

**Supplementary table S1. Information of 765 NA-type PRRSVs in 1992-2019**

Accession number	Strain name	Year	Country	Lineage
KY348849	18565-01	2001	USA	L1
DQ473474	LMY	2002	South Korea	L1
KY348848	18066-04	2004	USA	L1
JN654459	NADC30	2008	USA	L1
JN660150	NADC31	2008	USA	L1
KC862579	DK-2010-10-1-2	2010	Denmark	L1
KP283404	Minnesota16	2011	USA	L1
KU523367	WUH6	2011	China	L1
KU131566	SD11-21-P84	2011	USA	L1
KU131568	SD11-21-P100	2011	USA	L1
KU131557	SD11-21-P83	2011	USA	L1
KP283409	Minnesota7	2012	USA	L1
KP283411	Minnesota4	2012	USA	L1
KP283401	MN6	2012	USA	L1
KP283403	Minnesota17A	2012	USA	L1
KP283410	Minnesota5	2012	USA	L1
KP283405	Minnesota15	2012	USA	L1
KP283412	Minnesota3	2012	USA	L1
KP283416	Illinois8	2012	USA	L1
KP283407	Minnesota11A	2012	USA	L1
KP283406	Minnesota14	2012	USA	L1
KJ143621	HENAN-HEB	2012	China	L1
KP283415	Iowa12	2012	USA	L1
KP283413	Minnesota2	2012	USA	L1
KP283399	MN11B	2012	USA	L1
KP283400	MN9B	2012	USA	L1
KP283408	Minnesota9A	2012	USA	L1
KP283414	Minnesota1	2012	USA	L1
KP283402	Minnesota17B	2013	USA	L1
KF555450	CA-2	2013	South Korea	L1
KF555451	KNU-12-KJ4	2013	South Korea	L1
KF611905	HENAN-XINX	2013	China	L1
KR534893	OH28372-2013	2013	USA	L1
KR706343	JL580	2013	China	L1
KP860909	FJZ03	2013	China	L1
KP860911	FJW05	2013	China	L1
MF326988	IA/2013/ISU-1	2013	USA	L1
MF326985	IA/2014/NADC34	2014	USA	L1
KT257966	ISU10	2014	USA	L1
KT257959	ISU01	2014	USA	L1
KP861625	CHsx1401	2014	China	L1
MF326991	NC/2014/ISU-4	2014	USA	L1

MF326993	OH/2014/ISU-6	2014	USA	L1
MF326994	OH/2014/ISU-7	2014	USA	L1
MF326992	IN/2014/ISU-5	2014	USA	L1
KT257962	ISU04	2014	USA	L1
KT257965	ISU07	2014	USA	L1
KT257974	ISU27	2014	USA	L1
KT257964	ISU06	2014	USA	L1
KT257963	ISU05	2014	USA	L1
KT257967	ISU17	2014	USA	L1
KT257968	ISU18	2014	USA	L1
KT257976	ISU29	2014	USA	L1
KT257977	ISU30	2014	USA	L1
KT257990	ISU71	2014	USA	L1
KT257991	ISU72	2014	USA	L1
MF326990	NC/2014/ISU-3	2014	USA	L1
KT257987	ISU68	2014	USA	L1
KT258001	ISU94	2014	USA	L1
KT258003	ISU97	2014	USA	L1
KT258004	ISU95	2014	USA	L1
KT257954	21675	2014	USA	L1
KT257955	101416	2014	USA	L1
KU950372	HENXX-1	2014	China	L1
KY373214	JSWA	2014	China	L1
KT257981	ISU39	2014	USA	L1
KT257982	ISU40	2014	USA	L1
KT258002	ISU96	2014	USA	L1
MF766471	HeN1401	2014	China	L1
MF326995	IA/2014/ISU-8	2014	USA	L1
MN046226	HeNXX-2014-3	2014	China	L1
KT581982	MN414	2014	USA	L1
KT257973	ISU25	2014	USA	L1
KT257970	ISU22	2014	USA	L1
KT257972	ISU24	2014	USA	L1
KT257971	ISU23	2014	USA	L1
KX169191	FJ1402	2014	China	L1
KP860910	FJY04	2014	China	L1
KY412887	FJL15	2014	China	L1
KY412888	FJM4	2014	China	L1
MN046225	Fujian-2014-18	2014	China	L1
MF326989	IA/2014/ISU-2	2014	USA	L1
KT257997	ISU86	2014	USA	L1
KT257992	ISU73	2014	USA	L1
KT257975	ISU28	2014	USA	L1
KT258006	SDSU58	2014	USA	L1

