

Electronic Supplementary Material

A novel mosquito-borne reassortant orbivirus isolated from Xishuangbanna, China

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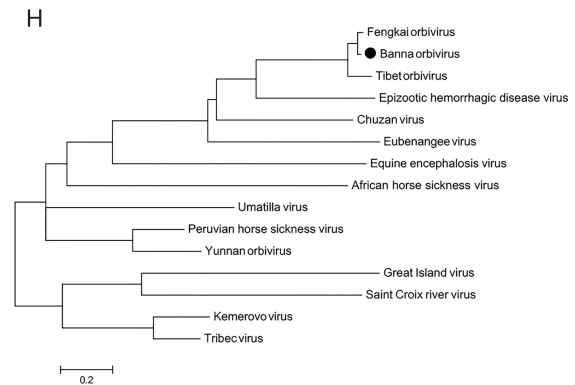
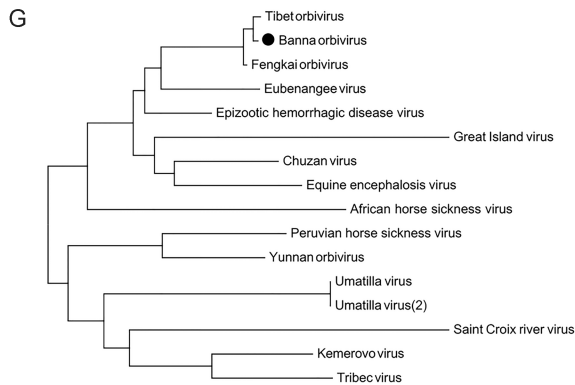
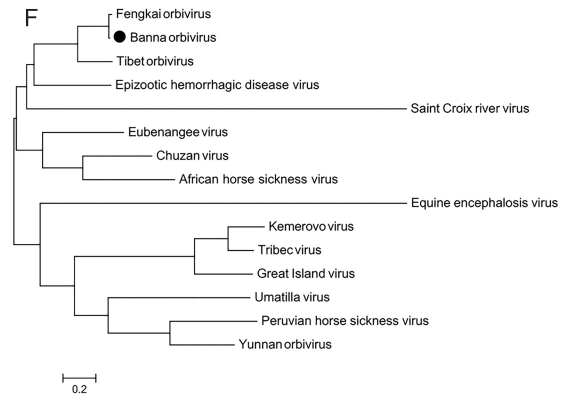
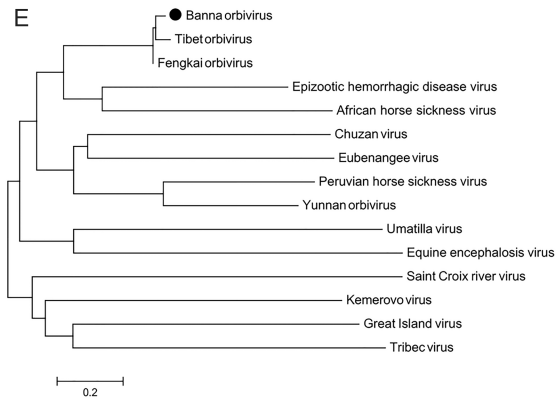
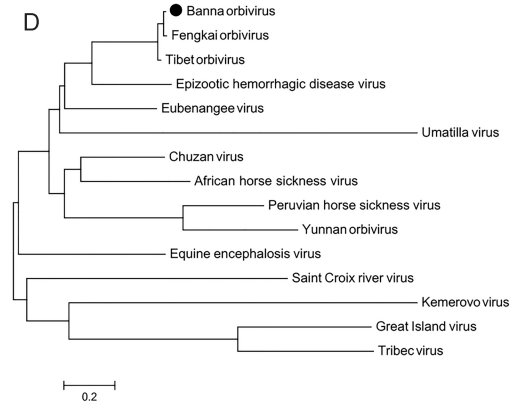
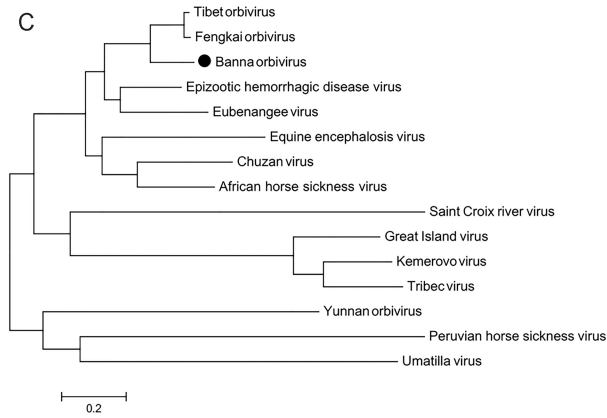
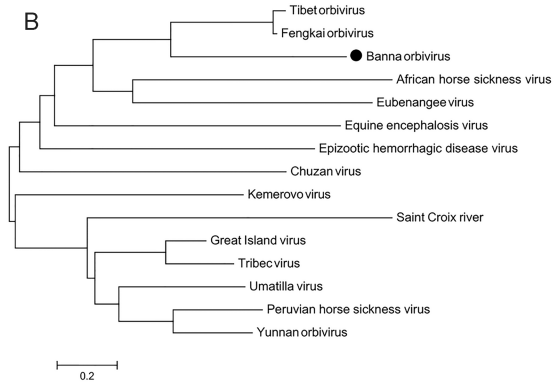
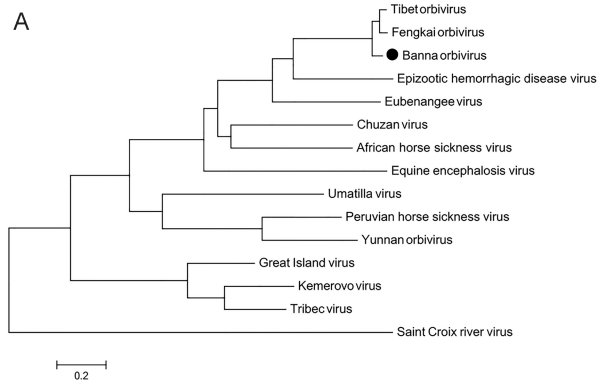
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Table S1. Summary of all virus strains used in this study

