

**Supplementary Table S3. Summary of correlation between the first two principle axes and nucleotide constraints in ZIKV (average of all genes)**

<b>Base composition</b>	<b>f<sub>1</sub> (Axis 1)</b>	<b>f<sub>2</sub> (Axis 2)</b>
A	0.449*	-0.029 <sup>NS</sup>
T	0.436*	0.134 <sup>NS</sup>
G	-0.224 <sup>NS</sup>	-0.057 <sup>NS</sup>
C	-0.526**	0.075 <sup>NS</sup>
A <sub>3</sub>	0.441*	-0.004 <sup>NS</sup>
T <sub>3</sub>	0.491**	0.093 <sup>NS</sup>
G <sub>3</sub>	-0.438*	-0.026 <sup>NS</sup>
C <sub>3</sub>	-0.545**	0.025 <sup>NS</sup>
AU	0.425*	0.055 <sup>NS</sup>
GC	-0.420*	-0.061 <sup>NS</sup>
AU <sub>3</sub>	0.552**	0.109 <sup>NS</sup>
GC <sub>3</sub>	-0.552**	-0.109 <sup>NS</sup>

NS means non-significant ( $P > 0.05$ ).

\* represents  $P < 0.05$ .

\*\* represents  $P < 0.01$ .