0.4228
Total protein-bound AAs	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.2602	0.4678
Total protein-bound AAs	<i>AKs+AK-HSDHs+TSI</i>	-0.0794	0.8273
Total protein-bound AAs	<i>AKs+AK-HSDHs+TSI+TDI</i>	-0.0848	0.8159
Total protein-bound AAs	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.0812	0.8235
Total protein-bound AAs	<i>AKs+DHDPSS</i>	-0.2820	0.4298
Total protein-bound AAs	<i>BCAT1</i>	0.6417	0.0455
Total protein-bound AAs	Biosynthetic genes analyzed	-0.1062	0.7704
Total protein-bound AAs	Catabolic genes analyzed	0.0603	0.8685
Total protein-bound AAs	<i>CGS1</i>	-0.1871	0.6048
Total protein-bound AAs	<i>CGS1/SAMSS</i>	-0.2945	0.4088
Total protein-bound AAs	<i>CGS1/TSI</i>	-0.5529	0.0974
Total protein-bound AAs	<i>DHDPS1</i>	-0.1061	0.7706
Total protein-bound AAs	<i>DHDPS2</i>	-0.0719	0.8436
Total protein-bound AAs	<i>DHDPSs</i>	-0.1115	0.7592
Total protein-bound AAs	<i>DHDPSs/AK-HSDHs</i>	-0.1971	0.5852

Total protein-bound AAs	<i>DHDPSs/LKR-SDH1</i>	0.0560	0.8780
Total protein-bound AAs	Free (Lys+Met+Thr+Ile)/Asp	0.3087	0.3854
Total protein-bound AAs	Free Ala	-0.1652	0.6483
Total protein-bound AAs	Free Arg	-0.6143	0.0588
Total protein-bound AAs	Free Asn	-0.5289	0.1160
Total protein-bound AAs	Free Asn+Asp	-0.4868	0.1537
Total protein-bound AAs	Free Asn+Asp+Lys+Met+Thr+Ile	-0.1624	0.6540
Total protein-bound AAs	Free Asn+Asp+Lys+Thr+Ile	-0.1576	0.6638
Total protein-bound AAs	Free Asp	-0.4756	0.1647
Total protein-bound AAs	Free Asp+Lys+Met+Thr+Ile	-0.1286	0.7233
Total protein-bound AAs	Free Cys	-0.2031	0.5736
Total protein-bound AAs	Free Gln	-0.5279	0.1168
Total protein-bound AAs	Free Glu	-0.5564	0.0949
Total protein-bound AAs	Free Gly	-0.2307	0.5213
Total protein-bound AAs	Free Gly/Thr	0.0906	0.8034
Total protein-bound AAs	Free Gly+Ile	-0.2331	0.5169
Total protein-bound AAs	Free His	-0.4985	0.1425
Total protein-bound AAs	Free Ile	-0.0747	0.8374
Total protein-bound AAs	Free Ile/Thr	0.1803	0.6181
Total protein-bound AAs	Free Leu	-0.4207	0.2260
Total protein-bound AAs	Free Lys	-0.5975	0.0681
Total protein-bound AAs	Free Lys/(Met+Thr+Ile)	0.0524	0.8856
Total protein-bound AAs	Free Lys/Asp	0.0197	0.9569
Total protein-bound AAs	Free Lys/Thr	0.0935	0.7972
Total protein-bound AAs	Free Lys+Met+Thr+Ile	0.0651	0.8582
