

## Supplementary materials

# A novel endogenous badnavirus exists in *Alhagi sparsifolia*

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**Table S1 Primers used in this study**

Primer name	Sequence (5' to 3')	Length	Position in eABV
B1-1F	TTCTCGGAAGTTGACCGAGA	21	690-709
B1-1R	GTAGTTTCCAAACCTTACAGAT	22	1804-1825
B2-1F	AGAAAAGCTAAAAATTATACT	21	3256-3276
B2-1R	ACAGATGCCGTCAGAATCTTC	21	3481-3501
B3-1F	AAACAGCTTGAGCTTGCTCAA	21	3934-3954
B3-1R	TCTGCGATCTTTAATGTGGC	21	5437-5457
B3-2F	TGAGATGTTTGCAAGATGCAG	21	5349-5369
B3-2R	CGTCCCCGTCTGCAGAGTCTC	21	6511-6531
C1-F	CTTAGGAGGAGGACGAGACTC	21	6497-6517
C1-R	CACCTTAATCTCAGCAGTGTT	21	775-795
C2-F	CATGACAACATTCGGGCAATG	22	507-528
C2-R	GGCTGCGAGACATCTTCATCCT	22	1854-1875
C3-F	GAACGACTCAGACCAAGCAAG	21	949-969
C3-R	TCCTTCCGAGATGCTACAGAT	21	3496-3516
C4-F	CCAGGACATTCGCAAGGGATT	22	3364-3385
C4-R	AGCATGCTCCTCCTCAGTCTGA	22	5316-5337
C5-F	GGATTGTACGAATGGCTGGTAA	22	5182-5203
C5-R	CTACTTATAGAGGGAAATTGAGT	23	6908-6930
IR1-F	GATTATCGAGGTTGATAATGAG	22	5508-5529
IR1-R	GAGGCTGTAAATTAATTCTGCG	22	5431-5452
IR2-F	GGAATTCATGGAGACCGACGtT	22	5638-5659
IR2-R	GGACTAGGCCATATTCCTGCA	22	5344-5365
Badna-FP	ATGCCITTYGGIITIAARAAYGCICC	26	5203-5228
Badna-RP	CCAYTTRCAIACISCICCCCAICC	24	5758-5781
VPJ-F	CCACTTCAACCAAGTGATATCA	22	--
VPJ-R	GCACCGAAGAAGACAACCTTATG	22	--

**Table S2** *Badnaviruses* species for phylogenetic analysis

Species	Acronym	Accession No.
<i>Pagoda yellow mosaic associated virus</i>	PYMAV	KJ013302.1
<i>Rubus yellow net virus</i>	RYNV	KF241951
<i>Gooseberry vein banding virus</i>	GVBaV	HQ852248
<i>Grapevine vein-clearing virus</i>	GVCV	JF301669
<i>Pineapple bacilliform CO virus</i>	PBCOV	GU121676
<i>HBV Hibiscus bacilliform virus</i>	HBV	NC_023485
<i>Blackberry Virus F</i>	BbVF	NC_029303
<i>Dioscorea bacilliform virus</i>	DBV	DQ822074
<i>Cycad leaf necrosis virus</i>	CyNLV	NC_011097
<i>Kalanchoe top-spotting virus</i>	KTSV	AY180137
<i>Taro bacilliform virus</i>	TaBV	NC_004450.1
<i>Banana streak OL virus</i>	BSOLV	AJ002234
<i>Grapevine roditis leaf discoloration-associated virus</i>	GRLDaV	HG940503
<i>Banana streak UA virus</i>	BSUAV	HQ593107
<i>Fig badnavirus 1</i>	FBV-1	JF411989
<i>Sugarcane bacilliform virus</i>	SCBV	JN377536
<i>Banana streak CA virus</i>	BSCAV	KJ013511
<i>Banana streak virus Acuminata Yunnan</i>	BSYUV	DQ092436
<i>Citrus yellow mosaic virus</i>	CYMV	AF347695
<i>Banana streak IM virus</i>	BSIMV	HQ593112
<i>Banana streak VN virus</i>	BSVNV	KJ013510
<i>Yacon necrotic mottle virus isolate</i>	YNMoV	NC_026472
<i>Banana streak GF virus</i>	BSGFV	AY493509
<i>Taro bacilliform CH virus</i>	TaBCHV	KP710177
<i>Banana streak MY virus</i>	BSMYV	KJ013509
<i>Bougainvillea spectabilis chlorotic vein-banding virus</i>	BsCVBV	EU034539
<i>Banana streak UI virus</i>	BSUIV	HQ593108
<i>Piper yellow mottle virus</i>	PYMoV	NC_022365
<i>Dracaena mottle virus</i>	DrMV	DQ473478
<i>Pelargonium vein banding virus</i>	PVBV	GQ428155
<i>Banana streak UM virus</i>	BSUMV	HQ593110
<i>Mulberry badnavirus 1</i>	MBV-1	LN651258
<i>Banana streak UL virus</i>	BSULV	HQ593109
<i>Sweetpotato badnavirus A</i>	SPVA	FJ560943
<i>Sugarcane bacilliform MO virus</i>	SCBMOV	M89923
<i>Commelina yellow mottle virus</i>	ComYMV	X52938
<i>Sugarcane bacilliform IM virus</i>	SCBIMV	AJ277091
<i>Sweet potato badnavirus B</i>	SPVB	FJ560944
<i>Cacao swollen shoot virus</i>	CSSV	AJ781003
<i>Strawberry vein banding virus</i>	SVBV	KP311681