

**Supplementary Table S2.** Pairwise identity ranges within and between sequences of the two viral species obtained in this study.

	DPOL	gB	ter
Within <i>Equid gammaherpesvirus 7</i>	97.2-100%	99.3-100%	99.7-100%
Within Asinine herpesvirus 5	96.6-100%	93.3-100%	97.7-99.7%
Between the two species	84.1-88.3%	82-83%	90.9-91.9%