Total protein-bound AAs	Free Met	-0.5676	0.0870
Total protein-bound AAs	Free Met/(Thr+Ile)	0.0303	0.9337
Total protein-bound AAs	Free Met/Thr	0.1081	0.7664
Total protein-bound AAs	Free Met+Thr+Ile	0.0870	0.8112
Total protein-bound AAs	Free Phe	-0.2803	0.4328
Total protein-bound AAs	Free Pro	-0.6190	0.0564
Total protein-bound AAs	Free Ser	-0.1352	0.7096
Total protein-bound AAs	Free Thr	0.0961	0.7917
Total protein-bound AAs	Free Thr/(Gly+Ile)	0.1192	0.7429
Total protein-bound AAs	Free Thr/Asp	0.3085	0.3858
Total protein-bound AAs	Free Trp	-0.2095	0.5614
Total protein-bound AAs	Free Tyr	-0.3254	0.3589
Total protein-bound AAs	Free Val	-0.0374	0.9183
Total protein-bound AAs	HSDH activity with four effectors	-0.2038	0.5722
Total protein-bound AAs	HSDH activity without effectors	0.1221	0.7369
Total protein-bound AAs	<i>LKR-SDH1</i>	0.0452	0.9013
Total protein-bound AAs	Lys-sensitive AK activity	0.2206	0.5403
Total protein-bound AAs	Lys-sensitive AK activity/Thr-sensitive AK activity	-0.3824	0.2755
Total protein-bound AAs	Protein-bound Ala	0.9634	<.0001
Total protein-bound AAs	Protein-bound Arg	0.4636	0.1772
Total protein-bound AAs	Protein-bound Gly	0.9009	0.0004
Total protein-bound AAs	Protein-bound His	0.3426	0.3325
Total protein-bound AAs	Protein-bound Ile	0.4820	0.1584
Total protein-bound AAs	Protein-bound Leu	0.5012	0.1400
Total protein-bound AAs	Protein-bound Lys	0.3598	0.3072
Total protein-bound AAs	Protein-bound Phe	0.3079	0.3867
Total protein-bound AAs	Protein-bound Pro	0.9638	<.0001
Total protein-bound AAs	Protein-bound Ser	0.9434	<.0001
Total protein-bound AAs	Protein-bound Thr	0.9471	<.0001
Total protein-bound AAs	Protein-bound Tyr	0.7450	0.0134
Total protein-bound AAs	Protein-bound Val	0.3924	0.2620
Total protein-bound AAs	<i>SAMS1</i>	-0.2572	0.4732
Total protein-bound AAs	<i>SAMS2</i>	-0.0828	0.8202

Total protein-bound AAs	<i>SAMS3</i>	0.1698	0.6391
Total protein-bound AAs	<i>SAMS4</i>	0.1432	0.6931
Total protein-bound AAs	<i>SAMSs</i>	0.0567	0.8763
Total protein-bound AAs	<i>TD1</i>	-0.1227	0.7356
Total protein-bound AAs	<i>TD1/BCAT1</i>	-0.5280	0.1167
Total protein-bound AAs	<i>THA1</i>	0.3264	0.3573
Total protein-bound AAs	<i>THA2</i>	-0.2071	0.5660
Total protein-bound AAs	<i>THAs</i>	-0.2057	0.5687
