

Supplement Table S1. Primers used for targeted sequencing by NGS. The primer sequences, amplicon sizes and their positions in LSDV NI-2490 (NC_003027) and the targeted genes are provided.

| Primer name | sequence | Product size/targeted gene (ORF)/position in LSDV NI-2490 |
|-----------------|---------------------------|---|
| EEV_GP_CaPVFw | ATACGTCGTAGTACCATTTTCATTT | 505 pb/ EEV glycoprotein gene (LSDV126)/(116161- 116665) |
| EEV_GP_CaPVRv | TGACTCGGAATTATTTTGTGC | |
| B22R_CaPVFw | TCATTTTCTTCTAGTTCCGACGA | 863 bp/ B22R-like protein gene (LSDV 134)/124207-125069) |
| B22R_CaPVRv | TTCGTTGATGATAAATAACTGGAAA | |
| GPCR_div_CaPVFw | CAGTTAGTAGCGCCACCATGTA | 414 bp/ G protein-coupled chemokine receptor-like protein gene (LSDV011)/(7686- 8099) |
| GPCR_div_CaPVRv | AAGGAAACACCAACACGAAAA | |
| R-Hel_CaPVFw | ACAGCGACACTAGAGGACGA | 400 bp/ RNA-Helicase gene (LSDV049)/(43968- 44367) |
| R-Hel_CaPVRv | TCGTCACGCTTGATTCTAAA | |
| NTP_CaPVFw | CATTGGGAAGAAGGATTTTG | 386 bp/ NTPase gene (LSDV083)/(75005-75390) |
| NTP_CaPVRv | CCACATTCCCGAGAAGAAAA | |
| 4b_CaPVFw | GCTCTTAACAGACATGCTGGAG | 360 bp/ virion core protein p4b gene (LSDV094)/(88690- 89049) |
| 4b_CaPVRv | ATCTCAGCAGGGGCTAGACA | |
| E3_CaPVFw | TTATACGCGTCTACCGAAAGAA | 302 bp/E3 ubiquitin-protein ligase p28-like protein gene (LSDV140)/(133069 133371) |
| E3_CaPVRv | GGAATTCATTCTACATACTGGACA | |