

Table S2 The top 20 upregulated and downregulated DEGs

NO.	Gene ID	Log ₂ FC	Description	Type
1	Phyca11_506019	11.21	\	up
2	Phyca11_125614	10.65	\	up
3	Phyca11_511541	9.35	Carbohydrate transport and metabolism	up
4	Phyca11_503305	9.09	\	up
5	Phyca11_56147	7.69	Inorganic ion transport and metabolism, Major Facilitator Superfamily	up
6	NewGene_2781	7.57	\	up
7	Phyca11_20969	7.50	Carbohydrate transport and metabolism	up
8	NewGene_1802	6.99	Chromatin structure and dynamics	up
9	Phyca11_503401	6.86	Lipid transport and metabolism, Secondary metabolites biosynthesis, transport and catabolism	up
10	Phyca11_505145	6.72	Carbohydrate transport and metabolism	up
11	Phyca11_538155	6.59	Energy production and conversion, NADH:flavin oxidoreductase / NADH oxidase family	up
12	Phyca11_120662	6.50	Amino acid transport and metabolism, Amino Acid/Auxin Permease (AAP) Family	up
13	Phyca11_526626	6.46	Carbohydrate transport and metabolism	up
14	Phyca11_131975	6.35	Intracellular trafficking, secretion, and vesicular transport	up
15	Phyca11_104391	6.32	Energy production and conversion, Aldo/keto reductase family	up
16	Phyca11_551335	6.30	Amino acid transport and metabolism	up
17	Phyca11_562643	6.27	Questin oxidase-like	up
18	Phyca11_546202	6.24	Carbohydrate transport and metabolism	up
19	Phyca11_552928	6.05	Lipid transport and metabolism	up
20	Phyca11_104372	5.94	Energy production and conversion, Aldo/keto reductase family	up
21	Phyca11_118190	-12.34	\	down
22	Phyca11_511993	-11.92	\	down
23	Phyca11_124948	-11.64	Translation initiation factor eIF3 subunit 135	down
24	Phyca11_109356	-11.47	\	down
25	NewGene_3119	-10.83	\	down
26	Phyca11_575164	-10.75	Cutinase, Carbohydrate transport and metabolism	down
27	NewGene_2264	-10.74	\	down
28	Phyca11_100920	-10.73	Replication, recombination and repair	down
29	Phyca11_506319	-10.64	\	down
30	NewGene_2539	-10.56	Signal transduction mechanisms	down
31	Phyca11_10798	-10.54	\	down
32	NewGene_1662	-10.42	\	down
33	Phyca11_558487	-10.37	\	down
34	Phyca11_122133	-10.02	\	down
35	Phyca11_504825	-10.00	\	down
36	Phyca11_107852	-9.99	Posttranslational modification, protein turnover, chaperones, Glycosyl transferase family 41	down
37	Phyca11_98599	-9.94	\	down
38	Phyca11_545015	-9.91	Glycosyltransferase (GlcNAc), Signal transduction mechanisms	down
39	Phyca11_60287	-9.89	Signal transduction mechanisms	down
40	Phyca11_18448	-9.85	\	down