Epstein-Barr virus-encoded RNAs (EBERs) complement the loss of Herpesvirus telomerase RNA (vTR) in virus-induced tumor formation.

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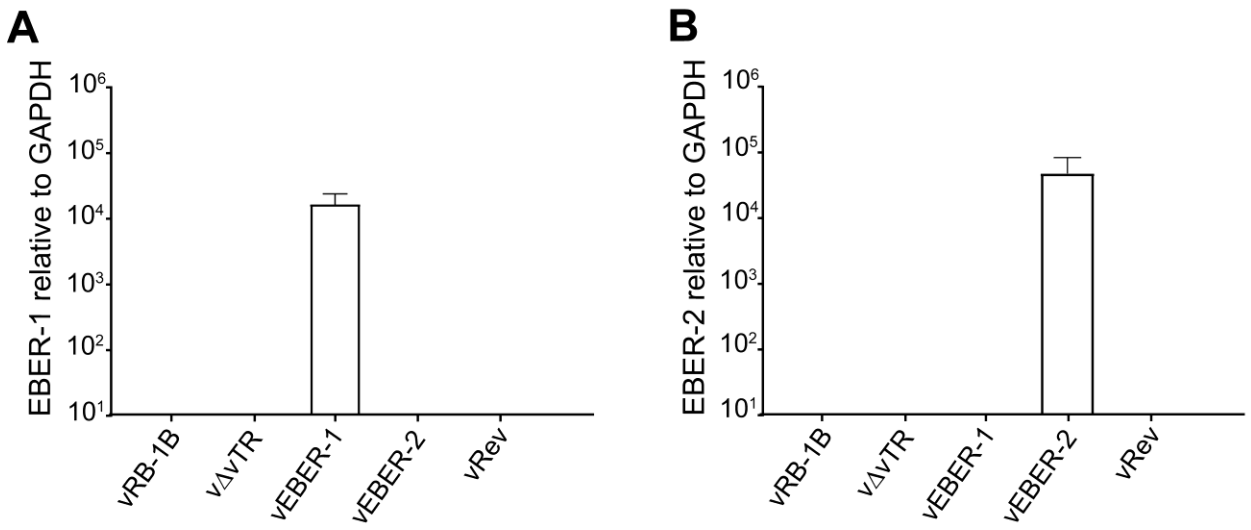
Supplementary Figure 1. Quantification of EBERs in tumor tissues. To confirm EBER-1 and EBER-2 expression in MDV-tumors, total RNA isolated from tumor tissue and qRT-PCR performed. Mean copy numbers of A) EBER-1 and B) EBER-2 are shown for tumor tissues derived from animals infected with indicated viruses and were normalized to cellular GAPDH. Results are shown as means of three tumor tissues for each group with standard errors (error bars).

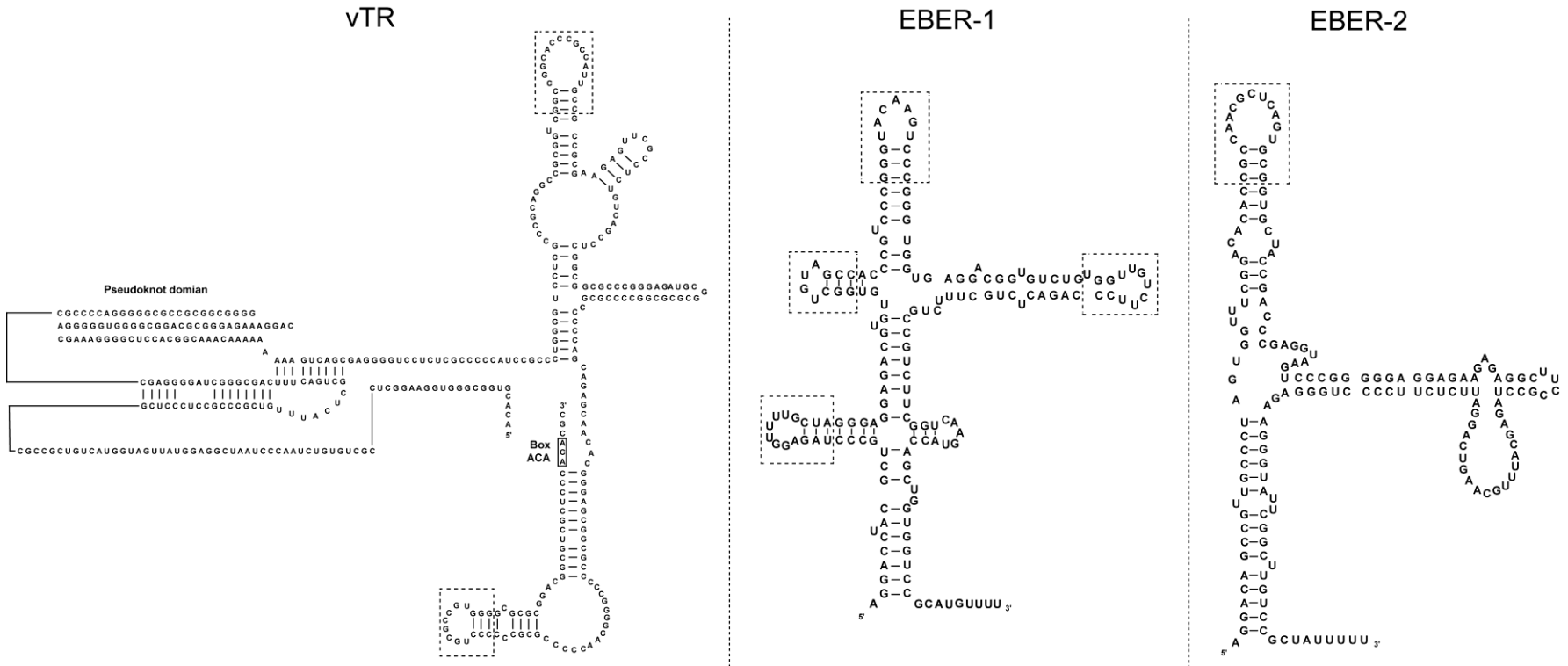
Supplementary Figure 2. Secondary structure prediction of vTR, EBER-1 and EBER-2. The predicted secondary structure of vTR, EBER-1 and EBER-2 with conserved stem-loop structures highlighted (dashed boxes), based on previous publications[1-3].