KT257956	103837	2014	USA	L1
MN046228	HeNXX-2014-12	2014	China	L1
KR534894	OH155-2015	2015	USA	L1
KU950371	HENXC-4	2015	China	L1
KU950374	HENZMD-9	2015	China	L1
KX900392	HENJY-2	2015	China	L1
MF326987	IA/2015/NADC36	2015	USA	L1
MF326996	IA/2015/ISU-9	2015	USA	L1
MF326997	IA/2015/ISU-10	2015	USA	L1
MF326999	NC/2015/ISU-12	2015	USA	L1
MF327000	IA/2015/ISU-13	2015	USA	L1
MF327001	IA/2015/ISU-14	2015	USA	L1
MF326986	IA/2015/NADC35	2015	USA	L1
KX980392	SDhz1512	2015	China	L1
KX815411	15HEB1	2015	China	L1
KX815415	15HEN4	2015	China	L1
MN073090	PRR223341-S23-L001	2015	USA	L1
MN073091	PRR223343-S24-L001	2015	USA	L1
MN073182	PRR22334-1	2015	USA	L1
MK860181	394-1	2015	USA	L1
KU512796	CA-2-P12	2015	South Korea	L1
KU512797	CA-2-P22	2015	South Korea	L1
KU512798	CA-2-P32	2015	South Korea	L1
KU512799	CA-2-P42	2015	South Korea	L1
KU512800	CA-2-P52	2015	South Korea	L1
KU512801	CA-2-P62	2015	South Korea	L1
KU512802	CA-2-P72	2015	South Korea	L1
KU512803	CA-2-P82	2015	South Korea	L1
KU512804	CA-2-P92	2015	South Korea	L1
KU512805	CA-2-P100	2015	South Korea	L1
KU523366	WUH5	2015	China	L1
MF326998	NC/2015/ISU-11	2015	USA	L1
KX815413	15HEN1	2015	China	L1
KX815419	15JX1	2015	China	L1
KX815423	15LN1	2015	China	L1
MN073085	018560PRRS-S9-L001	2015	USA	L1
MF375260	SD-A19	2015	China	L1
KX758250	FJXS15	2015	China	L1
KX815432	15ZJ1	2015	China	L1
KT945017	HNjz15	2015	China	L1
KX815428	15SC3	2015	China	L1
KX815425	15LN3	2015	China	L1
MF375261	SC-d	2015	China	L1
KY053458	SDYG1606	2016	China	L1

MH651742	SDQD-1604	2016	China	L1
KX192112	NCV-13	2016	USA	L1
KX192113	NCV-16	2016	USA	L1
KX192114	NCV-17	2016	USA	L1
KX192115	NCV-21	2016	USA	L1
KX192116	NCV-23	2016	USA	L1
KX192117	NCV-24	2016	USA	L1
KX192118	NCV-25	2016	USA	L1
KX192119	NCV-26	2016	USA	L1
MN073093	PRR21032-S1-L001	2016	USA	L1
MN073094	brian27950-S16-L001	2016	USA	L1
MN175677	PRRSV2/USA/Lab3	2016	USA	L1
MH588710	SDbz16-2	2016	China	L1
MH651740	HNJYH-1606	2016	China	L1
MH651736	CY1-1604	2016	China	L1
MH651743	SD-1602	2016	China	L1
MF196906	SCnj16	2016	China	L1
MF766474	HeN1601	2016	China	L1
KY363991	CA-2-MP110	2016	South Korea	L1
KY363992	CA-2-MP120	2016	South Korea	L1
KX766379	HNhx	2016	China	L1
MN046240	SX1-1607	2016	China	L1
MN046241	SX2-1607	2016	China	L1
MN073087	018561PRRS-S10-L001	2016	USA	L1
KY495780	JX/CH/2016	2016	China	L1
KY495781	SH/CH/2016	2016	China	L1
MN073103	014737Fib-S5-L001	2016	USA	L1
MN073104	014737lu1A-S1-L001	2016	USA	L1
MN073105	014737lu2A-S2-L001	2016	USA	L1
MN073106	014737luC-S4-L001	2016	USA	L1
MN073107	014737Ton-S6-L001	2016	USA	L1
MN073108	014737luB-S3-L001	2016	USA	L1
MN073109	br42321BC-S13-L001	2016	USA	L1
MN073110	PRR41505-S4-L001	2016	USA	L1
MN073114	52335PRRS-S10-L001	2016	USA	L1
MN073115	5988810PRRS-S5-L001	2016	USA	L1
MH651737	CY2-1604	2016	China	L1
KX758249	FJWQ16	2016	China	L1
MH651744	SD53-1603	2016	China	L1
MH651745	SD99-1606	2016	China	L1
MN046222	HLJ-80	2016	China	L1
MH651746	SDQZ-1609	2016	China	L1
MH651739	HBFL-1604	2016	China	L1
KY041782	HENXX-8	2016	China	L1

