

Table S1

RFLP	Sub-lineage								
	1A	1B	1C	1Dalfa	1Dbeta	1E	1F	1G	1H
1-8-4	4	0	7	7	30	0	1225	0	416
1-4-4	211	0	1063	63	0	0	51	0	44
1-26-2	0	12	0	0	0	0	0	683	0
1-7-4	640	0	11	0	0	0	0	0	0
1-18-2	0	428	0	0	0	0	0	156	0
1-3-4	3	0	257	4	4	7	2	0	3
1-4-2	14	0	44	93	1	1	33	0	1
1-4-3	9	0	97	19	0	0	1	0	3
1-3-2	0	0	21	19	0	76	5	6	0
1-18-4	0	113	0	0	0	0	0	0	0
1-2-4	3	15	70	5	0	0	18	0	1
1-16-4	0	0	0	0	1	0	104	0	1
1-8-2	0	0	0	77	3	0	18	0	6
1-37-2	0	1	0	0	0	0	0	102	0
1-8-3	0	0	3	18	7	0	35	0	13
1-12-4	0	0	1	0	4	0	48	0	17
1-22-2	0	0	0	0	0	61	0	0	0
1-7-2	54	0	0	5	0	0	0	0	0
1-13-2	7	13	4	0	0	0	3	14	0
1-26-4	0	10	0	0	0	0	0	22	0
1-2-2	7	11	1	7	2	0	1	3	0
1-7-3	31	0	1	0	0	0	0	0	0
2-5-2	0	0	0	26	0	0	0	0	0
Others	80	70	54	61	11	14	56	76	14

Table S2

Sub-lineage	Run	Substitution Rate	Sub-lineage	Run	Substitution Rate
L1A	combined	7.72E-03	L1E	combined	NA
L1A	1	7.62E-03	L1E	1	8.47E-03
L1A	2	7.89E-03	L1E	2	NA
L1A	3	7.63E-03	L1E	3	NA
L1B	combined	8.77E-03	L1F	combined	6.95E-03
L1B	1	8.49E-03	L1F	1	7.48E-03
L1B	2	9.05E-03	L1F	2	7.06E-03
L1B	3	8.76E-03	L1F	3	6.47E-03
L1C	combined	1.22E-02	L1G	combined	1.09E-02
L1C	1	1.17E-02	L1G	1	1.02E-02
L1C	2	1.23E-02	L1G	2	1.12E-02
L1C	3	1.25E-02	L1G	3	1.11E-02
L1Dalpha	combined	8.38E-03	L1H	combined	9.37E-03
L1Dalpha	1	8.48E-03	L1H	1	9.08E-03
L1Dalpha	2	8.74E-03	L1H	2	9.00E-03
L1Dalpha	3	7.91E-03	L1H	3	9.98E-03
L1Dbeta	combined	NA			
L1Dbeta	1	6.65E-03			
L1Dbeta	2	NA			
L1Dbeta	3	NA			

Table S3

Lineage	L1A	L1B	L1C	L1D	L1Dalpha	L1Dbeta	L1E	L1F	L1G	L1H	L2	L4	L5	L6	L7	L8	L9
	<i>n</i> = 1095	<i>n</i> = 683	<i>n</i> = 1663	<i>n</i> = 469	<i>n</i> = 405	<i>n</i> = 64	<i>n</i> = 161	<i>n</i> = 1600	<i>n</i> = 1062	<i>n</i> = 519	<i>n</i> = 46	<i>n</i> = 2	<i>n</i> = 1116	<i>n</i> = 73	<i>n</i> = 18	<i>n</i> = 1831	<i>n</i> = 1469
L1A	4.0																
L1B	6.9	5.0															
L1C	10.1	10.0	7.0														
L1D	10.9	10.5	12.6	11.0													
L1Dalpha	11.2	10.7	13.1	10.6	10.0												
L1Dbeta	9.0	9.6	9.3	11.1	11.7	7.0											
L1E	13.4	12.5	13.2	14.2	14.3	13.6	5.0										
L1F	9.5	10.1	10.4	12.1	12.5	9.5	14.7	6.0									
L1G	8.1	6.7	11.0	12.0	12.2	10.4	13.4	11.0	6.0								
L1H	9.0	10.5	9.3	11.5	12.1	7.9	14.7	9.7	11.2	4.0							
L2	14.5	14.4	15.4	14.4	14.4	14.5	16.0	14.5	15.7	14.4	13.0						
L4	14.6	14.6	17.1	15.1	14.9	15.9	18.9	16.4	15.8	16.5	17.9	16.0					
L5	15.1	15.4	17.3	14.2	13.9	16.1	17.7	17.3	16.6	16.2	14.4	15.6	5.0				
L6	19.2	18.6	19.4	17.6	17.3	19.4	19.1	20.0	19.9	18.9	16.8	20.1	14.6	7.0			
L7	12.5	12.0	14.1	11.4	11.1	12.9	13.7	14.2	13.4	13.5	12.6	13.8	9.6	13.8	5.0		
L8	13.4	13.5	14.9	12.5	12.3	14.1	16.4	15.3	15.4	14.0	13.8	15.4	11.9	14.6	9.4	6.0	
L9	15.6	15.3	16.5	13.8	13.4	15.9	17.3	16.6	16.7	16.0	14.4	17.0	13.1	15.4	11.1	10.6	10.0
Prevacent - Elanco (L1)	11.7	11.9	11.7	12.8	13.4	8.4	14.2	11.0	12.6	9.5	15.7	17.5	17.0	21.9	13.7	15.9	17.7
Ingelvac PRRSV MLV - BI (L5)	14.8	15.2	17.3	14.1	13.8	16.0	18.2	17.5	16.4	16.0	14.6	15.7	3.1	14.5	9.3	12.0	13.2
Prime Pac PRRSV RR - Merck (L7)	12.6	12.2	14.4	10.9	10.6	12.8	14.4	14.1	13.8	12.9	12.3	13.7	8.8	13.0	3.3	8.6	10.4
Ingelvac PRRSV ATP - BI (L8)	12.8	13.1	14.7	11.9	11.6	13.7	15.8	14.8	15.1	13.4	13.3	14.6	10.8	14.1	8.6	4.3	10.0
Fostera PRRSV - Zoetis (L8)	14.6	13.9	16.3	12.2	11.8	14.9	17.6	16.0	15.3	15.4	13.8	15.7	10.1	12.8	7.8	7.3	9.1