

Supplementary Table III. Relative metabolite content of fully expanded leaves from 8-week-old plants of the SCoAL transgenic lines. Metabolites were determined as described in the Materials and Methods. Data are normalised with respect to the mean response calculated for the wild type. Values are presented as mean \pm SE of determinations on six individual plants per line. Values set in bold type were determined by the *t*-test to be significantly different ($P < 0.05$) from the wild type. nd means not determined.

Metabolites	WT	AL18	RL40	RL25
<i>Amino-acids</i>				
Asparagine	1.00 \pm 0.30	0.43 \pm 0.12	nd	1.88 \pm 0.31
Aspartate	1.00 \pm 0.28	0.62 \pm 0.19	1.10 \pm 0.19	1.10 \pm 0.20
β -alanine	1.00 \pm 0.16	0.77 \pm 0.15	nd	1.04 \pm 0.14
Cysteine	1.00 \pm 0.13	1.41 \pm 0.11	nd	1.17 \pm 0.09
Glutamine	1.00 \pm 0.31	0.44 \pm 0.20	1.33 \pm 0.26	1.09 \pm 0.26
Glycine	1.00 \pm 0.13	1.20 \pm 0.13	1.04 \pm 0.06	1.37 \pm 0.13
Isoleucine	1.00 \pm 0.14	0.98 \pm 0.10	1.17 \pm 0.13	1.44 \pm 0.18
Leucine	1.00 \pm 0.17	1.26 \pm 0.14	1.18 \pm 0.13	1.57 \pm 0.19
Serine	1.00 \pm 0.17	0.86 \pm 0.20	1.00 \pm 0.12	1.22 \pm 0.16
Threonine	1.00 \pm 0.12	0.78 \pm 0.05	1.04 \pm 0.10	1.02 \pm 0.15
Tryptophan	1.00 \pm 0.21	1.30 \pm 0.15	0.84 \pm 0.12	1.17 \pm 0.35
Tyrosine	1.00 \pm 0.25	1.62 \pm 0.22	1.30 \pm 0.13	1.38 \pm 0.24
Valine	1.00 \pm 0.12	1.09 \pm 0.10	1.13 \pm 0.09	1.38 \pm 0.19
<i>Organic acids</i>				
Citramalate	1.00 \pm 0.15	1.06 \pm 0.08	0.86 \pm 0.30	1.12 \pm 0.16
Dehydroascorbate	1.00 \pm 0.26	1.40 \pm 0.08	0.97 \pm 0.11	1.13 \pm 0.13
Galacturonate	1.00 \pm 0.34	0.28 \pm 0.33	nd	1.19 \pm 0.21
Gluconate	1.00 \pm 0.26	1.24 \pm 0.17	1.61 \pm 0.16	1.90 \pm 0.15
Glycerate	1.00 \pm 0.25	1.03 \pm 0.16	1.01 \pm 0.09	1.13 \pm 0.19
Maleate	1.00 \pm 0.20	1.80 \pm 0.15	1.23 \pm 0.12	1.09 \pm 0.13
Nicotinate	1.00 \pm 0.25	0.92 \pm 0.14	1.09 \pm 0.06	1.14 \pm 0.16
Saccharate	1.00 \pm 0.18	0.72 \pm 0.09	0.94 \pm 0.15	0.35 \pm 0.02
Shikimate	1.00 \pm 0.06	1.21 \pm 0.11	1.09 \pm 0.08	1.34 \pm 0.12
Threonate	1.00 \pm 0.23	1.17 \pm 0.10	1.26 \pm 0.06	1.18 \pm 0.08
<i>Sugars and sugars alcohols</i>				
Arabinose	1.00 \pm 0.18	0.91 \pm 0.20	0.84 \pm 0.16	1.21 \pm 0.24
Fructose	1.00 \pm 0.16	0.79 \pm 0.09	0.96 \pm 0.09	0.76 \pm 0.14
Galactose	1.00 \pm 0.12	0.90 \pm 0.16	0.91 \pm 0.09	1.36 \pm 0.18
Glucose	1.00 \pm 0.22	0.61 \pm 0.13	0.78 \pm 0.12	0.66 \pm 0.22
Glycerol	1.00 \pm 0.08	0.78 \pm 0.10	1.04 \pm 0.02	1.02 \pm 0.05
Inositol	1.00 \pm 0.11	1.02 \pm 0.03	0.92 \pm 0.06	1.25 \pm 0.12
Isomaltose	1.00 \pm 0.15	1.10 \pm 0.08	1.13 \pm 0.09	0.98 \pm 0.13
Maltose	1.00 \pm 0.11	1.04 \pm 0.17	0.98 \pm 0.02	1.02 \pm 0.10
Mannitol	1.00 \pm 0.19	0.33 \pm 0.08	1.12 \pm 0.09	0.33 \pm 0.12
Mannose	1.00 \pm 0.25	0.68 \pm 0.24	1.04 \pm 0.19	0.80 \pm 0.15
Rhamnose	1.00 \pm 0.12	0.85 \pm 0.04	0.97 \pm 0.10	1.04 \pm 0.12
Sucrose	1.00 \pm 0.12	1.13 \pm 0.12	1.02 \pm 0.05	1.15 \pm 0.04
Trehalose	1.00 \pm 0.14	1.57 \pm 0.38	1.76 \pm 0.11	1.22 \pm 0.14
Xylose	1.00 \pm 0.15	0.71 \pm 0.17	0.83 \pm 0.12	1.13 \pm 0.26
<i>Others</i>				
Dopamine	1.00 \pm 0.25	1.41 \pm 0.05	0.96 \pm 0.16	1.71 \pm 0.08
Tyramine	1.00 \pm 0.11	1.28 \pm 0.11	1.25 \pm 0.11	1.18 \pm 0.20
Pyroglutamic	1.00 \pm 0.14	0.81 \pm 0.08	0.99 \pm 0.10	1.32 \pm 0.10

