

***Cucumber mosaic virus* coat protein induces the development of chlorotic symptoms through interacting with the chloroplast ferredoxin I protein**

Yanhong Qiu¹, Yongjiang Zhang¹, Chaonan Wang^{1, 2}, Rong Lei¹, Yupin Wu^{*1}, Xinshi Li^{*1} & Shuifang Zhu^{*1}

¹Chinese Academy of Inspection and Quarantine, Beijing 100176, China. ²China Agricultural University, Beijing 100129, China. Correspondence and requests for materials should be addressed to Y.P.W (email: wu yuping@caiqtest.com) or X.S.L (email: lixinshi2017@126.com) or S.F.Z. (email: zhusf@caiq.gov.cn).

Supplementary materials

Supplementary Table

Table S1 Details regarding the primers used in this study.

Supplementary Figure

Figure S1 The subcellular localization of CMV CP. GFP fused to CP mainly localized in cytoplasm when *Agrobacterium*- infiltrated into *Nicotiana benthamiana* plants. Scale bars = 25 μ m.

Table S1 Details regarding the primers used in this study.

Primer	Sequences	Restriction Enzyme
M-5UTR-F	<u>GGATCCT</u> AATACGACTCACTATAGGTAATCTTACCACTGTG	<i>Bam</i> HI/ <i>Pst</i> I
M-5UTR-R	ATTTGTCCATGACTCGACTCAATTC	
QCP-F	ATTGAGTCGAGTCATGGACAAATCTGG	
QCP-R	CTGGAACACGGAACTAAGTCGGG	
M-3UTR-F	TGAGTCGAGTCATGGACAAATCTGG	
M-3UTR-R	<u>CTGCAGT</u> GGTCTCCTTTTAGAG	
Q-5UTR-F	<u>CTGCAGT</u> AATACGACTCACTATAGGGTAATCTTACCAC	<i>Pst</i> I/ <i>Bam</i> HI
Q-5UTR-R	GATTTGTCCATAGGCACACTGAGAC	
MCP-F	GTCTCAGTGTGCCTATGGACAAATC	
MCP-R	AACACACGGATCAGACTGGGAGC	
Q-3UTR-F	GTGCTCCCAGTCTGATCCGTGTGTTACCGG	
Q-3UTR-R	AAC <u>GGATCC</u> TGGTCTCCTTATGGAGAACCTGTGG	
BD-MCP-F	<u>CGGATCC</u> GTATGGACAAATCTGAATC	<i>Bam</i> HI/ <i>Pst</i> I
BD-MCP-R	<u>ACTGCAG</u> ATCAGACTGGGAGCACTC	
AD-FdI-F	AA <u>AGAATTC</u> ATGGCCAGTATTTTCAGGTAC	<i>Eco</i> RI/ <i>Bam</i> HI
AD-FdI-R	AG <u>GGATCCT</u> TAGCCAGTGAGCTCC	
AD-FdI-55R	AA <u>AGGATCC</u> TAAATAAGCTTCACTTTGTAAGT	
AD-FdI-56F	AG <u>GAATTC</u> ATGACACCAGAGGGAACAGTTGAG	
Bi-MCP-F	AAC <u>GGATCC</u> ATGGACAAATCTGAATC	<i>Bam</i> HI/ <i>Kpn</i> I
Bi-MCP-R	AA <u>AGGTACC</u> TCAGACTGGGAGCACTCTAG	
Bi-QCP-F	AA <u>AGGATCC</u> ATGGACAAATCTGGATCTCC	<i>Bam</i> HI/ <i>Kpn</i> I
Bi-QCP-R	AA <u>AGGTACC</u> AGTCGGGAGCATCCGTGAG	
Bi-FdI-F	AAC <u>GGATCC</u> ATGGCCAGTATTTTCAGG	<i>Bam</i> HI/ <i>Xho</i> I
Bi-FdI-R	AA <u>ACTCG</u> AGGCCAGTGAGCTCCTCC	
Sub-FdI-F	AA <u>CTGCAG</u> ATGGCCAGTATTTTCAGG	<i>Pst</i> I/ <i>Sal</i> I
Sub-FdI-55R	AA <u>AGTCG</u> ACAAATAAGCTTCACTTTGTAAGT	
Sub-FdI-R	AG <u>TCGAC</u> ATGCCAGTGAGCTCCTC	
Sub-CP-F	AA <u>CTGCAG</u> ATGGACAAATCTGAATC	<i>Pst</i> I/ <i>Spe</i> I
Sub-CP-R	AA <u>ACTAGT</u> GACTGGGAGCACTCTAG	
TRV-FdI-F	A <u>AGAATTC</u> CCTGAAAGCCATAACC	<i>Eco</i> RI/
TRV-FdI-R	A <u>AGGATCC</u> CAGACTGTGGGTAAGC	<i>Bam</i> HI

Figure S1

