

Supplemental Table S1. Metabolite accumulation between wild type and SLICE1-overexpressing red fruits (#70).

ID	Compound name	Relative area				Ratio
		WT		SLICE1 (#74)		
		Mean	S.D.	Mean	S.D.	
C_0086	Cys-Gly	N.D.	N.A.	1.50E-05	N.A.	1<
C_0058	Histidinol	8.10E-06	N.A.	4.90E-05	3.50E-05	6
C_0105	γ -Glu-2-aminobutyric acid	2.90E-05	1.30E-05	1.50E-04	2.00E-05	5.1
C_0027	Pro	1.70E-02	8.70E-03	5.60E-02	6.10E-03	3.2
C_0093	Gly-Leu	3.00E-05	1.10E-05	7.90E-05	3.30E-05	2.6
C_0002	Isobutylamine	8.90E-05	2.30E-05	2.30E-04	1.40E-05	2.6
C_0112	Glycerophosphocholine	4.70E-04	2.90E-05	1.20E-03	2.20E-05	2.6
C_0052	Adenine	1.90E-05	2.90E-06	4.50E-05	2.50E-05	2.3
C_0007	Isoamylamine	3.50E-04	5.10E-05	8.00E-04	1.40E-05	2.3
C_0037	2-Amino-2-(hydroxymethyl)-1,3-propanedio	7.30E-05	3.50E-05	1.60E-04	6.10E-05	2.2
A_0022	Dihydroxyacetone phosphate	8.10E-05	2.10E-05	1.80E-04	1.10E-04	2.2
C_0004	Isopropanolamine	9.00E-05	7.30E-06	2.00E-04	3.50E-06	2.2
C_0024	Histamine	4.10E-03	2.10E-03	9.00E-03	5.20E-03	2.2
C_0088	Glucosamine	3.10E-05	1.40E-05	6.50E-05	1.50E-05	2.1
C_0040	N-Methylproline	3.60E-05	3.80E-06	7.60E-05	7.00E-06	2.1
A_0066	Digalacturonic acid	1.50E-04	7.30E-05	3.10E-04	4.30E-05	2.1
C_0077	3-Methoxytyramine	3.20E-05	2.50E-05	6.30E-05	1.60E-06	2
C_0018	N-Ethylglycine	3.40E-05	N.A.	6.90E-05	8.60E-07	2
C_0067	Guanine	7.00E-05	5.00E-06	1.40E-04	6.70E-05	2
C_0046	Ile	2.20E-02	4.30E-03	4.50E-02	1.10E-02	2
C_0078	Pyridoxamine	1.60E-04	2.80E-05	3.00E-04	2.10E-05	1.9
A_0053	N-Acetylglucosamine 6-phosphate	3.80E-05	3.90E-06	6.80E-05	1.20E-05	1.8
A_0023	Glycerol 3-phosphate	1.40E-03	1.90E-04	2.40E-03	3.00E-04	1.8
C_0031	2,4-Diaminobutyric acid	2.10E-05	2.50E-06	3.50E-05	3.10E-06	1.7
A_0073	Trehalose 6-phosphate	8.80E-05	3.30E-05	1.50E-04	9.40E-06	1.7
C_0121	N α -Benzenol arginine ethylester	1.10E-04	1.20E-04	1.90E-04	5.20E-05	1.7
C_0123	S-Adenosylmethionine	1.40E-04	6.70E-07	2.30E-04	6.00E-06	1.7
C_0061	Spermidine	1.90E-04	3.50E-05	3.20E-04	1.60E-05	1.7
C_0009	β -Ala	2.50E-03	1.50E-03	4.20E-03	1.70E-04	1.7
C_0038	2-Phenylethylamine	1.10E-04	1.50E-05	1.70E-04	1.70E-06	1.6
C_0082	N5-Ethylglutamine	1.40E-04	4.90E-05	2.30E-04	3.40E-05	1.6
A_0086	NAD+	1.40E-04	9.40E-07	2.20E-04	2.10E-05	1.6
C_0020	GABA	3.50E-03	1.00E-03	5.80E-03	8.30E-04	1.6
C_0073	2-Amino adipic acid	1.00E-04	1.50E-06	1.60E-04	6.50E-05	1.6
A_0029	2-Phosphoglyceric acid	6.40E-05	2.30E-05	9.90E-05	5.90E-05	1.6
