

Supplementary Material

C4, the pathogenic determinant of *Tomato leaf curl Guangdong virus*, may suppress post-transcriptional gene silencing by interacting with BAM1 protein

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Supplementary Table 1 | Primers used in this study

Primer	Primer sequence (5'-3') ^{a, b}	Purpose
ToLCGdV-F1	ATATCGAATTCCTGCAGCCCTCTTGTGTAATTCTCTGCAAATTTTATGA	pGreenII-1.3A-ToLCGdV
ToLCGdV-R1	TTACACAAGAATGGGAACCCTCATCTCC	
ToLCGdV-F2	GGGTTCCCATCTCTTGTGTAATTCTCTGCAAATTTTATG	
ToLCGdV-R2	CTAGAACTAGTGGATCCCCCTTACAACCCCGAGGAAC	
C4-ACG-F	GGAGATGAGGGTTCCC <u>G</u> TTCTTGTGTAA	pGreenII-1.3A-ToLCGdV _{mC4}
C4-ACG-R	TTACACAAGAA <u>C</u> GGGAACCCTCATCTCC	
PVX-C4-F	CAGCTAGC <u>ATCGAT</u> TCCCGGGATGGGAACCCTCATCTCCACG	PVX-C4
PVX-mC4-F	CAGCTAGC <u>ATCGAT</u> TCCCGGGACGGGAACCCTCATCTCCACG	PVX-mC4
PVX-C4-R	CTTATCGGCG <u>GTCGAC</u> CCGGGTAAAGCCTCTGCACATGCGT	
C4-Myc-F	CCG <u>CTCGAG</u> ATGGGAACCCTCATCTCCACG	pGD-C4-Myc
C4-Myc-R	GG <u>GGGCCC</u> GCAAGCCTCTGCACATGCGTCG	

BiFC-C4-F	GG <u>ACTAGT</u> ATGGGAACCCTCATCTCCA	35SNE-C4 35SCE-C4
BiFC-C4-R	CG <u>GGATCC</u> AAGCCTCTGCACATGCGTCG	
pGDGm-C4-F	CCG <u>CTCGAG</u> ATGGGAACCCTCATCTCCA	pGDGm-C4
pGDGm-C4-R	GG <u>GGGCCC</u> AAGCCTCTGCACATGCGTCG	

^a Underlined and bold letters indicate the sequences of the restriction sites.

^b Underlined, italic, and bold letters indicate the sequences altered by site-specific mutagenesis

Supplementary Table 2 | Cytosine methylation level of each CG, CNG, and CHH site

	PVX			PVX-C4-Myc		
Relative position of 35S promoter	Methylated cytosine reads	Non-methylated cytosine reads	Ratio of methylated cytosine	Methylated cytosine reads	Non-methylated cytosine reads	Ratio of methylated cytosine
CG						
121	63841	1694	0.974	35639	29896	0.544
139	20304	45231	0.31	9529	56006	0.145
157	64582	953	0.985	6337	59198	0.097
189	64793	742	0.989	38349	27186	0.585
199	63800	1735	0.974	31888	33647	0.487
214	64070	1465	0.978	24357	41178	0.372
225	62769	2766	0.958	23983	41552	0.366
265	63375	2160	0.967	26660	38875	0.407
277	64146	1389	0.979	39123	26412	0.597
297	44084	21451	0.673	21070	44465	0.322
CNG						
153	62451	3084	0.953	30483	35052	0.465

156	47281	18254	0.721	8697	56838	0.133
160	62982	2553	0.961	33519	32016	0.511
261	62850	2685	0.959	28644	36891	0.437
CHH						
100	1576	63959	0.024	3112	62423	0.047
102	8824	56711	0.135	4507	61028	0.069
103	34102	31433	0.52	10884	54651	0.166
106	8585	56950	0.131	2795	62740	0.043
112	2727	62808	0.042	5491	60044	0.084
113	4294	61241	0.066	6360	59175	0.097
116	7795	57740	0.119	5539	59996	0.085
135	4478	61057	0.068	10671	54864	0.163
136	11022	54513	0.168	13690	51845	0.209
150	8173	57362	0.125	14874	50661	0.227
151	4422	61113	0.067	11335	54200	0.173
167	4989	60546	0.076	11762	53773	0.179
168	3287	62248	0.05	4668	60867	0.071
169	13180	52355	0.201	3675	61860	0.056
179	2923	62612	0.045	4857	60678	0.074
180	2635	62900	0.04	5114	60421	0.078
181	4223	61312	0.064	8277	57258	0.126

182	10860	54675	0.166	11231	54304	0.171
183	45688	19847	0.697	12478	53057	0.19
185	2354	63181	0.036	3828	61707	0.058
186	4270	61265	0.065	5934	59601	0.091
187	14859	50676	0.227	5287	60248	0.081
196	18434	47101	0.281	19433	46102	0.297
218	7322	58213	0.112	9253	56282	0.141
219	12702	52833	0.194	6135	59400	0.094
222	8579	56956	0.131	10755	54780	0.164
223	4139	61396	0.063	6750	58785	0.103
228	15223	50312	0.232	16591	48944	0.253
231	10098	55437	0.154	7612	57923	0.116
236	7980	57555	0.122	4892	60643	0.075
256	2673	62862	0.041	5029	60506	0.077
258	2061	63474	0.031	3643	61892	0.056
259	13451	52084	0.205	8717	56818	0.133
279	6075	59460	0.093	3476	62059	0.053
281	8208	57327	0.125	2475	63060	0.038
285	4242	61293	0.065	3205	62330	0.049
286	2482	63053	0.038	1925	63610	0.029
287	8394	57141	0.128	3627	61908	0.055

289	11923	53612	0.182	3029	62506	0.046
293	2927	62608	0.045	2000	63535	0.031
294	20548	44987	0.314	3680	61855	0.056
299	5740	59795	0.088	927	64608	0.014
304	2180	63355	0.033	1610	63925	0.025
305	2008	63527	0.031	1821	63714	0.028
306	25800	39735	0.394	2928	62607	0.045
309	4374	61161	0.067	2188	63347	0.033
310	3529	62006	0.054	1519	64016	0.023
312	31899	33636	0.487	5192	60343	0.079