Total protein-bound AAs	<i>THAs+TD1</i>	-0.1497	0.6798
Total protein-bound AAs	Thr-sensitive AK activity	0.6575	0.0388
Total protein-bound AAs	Total free AAs	-0.4911	0.1494
Total protein-bound AAs	<i>TS1</i>	0.2612	0.4661
Total protein-bound AAs	<i>TS1/(THAs+TD1)</i>	0.4909	0.1497
Total protein-bound AAs	<i>TS1/TD1</i>	0.3054	0.3909
Total protein-bound AAs	<i>TS1/THAs</i>	0.1358	0.7083
<i>TS1</i>	<i>AK1</i>	-0.2479	0.4899
<i>TS1</i>	<i>AK2</i>	0.0905	0.8037
<i>TS1</i>	<i>AK3</i>	0.1299	0.7206
<i>TS1</i>	<i>AK-HSDH1</i>	0.5200	0.1234
<i>TS1</i>	<i>AK-HSDH2</i>	0.4521	0.1896
<i>TS1</i>	<i>CGS1</i>	0.6356	0.0482
<i>TS1</i>	<i>DHDPS1</i>	0.4429	0.1998
<i>TS1</i>	<i>DHDPS2</i>	0.7143	0.0203
<i>TS1/(THAs+TD1)</i>	(AK-HSDHs+CGS1)/SAMSS	0.2838	0.4268
<i>TS1/(THAs+TD1)</i>	(AKs+AK-HSDHs)/AK-HSDHs	-0.2952	0.4077
<i>TS1/(THAs+TD1)</i>	(AKs+AK-HSDHs+CGS1)/SAMSS	-0.0775	0.8315
<i>TS1/(THAs+TD1)</i>	(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1	0.3367	0.3414
<i>TS1/(THAs+TD1)</i>	(AKs+DHDPSs)/LKR-SDH1	0.2941	0.4095
<i>TS1/(THAs+TD1)</i>	<i>AK1</i>	0.2572	0.4732
<i>TS1/(THAs+TD1)</i>	<i>AK1+AK2</i>	-0.1075	0.7676
<i>TS1/(THAs+TD1)</i>	<i>AK1+AK3</i>	0.0102	0.9777
<i>TS1/(THAs+TD1)</i>	<i>AK2</i>	-0.1581	0.6626
<i>TS1/(THAs+TD1)</i>	<i>AK2+AK3</i>	-0.2013	0.5771
<i>TS1/(THAs+TD1)</i>	<i>AK3</i>	-0.2845	0.4256
<i>TS1/(THAs+TD1)</i>	<i>AK-HSDH1</i>	0.4957	0.1451
<i>TS1/(THAs+TD1)</i>	<i>AK-HSDH2</i>	-0.1930	0.5932
<i>TS1/(THAs+TD1)</i>	<i>AK-HSDHs</i>	0.1536	0.6719
<i>TS1/(THAs+TD1)</i>	<i>AK-HSDHs+CGS1</i>	-0.0061	0.9867
<i>TS1/(THAs+TD1)</i>	<i>AK-HSDHs+TS1</i>	-0.0015	0.9968
<i>TS1/(THAs+TD1)</i>	<i>AK-HSDHs+TS1+TD1</i>	-0.0683	0.8513
<i>TS1/(THAs+TD1)</i>	<i>AK-HSDHs+TS1+THAs</i>	-0.0046	0.9900
<i>TS1/(THAs+TD1)</i>	<i>AKs</i>	-0.1571	0.6648
<i>TS1/(THAs+TD1)</i>	<i>AKs/AK-HSDHs</i>	-0.2952	0.4077
<i>TS1/(THAs+TD1)</i>	<i>AKs+AK-HSDHs</i>	-0.1242	0.7324
<i>TS1/(THAs+TD1)</i>	<i>AKs+AK-HSDHs+CGS1</i>	-0.1565	0.6658
<i>TS1/(THAs+TD1)</i>	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.1431	0.6933
<i>TS1/(THAs+TD1)</i>	<i>AKs+AK-HSDHs+TS1</i>	-0.1288	0.7228
<i>TS1/(THAs+TD1)</i>	<i>AKs+AK-HSDHs+TS1+TD1</i>	-0.1688	0.6411
<i>TS1/(THAs+TD1)</i>	<i>AKs+AK-HSDHs+TS1+THAs</i>	-0.1302	0.7199
<i>TS1/(THAs+TD1)</i>	<i>AKs+DHDPSs</i>	-0.1773	0.6240
