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Supplemental Figure and Tables

- 730 Supplemental Figure 1. Usptream ORFs in the ORF35 transcript
- 731 Supplemental Table 1. Statistics of the Oxford Nanopore PromethION dcDNA and dRNA732 sequencing.
- 733 Supplemental Table 2. Positions of the TSSs, their sample-specific abundances, and associated
 734 promoter elements.
- **Supplemental Table 3.** Positions of the TESs, their abundances in each sample, and the associatedpoly(A) signals.

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- 737 **Supplemental Table 4.** The positions of introns and their abundances across different samples.
- 738 Supplemental Table 5. List of spliced (A), non-spliced (B) transcripts detected by LoRTIA, and
- replication-associated RNAs (C) including their binding energies and target genes.
- 740 Supplemental Table 6. Access identifiers for fastq files generated by long-read sequencing,
- 741 available in the European Nucleotide Archive (ENA) database.