Supplementary Figure 3. Confirmation of EBER sequences in MDV-induced tumors. DNA was extracted from tumor tissue and the target region in the virus genome containing either EBER-1 or EBER-2 was analyzed by Sanger sequencing. Alignment of A) EBER-1 and B) EBER-2 from the corresponding tumor tissue with the reference sequence is shown. Identical sequences are represented by dots.

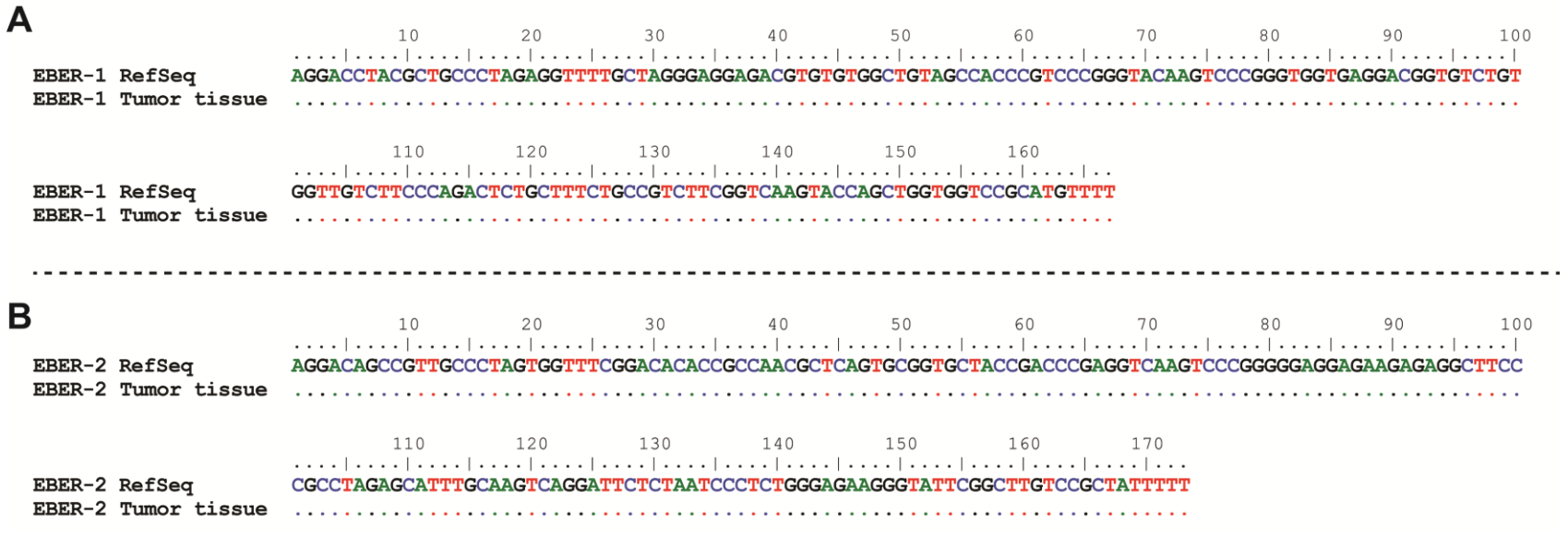
Supplementary Figure 1:



Supplementary Figure 2:



Supplementary Figure 3:



References:

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