

SUPPLEMENTARY MATERIAL

Table S1. Top BLAST results from submission of the consensus sequence of the L gene. Abbreviations: P = 530 bp fragment obtained with the pan-*Paramyxovirus* RT-PCR, R = 439 bp fragment obtained with the *Respiro-Morbilli-Henipavirus* RT-PCR.

Scheme .	Number of detections	GenBank BLAST ID	GenBank Accession	Nucleotide identity (%)
Z15-U17P	1	Bat Paramyxovirus Eid_hel/ZFB09-07/Zambia/2009 L gene for RNA polymerase, partial cds	AB853094.1	99.25
Z15-U27P	15	Eidolon helvum paramyxovirus clone U68G large protein (L) gene, partial cds	JN648082.1	96.98
		Eidolon helvum paramyxovirus clone U64A large protein (L) gene, partial cds	JN648077.1	96.79
Z15-U111P	1	Eidolon helvum paramyxovirus clone U69D large protein (L) gene, partial cds	JN648084.1	98.87
		Eidolon helvum paramyxovirus clone U69C large protein (L) gene, partial cds	JN648083.1	98.68
Z15-U12R	31	Paramyxovirus bat/GH27a/2009 polymerase (L) gene, partial cds	FJ971940.1	98.63
		Eidolon helvum paramyxovirus clone U61A polymerase (L) gene, partial cds	JN862578.1	98.38
Z15-U17R	3	Bat Paramyxovirus Eid_hel/GB1678/GAB/2005 isolate		
		BatPV/Eid_hel/GB1678/GAB/2005 RNA-dependent RNA polymerase (L) gene, partial cds	HQ660144.1	99.54
		Bat Paramyxovirus Eid_hel/GB1535/GAB/2005 isolate		
		BatPV/Eid_hel/GB1535/GAB/2005 RNA-dependent RNA polymerase (L) gene, partial cds	HQ660141.1	99.08
Z15_U27R	11	Eidolon helvum paramyxovirus clone U51B polymerase (L) gene, partial cds	JN862573.1	99.54
		Eidolon helvum paramyxovirus clone U51A polymerase (L) gene, partial cds	JN862564.1	99.09
		Eidolon helvum paramyxovirus clone U50B polymerase (L) gene, partial cds	JN862580.1	98.18
		Eidolon helvum paramyxovirus clone U63A polymerase (L) gene, partial cds	JN862574.1	98.18
		Eidolon helvum paramyxovirus clone U64A polymerase (L) gene, partial cds	JN862575.1	97.72
		Eidolon helvum paramyxovirus clone U49B polymerase (L) gene, partial cds	JN862572.1	97.72
Z15-U78R	13	Bat paramyxovirus Eid.hel/GH45/2008 polymerase (L) gene, partial cds	GQ168929.1	99.09
		Bat Paramyxovirus Eid_hel/GH-M61a/GHA/2009 isolate		
		BatPV/Eid_hel/GH-M61a/GHA/2009 RNA-dependent RNA polymerase (L) gene, partial cds	HQ660133.1	95.67
		Eidolon paramyxovirus RC09 partial L gene for RNA-dependent RNA polymerase, isolate EPMV_RC09_214s	HE647822.1	94.99
Z15-U86R	10	Eidolon helvum paramyxovirus clone U54B polymerase (L) gene, partial cds	JN862571.1	97.72
		Eidolon paramyxovirus RC09 partial L gene for RNA-dependent RNA polymerase, isolate EPMV_RC09_222k	HE647825.1	97.49
		Eidolon helvum paramyxovirus clone U54A polymerase (L) gene, partial cds	JN862563.1	97.49
		Eidolon helvum paramyxovirus clone U59B polymerase (L) gene, partial cds	JN862579.1	97.27

Z15-U115R	1	Eidolon helvum paramyxovirus clone U58B polymerase (L) gene, partial cds	JN862583.1	76.26
		Eidolon helvum paramyxovirus clone U32A polymerase (L) gene, partial cds	JN862594.1	75.8

Table S2. Information of the virus sequences used for phylogenetic analyses downloaded from GenBank (NCBI).

