

## Supplementary data

### Suppl. S1: List of primers used for the completion of genome and screening

Description	Primer name	Primer sequence (5'→3')
Screening primers for human and bat RVAs	RVA-VP6_40F RVA-VP6_1083R	GCK AGR GAC AAR ATT GTY GAA GG GWC CAA TTC ATR CCT GGT GGA
Primers for completing segments of RVA/Bat-wt/CMR/BatLy03/2014/G 25P[43]	RVA59_VP1_301-322R RVA59_VP1_328-349F RVA59_VP1_737-758R RVA59_VP1_2991-3013F RVA59_VP1_3048-3072F RVA59_VP3_76-100F RVA59_VP3_787-809R RVA59_VP3_1795-1818F RVA59_VP4_2063-2084F RVA59_VP4_171-195R RVA59_NSP1_1433-1453F RVA59_NSP5_389-411F	TTA GCT AAT TTA CCC TCA ACG G AAG CTA ACG TCA GAA TTA TTC GC GCT ACT AAG ATT GAC ATT GGT G GTC AAT AAA CTA TGG CTG TTA CC ATT AAT TCG TAT ACC CTT CAA AGG T CAA TCT TAT GCT GAT ACT CAA ACG TGT CAA ATT GTG AAA TAC GTC GC CGT TAT CTG GTT ACA TAT TTA GAG GAA CAG ATG GTA GAT TTT TCG C TAC AGT TGT TGA ATC GTT AAT TTC C AAA TCA CTC TTA TTC CGG TGG ATC AAT TAC TAC GGA TCA TGC TG
Primers for completing segments of RVA/Bat-wt/CMR/BatLi10/2014/G 30P[42]	RVA46_VP4_118-137_F RVA46_VP4_839-860_R RVA46_VP7_172-191_F RVA46_VP7_803-823_R	TTA CGC ACC AGT GAA TTG GG ACC ACT TAT ATC CTA AAC CAC C TCA ATG GAC GTT GTG TTG GC GAT TTG TTG TTG GAT CTG ACG
Primers for the amplification of 5' and 3' ends of VP7 and VP4 segments	RVA63_VP7-5'-227_R RVA63_VP7-3'-839_F RVA894_VP7-5'-202_R RVA894_VP7-3'-788_F RVA59_VP7-5'-213_R RVA59_VP7-3'-843_F RVA63_VP4-5'-230_R RVA63_VP4-3'-2143_F RVA59_VP4-5'-214_R RVA59_VP4-3'-2100_F RVA894_VP4-5'-158_R RVA894_VP4-3'-2072_F	TTA CTAGAC TCA TGT CCA TCG AGT ATT ACA AGT TGG AGG TGC TGT AAC CGG TAT GTT CAA TCC GTA AGA AAA TCG GAC CTA GAG TCC ATT GAT CCA GTA ATT GGC TAT AAC AGC AGA TCC AAC GAC ATA CCC AAT TAT CGA CTG CTG CTT GTA ACT GAT TCA CCA GTC AAA TTC TGT TGG CTG ATA GGG AGA TTT TTC GCA TAT AAA GTG AGC TAC TGT TGA GTC ATT TAC TTC CC GAA CAG ATG GTA GAT TTT TCG C

**Suppl. S2:** Nucleotide percentage similarity between primers and corresponding sequences of Cameroonian bat RVA strains. -: 5' or 3'-end amplification failed.

Name of primer	BatLy03 G25P[43]	BatLi08 G31P[42]	BatLi09 G30P[42]	BatLy17 G30P[xx]	BatLi10 G30P[42]	Reference (PMCID)
<b>Outer capsid glycoprotein VP7 forward primers</b>						
Beg9	96.4	57.1	-	85.7	-	269590
sBeg9	100	57.1	-	90.5	-	269590
9Con1-L	100	100	-	100	-	263808
<b>Outer capsid glycoprotein VP7 reverse primer</b>						
EndA	78.2	91.3	95.7	-	-	10364621
VP7-Rdeg	95.0	95.0	100	-	-	114861
End9	85.1	66.7	59.3	-	-	269590
RVG9	89.5	63.2	63.2	-	-	269590
<b>Outer capsid protein VP4 forward primers</b>						
VP4-1-17F	88.8	88.8	77.8	94.4	-	3295124
Con3	72.7	68.2	72.7	63.6	72.7	265294
<b>Outer capsid protein VP4 reverse primer</b>						
Con2	85.7	81.0	81.0	76.2	81.0	265294

**Suppl. S3:** Detail explanations of the comparisons between screening primer pairs and the novel bat VP4 and VP7 genotypes

VP7 forward primers Beg9, sBeg9 and 9Con1-L showed a (near) perfect match with BatLy03-G25, whereas strain BatLi08-G31 and BatLy17-G30 (first 6 nt are missing for this strain), showed up to 10 and 4 nucleotide mismatches at the 3'end of the primers, respectively. VP7 forward primer 9con1-L showed a perfect match with all the genotypes (G25, G30 and G31). Considering the VP7 reverse primers EndA, VP7-Rdeg, End9 and RVG9, BatLy03-G25 did not show a perfect match as there were 4, 1, 4 and 2 mutations, respectively. The mismatches with EndA, VP7-Rdeg and RVG9 were near the middle or at the 5'end of the primer, whereas 2 of those of End9 were close to the 3'end. Comparing the same VP7 reverse primers with strain BatLi08-G31 and BatLi09-G30 also showed mismatches. For EndA and VP7-Rdeg maximum 2 mismatches are located in the middle or near the 5'-end, whereas for End9 and RVG, there

were multiple mismatches of which 2 and 7 mismatches, respectively were right at the 3'-end. For VP4 forward primer VP4-1-17F, BatLy03-P[43], BatLi08-P[42], BatLy17-P[xx] and BatLi09-P[42] showed 2, 2, 1 and 2, mismatches, respectively, with at least a mutation at the first position from the 3'end for all of them. For con3, there were 6, 7, 6 and 8 mismatches with BatLy03-P[43], BatLi08-P[42], BatLi09-P[42] and BatLy17-P[xx], respectively. Considering the VP4 reverse primer con2, strains BatLy03-P[43], BatLi08-P[42], BatLi09-P[42], BatLy17-P[xx] and BatLi10-P[42] showed 3-5 mismatches including one at the second position from the 3'-end.

**Suppl. S4:** Phylogenetic trees of nucleotide sequences of the RVA VP6 sequence. HRVA: Human RVA VP6 sequence from patients exposed to bats; open triangle: Cameroonian bat RVA strains; Other bat RVA: KE4582, MSLH14 and MYAS33. Bootstrap values (1000 replicates) above 70% are shown. Scale represent number of nucleotide substations per site.

