

## Supplementary Materials

**Figure S1.** Alignment of the amino acid sequence of FIV-14 CA helix 9 with non-redundant FIV Gag and CA protein sequences database (complete and partial sequences) using the BLASTP program (protein-protein BLAST; <https://blast.ncbi.nlm.nih.gov/Blast.cgi>). The query sequence corresponds to residues 171-185 of the FIV-14 CA protein. The GenBank accession number of each sequence included in the alignment is indicated in blue. Dots denote identical amino acids.

Query (CA H9)	1	AEVKLYLKQSLSIAN	15
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<a href="#">ANN44237.1</a>	154	.....	168
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<a href="#">ABD48756.1</a>	141	.....	153
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<a href="#">ABO16618.1</a>	331	.....L...	344
<a href="#">ACY25087.1</a>	306	....I.....M...	320
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<a href="#">ACT85923.1</a>	155	....V.....M...	169
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<a href="#"><u>AHZ63429.1</u></a>	306	D..Q...D....S.	319
<a href="#"><u>AHZ63354.1</u></a>	306	D..Q...D....S.	319
<a href="#"><u>AHZ63404.1</u></a>	306	D..Q...D....S.	319
<a href="#"><u>AHZ63344.1</u></a>	306	D..Q...D....S.	319
<a href="#"><u>AHZ63434.1</u></a>	306	D..Q...D....S.	319
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<a href="#"><u>AHZ63364.1</u></a>	306	D..Q...D....S.	319
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<a href="#"><u>ABO16609.1</u></a>	306	D..Q...D....S.	319

**Figure S2.** Alignment of the amino acid sequence of FIV-14 CA helix 9 with non-redundant translated FIV *gag* and CA nucleotide sequences database (complete and partial sequences) using the TBLASTN program (protein-translated nucleotide sequences; <https://blast.ncbi.nlm.nih.gov/Blast.cgi>). The query sequence corresponds to residues 171-185 of the FIV-14 CA protein. The GenBank accession number of each sequence included in the alignment is indicated in blue. Dots denote identical amino acids.

Query (CA H9) 1		AEVKLYLKQSLSIAN	15
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<a href="#">EU130945.1</a>	916	.....	960
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<a href="#">DQ365595.1</a>	916	.....	960
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<a href="#">AJ304959.1</a>	936	.....	980
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<a href="#">X57002.1</a>	1548	.....	1592
<a href="#">MF352016.1</a>	1582	.....	1626
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<a href="#">AY139110.1</a>	494	.....	538
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<a href="#">AY139105.1</a>	509	.....	553

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<u>KT984669.1</u>	460	.....	504
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<u>KT984667.1</u>	460	.....	504
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<u>KT984664.1</u>	460	.....	504
<u>KT984662.1</u>	460	.....	504
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<u>D37821.1</u>	667	.....	708
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<u>GQ339848.1</u>	463	.....	507
<u>GQ339847.1</u>	463	.....	507
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