Species	Abbreviation	Strain/serotype	Collection	Region year	Segment accession No.
African horse sickness virus	AHSV	HS29-62/ serotype 1	1968	South Africa	KP009770.1– KP009779.1
Blue tongue virus	BTV	SZ97-1/ serotype 1	1993	Southern India	JN848759– JN848768
Epizootic hemorrhagic disease virus	EHDV	New Jersey/ serotype1	1994	USA	KU173875.1– KU173883.1
Equine encephalosis virus	EEV	HS103-06	2008	Israel	AB811630.1– AB811639.1
Eubenangee virus	EUBV	AUS1963/01	2012	United Kingdom	JQ070376.1– JQ070385.1
Great Island virus	GIV	CanAr-42	2010	United Kingdom	ADM88592– ADM88601
Kemerovo virus	KEMV	EgAn 1169-61	2012	Russia	KC288130.1– KC288139.1
Tribec virus	TRBV	TRBV	2010	Germany	HQ266581.1– HQ266590.1
Palyam virus	PALV	Chuzan	2015	China	KT887180.1– KT887189.1
Peruvian horse sickness virus	PHSV	PHSV	1997	Peru	NC_007748.1– NC_007757.1
St Croix River virus	SCRV	SCRV	1999	France	AAG34363– AAG34372
Umatilla virus	UMAV	USA1969/01	2010	United Kingdom	AEE98368– AEE98377
Yunnan orbivirus	YUOV	YUOV	2004	France	NC_007656.1– NC_007665.1
Tibet orbivirus	TIBOV	Fengkai	2008	China	KR822286.1– KR822295.1
		XZ0906	2009	China	KF746187.1– KF746196.1



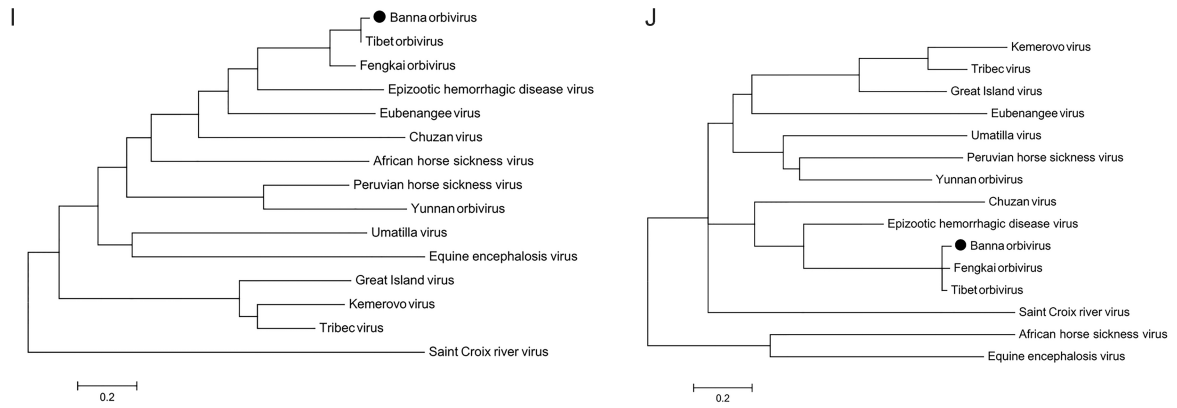


Figure S1. Phylogenetic analyses of nucleotide sequences of the 10 genomic segments (S1–S10) of BAOV and other known orbiviruses. The accession numbers of the other strains are shown in [Table S1](#).

Table S2. The organization and the BLAST results for different regions of BAOV genome

Region	TIBOV (XZ0906)				Fengkai orbivirus			
	nt		aa		nt		aa	
	Cov (%)	Iden (%)	Cov (%)	Iden (%)	Cov (%)	Iden (%)	Cov (%)	Iden (%)
Seg1	100	92	100	99	100	91	100	99
Seg2	12	70	99	42	95	97	97	98
Seg3	100	80	99	96	99	80	99	96
Seg4	100	96	100	99	100	98	100	99
Seg5	100	96	100	99	99	97	100	99
Seg6	96	71	98	85	96	98	98	100
Seg7	100	95	100	99	100	93	100	99
Seg8	100	89	100	97	100	97	100	98
Seg9	100	97	100	92	100	97	100	92
Seg10	100	99	98	99	100	85	98	94