Abbreviated as displayed on tree	GenBank Accession	GenBank ID
Measles virus	AB016162.1	Measles virus genomic RNA, complete sequence
BatPV Eid hel ZFB09 07 Zambia	AB853094.1	Bat Paramyxovirus Eid_hel/ZFB09-07/Zambia/2009 L gene for RNA polymerase, partial cds
Canine distemper virus	AF014953.1	Canine distemper virus, complete genome
Hendra virus	AF017149.3	Hendra virus, complete genome
Tupaia paramyxovirus	AF079780.2	Tupaia paramyxovirus, complete genome
Newcastle disease virus	AY845400.2	Newcastle disease virus strain LaSota, complete genome
J-virus	AY900001.1	J-virus, complete genome
Nipah virus Bangladesh	AY988601.1	Nipah virus from Bangladesh, complete genome
BatPV GH27a Ghana	FJ971940.1	Paramyxovirus bat/GH27a/2009 polymerase (L) gene, partial cds
BatPV Eid hel GH45	GQ168929.1	Bat paramyxovirus Eid.hel/GH45/2008 polymerase (L) gene, partial cds
Tuhoko virus 1	GU128080.1	Tuhoko virus 1, complete genome
Tuhoko virus 2	GU128081.1	Tuhoko virus 2, complete genome
Tuhoko virus 3	GU128082.1	Tuhoko virus 3, complete genome
Eidolon PV isolate EPMV RC09 214s	HE647822.1	Eidolon paramyxovirus RC09 partial L gene for RNA-dependent RNA polymerase, isolate EPMV_RC09_214s
Eidolon PV isolate EPMV_RC09_222kl	HE647825.1	Eidolon paramyxovirus RC09 partial L gene for RNA-dependent RNA polymerase, isolate EPMV_RC09_222k
Ghanaian bat henipavirus	HQ660129.1	Bat Paramyxovirus Eid_hel/GH-M74a/GHA/2009, complete genom
BatPV Eid hel M61a Ghana	HQ660133.1	Bat Paramyxovirus Eid_hel/GH-M61a/GHA/2009 isolate BatPV/Eid_hel/GH-M61a/GHA/2009 RNA-dependent RNA polymerase (L) gene, partial cds
BatPV Eid hel GB1535 Gabon	HQ660141.1	Bat Paramyxovirus Eid_hel/GB1535/GAB/2005 isolate BatPV/Eid_hel/GB1535/GAB/2005 RNA-dependent RNA polymerase (L) gene, partial cds
BatPV Eid hel GB1678 Gabon	HQ660144.1	Bat Paramyxovirus Eid_hel/GB1678/GAB/2005 isolate BatPV/Eid_hel/GB1678/GAB/2005 RNA-dependent RNA polymerase (L) gene, partial cds
BatPV Eid hel clone U44A	JN648059.1	Eidolon helvum paramyxovirus clone U44A large protein (L) gene, partial cds
BatPV Eid hel clone U49B	JN648067.1	Eidolon helvum paramyxovirus clone U49B large protein (L) gene, partial cds
BatPV Eid hel clone U64A	JN648077.1	Eidolon helvum paramyxovirus clone U64A large protein (L) gene, partial cds
BatPV Eid hel clone U66A	JN648078.1	Eidolon helvum paramyxovirus clone U66A large protein (L) gene, partial cds

BatPV Eid hel clone U68G	JN648082.1	Eidolon helvum paramyxovirus clone U68G large protein (L) gene, partial cds
BatPV Eid hel clone U69C	JN648083.1	Eidolon helvum paramyxovirus clone U69C large protein (L) gene, partial cds
BatPV Eid hel clone U69D	JN648084.1	Eidolon helvum paramyxovirus clone U69D large protein (L) gene, partial cds
BatPV Eid hel clone U6B	JN648086.1	Eidolon helvum paramyxovirus clone U6B large protein (L) gene, partial cds
BatPV Eid hel clone U9D	JN648089.1	Eidolon helvum paramyxovirus clone U9D large protein (L) gene, partial cds
BatPV Eid hel clone U6B	JN862562.1	Eidolon helvum paramyxovirus clone U6B polymerase (L) gene, partial cds
Bat PV Eid hel clone U54A	JN862563.1	Eidolon helvum paramyxovirus clone U54A polymerase (L) gene, partial cds
Bat PV Eid hel clone U51A	JN862564.1	Eidolon helvum paramyxovirus clone U51A polymerase (L) gene, partial cds
BatPV Eid hel clone U62A	JN862567.1	Eidolon helvum paramyxovirus clone U62A polymerase (L) gene, partial cds
BatPV Eid hel clone U59A	JN862570.1	Eidolon helvum paramyxovirus clone U59A polymerase (L) gene, partial cds
Bat PV Eid hel clone U54B	JN862571.1	Eidolon helvum paramyxovirus clone U54B polymerase (L) gene, partial cds
Bat PV Eid hel clone U51B	JN862573.1	Eidolon helvum paramyxovirus clone U51B polymerase (L) gene, partial cds
Bat PV Eid hel clone U63A	JN862574.1	Eidolon helvum paramyxovirus clone U63A polymerase (L) gene, partial cds
Bat PV Eid hel clone U64A	JN862575.1	Eidolon helvum paramyxovirus clone U64A polymerase (L) gene, partial cds
BatPV Eid hel clone U42B	JN862577.1	Eidolon helvum paramyxovirus clone U42B polymerase (L) gene, partial cds
Bat PV Eid hel clone U61A	JN862578.1	Eidolon helvum paramyxovirus clone U61A polymerase (L) gene, partial cds
Bat PV Eid hel clone U59B	JN862579.1	Eidolon helvum paramyxovirus clone U59B polymerase (L) gene, partial cds
Bat PV Eid hel clone U50B	JN862580.1	Eidolon helvum paramyxovirus clone U50B polymerase (L) gene, partial cds
Bat PV Eid hel clone U58B	JN862583.1	Eidolon helvum paramyxovirus clone U58B polymerase (L) gene, partial cds
BatPV Eid hel clone U68B	JN862590.1	Eidolon helvum paramyxovirus clone U68B polymerase (L) gene, partial cds
Bat PV Eid hel clone U32A	JN862594.1	Eidolon helvum paramyxovirus clone U32A polymerase (L) gene, partial cds
Achimota pararubulavirus 1	JX051319.1	Achimota virus 1, complete genome
Mojiang virus	KF278639.1	Mojiang virus isolate Tongguan1, complete genome
Hendra virus Horse	MN062017.1	Hendra henipavirus strain HeV/Australia/1994/Horse18, complete genome
Achimota pararubulavirus 3	MT062420.1	Achimota pararubulavirus 3 isolate U72, complete genome
Sendai virus	NC_001552.1	Sendai virus genomic RNA, antisense, complete sequence
Human parainfluenza virus 3	NC_001796.2	Human parainfluenza virus 3, complete genome