A_0019	Phosphoenolpyruvic acid	7.50E-05	1.20E-05	1.20E-04	5.10E-05	1.6
C_0116	Saccharopine	1.70E-05	2.90E-06	2.50E-05	3.70E-06	1.5
C_0033	Thr	1.50E-02	1.80E-03	2.30E-02	1.50E-03	1.5
A_0060	Fructose 1,6-diphosphate	7.60E-05	1.60E-06	1.10E-04	1.70E-05	1.5
C_0109	Pyridoxamine 5'-phosphate	1.60E-05	1.70E-06	2.50E-05	7.10E-07	1.5
A_0030	3-Phosphoglyceric acid	3.70E-04	2.60E-05	5.60E-04	3.00E-04	1.5
C_0039	Imidazole-4-acetic acid	9.80E-05	2.60E-05	1.50E-04	5.40E-05	1.5
A_0011	Succinic acid	2.00E-04	2.40E-06	3.00E-04	2.50E-05	1.5
C_0098	SDMA	4.90E-05	5.40E-06	6.80E-05	1.20E-05	1.4
A_0075	ADP	2.30E-04	2.60E-05	3.20E-04	9.00E-05	1.4
C_0022	Hypotaurine	2.90E-04	4.00E-05	4.10E-04	6.20E-05	1.4
C_0032	Homoserine	6.10E-04	7.40E-05	8.60E-04	2.50E-04	1.4
C_0102	N-Acetylglucosamine	1.00E-03	2.20E-04	1.40E-03	1.80E-04	1.4
C_0065	Glu	4.60E-03	4.00E-04	6.30E-03	3.30E-04	1.4
C_0003	Gly	5.60E-03	1.50E-03	7.90E-03	1.50E-03	1.4
C_0083	Arg	2.30E-02	5.50E-04	3.30E-02	2.50E-03	1.4
A_0012	5-Oxoproline	2.30E-02	9.00E-03	3.20E-02	7.30E-03	1.4
C_0076	Phe	2.60E-02	4.70E-03	3.70E-02	1.10E-02	1.4
C_0047	Leu	3.20E-02	8.40E-03	4.60E-02	7.10E-03	1.4

Supplemental Table S1. Metabolite accumulation between wild type and SLICE1-overexpressing red fruits (#70).

ID	Compound name	Relative area				Ratio
		WT		SLICE1 (#74)		
		Mean	S.D.	Mean	S.D.	
C_0122	Glutathione (GSH)	6.10E-03	7.00E-04	8.40E-03	1.00E-03	1.4
C_0015	Azetidine 2-carboxylic acid	2.10E-03	1.30E-03	3.00E-03	1.40E-03	1.4
A_0044	Fructose 6-phosphate	1.10E-03	1.00E-04	1.60E-03	5.70E-04	1.4
C_0029	5-Aminovaleric acid	4.70E-04	5.80E-05	6.70E-04	8.60E-05	1.4
C_0005	Trimethylamine N-oxide	1.10E-05	3.20E-06	1.60E-05	5.00E-06	1.4
C_0087	S-Carboxymethylcysteine	2.50E-04	7.30E-05	3.60E-04	1.90E-05	1.4
	2'-CMP	5.40E-04	5.80E-05	7.00E-04	1.50E-04	1.3
C_0059	Ectoine	9.70E-06	2.80E-06	1.30E-05	1.20E-06	1.3
C_0006	Cysteamine	1.30E-05	4.30E-07	1.70E-05	3.50E-06	1.3
C_0049	Thiaproline	7.80E-05	2.30E-05	9.90E-05	1.70E-05	1.3
C_0097	ADMA	2.20E-04	2.40E-05	2.80E-04	3.10E-05	1.3
C_0068	Dopamine	2.60E-04	1.20E-04	3.30E-04	1.50E-04	1.3
C_0094	N ω -Methylarginine	4.30E-04	6.50E-05	5.60E-04	6.50E-05	1.3
C_0056	Tyramine	1.80E-03	7.90E-04	2.40E-03	1.50E-03	1.3
C_0063	O-Acetylserine	2.80E-03	3.50E-04	3.50E-03	3.10E-04	1.3
C_0114	Adenosine	3.70E-03	1.80E-04	4.60E-03	3.90E-04	1.3
C_0011	Ala	3.80E-03	9.90E-04	4.90E-03	7.50E-04	1.3
C_0050	Asn	4.50E-03	1.10E-04	5.60E-03	5.10E-04	1.3
