

Table S1. Primers used in identification of the complete genome sequence of the CsCMV-CM

Primer	Sequence (5'-3')	Application
CsCMV5F	GGAAAACCTCACATTCCAAACCAAAC	Full-length cDNAs of
CsCMV3R	ATACCGCTAAACTGTCCGCGGG	CsCMV
CsCMV448R	GTTGATGAAGTGGTCACGGTGTTG	5'RACE
CsCMV5259F	GGACCAAGACTGTTTACTATG	3'RACE

Table S2. Primers used in construction of agroinfectious clone pCsCMV-CM and pCsCMV-NC vector

Primer	Sequence (5'-3')	Application
CsCMV-5Fov	<u>AGGAAGTTCATTTCATTGGAGAGGGGAAAACCTCACATTCCAAACCAAAC</u>	pCsCMV-CM
CsCMV30T-R	<u>CGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAT</u> ACCGCTAAACTGTCCGCGGG	pCsCMV-CM
CsCMVpGr-F	<u>TATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATCGGTACGCTGAAATCACCAGTCT</u>	pCsCMV-CM
pGr35S-R	<u>CCTCTCCAAATGAAATGAACTTCCT</u>	pCsCMV-CM
CsCMV-5Fov	<u>AGGAAGTTCATTTCATTGGAGAGGGGAAAACCTCACATTCCAAACCAAAC</u>	pCsCMV-NC
NC-CsCMV5623-R	<u>AGGACTGGACAGAGACCAC</u> IGTGTAGGAGTGGTTGAGGTGGGGTGGCCCTAGCTAATT	(fragment I)
NC-CsCMV5534-F	<u>ACTTGTGGTCTGCTGAGACCAAGAGATTTGGCAAACCTCCATCC</u>	pCsCMV-NC
pGr35S-R	<u>CCTCTCCAAATGAAATGAACTTCCT</u>	(fragment II)
NC-F	<u>CAGTGGTCTCTGTCCAGTCCT</u>	pCsCMV-NC
NC-R	<u>TGGTCTCAGCAGACCACAAGT</u>	(fragment NC)

Underlined sequences corresponding to the overlapping region used Gibson Assembly.

Table S3. Primers used for Nimble Cloning of gene fragments into the pCsCMV-NC vector.

Gene	GenBank Accession number	Size (bp)	Position	Primer sequence (5'-3')
<i>PDS</i> (Cassava)	XM_021757403	487	293-779	<u>AGTGGTCTCTGTCCAGTCCT</u> TATGCAAGCCTGTTTCATACCAGTC
				GGTCTCAGCAGACCACAAGTACTTTGTACGGGAGTGTTTCTGCAT
<i>ChlI</i> (Cassava)	XM_021743433	439	545-983	<u>AGTGGTCTCTGTCCAGTCCT</u> GCATCTTTAACAGTTCCTACTTGTG
				GGTCTCAGCAGACCACAAGT <u>CAGATCCAGAAGATCCAGAATCCA</u>
		345	639-983	<u>AGTGGTCTCTGTCCAGTCCT</u> GCATCTTTAACAGTTCCTACTTGTG
				GGTCTCAGCAGACCACAAGTGGTTGATTTGCCATTAGGTGCTAC
236	748-983	<u>AGTGGTCTCTGTCCAGTCCT</u> GCATCTTTAACAGTTCCTACTTGTG		
		GGTCTCAGCAGACCACAAGT <u>GCTAATAGAGGGATTCTTTATGTGGATG</u>		
133	851-983	<u>AGTGGTCTCTGTCCAGTCCT</u> GCATCTTTAACAGTTCCTACTTGTG		
		GGTCTCAGCAGACCACAAGT <u>GAGAGGGTATTTCTATTTACATCCTGC</u>		

Underlined sequences corresponding to the adapter 1 and 2 of Nimble Cloning

Table S4. Primers used for quantitative RT-PCR analyses

Gene	GenBank Accession number/ Sequence ID	Primer sequence (5'-3')
<i>PDS</i> (Cassava)	XM_021757403	GTTTGCTACTCCAGTTGACATC AGTTTCCTGTCTGAACCATATGT
<i>Chll</i> (Cassava)	XM_021743433	GCTGAGCTGAATGTGGATGG GGGATAACAGTAGCAACGTCCT
<i>Mepp2A</i> (Cassava)	Manes.09G039900	TGCAAGGCTCACACTTTCATC CTGAGCGTAAAGCAGGGAAG
<i>PDS</i> (<i>Nicotiana benthamiana</i>)	DQ469932	CTTATGTTGAAGCTCAAGACGG AATATGTTCCACAATCGGCATG
<i>Chll</i> (<i>Nicotiana benthamiana</i>)	Niben101Scf16898g00001.1	GCAGAGTCAAGGGAGGAAGT TGGCTCTCCTCAGCAAGTTT
<i>Actin</i> (<i>Nicotiana benthamiana</i>)	AY179605	GGCATTGATGAAACCACATACA AGGACAATGTTTCCGTACAGAT
<i>CP</i> (CsCMV)	MW175326	GCCCTAGACCTGGTCAACTT AGCAGGAGGTATGTTGGCTT