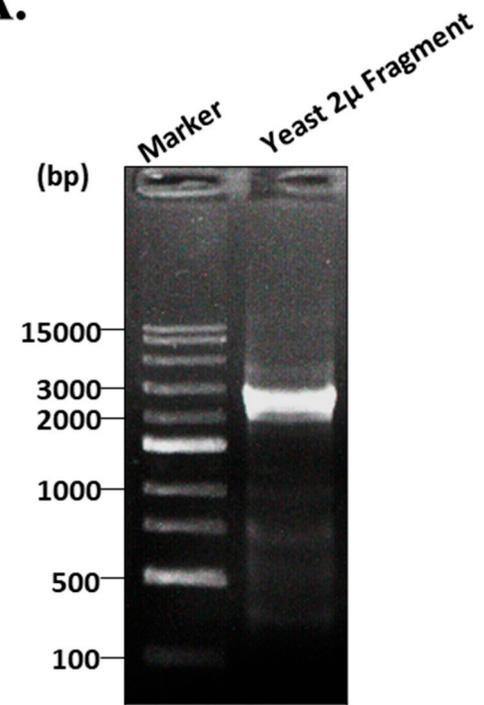


Supplementary Table S1. Primer used in the vector construction and RT-PCR detection.

Primer Name	Sequence (5'-3')	Length of the amplicon (bp)	T _m (°C)	Purpose (Amplification)
pGBK-2686F1	gttgctgcctgtgatcaCCGCGGCACATTTCCCCGAAAAGTGCCACC	2,686	62	Yeast 2μ replication origin element
pGBK-2686R1	cgacggagccgattttgaaaCCGCGGGCGGTATTTTCTCCTTACGCATCTGTGC			
CMV-Fny/RNA1&RNA2/yeast/Stul/F	gttcatttcattggagaggGTTATTTACAAGAGCGTACGGTTCAATCC	3,357	60	The cDNA of CMV RNA1
CMV-Fny/RNA1/yeast/BamHI/R	catccggtgacagggtatcgTGGTCTCCTTTTAGAGACCCCCACGAAAG			
CMV-Fny/RNA2/yeast/BamHI/R	catccggtgacagggtatcgTGGTCTCCTTTTGGAGGCCCCACAAAAG	3,050	65	The cDNA of CMV RNA2, combine with the third primer
CMV-Fny/RNA3/yeast/Stul/F	gttcatttcattggagaggGTAATCTTACCACTGTGTGTGTCGTG	2,216	61	The cDNA of CMV RNA3
CMV-Fny/RNA3/yeast/BamHI/R	catccggtgacagggtatcgTGGTCTCCTTTTGGAGGCCCCACG			
CMV-Fny/CP/F	ATGGACAAATCTGAATCAACC	657	53	The CMV CP encoding sequence
CMV-Fny/CP/R	TCAAACCTGGGAGCACCCAGA			
YoMV(1-2991)/yeast/Stul/F	gttcatttcattggagaggGTTGTTGCAATAAAAATAAAAC	2,991	52	The fragment 1 of YoMV
YoMV(1-2991)/R	TACACATCACTGATCCATCGT			
YoMV(2971-6305)/F	ACGATGGATCAGTGATGTGTA	3,335	55	The fragment 2 of YoMV
YoMV(2971-6305)/yeast/BamHI/R	catccggtgacagggtatcgTTGGGCCCTACCCGGGGTTA			
YoMV/CP/F	ATGGTTTACAACATCACGAGCTC	474	57	The YoMV CP encoding sequence
YoMV/CP/R	TGTAGCTGGCGCAGTAGCCCAA			
ReMV(1-2159)/yeast/Stul/F	gttcatttcattggagaggGTATTTTTTAAACAACAATTACC	2,159	49	The fragment 1 of ReMV
ReMV(1-2159)/R	CACAATCGAGCTCATCTGTTTGCG			
ReMV(2136-4296)/F	CGCAAACAGATGAGCTCGATTGTG	2,161	60	The fragment 2 of ReMV
ReMV(2136-4296)/R	GTCTCCGCCAGATTTTCGTACTC			
ReMV(4275-6395)/F	GAGTACGAAATCTGGCGGAGAC	2,121	58	The fragment 3 of ReMV
ReMV(4275-6395)/yeast/BamHI/R	catccggtgacagggtatcgTGGGCCCTACCCGGGGTAACGGGGGAATTC			
ReMV/CP/F	ATGTCTTATACAATTGCAACTCC	480	52	The ReMV CP encoding sequence
ReMV/CP/R	TCAAGTTGCGGGACCAGAAGTC			

Note: the small letters indicate the adaptor sequences for the yeast HR-based assembly.

A.



Supplementary Figure S1. Agarose gel electrophoresis of the yeast 2 μ replication origin and the tryptophan (TRP1) autotrophic marker gene fragment.