<i>TS1/(THAs+TD1)</i>	<i>BCAT1</i>	0.8581	0.0015
<i>TS1/(THAs+TD1)</i>	Biosynthetic genes analyzed	-0.1611	0.6565
<i>TS1/(THAs+TD1)</i>	Catabolic genes analyzed	-0.2229	0.5359
<i>TS1/(THAs+TD1)</i>	<i>CGS1</i>	-0.1796	0.6195
<i>TS1/(THAs+TD1)</i>	<i>CGS1/SAMSS</i>	0.0103	0.9775
<i>TS1/(THAs+TD1)</i>	<i>DHDPS1</i>	-0.5005	0.1407
<i>TS1/(THAs+TD1)</i>	<i>DHDPS2</i>	-0.3170	0.3721

TS1/(THAs+TD1)	DHDPSs	-0.5288	0.1161
<i>TS1/(THAs+TD1)</i>	<i>DHDPSs/LKR-SDH1</i>	0.0392	0.9143
<i>TS1//(THAs+TD1)</i>	<i>LKR-SDH1</i>	-0.2442	0.4966
TS1/(THAs+TD1)	SAMS1	-0.8267	0.0032
TS1/(THAs+TD1)	SAMS2	-0.6527	0.0408
<i>TS1/(THAs+TD1)</i>	<i>SAMS3</i>	0.1751	0.6284
<i>TS1/(THAs+TD1)</i>	<i>SAMS4</i>	-0.2376	0.5086
<i>TS1//(THAs+TD1)</i>	<i>SAMSs</i>	-0.2217	0.5381
TS1/(THAs+TD1)	TD1	-0.6912	0.0268
<i>TS1/(THAs+TD1)</i>	<i>THA1</i>	0.1206	0.7400
<i>TS1//(THAs+TD1)</i>	<i>THA2</i>	-0.2076	0.5650
<i>TS1/(THAs+TD1)</i>	<i>THAs</i>	-0.2229	0.5358
TS1/(THAs+TD1)	THAs+TD1	-0.7041	0.0230
<i>TS1/(THAs+TD1)</i>	<i>TSI</i>	-0.0671	0.8539
TS1/(THAs+TD1)	TSI/TD1	0.9369	<.0001
<i>TS1//(THAs+TD1)</i>	<i>TSI/THAs</i>	-0.2056	0.5688
<i>TS1/TD1</i>	<i>(AK-HSDHs+CGS1)/SAMSs</i>	0.3531	0.3170
<i>TS1/TD1</i>	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.2201	0.5411
<i>TS1/TD1</i>	<i>(AKs+AK-HSDHs+CGS1)/SAMSs</i>	0.0046	0.9900
<i>TS1/TD1</i>	<i>(AKs+AK-HSDHs+DHDPSs)/LKR-SDH1</i>	0.4533	0.1883
<i>TS1/TD1</i>	<i>(AKs+DHDPSs)/LKR-SDH1</i>	0.4130	0.2355
<i>TS1/TD1</i>	<i>AK1</i>	0.2782	0.4364
<i>TS1/TD1</i>	<i>AK1+AK2</i>	-0.0624	0.8640
<i>TS1/TD1</i>	<i>AK1+AK3</i>	0.1667	0.6453
<i>TS1/TD1</i>	<i>AK2</i>	-0.1186	0.7441
<i>TS1/TD1</i>	<i>AK2+AK3</i>	-0.1327	0.7148
<i>TS1/TD1</i>	<i>AK3</i>	-0.1112	0.7598
TS1/TD1	AK-HSDH1	0.4384	0.2050
<i>TS1/TD1</i>	<i>AK-HSDH2</i>	-0.0919	0.8007
<i>TS1/TD1</i>	<i>AK-HSDHs</i>	0.1861	0.6066
<i>TS1/TD1</i>	<i>AK-HSDHs+CGS1</i>	0.0099	0.9784
<i>TS1/TD1</i>	<i>AK-HSDHs+TSI</i>	-0.1127	0.7566
<i>TS1/TD1</i>	<i>AK-HSDHs+TSI+TD1</i>	-0.1761	0.6265
<i>TS1/TD1</i>	<i>AK-HSDHs+TSI+THAs</i>	-0.1171	0.7473
<i>TS1/TD1</i>	<i>AKs</i>	-0.0811	0.8237
<i>TS1/TD1</i>	<i>AKs/AK-HSDHs</i>	-0.2201	0.5411
<i>TS1/TD1</i>	<i>AKs+AK-HSDHs</i>	-0.0363	0.9206
<i>TS1/TD1</i>	<i>AKs+AK-HSDHs+CGS1</i>	-0.0754	0.8359
<i>TS1/TD1</i>	<i>AKs+AK-HSDHs+DHDPSs</i>	-0.0600	0.8692