C_0054	Trigonelline	7.20E-03	3.00E-03	9.40E-03	1.30E-03	1.3
C_0030	Val	1.80E-02	2.50E-03	2.20E-02	6.90E-03	1.3
C_0021	Ser	2.30E-02	2.20E-03	3.00E-02	4.60E-03	1.3
C_0062	Lys	2.80E-02	4.80E-04	3.60E-02	1.70E-03	1.3
A_0041	Ribose 5-phosphate	2.00E-04	2.50E-05	2.60E-04	4.70E-05	1.3
A_0045	Glucose 6-phosphate	3.80E-03	3.80E-04	4.90E-03	1.60E-03	1.3
A_0015	Ethanolamine phosphate	2.10E-04	9.90E-06	2.70E-04	8.10E-05	1.3
C_0023	Cytosine	1.80E-05	2.60E-06	2.10E-05	1.60E-06	1.2
C_0013	4-Methyl-1,2,5-oxadiazol-3-amine	9.40E-05	4.80E-06	1.10E-04	6.90E-06	1.2
C_0043	Hydroxyproline	1.60E-04	7.10E-05	1.90E-04	1.60E-05	1.2
C_0092	N6-Acetyllysine	2.80E-04	2.10E-06	3.50E-04	5.10E-05	1.2
A_0065	GMP	7.90E-04	4.80E-05	9.30E-04	1.70E-04	1.2
C_0095	N6,N6,N6-Trimethyllysine	1.60E-03	4.30E-04	1.90E-03	1.50E-04	1.2
C_0107	Cytidine	4.00E-03	7.70E-04	4.70E-03	1.80E-04	1.2
C_0064	Gln	1.60E-02	7.00E-04	1.90E-02	1.20E-03	1.2
C_0051	Asp	1.80E-02	2.50E-03	2.20E-02	8.50E-04	1.2
C_0069	His	2.80E-02	2.80E-03	3.50E-02	4.50E-03	1.2
A_0040	Ribulose 5-phosphate	2.00E-04	2.20E-05	2.40E-04	9.40E-05	1.2
C_0119	Argininosuccinic acid	1.50E-05	5.40E-06	1.90E-05	2.60E-06	1.2
A_0007	3-Hydroxybutyric acid	2.10E-05	N.A.	2.60E-05	4.20E-07	1.2
A_0033	Quinic acid	5.50E-03	2.50E-04	6.80E-03	2.00E-03	1.2
A_0037	6,8-Thioctic acid	1.10E-03	1.60E-05	1.30E-03	9.70E-05	1.2
A_0025	Shikimic acid	7.10E-05	1.10E-05	8.40E-05	1.90E-05	1.2
A_0031	Citric acid	2.80E-01	1.20E-01	3.30E-01	5.70E-02	1.2
C_0041	Pipecolic acid	1.80E-03	1.70E-04	2.00E-03	1.20E-04	1.2
A_0087	NADP+	2.00E-05	1.30E-06	2.30E-05	1.70E-06	1.1
C_0014	Homoserinelactone	2.40E-05	6.60E-06	2.70E-05	1.00E-05	1.1
C_0012	3-Aminopropane-1,2-diol	6.00E-05	9.90E-06	6.80E-05	1.70E-06	1.1
C_0081	3-Methylhistidine	8.10E-05	1.60E-05	8.60E-05	7.60E-06	1.1
C_0110	γ -Glu-Cys	1.20E-04	1.80E-05	1.30E-04	1.60E-05	1.1
A_0057	CMP	3.80E-04	4.80E-05	4.20E-04	2.60E-05	1.1
C_0034	2-Methylserine	6.40E-04	9.80E-06	6.80E-04	3.50E-05	1.1
C_0066	Met	2.10E-03	3.20E-04	2.20E-03	3.70E-04	1.1
C_0118	Guanosine	3.70E-03	3.30E-04	3.90E-03	5.30E-04	1.1
C_0008	Putrescine	8.90E-03	4.40E-04	1.00E-02	2.40E-03	1.1
C_0074	S-Methylmethionine	1.10E-02	3.80E-04	1.30E-02	3.40E-03	1.1
A_0063	AMP	1.10E-02	3.70E-04	1.20E-02	3.20E-03	1.1
C_0120	Glutathione (GSSG)_divalent	3.00E-04	1.60E-04	3.20E-04	5.40E-05	1.1

Supplemental Table S1. Metabolite accumulation between wild type and SLICE1-overexpressing red fruits (#70).

