

TABLE S1

PRIMERS AND PROBE FOR STUDY OF PKV

	Primer/probe*	Targeted region	Sequence (5'-3')
5	Pankobuvirus_7185os Pankobuvirus_7807oa Pankobuvirus_7309is Pankobuvirus_7516ia	3D	GGTGGWCTYATHGASTACATGC GTGTCNNGRTCCATSACHGGGTG TGGAYTACAAGTGYTTTGGATGC ATGATGGTGTTRAKGATRGARGTG
10	PKV_332s PKV_533a PKV_505a_probe	5'UTR	CGTGCTGAGTAATGGGATAGGAGAT ACTCTATCAAGCAGTACATGGTCAAG 6-FAM-TGGATTCCC/ZEN/AGCCACGCAACCACAG-IBFQ
15	PKV_VP1_2817os PKV_VP1_4044oa PKV_VP1_2884is PKV_VP1_3936ia	VP1	TACTGGAARGTCACYAAYATGGCYAAYCAG CAAAGTGRGTRCAGTTRTTRGTRGCAGAG GGGTGATGAAYCCRCTYACYGG GGTCYTCTAVGCAACGTADGCG

* Primers and probe were numbered according to the sequence NC_001918.1.

20

25

30

TABLE S2

PRIMERS USED FOR AMPLIFICATION OF COMPLETE GENOME OF EV-G8, EV-G9

35	Primer**	Targeted fragment	Sequence (5'-3')
	EVG-2os		TWAAACAGYCWGBGGGTTGT
	EVG-1267oa	Fragment 1 (94-832)	TCWGGHARYTTCCAMCACCANCC
	EVG-94is		TAGTACCTTTGTACGCCTGTTTT
	EVG-832ia		TTYTTRCTCATTTGCATHCCCAT
40			
	EVG-482os		CCGGCCCCTGAATGYGGCTAA
	EVG-3390oa	Fragment 2 (571-2965)	GGGTKGCAAGRKGYCTRTTCA
	EVG-571is		ACCRACACTTTGGGTGTCCGTG
	EVG-2965ia		GGRTTWGCKGCASTTTGCCA
45			
	EVG-2313os		GCTGGKTATRTKACYGGDTGGTWYC
	EVG-3421oa	Fragment 3 (2395-3390)	TCTTCCCAYTCDASRTTBTCCCA
	EVG-2395is		TGGCWGCACARCCNAAAYTTYTC
	EVG-3390ia		GGGTKGCAAGRKGYCTRTTCA
50			
	EVG-2313os		GCTGGKTATRTKACYGGDTGGTWYC
	EVG-5806oa	Fragment 4 (3187-5419)	GGRAAGTTRTACATCATDGTKCG
	EV-G8-3187is		TGCAAGCCAAAACAYATTAAG
	EV-G9-2679is		GTGGAGAGCTTTTATTCTAGATC
55	EVG-5419ia		TTCATCATBCCDACNCCAAARTCCAT
	EVG-4833os		GAGAATAAYACCTTGAATGTGACAG
	EVG-7385oa	Fragment 5 (5187-7373)	CATCCGGTGGGWGTRTTG
	EVG-5187is		GAGATYCCAGTAGATGAGAGRA
60	EVG-7373ia		GTATTGHATCCAATTGAAGYTTWGG

** Primers were named after virus, position [numbering based on the sequence HQ702854 (swine/K23/2008/HUN)], orientation [os: outer sense, is: inner sense, ia: inner antisense, oa: outer antisense].

