

**Table S2.** Genes id, primer sequences and Real-time PCR amplicons size.

<i>Gene name</i>	<i>Gene id</i>	<i>Primer sequence (5'-3')</i>	<i>Amplicon size (bp)</i>
<b><i>L-galactose pathway</i><sup>1</sup></b>			
<i>GDP-mannose pyrophosphorylase (GMP)</i>	Cs7g31960	GMP-Fw-ggtgcatgagagtgtctcaaa GMP-Rev-tacagtgcagcgagagagtc	109
<i>GDP-mannose-3,5-epimerase (GME)</i> <sup>2</sup>	Cs3g10840	GME-Fw-gcctccagtgcctgcatct GME-Rev-ggcatcagactccttcaagctt	72
<i>GDP-L-galactose-pyrophosphorylase (GGP)</i>	Cs4g09870	GGP-Fw-agtacgggcatgtgctgttg GGP-Rev-caagaagctatcacggtaatcc	74
<i>L-galactose-1-phosphate phosphatase (GPP)</i> <sup>3</sup>	Cs2g02090.1	GPP-Fw-tcttgacactgcagttgatg GPP-Rev-tctgtgacaaatccacctg	80
<i>GDP-L-galactose dehydrogenase (GDH)</i>	Cs8g03180	GDH-Fw-ggcgttccgagaaatgagta GDH-Rev-ggattttccctcttctcttc	229
<i>L-galactono-1,4-lactone dehydrogenase (GLDH)</i>	orange1.1t00763	GLDH-Fw-caccgcctctcttcaacaa GLDH-Rev-tgagagcgtacggattgaaggt	69
<b><i>L-gulose pathway</i></b>			
<i>L-gulonolactone oxidase 6 (GulLO)</i> <sup>4</sup>	XM_006491294.1	GulLO-Fw-aggacccaatgactccaagg GulLO-Rev-ccatacttgaacaccgcgag	73
<b><i>Myo-inositol pathway</i><sup>1</sup></b>			
<i>Inositol oxygenase (MyoOx)</i>	Cs3g02580.1	MyoOx-Fw-cttattcagaaggccgtgga MyoOx-Rev-cccgtgtgaaggcatagaaa	150
<i>Inositol-3-phosphate synthase (MyoIPS)</i>	Cs1g01700	MyoIFS-Fw-ctcttttgctgctccaatc MyoIFS-Rev-gttgttctcaggagccaagc	245
<b><i>Galacturonate pathway</i><sup>1,5</sup></b>			
<i>Galacturonic acid reductase8 (GalUR8)</i>	Cs1g07420.1	GalUR8-Fw-tccctccttccatcaatcag GalUR8-Rev-gacattcatgcccttgacct	90
<i>Galacturonic acid reductase10 (GalUR10)</i>	orange1.1t00001.2	GalUR10-Fw-ggagaagcaatcgatgaagc GalUR10-Rev-tgagcgtcattcaaccagag	92
<i>Galacturonic acid reductase12 (GalUR12)</i>	orange1.1t01634.1	GalUR12-Fw-ggtgggtttatcagcaagga GalUR12-Rev-tcggcacttaattccaatc	100
<b><i>Recycling pathway</i><sup>1</sup></b>			
<i>Monodehydroascorbate reductase (MDHAR)</i>	Cs5g03080	MDHAR-Fw tccctctggtgtcctcagtc MDHAR-Rev-tgagtatgcgacgacaaagc	92
<i>Glutathione S-transferase DHAR3 (DHAR3)</i>	Cs6g17520	DHAR-Fw-ctgagaaggcttcagtcgga DHAR-Rev-atgcctgctcagatccatca	170
<b><i>Degradation pathway</i><sup>1</sup></b>			
<i>Ascorbate oxidase (AO)</i> <sup>3</sup>	Cs2g29090.1	AO-Fw-cgggttcactaagtgggcta AO-Rev-tggaggtttcatcacgtcatac	151
<i>L-ascorbate peroxidase2 (APX2)</i>	Cs6g04140	APX2-Fw-tcagttggctggagttgttg APX2-Rev-tcagattgtccggtcttcc	81
<i>L-ascorbate peroxidase3 (APX3)</i>	Cs8g02730	APX3-Fw-ttaccggctcgttgacacaga APX3-Rev-acgtagacggagcatgatt	109

<sup>1</sup> All genes were evaluated on juice and leaves.<sup>2</sup> The gene GME was previously evaluated in Yang et al., 2011.<sup>3</sup> Primers are the same used in Alos et al., 2014.<sup>4</sup> The expression of this gene was evaluated only on the juice.<sup>5</sup> For this pathway, was evaluated three isoforms of the same gene, as described by Xu et al., 2012.