

Table 7 comparisons of DEGs KOG annotation by low temperature stress treatment

KOG	Function classification	T0vsT1	T0vsT2	Differences of DEGs (T0vsT2)-(T0vsT1)
A	RNA processing and modification	6	16	10
C	Energy production and conversion	13	41	28
D	Cell cycle control, cell division, chromosome	10	24	14
E	Amino acid transport and metabolism	22	40	18
G	Carbohydrate transport and metabolism	28	68	40
I	Lipid transport and metabolism	21	50	29
K	Transcription	31	38	7
L	Replication, recombination and repair	5	21	16
M	Cell wall/membrane/envelope biogenesis	9	15	6
O	Posttranslational modification, protein turnover, chaperones	46	94	48
Q	Secondary metabolites biosynthesis, transport and catabolism	40	68	28
R	General function prediction only	83	151	68
S	Function unknown	15	29	14
T	Signal transduction mechanisms	72	77	5
U	Intracellular trafficking, secretion, and vesicular transport	12	19	7
V	Defense mechanisms	5	16	11
Z	Cytoskeleton	11	25	14