Mumps virus	NC_002200.1	Mumps virus, complete genome
Nipah virus Malaysia	NC_002728.1	Nipah virus, complete genome
Human rubulavirus 2	NC_003443.1	Human rubulavirus 2, complete genome
Human parainfluenza virus 1	NC_003461.1	Human parainfluenza virus 1, complete genome
Tioman virus	NC_004074.1	Tioman virus, complete genome
Mossman virus	NC_005339.1	Mossman virus, complete genome
Rinderpest virus	NC_006296.2	Rinderpest virus (strain Kabete O), complete genome
Peste des petits ruminants virus	NC_006383.2	Peste des petits ruminants virus complete genome
Simian virus 41	NC_006428.1	Simian virus 41, complete genome
Parainfluenza virus 5	NC_006430.1	Parainfluenza virus 5, complete genome
Beilong virus	NC_007803.1	Beilong virus, complete genome
Mapuera virus	NC_009489.1	Mapuera virus, complete genome
Porcine rubulavirus	NC_009640.1	Porcine rubulavirus, complete genome
Nariva virus	NC_017937.1	Nariva virus, complete genome
Human parainfluenza virus 4	NC_021928.1	Human parainfluenza virus 4a viral cRNA, complete genome, strain: M-25
Sosuga virus	NC_025343.1	Sosuga virus isolate 2012, complete genome
Cedar virus	NC_025351.1	Cedar virus isolate CG1a, complete genome
Achimota pararubulavirus 2	NC_025404.1	Achimota virus 2, complete genome
Bat mumps orthorubulavirus	NC_038271.1	Bat Paramyxovirus Epo_spe/AR1/DRC/2009, complete genome
Menangle virus	NC_039197.1	Menangle virus isolate Australia/bat/2009/Cedar Grove, complete genome

Table S3. Nucleotide sequences detected using PCR.

Abbreviations: P = 530 bp fragment obtained with the pan-*Paramyxovirinae* RT-PCR, R = 439 bp fragment obtained with the *Respiro-Morbilli-Henipavirus* RT-PCR

