

Table 9 Expression of the key genes of starch and sucrose metabolism under low-temperature stress

Enzyme	Name	Abbreviation	FPKM			(T0 T1) Genes expression	(T0 T2) Genes expression	Gene ID
			T0	T1	T2			
EC:2.4.1.15	Trehalose 6-phosphate synthase	TPS	30.24	70.41	103.89	UP	UP	c22439
EC:2.4.1.15	Trehalose 6-phosphate synthase	TPS	19.23	39.55	78.8	UP	UP	c37455
EC:2.4.1.15	Trehalose 6-phosphate synthase	TPS	2.84	9.42	28.39	UP	UP	c31293
EC:3.1.3.12	Trehalose 6-phosphate phosphatase	TPP	3.58	9.11	3.94	UP	–	c21588
EC:2.7.1.1	Hexokinase	HK	1.25	2.8	6.64	–	UP	c30615
EC:3.2.1.2	beta-amylase	BAL	69.65	448.56	754.81	UP	UP	c36048
EC:3.2.1.2	beta-amylase	BAL	34.08	147.57	1050.72	UP	UP	c36010
EC:2.7.7.27	Glucose-1-phosphate adenylyltransferase	/	26.23	172.87	18.53	UP	–	c16507
EC:2.4.1.1	Glycogen phosphorylase	PYG	40.18	101.63	55.08	UP	–	c36980
EC:3.2.1.39	Glucan 3-beta-glucosidase	endo-1, /	28.6	14.69	6.94	–	DOWN	c20139