

Supplementary Information

Table S1 The detailed sequences of primers used in this study.

Gene ID	Primer (5'-3')
<i>BnaA07g24880D</i>	F: GCCTGTCCTCAAAACACAA R: TCTTCCTCTGTCGGTTCTTC
<i>BnaCnng21050D</i>	F: CACAAGAACCAAAACCGAA R: TTGCCACTACCTGATGGAC
<i>BnaA01g02130D</i>	F: CAAATCCACTTCCAAATCCT R: TTCCAGCCGTAGTTGTCTG
<i>BnaA05g06450D</i>	F: TACTTCCTGTCCCAAACACC R: GCATCGTCTCCAATACCAA
<i>BnaA01g21750D</i>	F: GGGAGTATCAACCACCACTT R: AAACCCAAAATCTGTGAGGA

F: Forward Primer; R: Reverse Primer

Table S2 Statistical table of sequencing outputs.

Sample	Raw reads	Clean reads	Error rate (%)	Q20 (%)	Q30 (%)	Average GC content (%)
T0-1	46277396	45574506	0.02	96.28	90.80	47.80
T0-2	44989720	43101698	0.02	96.59	91.25	47.10
T0-3	50406729	49722482	0.02	96.27	90.85	47.72
T1-1	52566515	51264512	0.02	96.88	91.04	47.69
T1-2	50712979	49233385	0.02	97.18	93.01	47.24
T1-3	46274202	44254372	0.02	96.71	92.85	47.87
T2-1	50212538	49375432	0.02	96.65	92.68	46.52
T2-2	53615178	52052164	0.02	97.12	93.41	46.78
T2-3	49516078	48705239	0.03	97.06	93.18	47.70
T3-1	56402262	55103725	0.02	97.62	93.92	47.08
T3-2	54892090	53083882	0.02	96.87	93.16	47.53
T3-3	54558237	53297651	0.03	97.09	92.99	47.59

Table S3 Statistical table of sequencing data alignment.

Sample	Total reads	Reads mapped (%)	Unique mapped (%)	Multi mapped (%)
T0-1	45574506	83.83	78.59	15.48
T0-2	43101698	82.23	78.26	14.86
T0-3	49722482	87.96	80.19	16.52
T1-1	51264512	84.63	81.52	16.75
T1-2	49233385	88.35	81.88	16.22
T1-3	44254372	83.48	79.68	14.76
T2-1	49375432	86.24	80.24	16.93
T2-2	52052164	86.22	79.28	15.87
T2-3	48705239	84.51	77.59	15.92
T3-1	55103725	85.29	77.84	16.28
T3-2	53083882	86.97	79.56	16.49
T3-3	53297651	86.28	80.27	16.77

Table S4 SaMR12 inoculation affected gene regulation under Cd stress.

ID	S4_readcount(S4vsS3)	S3_readcount(S4vsS3)	log ₂ FoldChange(S4vsS3)	pval(S4vsS3)	padj(S4vsS3)	regulation
BnaA02g21020D	36.33797	702.702	-4.2734	7.49E-05	0.01118	DOWN
BnaA02g26460D	124.5907	1560.106	-3.6464	4.98E-06	0.001257	DOWN
BnaA03g25580D	232.5617	1627.287	-2.8068	0.000267	0.030288	DOWN
BnaA03g51170D	13.37299	261.784	-4.291	3.25E-06	0.000904	DOWN
BnaA05g22510D	17.59475	288.131	-4.0335	6.73E-06	0.001597	DOWN
BnaA06g03330D	23.64908	1369.397	-5.8556	7.14E-11	1.12E-07	DOWN
BnaA06g35830D	222.4354	2182.172	-3.2943	2.52E-05	0.004613	DOWN
BnaA07g29310D	1.368628	85.8388	-5.9708	2.36E-05	0.004355	DOWN
BnaA08g16140D	11.00697	136.0483	-3.6276	0.000177	0.02162	DOWN
BnaA08g18480D	12.85112	148.9415	-3.5348	0.000259	0.029529	DOWN
BnaA09g02440D	12.39877	298.2105	-4.5881	7.17E-07	0.000258	DOWN
BnaA09g42290D	171.9815	1357.346	-2.9805	0.000124	0.016339	DOWN
BnaA10g30150D	28.31202	810.0585	-4.8385	2.87E-08	1.82E-05	DOWN
BnaC01g08890D	2.77202	110.2172	-5.3133	3.73E-06	0.001007	DOWN
BnaC01g35500D	5.555628	153.0191	-4.7836	3.11E-06	0.000879	DOWN

