

Supplemental Table S2. Down-regulated gene by the overexpression of *CRCT* analyzed by microarray.

Top 50 of down-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	Peptidase S10, serine carboxypeptidase family protein.	Os11g0461000	0.12	92.68	0.00
2	Hypothetical protein.	Os05g0227100	0.17	1569.43	0.00
3	Box protein (MADS box protein MADS1).	Os03g0215400	0.20	82.39	0.02
4	Hypothetical protein.	Os12g0406000	0.21	271.26	0.00
5	(No Hit)	Os03g0323700	0.21	42.34	0.02
6	Hypothetical protein.	Os02g0452900	0.22	13.14	0.01
7	Terpene synthase-like domain containing protein.	Os03g0348200	0.24	188.19	0.01
8	Beta-amyrin synthase.	Os11g0285000	0.25	63.52	0.00
9	SP3D.	Os01g0218500	0.25	59.99	0.00
10	MADS15 protein.	Os07g0108900	0.25	15.63	0.00
11	Acid phosphatase (Class B) family protein.	Os05g0191500	0.26	15.76	0.01
12	miRNA	osa-miR443	0.26	11.10	0.03
13	O-methyltransferase, family 2 domain containing protein.	Os04g0196200	0.28	11.90	0.01
14	Ent-kaurene oxidase (AtKO1) (Cytochrome P450 701A3).	Os06g0569500	0.28	47.98	0.00
15	4-coumarate--CoA ligase 2 (4CL 2) (4-coumaroyl-CoA synthase 2).	Os02g0697400	0.29	534.55	0.00
16	TPR-like domain containing protein.	Os08g0481000	0.29	29.18	0.00
17	FAD-dependent pyridine nucleotide-disulphide oxidoreductase family protein.	Os07g0111900	0.30	76.22	0.00
18	UDP-glucuronosyl/UDP-glucosyltransferase family protein.	Os01g0735300	0.30	143.65	0.01
19	TPR-like domain containing protein.	Os06g0700100	0.30	11.10	0.00
20	Protein kinase domain containing protein.	Os09g0359500	0.30	10.72	0.02
21	Flavonoid 3'-monooxygenase (Cytochrome P450 75B2).	Os10g0320100	0.30	4962.07	0.00
22	Cytochrome P450 family protein.	Os06g0640500	0.30	144.38	0.00
23	Zeaxanthin cleavage oxygenase.	Os12g0435200	0.30	99.20	0.02
24	Lectin-like receptor kinase 7;2	Os07g0130900	0.31	35.80	0.00
25	Disease resistance protein	Os06g0267900	0.31	253.28	0.01

	family protein.				
26	MtN3 and saliva related transmembrane protein family protein.	Os09g0254600	0.31	10.42	0.01
27	Hypothetical protein.	Os07g0209500	0.31	18.19	0.00
28	UDP-glucuronosyl/UDP-glucosyltransferase family protein.	Os05g0527900	0.32	25.74	0.00
29	Conserved hypothetical protein.	Os01g0339500	0.32	26.94	0.01
30	Transcription factor, MADS-box domain containing protein.	Os03g0752800	0.32	70.04	0.00
31	Non-protein coding transcript, unclassifiable transcript.	Os01g0647200	0.32	1371.01	0.01
32	Serine/threonine protein kinase family protein.	Os07g0131000	0.33	13.99	0.01
33	Cytochrome P450 family protein.	Os10g0440000	0.33	1155.09	0.00
34	miRNA	osa-miR397b	0.33	10.76	0.02
35	Isopenicillin N synthase family protein.	Os04g0522500	0.33	1483.42	0.02
36	Conserved hypothetical protein.	Os02g0587600	0.34	10.13	0.02
37	Retrotransposon gag protein family protein.	Os08g0315200	0.34	12.76	0.00
38	UDP-glucuronosyl/UDP-glucosyltransferase family protein.	Os03g0358800	0.34	11.25	0.00
39	GOS9 protein.	Os03g0399900	0.34	391.18	0.00
40	Anthocyaninless2.	Os08g0136100	0.35	13.29	0.02
41	Conserved hypothetical protein.	Os07g0170800	0.35	231.79	0.01
42	E-class P450, group I family protein.	Os08g0507100	0.35	19.60	0.02
43	OsPK4.	Os01g0206300	0.35	12.87	0.01
44	Calcium-dependent protein kinase, isoform 11 (CDPK 11).	Os04g0503200	0.35	40.51	0.00
45	(No Hit)	Os08g0470000	0.36	11.77	0.01
46	(No Hit)	Os01g0735400	0.36	110.44	0.00
47	Conserved hypothetical protein.	Os05g0569900	0.36	14.48	0.00
48	Conserved hypothetical protein.	Os05g0367200	0.37	132.25	0.01
49	Transcription factor MADS23.	Os08g0431900	0.37	12.69	0.00
50	Protein of unknown function DUF635 family protein.	Os12g0550700	0.37	11.92	0.01