

Supplementary Table 1. Primer sets used for RT-PCR detection of CABYV.

Name	Sequence (5' to 3')	Tm (°C)	Target region ^a	Ampl. size	Strain ^b	Ref
CAB.cp.f	CGCGTGGTTGTGGTCAACCC	57.9	CP	479 bp	C+R	15
CAB.cp.r	CCYGCAACCGAGGAAGATCC	57.9				
CA.C.2891.F	GAYGGAACATTATTAGCGCAGAGA	54.0	RdRP	532 bp	C	14
CA.3372.R	AATCTATTGKTGGACTCTTDGTAACGA	54.1				
CA.R.3050.F	ACCTAGCGAAATACGCTGAGCTA	55.3	RdRP	372 bp	R	14
CA.3372.R	AATCTATTGKTGGACTCTTDGTAACGA	54.1				

a. CP: coat protein gene, RdRP: RNA dependent RNA polymerase gene;

b. C: common strain, R: recombinant strain

Supplementary Table 2. The isolates of the Cucurbit aphid borne yellows virus obtained from the local plantation area in the present study and those other isolates reported from elsewhere in the world that were used for analysis.

Isolates	Original host	Country	Accession no.
Iran-1	<i>Cucumis sativus</i>	Iran	KF425566
Iran-2	<i>C. sativus</i>	Iran	KF425567
Iran-3	<i>C. sativus</i>	Iran	KF425568
Iran-4	<i>C. sativus</i>	Iran	KF425569
Iran-5	<i>C. sativus</i>	Iran	KF425570
Iran-6	<i>C. sativus</i>	Iran	KF425571
Iran-7	<i>C. sativus</i>	Iran	KF425572
Iran-8	<i>C. sativus</i>	Iran	KF425573
Iran-9	<i>C. sativus</i>	Iran	KF425574
CABYV-C-IRN.W1	<i>Bryonia dioca</i>	Iran	KX432189
CABYV-C-IRN.W2	<i>Sysimbrium irio</i>	Iran	KX432190
CABYV-C-IRN.W3	<i>Citrullus colocynthis</i>	Iran	KX432191
CABYV-C-IRN.W4	<i>Papaver rhoeas</i>	Iran	KX432192
CABYV-C-IRN.W5	<i>Capsella bursa-pastoris</i>	Iran	KX432193
CABYV-C-IRN.W6	<i>C. bursa-pastoris</i>	Iran	KX432194
CABYV-C-IRN.W7	<i>B. dioca</i>	Iran	KX432195
CABYV-C-IRN.W8	<i>S. irio</i>	Iran	KX432196
CABYV-C-IRN.W9	<i>B. dioca</i>	Iran	KX432197
CABYV-C-IRN.W10	<i>Eruca sativa</i>	Iran	KX432198
CABYV-C-IRN.W11	<i>B. dioca</i>	Iran	KX432199
CABYV-C-IRN.31	<i>C. sativus</i>	Iran	KX432200
CABYV-C-IRN.98	<i>C. sativus</i>	Iran	KX432201
CABYV-R-IRN.7	<i>C. sativus</i>	Iran	KX432202
CABYV-R-IRN.11	<i>C. sativus</i>	Iran	KX432203
CABYV-R-IRN.16	<i>C. sativus</i>	Iran	KX432204
CABYV-R-IRN.19	<i>C. sativus</i>	Iran	KX432205
CABYV-R-IRN.65	<i>C. sativus</i>	Iran	KX432206
N	-	France	NC_003688
CABYV-FJ	<i>Cucurbita pepo</i>	China	GQ221223
CABYV-JAN	<i>C. sativus</i>	Japan	GQ221224
CABYV-C-TW20	<i>Momordica charantia</i>	Taiwan	JQ700305
CABYV-C-TW20	<i>M. charantia</i>	Taiwan	GU324095
CABYV-C-TW27	<i>C. pepo</i>	Taiwan	GU324096
CABYV-R-TW27	<i>C. pepo</i>	Taiwan	GU324097
CABYV-C-TW36	<i>C. pepo</i>	Taiwan	GU324098
CABYV-R-TW36	<i>C. pepo</i>	Taiwan	GU324099
CABYV-R-TW6	<i>C. moschata</i>	Taiwan	GU324101
CABYV-R-TW82	<i>Luffa aegyptiaca</i>	Taiwan	GU324102
CABYV-C-TW8	<i>Cucurbita moschata</i>	Taiwan	GU324103
CABYV-R-TW9	<i>Benincasa hispida</i>	Taiwan	GU324104
K1	<i>C. melo</i>	Korean	LC082306
R-TH18	<i>Coccinia grandis</i>	Thailand	KF427707
C-UZ4	<i>C. melo</i>	Uzbekistan	KF427706
UZ2	<i>C. sativus</i>	Uzbekistan	KF427705
C-TH25	<i>C. sativus</i>	Thailand	KF427704
CABYV-C-TH53	<i>M. charantia</i>	Thailand	KF815688
CABYV-C-TH263	<i>Amaranthus spinosus</i>	Thailand	KF815687
CABYV-C-TH228	<i>Benincasa hispida</i>	Thailand	KF815686
CABYV-C-TH81	<i>C. melo</i>	Thailand	KF815685
CABYV-C-TH77	<i>C. melo</i>	Thailand	KF815684

Table 2. continued.

CABYV-C-TH235	<i>C. sativus</i>	Thailand	KF815683
CABYV-C-TH207	<i>C. sativus</i>	Thailand	KF815682
CABYV-C-TH99	<i>C. sativus</i>	Thailand	KF815681
CABYV-R-TH37	<i>M. charantia</i>	Thailand	KF815679
CABYV-C-TH37	<i>M. charantia</i>	Thailand	KF815678
CABYV-C-TH22	<i>C. sativus</i>	Thailand	KF791040
CABYV-C-TH2	<i>M. charantia</i>	Thailand	KF791039
CABYV-R-TH1	<i>M. charantia</i>	Thailand	KF791037
CABYV-C-PH1	<i>C. sativus</i>	Philippine	HQ700823