<i>TS1/TD1</i>	<i>AKs+AK-HSDHs+TSI</i>	-0.1358	0.7083
<i>TS1/TD1</i>	<i>AKs+AK-HSDHs+TSI+TD1</i>	-0.1779	0.6230
<i>TS1/TD1</i>	<i>AKs+AK-HSDHs+TSI+THAs</i>	-0.1375	0.7047
<i>TS1/TD1</i>	<i>AKs+DHDPSs</i>	-0.1056	0.7715
TS1/TD1	BCAT1	0.8040	0.0051
<i>TS1/TD1</i>	Biosynthetic genes analyzed	-0.1716	0.6356
<i>TS1/TD1</i>	Catabolic genes analyzed	-0.2176	0.5459
<i>TS1/TD1</i>	<i>CGS1</i>	-0.1852	0.6084
<i>TS1/TD1</i>	<i>CGS1/SAMSs</i>	0.0399	0.9128
TS1/TD1	DHDPS1	-0.6112	0.0605
<i>TS1/TD1</i>	<i>DHDPS2</i>	-0.3746	0.2862
TS1/TD1	DHDPSs	-0.6302	0.0508
<i>TS1/TD1</i>	<i>DHDPSs/LKR-SDH1</i>	0.0421	0.9080
<i>TS1/TD1</i>	<i>LKR-SDH1</i>	-0.3073	0.3878
TS1/TD1	SAMS1	-0.8175	0.0039
TS1/TD1	SAMS2	-0.7313	0.0162
<i>TS1/TD1</i>	<i>SAMS3</i>	0.1868	0.6053
<i>TS1/TD1</i>	<i>SAMS4</i>	-0.2550	0.4771

<i>TS1/TDI</i>	<i>SAMSS</i>	-0.2152	0.5505
<i>TS1/TDI</i>	<i>TDI</i>	-0.7315	0.0162
<i>TS1/TDI</i>	<i>THA1</i>	0.0273	0.9403
<i>TS1/TDI</i>	<i>THA2</i>	-0.2309	0.5209
<i>TS1/TDI</i>	<i>THAs</i>	-0.2618	0.4650
<i>TS1/TDI</i>	<i>THAs+TDI</i>	-0.7533	0.0119
<i>TS1/TDI</i>	<i>TS1</i>	-0.2282	0.5259
<i>TS1/THAs</i>	<i>(AK-HSDHs+CGS1)/SAMSS</i>	-0.6274	0.0521
<i>TS1/THAs</i>	<i>(AKs+AK-HSDHs)/AK-HSDHs</i>	-0.7343	0.0156
<i>TS1/THAs</i>	<i>(AKs+AK-HSDHs+CGS1)/SAMSS</i>	-0.6867	0.0283
<i>TS1/THAs</i>	<i>(AKs+AK-HSDHs+DHDPSS)/LKR-SDH1</i>	0.1736	0.6316
<i>TS1/THAs</i>	<i>(AKs+DHDPSS)/LKR-SDH1</i>	-0.0326	0.9287
<i>TS1/THAs</i>	<i>AK1</i>	0.3162	0.3734
<i>TS1/THAs</i>	<i>AK1+AK2</i>	-0.4512	0.1906
<i>TS1/THAs</i>	<i>AK1+AK3</i>	0.4189	0.2282
<i>TS1/THAs</i>	<i>AK2</i>	-0.5004	0.1407
<i>TS1/THAs</i>	<i>AK2+AK3</i>	-0.4576	0.1836
<i>TS1/THAs</i>	<i>AK3</i>	0.1593	0.6602
<i>TS1/THAs</i>	<i>AK-HSDH1</i>	0.6001	0.0666
<i>TS1/THAs</i>	<i>AK-HSDH2</i>	0.6773	0.0314
<i>TS1/THAs</i>	<i>AK-HSDHs</i>	0.7782	0.0080
<i>TS1/THAs</i>	<i>AK-HSDHs+CGS1</i>	0.5973	0.0682
<i>TS1/THAs</i>	<i>AK-HSDHs+TS1</i>	0.6310	0.0504
<i>TS1/THAs</i>	<i>AK-HSDHs+TS1+TDI</i>	0.6506	0.0416
<i>TS1/THAs</i>	<i>AK-HSDHs+TS1+THAs</i>	0.6180	0.0569
<i>TS1/THAs</i>	<i>AKs</i>	-0.4141	0.2341
<i>TS1/THAs</i>	<i>AKs/AK-HSDHs</i>	-0.7343	0.0156
<i>TS1/THAs</i>	<i>AKs+AK-HSDHs</i>	-0.2239	0.5340
<i>TS1/THAs</i>	<i>AKs+AK-HSDHs+CGS1</i>	-0.1471	0.6851
<i>TS1/THAs</i>	<i>AKs+AK-HSDHs+DHDPSS</i>	-0.1941	0.5911