ID	Compound name	Relative area				Ratio
		WT		SLICE1 (#74)		
		Mean	S.D.	Mean	S.D.	
A_0052	N-Acetylglucosamine 1-phosphate	1.30E-04	3.10E-05	1.50E-04	8.80E-06	1.1
A_0032	Isocitric acid	4.60E-03	1.00E-03	4.90E-03	1.30E-03	1.1
C_0096	Gly-Asp	2.40E-05	2.70E-06	2.50E-05	1.10E-06	1
A_0076	GDP	2.80E-05	2.70E-06	2.90E-05	2.90E-06	1
C_0091	N8-Acetylspermidine	5.00E-05	7.20E-06	4.90E-05	1.50E-05	1
A_0071	UDP	9.00E-05	2.70E-05	9.10E-05	3.90E-06	1
C_0111	Dyphylline	1.30E-04	1.30E-06	1.30E-04	7.40E-06	1
C_0117	1-Methyladenosine	1.90E-04	6.20E-05	1.90E-04	2.80E-06	1
C_0071	Ala-Ala	3.20E-04	1.30E-04	3.10E-04	9.60E-06	1
A_0082	ATP	3.70E-04	7.10E-05	3.70E-04	4.30E-06	1
C_0072	Tryptamine	9.50E-04	3.30E-04	9.70E-04	5.90E-04	1
C_0085	Serotonin	1.20E-03	3.40E-04	1.20E-03	1.80E-05	1
C_0108	Uridine	2.60E-03	7.50E-05	2.60E-03	1.10E-04	1
C_0090	Phosphorylcholine	4.60E-03	3.40E-04	4.60E-03	2.90E-04	1
A_0042	Xylulose 5-phosphate	3.00E-04	4.10E-05	2.90E-04	4.30E-05	1
A_0050	Sedoheptulose 7-phosphate	3.20E-04	1.60E-06	3.10E-04	7.80E-05	1
A_0026	Ascorbic acid	1.20E-02	4.80E-03	1.30E-02	9.60E-04	1
C_0016	2-Aminobutyric acid	1.70E-03	3.10E-04	1.70E-03	4.00E-04	1
A_0005	Malonic acid	7.80E-04	4.70E-05	7.70E-04	1.00E-04	1
A_0014	Threonic acid	1.10E-03	5.90E-04	1.00E-03	4.50E-04	1
C_0035	Betaine aldehyde_+H2O	9.20E-06	N.A.	9.00E-06	N.A.	1
C_0124	Cysteine glutathione disulphide	1.40E-04	4.10E-05	1.50E-04	8.10E-06	1
C_0104	2'-Deoxycytidine	2.60E-05	8.20E-06	2.40E-05	5.40E-06	0.9
C_0115	Inosine	4.40E-05	N.A.	3.70E-05	9.70E-06	0.9
C_0080	Pyridoxine	8.80E-05	3.50E-05	7.80E-05	5.80E-06	0.9
A_0085	UDP-N-acetylglucosamine	1.20E-04	3.00E-06	1.10E-04	8.90E-06	0.9
A_0062	3'-AMP	1.40E-04	2.20E-06	1.30E-04	5.40E-05	0.9
A_0080	UTP	1.70E-04	2.80E-06	1.60E-04	2.30E-05	0.9
C_0025	Uracil	2.20E-04	2.70E-06	2.00E-04	2.00E-05	0.9
A_0058	UMP	4.20E-03	5.80E-04	3.70E-03	1.40E-04	0.9
C_0100	Trp	7.00E-03	2.50E-03	6.50E-03	1.00E-04	0.9
A_0047	Galacturonate 1-phosphate	8.90E-05	1.10E-05	8.40E-05	6.80E-06	0.9
A_0046	Glucose 1-phosphate	3.00E-03	3.40E-04	2.50E-03	1.50E-04	0.9
C_0045	6-Aminohexanoic acid	1.30E-04	1.50E-05	1.20E-04	1.10E-05	0.9
A_0018	Terephthalic acid	1.80E-04	4.80E-06	1.60E-04	9.50E-06	0.9
