

Supplemental Table S1. Up-regulated gene by the overexpression of *CRCT* analyzed by microarray.

Top 50 of up-regulated genes showing average signal intensity of Cyanine-3 and Cyanine-5 above 10 and $P < 0.05$ are listed. Ratio of change and signal average are expressed as means of four replicates.

Rank	Description	RAP-DB	Ratio of change	Signal av.	P-value
1	Hypothetical protein.	Os07g0511400	501.42	6896.13	0.005
2	Conserved hypothetical protein.	Os03g0115800	181.17	8154.87	0.001
3	Hypothetical protein.	Os06g0265100	134.73	522.10	0.001
4	Conserved hypothetical protein.	Os01g0692400	120.31	263.06	0.006
5	BURP domain containing protein.	Os10g0409400	86.34	4385.25	0.030
6	Conserved hypothetical protein.	Os07g0122000	60.49	741.52	0.006
7	Conserved hypothetical protein.	Os05g0296200	58.46	125.13	0.004
8	Conserved hypothetical protein.	Os01g0155800	56.28	16740.17	0.046
9	Hypothetical protein.	Os06g0579600	48.70	15018.20	0.039
10	Glycine-rich protein precursor.	Os07g0511100	47.53	655.96	0.002
11	ZIM domain containing protein.	Os07g0153000	21.44	134.79	0.001
12	Xylanase inhibitor protein I precursor.	Os07g0632000	20.59	441.35	0.044
13	Conserved hypothetical protein.	Os04g0677000	20.54	57.66	0.001
14	(No Hit)	Os05g0438300	20.49	116.89	0.002
15	Hypothetical protein.	Os06g0261300	19.79	200.50	0.000
16	Conserved hypothetical protein.	Os07g0442800	19.57	82.29	0.035
17	(No Hit)	Os11g0491900	18.56	48.03	0.003
18	Zn-finger, Dof type domain containing protein.	Os02g0252400	17.59	58.58	0.018
19	(No Hit)	Os04g0607800	16.45	49.26	0.002
20	Protein kinase domain containing protein.	Os11g0556400	15.27	36.83	0.017
21	Homeodomain-like containing protein.	Os11g0282700	14.37	45.39	0.004
22	Conserved hypothetical protein.	Os04g0387300	14.01	144.86	0.000
23	Conserved hypothetical protein.	Os04g0115200	12.39	86.36	0.032
24	(No Hit)	Os08g0213100	11.62	40.05	0.006
25	Conserved hypothetical protein.	Os05g0472600	10.74	79.48	0.006
26	Synaptojanin, N-terminal domain containing protein.	Os10g0390900	10.28	34.65	0.015
27	Conserved hypothetical protein.	Os06g0200800	10.22	39.20	0.023

28	(No Hit)	Os05g0211800	9.97	22.26	0.002
29	Vacuolar protein-sorting protein 45 homolog (AtVPS45).	Os02g0437800	9.82	60.39	0.023
30	(No Hit)	Os11g0636200	9.70	142.02	0.000
31	(No Hit)	Os05g0417400	9.54	21.31	0.005
32	Hypothetical protein.	Os12g0117700	9.27	252.34	0.006
33	Protein of unknown function DUF635 family protein.	Os01g0872900	9.10	95.82	0.003
34	Hypothetical protein.	Os05g0580100	8.68	44.08	0.009
35	Hypothetical protein.	Os12g0508400	8.48	66.74	0.007
36	Homeodomain-like containing protein.	Os01g0873000	8.42	39.76	0.006
37	Non-protein coding transcript, unclassifiable transcript.	Os04g0397800	8.37	19.65	0.023
38	Cold acclimation protein COR413-TM1.	Os05g0566800	8.23	14655.81	0.015
39	Hypothetical protein.	Os06g0271400	8.15	177.12	0.022
40	2OG-Fe(II) oxygenase domain containing protein.	Os07g0103500	7.76	114.51	0.018
41	Hypothetical protein.	Os08g0441700	7.18	1397.42	0.005
42	Zn-finger, PMZ type domain containing protein.	Os07g0627100	6.58	80.08	0.030
43	(No Hit)	Os01g0225700	6.11	19.98	0.013
44	(No Hit)	Os08g0559800	5.93	18.06	0.001
45	Iron/ascorbate-dependent oxidoreductase.	Os02g0320800	5.85	21.30	0.000
46	Plant protein of unknown function family protein.	Os05g0130400	5.73	23.95	0.004
47	Conserved hypothetical protein.	Os03g0383100	5.46	14.67	0.028
48	Cytochrome P450 family protein.	Os10g0524700	5.40	1240.99	0.015
49	Protein of unknown function DUF6 domain containing protein.	Os04g0457300	5.37	94.51	0.024
50	(No Hit)	Os04g0330800	5.23	450.52	0.007