

Supplementary Table S1. Primers used to genotype RVA strains detected in foxes.

| Segment/gene | Primer name | Annealing position (nt) | Primer sequence (5'→3')* | RT-PCR product size (bp) | Reference | No. of fox RVA sequences | Genotypes | No. of sequences included in the phylogenetic analysis | | | | |
|--------------|--------------|--------------------------------|---------------------------------------|--------------------------|-----------|--------------------------|---|--|--|--|--|--|
| VP7 | VP7-F | 51-71 | ATG TAT GGT ATT GAA TAT ACC AC | 881 | [29] | 10 | G8 (N= 2), G9 (N= 2), G10 (N= 2), G11 (N= 1), G15 (N= 1), G? (N= 2) ¹ | 9 ^a | | | | |
| | VP7-R | 914-932 | AAC TTG CCA CCA TTT TTT CC | | | | | | | | | |
| | VP7-RINT** | 331-344 | ANA YNG ANC CWG TYG GCC A | 293 | [29] | 10 | G1 (N= 1), G2 (N= 2), G9 (N= 7) | 3 (G1, G2) ^b | | | | |
| | Beg9 | 1-28 | GGC TTT AAA AGA GAG AAT TTC CGT CTG G | 1062 | [32] | 0 | n/a | n/a | | | | |
| | End9 | 1036-1062 | GGT CAC ATC ATA CAA TTC TAA TCT AAG | | | | | | | | | |
| | VP7-up2 | 39-58 | GCT CCT TTT AAT GTA TGG TA | 956 | [30] | | | | | | | |
| | VP7-down3 | 976-995 | GAT CTY GAT CTY TTG GAC AT | | | | | | | | | |
| | N-VP7F1 | 37-58 | TAG CTC CTT TTR ATG TAT GGT A | 333 | [15] | 6 | G1 (N= 1), G3 (N= 1), G5 (N= 1), G6 (N= 2), G8 (N= 1) | 0 | | | | |
| | N-VP7R1 | 354-370 | GTN GGC CAT CCT TTN GT | | | | | | | | | |
| | N-VP7F2 | 49-71 | ATG TAT GGT ATT GAA TAT ACC AC | 193 | | | | | | | | |
| N-VP7R2 | 220-242 | GTR TCC ATD GAT CCA GTN ATT GG | | | | | | | | | | |
| VP4 | VP4_1-17F | 1-19 | GGC TAT AAA ATG GCT TCG C | 700 | [33] | 1 | P[13] | 1 ^c | | | | |
| | VP4R_DEG | ?*** | TCY CTR TTR TAT TGC ATY TCY TTC C | | | | | | | | | |
| | VP4-HeadF | 1-27 | GGC TAT AAA ATG GCT TCG CTC ATT TA | 1100 | [30] | 8 | P[3] (N= 2), P[11] (N= 2), P[13] (N= 1), P[21] (N= 1), P[?] (N= 1) ¹ , P[?] (N= 1) ² | 8 ^d | | | | |
| | VP4-1094R2 | 1076-1101 | AAT GCT TGT GAR TCR TCC CAR TAA TC | | | | | | | | | |
| | VP4-F | 132-149 | TAT GCT CCA GTN AAT TGG | 663 | [29] | 4 | P[14] (N= 1), P[23] (N= 1), P[?] (N= 1) ¹ , P[?] (N= 1) ³ | 4 ^e | | | | |
| | VP4-R | 775-795 | ATT GCA TTT CTT TCC ATA ATG | | | | | | | | | |
| | Rota-Seg4-s | 766-788 | TCT AAR ACA TCA TTN TGG AAR GA | 312 | [31] | 1 | P[11] | 0 | | | | |
| | Rota-Seg4-as | 1057-1078 | GCT TGT GAA TCR TCC CAR TAA TC | | | | | | | | | |
| | N-VP4F1 | 1-20 | GGC TAT AAA ATG GYT TCN YT | 257 | [15] | 0 | n/a | n/a | | | | |
| | N-VP4R1 | 236-257 | ARY ADC CAR TAA TCR NYD RGT G | | | | | | | | | |
| | N-VP4F2 | 10-32 | ATG GYT TCN YTM ATT TAT AGA CA | 214 | | | | | | | | |
| | N-VP4R2 | 203-224 | GNT GGY TGA TAW GGA CCR TCK A | | | | | | | | | |

*N=A/C/G/T; R=A/G; D=A/G/T; Y=C/T; W=A/T; K=G/T; M=A/C

**VP7-RINT was applied in combination with VP7-F

***Annealing position was not provided by primer authors

¹Two RVA strains (L138-VS and L148-VS) of the tentative novel G and P genotype

²RVA strain L281-OB of the tentative novel P genotype

³RVA strain L25-Var of the tentative novel P genotype

^aGenBank accession numbers MW727429-MW727437

^bGenBank accession numbers MW727426-MW727428

^cGenBank accession number MW727444

^dGenBank accession numbers MW727439-MW727443, MW727445-MW727447

^eGenBank accession numbers MW727438, MW727448-MW727450