C_0070	Imidazolelactic acid	6.60E-05	5.20E-06	6.10E-05	8.60E-06	0.9
A_0051	N-Acetylmuramic acid	1.70E-04	5.70E-05	1.60E-04	3.50E-06	0.9
C_0075	Methionine sulfoxide	2.10E-04	4.00E-05	1.90E-04	4.20E-05	0.9
C_0079	Noradrenaline	1.70E-05	N.A.	1.40E-05	6.90E-06	0.8
C_0101	Kynurenine	2.50E-05	4.60E-06	2.00E-05	6.30E-06	0.8
A_0083	GTP	3.60E-05	5.70E-06	2.90E-05	5.50E-06	0.8
A_0049	Xanthosine	2.90E-04	1.60E-04	2.30E-04	1.20E-05	0.8
C_0042	N-Acetylputrescine	2.00E-03	8.30E-05	1.70E-03	1.10E-04	0.8
C_0036	Cys	7.40E-03	2.60E-03	6.00E-03	1.10E-03	0.8
C_0019	Choline	3.60E-02	1.10E-02	3.00E-02	3.80E-03	0.8
A_0054	Ribulose 1,5-diphosphate	8.50E-05	1.50E-05	6.70E-05	6.20E-06	0.8
A_0043	2-Deoxyglucose 6-phosphate	1.10E-04	3.80E-05	9.40E-05	2.10E-07	0.8
A_0020	Uric acid	1.30E-04	1.30E-04	1.00E-04	1.70E-05	0.8
A_0035	Gluconic acid	4.20E-03	4.70E-04	3.40E-03	5.00E-04	0.8
A_0008	Glyceric acid	1.50E-04	9.10E-06	1.20E-04	6.60E-05	0.8
A_0034	Glucuronic acid	2.80E-02	7.90E-03	2.20E-02	6.60E-03	0.8
C_0060	Stachydrine	2.10E-05	4.20E-06	1.60E-05	N.A.	0.7
A_0079	CTP	2.60E-05	3.00E-06	1.90E-05	N.A.	0.7
	UDP-galactose	2.80E-03	1.20E-04	2.00E-03	3.70E-05	0.7
C_0048	Ornithine	3.70E-04	8.50E-05	2.40E-04	8.90E-06	0.7
C_0028	Betaine	1.50E-03	4.40E-04	9.80E-04	1.40E-04	0.7

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ID	Compound name	Relative area				Ratio
		WT		SLICE1 (#74)		
		Mean	S.D.	Mean	S.D.	
C_0084	Citrulline	2.20E-03	5.40E-04	1.60E-03	2.50E-06	0.7
C_0089	Tyr	3.00E-02	3.50E-04	2.20E-02	1.70E-03	0.7
A_0013	Malic acid	1.30E-02	1.70E-03	9.10E-03	1.30E-03	0.7
A_0028	4-Pyridoxic acid	1.40E-04	2.40E-05	9.10E-05	2.90E-06	0.7
A_0017	Citramalic acid	3.00E-04	7.30E-05	1.60E-04	8.70E-06	0.6
C_0106	Cystine	2.20E-04	1.10E-04	1.10E-04	2.70E-05	0.5
A_0038	Mucic acid	1.30E-03	4.10E-04	6.60E-04	1.10E-04	0.5
A_0027	2-Isopropylmalic acid	1.50E-04	1.50E-04	7.50E-05	N.A.	0.5
C_0113	Thiamine	2.90E-05	N.A.	1.20E-05	1.30E-06	0.4
C_0001	Urea	1.50E-03	8.90E-04	6.00E-04	1.40E-04	0.4
A_0039	Glucaric acid	7.70E-04	9.10E-05	3.20E-04	1.80E-06	0.4
A_0004	Lactic acid	2.10E-03	1.40E-03	5.40E-04	8.70E-05	0.3
A_0009	Fumaric acid	1.90E-04	N.A.	N.D.	N.A.	<1
C_0057	1-Methyl-4-imidazoleacetic acid	3.00E-05	1.10E-05	N.D.	N.A.	<1

N.D.: not detected.N.A.: not available.