<i>TS1/THAs</i>	<i>AKs+AK-HSDHs+TS1</i>	0.0510	0.8888
<i>TS1/THAs</i>	<i>AKs+AK-HSDHs+TS1+TDI</i>	0.0920	0.8003
<i>TS1/THAs</i>	<i>AKs+AK-HSDHs+TS1+THAs</i>	0.0424	0.9074
<i>TS1/THAs</i>	<i>AKs+DHDPSS</i>	-0.3838	0.2735
<i>TS1/THAs</i>	<i>BCAT1</i>	-0.3605	0.3062
<i>TS1/THAs</i>	Biosynthetic genes analyzed	0.1155	0.7508
<i>TS1/THAs</i>	Catabolic genes analyzed	0.8527	0.0017
<i>TS1/THAs</i>	<i>CGS1</i>	0.2879	0.4198
<i>TS1/THAs</i>	<i>CGS1/SAMSS</i>	-0.8705	0.0010
<i>TS1/THAs</i>	<i>DHDPS1</i>	0.3619	0.3042
<i>TS1/THAs</i>	<i>DHDPS2</i>	0.6853	0.0287
<i>TS1/THAs</i>	<i>DHDPSs</i>	0.7095	0.0216
<i>TS1/THAs</i>	<i>DHDPSs/LKR-SDH1</i>	0.7567	0.0113
<i>TS1/THAs</i>	<i>LKR-SDH1</i>	-0.4012	0.2505
<i>TS1/THAs</i>	<i>SAMS1</i>	0.5403	0.1069
<i>TS1/THAs</i>	<i>SAMS2</i>	0.4464	0.1960
<i>TS1/THAs</i>	<i>SAMS3</i>	0.7083	0.0219
<i>TS1/THAs</i>	<i>SAMS4</i>	0.7958	0.0059
<i>TS1/THAs</i>	<i>SAMSS</i>	0.8530	0.0017
<i>TS1/THAs</i>	<i>TDI</i>	0.6777	0.0313
<i>TS1/THAs</i>	<i>THA1</i>	-0.2923	0.4125
<i>TS1/THAs</i>	<i>THA2</i>	-0.4954	0.1454
<i>TS1/THAs</i>	<i>THAs</i>	-0.5535	0.0970
<i>TS1/THAs</i>	<i>THAs+TDI</i>	0.5523	0.0978
<i>TS1/THAs</i>	<i>TS1</i>	0.4809	0.1594
<i>TS1/THAs</i>	<i>TS1/TDI</i>	-0.2150	0.5508

Supplemental Table S6. Primers used in this study

Primer	Sequence	Use
AK-HSDH2_5'L	5'-TGG TCC TAT TAT TTG CGC CTT C-3'	Amplifying sequencing template
AK-HSDH2_5'R	5'-CGC CTT AAC GCT ATC TTC ACG-3'	Amplifying sequencing template
AK-HSDH2_3'L	5'-TGC TTT GCT GTG CCT GAG AAG-3'	Amplifying sequencing template
AK-HSDH2_3'R	5'-GTA TCT TCG AAG TTC AAC TGT TC-3'	Amplifying sequencing template
SALK_082155LP	5'-TTG GAT GAG CAG CTT AGA ACC-3'	Genotyping
SALK_082155RP	5'-TGT TCC AAC ACA CAA TTC CAG-3'	Genotyping
Exon2_L	5'-CCG AAA GAA AAC TTG TGG TTG TC-3'	Amplifying restriction enzyme digestion substrate
Exon4_R	5'-AGC ACC CAT AAT AGC TGC TG-3'	Amplifying restriction enzyme digestion substrate
SALK_059678LP	5'-ACC CAA ATC AAA GAT ATT GCC-3'	Genotyping
SALK_059678RP	3'-TGA ATC GAA CAG AGT TTG ATG AG-3'	Genotyping
SALK_019023LP	5'-TGC TCC TTT TTA TTA AAT ATC AAA TCG-3'	Genotyping
SALK_019023RP	5'-AAA ACC CTT CTG TTT GTG CAG-3'	Genotyping
WiscDsLox461-464J6LP	5'-AGCCGAGCTAGCTTATTTGG-3'	Genotyping
WiscDsLox461-464J6RP	5'-TTG CCA AGT CTG GGT TGT ATC-3'	Genotyping
