

Supplementary Materials

A Unique Evolution of the *S2* Gene of Equine Infectious Anemia Virus in Hosts Correlated with Particular Infection Statuses

Xue-Feng Wang, Shuai Wang, Qiang Liu, Yue-Zhi Lin, Cheng Du, Yan-Dong Tang, Lei Na, Xiaojun Wang and Jian-Hua Zhou

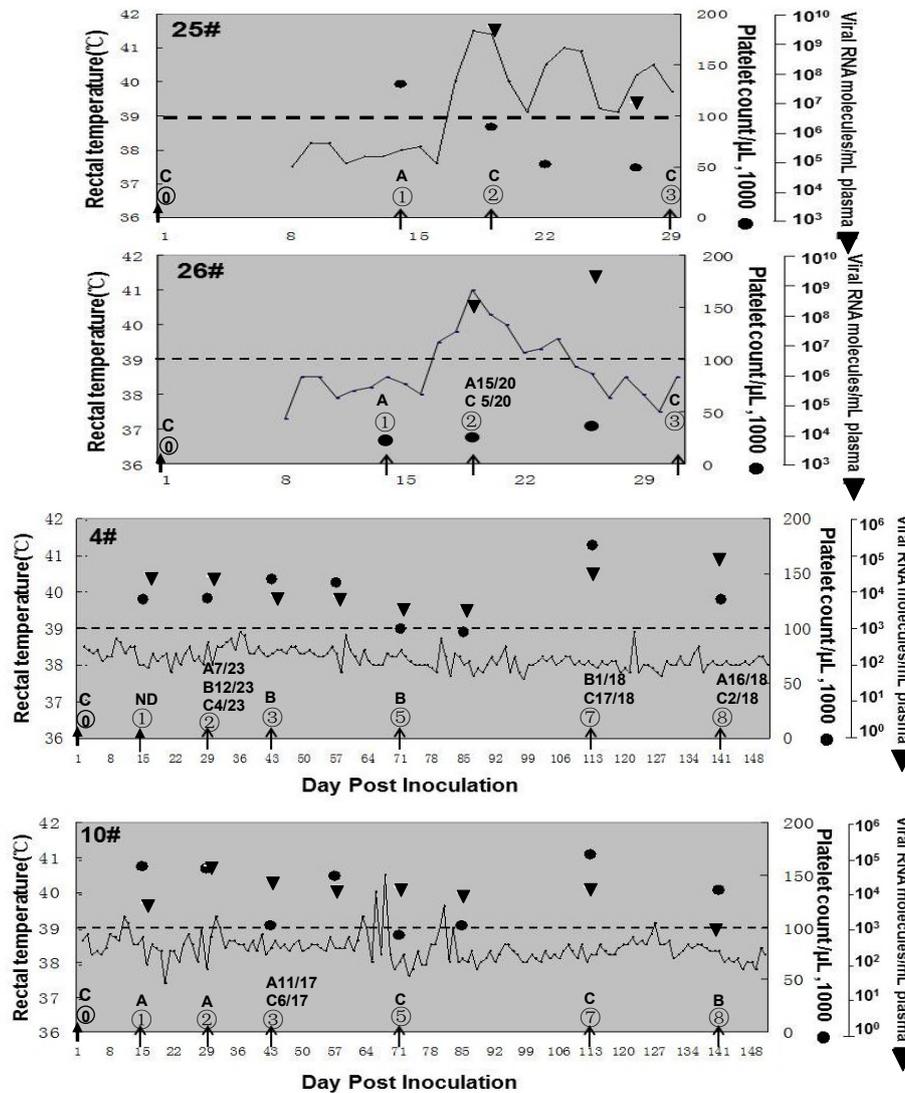


Figure S1. The clinical profile of the horses experimentally infected with EIAV_{LN40}. The rectal temperature (solid lines, the left Y-axis) and platelet count (spots, the first right Y-axis) and quantitation of the virus load (arrowheads, the second right Y-axis) were monitored at the indicated time points after infection as standard measures of disease. “0” indicates the inoculated point, “1”, “2”, “3”...indicates the sampled point. The letter A, B and C represent the corresponding branch of the phylogenetic tree, respectively. ND indicates not detectable. The febrile episodes were defined by rectal temperatures above 39 °C, in conjunction with a reduction in the platelet counts to below 100,000/μL of whole blood and other characteristic clinical symptoms.

Table S1. Differences between S2 sequences derived from samples taken from symptomatic and asymptomatic time points.

S2 Variation ^a	No. (%) of Occurrences in Time Points of		<i>p</i> value ^b
	Symptomatic (<i>n</i> = 106)	Asymptomatic (<i>n</i> = 280)	
6K/R	0(0)	58(21)	<0.01
7G/R	15(14)	23(8)	<i>p</i> > 0.05
17G/E	0(0)	8(3)	<i>p</i> > 0.05
18V/I	0(0)	22(8)	<0.01
22E/K	0(0)	65(23)	<0.01
37K/R	14(13)	132(47)	<0.01
39G/E	0(0)	93(33)	<0.01
41T/I	15(14)	175(63)	<0.01
51T/I	15(14)	150(54)	<0.01
55Q/K	15(14)	225(80)	<0.01

^a Positions are those indicated by red denote in Figure 1; ^b Determined by the chi-square test of the SAS 9.2.

Table S2. Differences between S2 sequences derived from the early phase or late phase of EIAV infection.

S2 Variation ^a	No. (%) of Occurrences in:		<i>p</i> value ^b
	Early phase (<i>n</i> = 52)	Late phase (<i>n</i> = 283)	
6K/R	0(0)	56(20)	<0.01
7G/R	0(0)	38(13)	<0.01
17G/E	0(0)	0(0)	-
18V/I	32(62)	2(1)	<0.01
22E/K	31(60)	34(12)	<0.01
37K/R	0(0)	111(39)	<0.01
39G/E	50(96)	35(12)	<0.01
41T/I	51(98)	94(33)	<0.01
51T/I	50(96)	69(24)	<0.01
55Q/K	50(96)	140(49)	<0.01

^a Positions are those indicated by red denote in Figure 1; ^b Determined by the chi-square test of the SAS 9.2.