

Supplementary Table 1. Accession numbers of viruses used in this study.

Virus species name	Nucleotide	N protein	G protein	L protein
Kokolu virus	OU592964.1	CAG9163302.1	CAG9163305.1	CAG9163307.1
Puchong virus	MH507505.1	QEA08640.1	QEA08643.1	QEA08648.1
Hayes Yard virus	MH507506.1	QEA08650.1	QEA08653.1	QEA08659.1
Bovine ephemeral fever virus	AF234533	AAG10409.1	AAG10414.1	AAG10420.1
Berrimah virus	HM461974	AEH58016.1	AEH58019.1	AEH58025.1
Huanggang Rhabd tick virus 2	ON746527.1	UYL95591.1	UYL95593.1	UYL95595.1
Malakal virus	JQ941707	AFR67108.1	AFR67111.1	AFR67117.1
Kimberley virus	JQ941664	AFR67088.1	AFR67091.1	AFR67096.1
Mavingoni virus	MN148799.1	QED88193.1	QED88196.1	
Adelaide River virus	JN935380	AFR23533.1	AFR23535.1	AFR23540.1
Obodhiang virus	HM856902	AEI17641.1	AEI17644.1	AEI17649.1
Porcine ephemerovirus 2	OK086698.1	UNP42117.1	UNP42120.1	UNP42126.1
Porcine ephemerovirus 1	OK086697.1	UNP42107.1	UNP42110.1	UNP42116.1
New Kent County virus	MF615270.1	AUW34396.1	AUW34399.1	AUW34406.1
Kotonkan virus	HM474855	AEI17630.1	AEI17633.1	AEI17640.1
Koolpinyah virus	KM085029	AIR95558.1	AIR95561.1	AIR95568.1
La Joya virus	KM204986	AJR28298.1	AJR28297.1	AJR28296.1
Rochambeau virus	KM205012	AJR28501.1	AJR28500.1	AJR28499.1
Santa barbara virus	KM350503	AIS40844.1	AIS40848.1	AIS40850.1

Supplementary Table 2. Gene annotation of Punjab virus.

BLASTp top hit				
Protein	Length (amino acids)	Virus name	Accession	Identity (%)
N	432	Puchong virus	QEA08640.1	91.2
P	269	Kokolu virus	CAG9163303.1	46.4
M	226	Kokolu virus	CAG9163304.1	81.9
G	649	Puchong virus	QEA08643.1	63.9
Gns	580	Kokolu virus	CAG9163306.1	57.1
α 1	121	Puchong virus	QEA08644.1	54.5
α 2	129	Puchong virus	QEA08645.1	51.2
β	145	Puchong virus	QEA08646.1	75.2
γ	110	Puchong virus	QEA08647.1	80.0
L	2148	Kokolu virus	CAG9163307.1	77.0

Supplementary Table 3. Mapped read number and sample information in the bioproject PRJNA514883.

SRA Run accession	Mapped read	Condition	Region
SRR8476835	43997	Metiris positive	Ludhiana, India
SRR8476836	14	Metiris positive	Ludhiana, India
SRR8476837	7	Tuberculosis positive	Ludhiana, India
SRR8476838	3	Tuberculosis positive	Ludhiana, India
SRR8476839	0	Healty	Ludhiana, India
SRR8476840	0	Healty	Ludhiana, India