65

70

TABLE S3

EV TYPES AND AGES OF INFECTED PIGS

	Sample	EV type	Pig age (months)	Sample	EV type	Pig age (months)
75	744278	G1	0.5	724241	G1	3
	724266	G1	1	734226	G1	3
	724267	G1	1	714383	G1	3
	724268	G1	1	714139	G1	3.5
80	714037	G1	1	714464	G1	4
	714179	G1	1	724431	G1	4
	714280	G1	1	724254	G1	4.5
	724262	G1	1	714310	G1	5
	724269	G1	1	714207	G1	6
85	724291	G1	1	724286	G1	6
	724338	G1	1	734214	G1	12
	724340	G1	1	714182	G1	14.8
	734099	G1	1	714133	G1	20
	714057	G1	1.5	724317	G1	48
90	724379	G1	1.5	724327	G1	48
	734043	G1	1.5	714038	G6	1
	734207	G1	1.5	714180	G6	1
	744019	G1	1.5	744167	G6	1.1
	744020	G1	1.5	714432	G6	1.5
95	734006	G1	2	734041	G6	1.5
	714107	G1	2	734042	G6	1.5
	714218	G1	2	714404	G6	1.5
	734004	G1	2	714434	G6	1.5
	734005	G1	2	714435	G6	1.5
100	734016	G1	2	724362	G6	1.5
	734038	G1	2	734204	G6	1.5
	734056	G1	2	734206	G6	1.5
	734060	G1	2	734235	G6	1.5
	734103	G1	2	744121	G6	1.5
105	734132	G1	2	744123	G6	1.5
	734137	G1	2	744266	G6	1.5
	734139	G1	2	714110	G6	2
	734140	G1	2	714112	G6	2
	734141	G1	2	714445	G6	2
110	734184	G1	2	734148	G6	2
	744059	G1	2	734151	G6	2
	734055	G1	2	734154	G6	2
	724182	G1	2.5	744100	G6	2
	724239	G1	2.5	744101	G6	2
115						

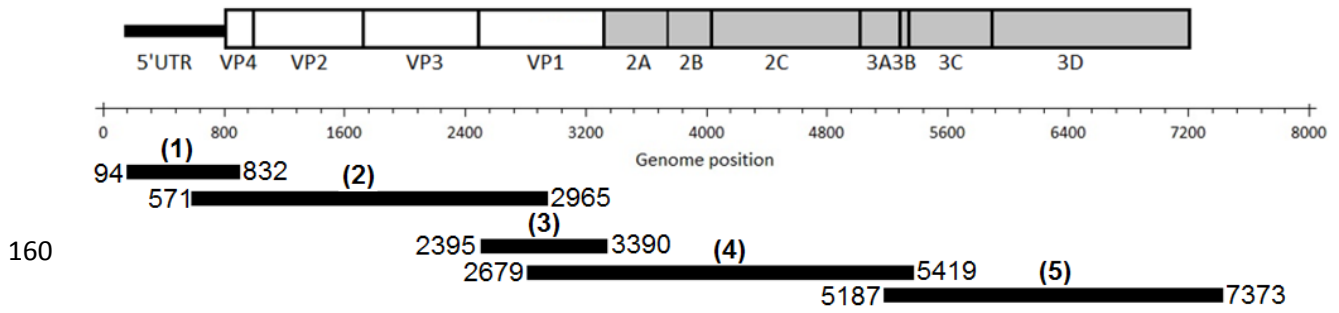
	Sample	EV type	Pig age (months)	Sample	EV type	Pig age (months)
120	744107	G6	2	744155	G8	3.5
	744110	G6	2	714171	G9	4
	734261	G6	2.5	724054	G9	4
	744263	G6	3	734116	G11	4
	714090	G6	3.5	744081	G8	4
125	724427	G6	5	714265	G11	5
	744032	G6	13	714467	G9	5
	744034	G6	13	714222	G12	5
	734212	G3	0.5	714361	G4	5
	734213	G3	0.5	714405	G14	5
130	714118	G8	1	714407	G14	5
	714036	G12	1	724307	G15	6
	744071	G11	1.5	744188	G3	6
	714106	G4	2	714451	G12	8
	714108	G4	2	734128	G11	12
135	744103	G11	2	734124	G10	12.3
	744106	G10	2	734072	G4	12.5
	734237	G11	2.5	734123	G10	13
	734293	G3	2.5	714152	G9	18
	734294	G3	2.5	714232	G4	24
140	714075	G8	3	744257	G11	24.5
	734087	G9	3	714270	G13	30
	724242	G11	3	724118	G8	38
	734278	G9	3			

145

150

155

FIGURE S1



Schematic diagram of the EV-G genome and amplified fragments (in parentheses) with numbers indicating the positions of each fragment for complete genome of novel types.