Sequence Name	Genbank ID: description	Nucleotide Sequence
Z15-U12R	MZ393364 RMH Bat Eid hel/GH/2015/U12R	ATATCGAGACAGACATGGTGGAAATTTGGCCAGAATGTTATCTCCCAACCAC- GCTTCTCAAATAATTAAGAGTAAAAAGATGAATGGGGAAGGGTTATCTATAGAG- GATTGTGTCGAAAACCTGGCGATCATTTTGTGGAT- TTAAATTCGGGTGTTTTATGTCTTTAACTTTAGATGAGGATCTGAGCATGTACATGAAAGA- CAAAGCTTTGTCTCCCATTAATCACAATGG- GACTCTGTTTACCCTAATGCCAACATGAAATACACGCCAAAGCCTAGTACTA- CATCCAGAAGATTGGTAGACGTATTTATCAATGATGCTGAGTTTGAACCGTCAAATTTAA- TAAACTATGTAATCAACGGTGACTATTTGGTGGATGAAGAT- TTCAACATTTCTTATAGTCTAAAAGAAAAAGAGTCAAAGAAGTTGGGAGACTG
Z15-U17R	MZ393365 RMH Bat Eid hel/GH/2015/U17R	TTATAGAGACAGGCATGGAGGTGCCTGGCCTCCCGTCAAGTTTCCAGAGCAC- TGCTCAAAAA- GCATACTGAGACTCAAAAATTCTGGCGAATCTATTACTATAGAAGATTGTGTTAAAACTG GGAATCATTTTGCGGCATTGAATTCGGTTGTTTTATGGACTTAAACCTGGACAC- TGATCTAA- GCATGTATATGAAAGATAAGGCTTTGTACCTATCAAAGAAGAATGGGATAGTGTATACC CTAAAGAGGTATTGTCATATAAACCTCCCAAATTAACAGAGCCCAGAAGACTAG- TAGATGTATTTGTCAATGACCCAGATTTTGATCCTTATGAAATGATTCAGTATGTCTTGACA

		GGAGCATACCTAACAGACCCGAAGTTCAATGTCTCGTATAGTTTGAAAGAGAAA-GAAACTAAGCAAGCAGGGAGATTA
Z15-U27R	MZ393366 RMH Bat Eid hel/GH/2015/U27R	TTTtagagatcaacatggaggtgcttggcctccggtagttttac- CAAATCATGCAGACCCTAGGATAAAAAAGACTTAAAAACAATGATGAAGCAATCTC- TATTGAGGATGCCATTAAATACTGGAAATCATTGTAGGGTTCCACTTTAAGA- CATTATGCCTTTAAACTTGGACAAAGATTAAAGTATGTATATGAAAGA- CAAGGCTTTATCACCAATCAAATCAGAGTGGGATTCTGTATACCCAAAAGATAA- TATGCTTTATGTTCTCCGAAAAATACAACATCAAGAAGATTAGTTGATGTATTCCTT- GATGATTCCGATTTTGATCCTATGAATTTGATCAATTATGTTATATCTGGTGATTATT- GAAAGATCCTGATTTCAACATATCTTATAGTTTAAAGGAAAAAGAGACAAAACAAGTT- GGTCGGTTA
Z15-U78R	MZ393367 RMH Bat Eid hel/GH/2015/U78R	GTATAGAGATAGACATGGAGGTACTTGGCCACCCTGTAATCTTCTCCCCATTGTTAC- CTGCCATTGCAAAAAACAACATAATGCAGAATCAGTGCAATAGAGGACTG- TATTCAAAATTGGCAATCATTTTGTGGGTTCAGTTTCAAGTGTTTTATGCCATTATCATT- AGATTCAGATCTTAGTATGTACATGAAGGACAAAGCATTATCACCTAA- TAAATCAGAATGGGACTCTGTCTATCCCGCAACAAACACCAAATACACACCACCTA- GATCTCAAACATCTAGGAGATTAGTTGATAGGTTCAATGAAGATGATGAGTTTGAAC- CATCTGACATGATCAATTATGTCCTTTCAGGTGAGTATCTCAGTGATGATACATTAA- TATCTCATACAGTCTAAAAGAGAAAAGAAGTCAAAGAAGTCGGACGATTA
Z15-U86R	MZ393368 RMH Bat Eid hel/GH/2015/U86R	CTATCGAGATCAACATGGAGGTGCCTGGCCTCCTGTTCACTTCAAGGACCATATAA- GCAAAAAGATCAAGAGGTTAATGATTAATAATGAGGCAATATCTGTAGAAGATGCAG- TTCTGAACTGGAAATCCTTTATAGGTTTCAAATTTGGTATATTTATGCCACTTGATCTGGA- TAGTGATTTGAGCATGTATATGAAAGATAAAGGCATTATCTCCATTGAACAAAGATTGG- GATTCCGTTTATCCTAAGGAAAATTTGAAATACACACCCCCGAAAAGCCAAGTCTCAA- GACGTCTCGTGGATGTATTTTGAAGATGAACAATTTGACCCTGTCAATTTGATTAAAC- TATGTTCTTAGTGGAGAATACTTACAAGACAAGAATTTCAACATCTCTTATAGTTTAAAA- GAAAAGGAGACAAAACAAGCTGGTCGACTA
Z15-U115R	MZ393369 RMH Bat Eid hel/GH/2015/U115R	ATTCCGAGATCAACATGGAGGTGCTTGGCCCCCTATCACATTCCCAGAGCATGTTGA- TAAACATATTAAGACTACAAATCAATAGCGAAGCAATATCTGTAGAAGATGCTATACT- AAATTGGAGATCTTTTGTGGGTGCCATTTCAAGCAATTTATGCCTCTCGATTTAGA- TAAGGATCTTAGTATGTACATGAAAGATAAAGCATTATCCCCAATTAAGGAATGG- GATTCAGTATATCCTAGGGACAGTATGTATTATTGTCCTCCCAATCAACGACTTCAC- GCAGATTGGTTGAGGTATTCTTAGAAGATTCTGAATTCGATCCAGCAGAACTAATGGAG- TATGTATTGTCTGGCGATTATCTTAATGACCAAGATTTTAATATAAGTTACAGTCTCAA- GAGAAAGAAACAAAACAAGTGGGTAGACTT
Z15-U17P	MZ393370 PAR Bat Eid hel/GH/2015/U17P	TGAATCAATAGCGATCACACAGAAAGTTCATCCAAATTTAC- CATACAGGGTCAAAAAGGAAATATGTGCAAAGCAAGCACAAATATATTTCAAGAGAT- TAAGGGAAAATTTAAGATCATTAGGCCATGATCTCAAGGCAACTGAAACAATTATCAG- CACACACCTCTTTGTATACTCCAAGAAAAATACATTATGATGGGGCAGTACTTTCCCAA- GCACTTAAATCCATATCTAGGTGTTGTTTCTGGTCAGAGACATTAGTG- GATGAAACTAGGTCAGCATGCAGTAATATCAGCACTGCTATAGCTAAAAGCATAGA- GAATGGTCTATCTAAAGATGTAGGCTACTGCTT- GAACTTTTTAAAAGTTTTACAACAATTACTGATTGCGACTGAATTCGGAATTAATGATAC- GTTGACACCAGACGTTACCAGGCCGATAACTGAAAACCCGGAGTGGTTAATTACAGCGG- CATTAATCCCAGCACCAATTGGAGGATACAACATTTGAATATGTCTAGAATATACGTTA
Z15-U27P	MZ393371 PAR Bat Eid hel/GH/2015/U27P	CCAATCAATAGCAATCACAAGGAGAGTTCATCCCTCATTAAAGTTTCAAAGCCAAAAAAGA- TATTGCTGCAGATACAACACAAAAATACTTCTTAAGACTTCGGGAGAATCTAAGAGCTTTA GGTCATGATCTTAAAGCAAACGAAACAATTATGAGCACAGCATTTTTTGTATATTCAA- GAA- GATATATTATGATGGACTTGATTGTACAGGCACTTAAATCTATTGCAAGATGTTGCTTTT GGTCTGAAACACTAGTGGATGAATCACGATCAGCATGTTCAAACATATCAACTACCATT- GCCAATCTATTGAAAACGGATTATCGAAGAAAGCAGGTTACTGCCTTAATCTACTAAAAA