SALK_003685LP	5'-CTC CAA GCT CAT GAG CAG TTC-3'	Genotyping
SALK_003685RP	5'-TTG AAT CTG AAC CGT CCA TTC-3'	Genotyping
SALK_043533LP	5'-TGA GAT CGG GAT TAT CAC CAC-3'	Genotyping
SALK_043533RP	5'-TGA TCA AGC TCC TGT CAC ATG-3'	Genotyping
SALK_125957LP	5'-AGC TGT TCT AGA ATC GGG AGC-3'	Genotyping
SALK_125957RP	5'-TTC CAG TCC AGA ATC TTG TGC-3'	Genotyping
LBa1	5'-TGG TTC ACG TAG TGG GCC ATC G-3'	Genotyping
p745	5'-AAC GTC CGC AAT GTG TTA TTA AGT TGT C-3	Genotyping
AK1_L	5'-GAA CTG ATT CAA CAG GAG CTT-3'	qRT-PCR
AK1_R	5'-AAA GAA CAT GAA ACG CCC TC-3'	qRT-PCR
AK2_L	5'-CTA TCA GCA ATG GGA AAG AC-3'	qRT-PCR
AK2_R	5'-GAG CAG TTC TTA AAT GGA GTT C-3'	qRT-PCR
AK3_L	5'-ACT CCA TAT AAG GAC TGC TC-3'	qRT-PCR
AK3_R	5'-GCA TTC TCC AAA TGA AAC CA-3'	qRT-PCR
AK-HSDH1_L	5'-AGC AGG AGA AGT CTT GAG AT-3'	qRT-PCR
AK-HSDH1_R	5'-GTT TGG TTG TGA AAG CGA TG-3'	qRT-PCR
AK-HSDH2_L	5'-CTC GTA CCA GAA CCT CTA AA-3'	qRT-PCR
AK-HSDH2_R	5'-CAC CAC TCC AAC ATA TCT CA-3'	qRT-PCR
DHDPS1_L	5'-TGA TCT CCA TTG ATT CTG CC-3'	qRT-PCR
DHDPS1_R	5'-CAT AGG AAG ATG GAA GTT AGG T-3'	qRT-PCR
DHDPS2_L	5'-GGT TAT GGC TTG TGT TCT ATG-3'	qRT-PCR
DHDPS2_R	5'-GCA TTG GGA GAT GGA AAT TG-3'	qRT-PCR
CGS1_L	5'-CAA CAG AAT TCG ACC GCT TT-3'	qRT-PCR
CGS1_R	5'-AAA CTG ACC ACA CCT CCA AA-3'	qRT-PCR
TS1_L	5'-GTA TTG TAG AAG AAG CCA CAG-3'	qRT-PCR
TS1_R	5'-TTG ATT CCT CAG CTT GAA CA-3'	qRT-PCR
TD1_L	5'-GCA ACC TGT ATT CTC GTT TAA G-3'	qRT-PCR
TD1_R	5'-TAG CAG ATA AAG CAA CTC CT-3'	qRT-PCR
LKR-SDH_L	5'-AAC CAT TTC GTC ACA GCA AT-3'	qRT-PCR
LKR-SDH_R	5'-GAA ATA CCT TCA ACC GTC TCT T-3'	qRT-PCR
SAMS1_L	5'-GAG CCA TTG TCT GTC TTT GT-3'	qRT-PCR
SAMS1_R	5'-TCA AGA ACC TTC CGT TTC CT-3'	qRT-PCR
SAMS2_L	5'-TCA AAC CAA TCA TCC CAG AGA A-3'	qRT-PCR
SAMS2_R	5'-CCA TCC TCC GTA TGT GTC AA-3'	qRT-PCR
SAMS3_L	5'-CTG AGC CAT TGT CTG TGT TC-3'	qRT-PCR
SAMS3_R	5'-AAC CTA CCA TTA CCT CCT CTC-3'	qRT-PCR
SAMS4_L	5'-GCT ATG ATT CCG ATT AGA GTC C-3'	qRT-PCR
SAMS4_R	5'-AAG ATG GTG TTA TCG TCA AGG T-3'	qRT-PCR
THA1_L	5'-TCA AGA ATG AAG AAG ACG GG-3'	qRT-PCR
THA1_R	5'-TAT TCC ACG CTC AAA CAT CT-3'	qRT-PCR
THA2_L	5'-GAT TGG TGC TAT TGA AGC TG-3'	qRT-PCR
THA2_R	5'-CTT GGC TAA TTC TCC GAC TT-3'	qRT-PCR
BCAT1_L	5'-TGT ATC TCA GAC CGT TGT TG-3'	qRT-PCR
BCAT1_R	5'-GAA TCA CCT CCT CCA CAT AC-3'	qRT-PCR