

表 9 低温胁迫下冰菜淀粉与蔗糖代谢途径关键基因差异表达情况

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

酶 Enzyme	名称 Name	简称 Abbreviation	FPKM			(T0 T1)基因表达 (T0 T2)基因表达		基因 ID Gene ID
			T0	T1	T2	(T0 T1) expression	(T0 T2) expression	
EC:2.4.1.15	海藻糖 6-磷酸合酶 Trehalose 6-phosphate synthase	TPS	30.24	70.41	103.89	UP	UP	c22439
EC:2.4.1.15	海藻糖 6-磷酸合酶 Trehalose 6-phosphate synthase	TPS	19.23	39.55	78.8	UP	UP	c37455
EC:2.4.1.15	海藻糖 6-磷酸合酶 Trehalose 6-phosphate synthase	TPS	2.84	9.42	28.39	UP	UP	c31293
EC:3.1.3.12	海藻糖-6-磷酸酯酶 Trehalose 6-phosphate phosphatase	TPP	3.58	9.11	3.94	UP	-	c21588
EC:2.7.1.1	己糖激酶 Hexokinase	HK	1.25	2.8	6.64	-	UP	c30615
EC:3.2.1.2	$\beta$ -淀粉酶 beta-amylase	BAL	69.65	448.56	754.81	UP	UP	c36048
EC:3.2.1.2	$\beta$ -淀粉酶 beta-amylase	BAL	34.08	147.57	1050.72	UP	UP	c36010
EC:2.7.7.27	葡萄糖-1-磷酸腺苷酰转移酶 Glucose-1-phosphate adenylyltransferase	/	26.23	172.87	18.53	UP	-	c16507
EC:2.4.1.1	糖原磷酸化酶 Glycogen phosphorylase	PYG	40.18	101.63	55.08	UP	-	c36980
EC:3.2.1.39	葡萄糖内酯-1,3- $\beta$ 葡萄糖苷酶 Glucan endo-1,3-beta-glucosidase	/	28.6	14.69	6.94	-	DOWN	c20139

注:“-”: 无上调或下调表达

Note:“-”: No up-regulation or down-regulation expression