BnaC01g41460D	87.05832	934.7147	-3.4245	2.09E-05	0.003958	DOWN
BnaC02g03000D	21.42253	225.0289	-3.3929	0.000138	0.017616	DOWN
BnaC02g04750D	2.725668	170.6462	-5.9683	9.03E-06	0.002022	DOWN
BnaC03g10820D	18.44151	369.9392	-4.3263	3.23E-06	0.000904	DOWN
BnaC03g44540D	19.32303	259.0644	-3.7449	2.61E-05	0.004769	DOWN
BnaC03g59880D	23.80014	285.3183	-3.5835	4.38E-05	0.007178	DOWN
BnaC03g60090D	17.96599	333.23	-4.2132	2.28E-06	0.000688	DOWN
BnaC03g60280D	396.3774	18412.06	-5.5376	8.85E-11	1.35E-07	DOWN
BnaC03g61390D	5.915271	143.5033	-4.6005	2.49E-05	0.004568	DOWN
BnaC03g73080D	68.94128	504.7204	-2.872	0.000341	0.036679	DOWN
BnaC03g76260D	2.273322	115.8895	-5.6718	1.20E-06	0.000395	DOWN
BnaC04g11150D	3.665126	87.29261	-4.5739	7.02E-05	0.010613	DOWN
BnaC04g17010D	3.665126	92.02716	-4.6501	4.21E-05	0.006931	DOWN
BnaC04g45370D	184.2537	2045.695	-3.4728	1.00E-05	0.002178	DOWN
BnaC05g23780D	3.653538	66.75857	-4.1916	0.000468	0.046265	DOWN
BnaC05g35550D	2.308086	61.17968	-4.7283	0.000227	0.026152	DOWN
BnaC05g41690D	1.368628	107.0289	-6.2891	1.18E-05	0.002496	DOWN

BnaC05g43330D	121.2624	917.1802	-2.9191	0.000202	0.024074	DOWN
BnaC06g13780D	1.832563	60.05466	-5.0343	0.000153	0.019279	DOWN
BnaC06g43740D	7.701482	1267.898	-7.3631	6.49E-14	3.88E-10	DOWN
BnaC07g28230D	1.844151	83.91687	-5.5079	1.05E-05	0.002264	DOWN
BnaC07g36840D	13.72105	174.0695	-3.6652	9.50E-05	0.013437	DOWN
BnaC07g37680D	16.55101	632.0985	-5.2552	1.79E-08	1.26E-05	DOWN
BnaC08g36620D	2.296498	61.4609	-4.7422	0.000215	0.025183	DOWN
BnaC08g37420D	3.676714	192.4469	-5.7099	7.56E-08	3.91E-05	DOWN
BnaC09g04350D	81.3864	798.526	-3.2945	4.28E-05	0.007025	DOWN
BnaCnng08430D	7.852126	249.6413	-4.9906	2.47E-07	0.000109	DOWN
BnaCnng54490D	2.273322	105.3417	-5.5341	3.10E-06	0.000879	DOWN
BnaUnng00940D	31.29262	448.4646	-3.8411	6.91E-06	0.001621	DOWN
BnaC04g46210D	68.84857	3.187899	4.4327	0.00031	0.034198	UP
BnaC09g46260D	410.761	53.91359	2.9296	0.00029	0.032381	UP
BnaCnng00540D	68.55846	3.234791	4.4056	0.000352	0.037668	UP
Novel01982	61.39086	2.719106	4.4968	0.000411	0.041773	UP
