

Table S16. GO enrichment analysis of downregulated CC genes.

Class	GO_Name	GO_ID	P_val ue	Enrichment Score	HitsGenesCountsInSe lectedSet	HitsGenesCountsInBa ckground	AllGenesCountsInSe lectedSet	AllGenesCountsInBa ckground	correc ted p- value
Molecular function	salt transmembrane transporter activity	GO:1901702	8.11E-05	10.61	5	48	29	2955	0.02
Molecular function	monoatomic ion transmembrane transporter activity	GO:0015075	0.01	3.61	5	141	29	2955	0.08
Molecular function	sequence-specific double-stranded DNA binding	GO:1990837	0.00	4.81	5	106	29	2955	0.08
Molecular function	inorganic molecular entity transmembrane transporter activity	GO:0015318	0.01	4.04	5	126	29	2955	0.09
Molecular function	transmembrane transporter activity	GO:0022857	0.00	3.55	7	201	29	2955	0.09
Molecular function	sequence-specific DNA binding	GO:0043565	0.01	3.80	5	134	29	2955	0.09
Molecular function	transporter activity	GO:0005215	0.01	3.04	7	235	29	2955	0.09
Molecular function	cation binding	GO:0043169	0.01	3.23	6	189	29	2955	0.09
Molecular function	ATP hydrolysis activity	GO:0016887	0.03	2.47	6	248	29	2955	0.10
Molecular function	metal ion binding	GO:0046872	0.03	2.80	5	182	29	2955	0.10
Molecular function	double-stranded DNA binding	GO:0003690	0.02	3.09	5	165	29	2955	0.10
Molecular function	ATP-dependent activity	GO:0140657	0.04	2.26	6	270	29	2955	0.11
Cellular component	plasma membrane	GO:0005886	0.00	3.26	9	287	32	3329	0.16

Biological process	monoatomic cation homeostasis	GO:0055080	0.00	5.30	5	104	31	3415	0.24
Biological process	cellular homeostasis	GO:0019725	0.01	3.58	5	154	31	3415	0.24
Biological process	intracellular monoatomic ion homeostasis	GO:0006873	0.00	5.10	5	108	31	3415	0.24
Biological process	intracellular monoatomic cation homeostasis	GO:0030003	0.00	5.45	5	101	31	3415	0.25
Cellular component	obsolete intrinsic component of membrane	GO:0031224	0.00	2.26	12	552	32	3329	0.25
Biological process	monoatomic ion homeostasis	GO:0050801	0.00	4.83	5	114	31	3415	0.27
Biological process	transmembrane transport	GO:0055085	0.01	2.61	7	295	31	3415	0.28
Biological process	monoatomic ion transmembrane transport	GO:0034220	0.02	3.03	5	182	31	3415	0.29
Cellular component	cell periphery	GO:0071944	0.03	1.95	9	481	32	3329	0.30
Cellular component	obsolete membrane part	GO:0044425	0.03	1.66	13	816	32	3329	0.31
Biological process	homeostatic process	GO:0042592	0.04	2.54	5	217	31	3415	0.34
Biological process	intracellular chemical homeostasis	GO:0055082	0.01	4.27	5	129	31	3415	0.41
Biological process	chemical homeostasis	GO:0048878	0.01	3.96	5	139	31	3415	0.42