

Supplementary material S8. Alignment of the putative RNA-dependent RNA polymerase (RdRp) of the novel mongoose PBV-like strain M17A with those of the prototype human genogroup-I PBV strain (PBV/Human/CHN/1-CHN-97/1997) and mongoose PBV GI strain PBV/Mongoose/KNA/M17B/2017. The M17A and M17B RdRp sequences were identified in the same fecal sample. The putative M17A RdRp translated using the mold mitochondrial genetic code and the invertebrate mitochondrial genetic code is shown with red and green font, respectively. Amino acid (aa) mismatches between putative RdRps generated using the alternative mitochondrial genetic codes (that of mold and invertebrate) are highlighted with blue. The three conserved domains in the putative RdRps are highlighted with yellow. A ‘*’ denotes an identical aa residue, whilst ‘-’ indicates absence of an aa residue. Numbers to the right indicate the positions of the aa for respective PBV strains.

PBV/Human/CHN/1-CHN-97/1997	-MPKNNEVSFG-----EYFNLP-NPGLKSYFDRVRS GNTDEYRTT	38
PBV-like/Mongoose/M17A/2017	MIKKLNLK-----DYFILP-NQGLQSYLHKTEVGS DLDIRTP	36
PBV-like/Mongoose/M17A/2017	MIKKLNLK-----DYFILP-NQGLQSYLHKTEVGS DLDIRTP	36
PBV/Mongoose/M17B/2017	-MPKNVTSFINNHFVD TNYSYFTHSGFQSLRTYMGNVVKGPVKVYTAP	49
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	FFRGRSLDSILKAWKPTLDK--IENDWPTLLD FENDLAKVGP LSIQKPL	86
PBV-like/Mongoose/M17A/2017	FWDEKFPSSIMAMWQAVVDSSNLEAKLPGLYKFEMDMKSKVGP LSVQEP	86
PBV-like/Mongoose/M17A/2017	FWDEKFPSSIMAMWQAVVDSSNLEAKLPGLYKFEMDMKSKVGP LSVQEP	86
PBV/Mongoose/M17B/2017	FAKGSTIQSVLDDWQEV LVS--ISDKWPSLWEFEMDLASKVGP LSVQKPL	97
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	AERLDDIESYYESISLDSEPIRSATAAVIAEWGDARGIQLRGQRKTVDN	136
PBV-like/Mongoose/M17A/2017	LSRI PDVMDYYNDP--KGQEVSPRAIACVKEEFKALGSLRLDADATVAE	134
PBV-like/Mongoose/M17A/2017	LSRI PDVMDYYNDP--KGQEVSPRAIACVKEEFKALGSLRLDADATVAE	134
PBV/Mongoose/M17B/2017	RERITDIAHYIEDILLSSTPIDPVAIKQTIGEFNKARGLRRRSQARTVEM	147
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	MKKS TNSGSPFFTKRRRAVDKTI PARLDY-----LGVQTKQFLNNSDW	179
PBV-like/Mongoose/M17A/2017	MRRNTNSGAPYFTRRSRVESESL-----ELAKTRSL	165
PBV-like/Mongoose/M17A/2017	MRRNTNSGAPYFTRRSRVESESL-----ELAKTRSL	165
PBV/Mongoose/M17B/2017	MKKS TNSGNPFFTKRRNVLDTFPCGVDTFNPVYYLQDAYQMLFNNDNF	197
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	YSAAVLGWRGQEGGPTDEDVKQRVVMFFPGVNVKELQFYQPAIEIAQKR	229
PBV-like/Mongoose/M17A/2017	AYPAVLGWSGQEGGIDTDNVKQRVVMFFQTNI AELQFYQPMIRAIQAH	215