		CTCTTCAACAATTATACATTACCCTGGGATTCAATATTAATGAGACATTAACAGAG- GATGTGACTAAATCTATGATCCAAAATTATAGCTGGTTGATATCAGCTTCATTACTTCCAGC TCCTTTAGGAGGATTCAATTATCTTAATATGTCCCGTGTGTTTGTA
Z15-U111P	MZ393372 PAR Bat Eid hel/GH/2015/U111P	TCAAGCTATCGCAATTACTGCAAAGGTGCCTCGTGCAGCTCCGTACCAAGAGAAGAAGA- GAATAGCATTTGAGAATAGCAAATTGTTCAATTGAGCGTCTTAGAGCAAATAA- TAAAGGATTAGGACATCATCTCAAAGAGCAAGAGACAATTTGAGTTCGAGTTCTTT- GTTTACAGCAAGCGCATCTTTTTTCGCGGAAGGAT- TTTAAATCAGGCATTAATAAATGTTAGCAAATAAACCTAATT- GCAGATGTTCTAAGTGAATGCAGTCAGACTTCATGTGCTAATTTGACCACAACAG- TGATGAGACTCACAGAAAATGGGGTCGAGAAAGATATTTGTTACTTCCTCAG- TATTTATCTCTCTATTAAGCAATTGGTCTATGATCTGATGTTCCCGATGACTACATTCATT- GAAGATGCTATTACTTCTTTATATCTCAACCACCCTATCTTGATTGCTAGAC- TATGTGTGTTACCTTCACAGCTTGGCGGGCTCAATAATTACTCAATCAGCAGAT- TATTTAACA