PBV-like/Mongoose/M17A/2017	AYPAVLGWSGQEGGIDTDNVKQRVVMFFQTNI AELQFYQPMIRAIQAH	215
PBV/Mongoose/M17B/2017	KACAVIGWRGQEGGPEDEDVKQRVVMFFFAVNIEELTVYQPLIETFQRF	247
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	WITPAWIGMEAVDQRITKLFDTKAKSELVICTDFSKFDQHFNMKMDQDAAR	279
PBV-like/Mongoose/M17A/2017	KLIPAYLDHTAVDARTNLFDTKPTGDLVVETDFTKFDQSFWTPLQHVAR	265
PBV-like/Mongoose/M17A/2017	KLIPAYLDHTAVDARTNLFDTKPTGDLVVETDFTKFDQSFWTPLQHVAR	265
PBV/Mongoose/M17B/2017	NLVPANVSMESVDMEVTRLFDTKNSDDLVCCTDFTKFDQHFNVLDLQNAAK	297
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	TIIAALLNGSSES RDWLDNVFPVKYAI PLAMDG----VVKTGPHGMGSG	325
PBV-like/Mongoose/M17A/2017	AVYADWG---PQLDKWIREVFPVKYNI PMVLSNN----LISTGPHGMASG	308
PBV-like/Mongoose/M17A/2017	AVYADWG---PQLDKWIREVFPVKYNI PMVLSNN----LISTGPHGMASG	308
PBV/Mongoose/M17B/2017	TILQWIMSRENRVDWFENVFGIKYMI PLLWEAQADIVSVFHGPHGMASG	347
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	SGGTNFDETLTHRALQYEAQKAKSVLNPN SQCLGDDGILSYPGITVEDV	375
PBV-like/Mongoose/M17A/2017	SGGTNADESIAHRAHQHEAALASGQTLHPSSMAYGDDGILTFKGITVDKV	358
PBV-like/Mongoose/M17A/2017	SGGTNADESIAHRAHQHEAALASGQTLHPSSMAYGDDGILTFKGITVDKV	358
PBV/Mongoose/M17B/2017	SGGTNVDETLAHRAHQREAAIKSKQILNPHSMCLGDDGILSYPGITVNEV	397
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	TRSYSAHQEMNIDKQYASAHDC TYLRRWHHDDYRVDGVCVGYATYRAL	425
PBV-like/Mongoose/M17A/2017	VAQYTKHGVTMNESKQGASTTECVFLRRWHSMSYRKNGIMVGYSTFRAL	408
PBV-like/Mongoose/M17A/2017	VAQYTKHGVTMNESKQGASTTECVFLRRWHSMSYRKNGIMVGYSTFRAL	408
PBV/Mongoose/M17B/2017	VDAYQSHGQECNL SKQYASTQDCVYLRWHHKDYRDNGVCVGYSTCRAL	447
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	GRLCEQERYDPEVWVGPKMVALRQLSII ENCKYHPLREEFVNFCMKGDKY	475
PBV-like/Mongoose/M17A/2017	GRIMGQERYDYPKQWGPVMVIMRALSILENCNQHPLFEEFIEFVIKGDY	458
PBV-like/Mongoose/M17A/2017	GRIMGQERYDYPKQWGPVMVIMRALSILENCNQHPLFEEFIEFVIKGDY	458
PBV/Mongoose/M17B/2017	GRLRYLERFMDPEYWSQPMVALRQLSII ENCKYHPLRDEFAEFCKMRDKY	497
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	RLGLDIPGFLDNIEKLAMEATD LMPDFLG YTKSLGTSGDRGIGQWVVVNY	525
PBV-like/Mongoose/M17A/2017	GLGTLKPGFLDNLQAMYAKARDVMPDYG GFVN--DNMKRKGILSWKVQY	506
PBV-like/Mongoose/M17A/2017	GLGTLKPGFLDNLQAMYAKARDVMPDYG GFVN--DNMKRKGILSWKVQY	506
PBV/Mongoose/M17B/2017	RLGIDIPGFLDKIATYAKESIDHMPDFLG YTKTLQGFKPTGISEWVIVKY	547
	* * * * *	
PBV/Human/CHN/1-CHN-97/1997	LKSLR	530
PBV-like/Mongoose/M17A/2017	LINR-	510
PBV-like/Mongoose/M17A/2017	LINR-	510
PBV/Mongoose/M17B/2017	LKSHR	552
	*	