MH651741	LNCH-1604	2016	China	L1
MH651748	TJZH-1607	2016	China	L1
MH651738	HNJYF-1606	2016	China	L1
MF526964	USA/IN_Purdue/1490-LN/2017	2017	USA	L1
MG913987	LNWK130	2017	China	L1
MH068878	SD17-38	2017	China	L1
MH121061	SD17-36	2017	China	L1
MH167388	QHD3	2017	China	L1
MG914067	SCcd17	2017	China	L1
MN073092	9982R-S5-L001	2017	USA	L1
MN073097	5606R-S6-L001	2017	USA	L1
MN073098	PRR312824-S16-L001	2017	USA	L1
MN073100	PRR312826-S18-L001	2017	USA	L1
MF526965	USA/IN_Purdue/14067/2017	2017	USA	L1
MN046224	HEB-108	2017	China	L1
MN073086	1924R-S2-L001	2017	USA	L1
MN073088	1923R-S1-L001	2017	USA	L1
MN073089	9337R-S4-L001	2017	USA	L1
MN073095	20170210381-S2-L001	2017	USA	L1
MN073113	PRR312823-S15-L001	2017	USA	L1
MN073118	PRR027981-S25-L001	2017	USA	L1
MN073119	5381R-S5-L001	2017	USA	L1
MN073120	5383R-S7-L001	2017	USA	L1
MN073125	PRR312827-S19-L001	2017	USA	L1
MN073111	PRR027983-S27-L001	2017	USA	L1
MN073112	PRR027984-S28-L001	2017	USA	L1
MG844181	HB17A	2017	China	L1
MH500776	NADC30-2017	2017	China	L1
MG687491	QHD1	2017	China	L1
MK396376	GDsf1707	2017	China	L1
MK396377	GDsf1710	2017	China	L1
MK396378	GDsf1711	2017	China	L1
MN073123	PRR312821-S13-L001	2017	USA	L1
MN073124	PRR312822-S14-L001	2017	USA	L1
MH167387	QHD2	2017	China	L1
MG860516	LNWK96	2017	China	L1
MH078490	SCN17	2017	China	L1
MG011719	FJDJQ-2017	2017	China	L1
MN073096	PRRSV-2018014208-S12	2018	USA	L1
MN073102	7705R-S1	2018	USA	L1
MN073174	PRRSV-2018017613-S8	2018	USA	L1
MK450333	CH-WH-2019-1	2018	China	L1
MK202794	FJ0908	2018	China	L1
MH370474	CH/2018/NCV-Anheal-1	2018	China	L1

MN046243	HLJ-DZD4-1805	2018	China	L1
MN073084	2385R-S13	2018	USA	L1
MK396379	GDsf1802	2018	China	L1
MK396380	GDsf1804	2018	China	L1
MN046230	HLJWK108-1711	2018	China	L1
MN073081	0752R-S4	2018	USA	L1
MN073083	7498R-S10	2018	USA	L1
MK396381	GDsf1806	2018	China	L1
MK396382	GDsf1807	2018	China	L1
MK396383	GDsf1808	2018	China	L1
MK396384	GDsf1809	2018	China	L1
MN073172	1504R-S1	2018	USA	L1
MN073122	6950-1R-S2	2018	USA	L1
MK796164	IA76950-WT	2018	USA	L1
MN046229	HeB-239	2018	China	L1
MN073127	7684R-S11	2018	USA	L1
MK144543	SCya18	2018	China	L1
DQ176019	MN184A	na	USA	L1
EF484031	MN184	na	USA	L1
EF488739	MN184C	na	USA	L1
DQ176020	MN184B	na	USA	L1
GQ914997	SD1-100	na	China	L1
JX258843	SD23983	na	USA	L1
GU232736	TP P60	na	China	L1
GU232737	TP P90	na	China	L1
KF287133	HK2	2003	China	L3
KF287138	HK11	2004	China	L3
KF287142	HK15	2004	China	L3
KF287137	HK9	2004	China	L3
KF287135	HK6	2004	China	L3
JQ743666	QY2010	2010	China	L3
JN662424	GM2	2011	China	L3
JQ308798	QYYZ	2011	China	L3
KY373215	HiNZWQ	2014	China	L3
KU978619	GD-KP	2015	China	L3
KX621003	GDsg	2015	China	L3
KX689233	XJzx1-2015	2015	China	L3
KT945018	HNyc15	2015	China	L3
MH236426	ZJnb16-2	2016	China	L3
KY745901	GDYDZZZ	2016	China	L3
MF196905	SCcd16	2016	China	L3
MK144542	GZgy17	2017	China	L3
MH324400	SCya17	2017	China	L3
MG011718	FJLIUY-2017	2017	China	L3

MN046242	LN-DB87	2018	China	L3
KP998476	FJFS	na	China	L3
AB288356	EDRD-1	1992	Japan	L4
KU131564	SD95-47_P83	1995	USA	L5
KC469618	SD95-21	1995	USA	L5
KC862576	DK-1997-19407B	1997	Denmark	L5
AF325691	NVSL_97-7985_IA_1-4-2	1997	USA	L5
NC_001961	16244B	1997	USA	L5
AY585241	PL97-1	1997	South Korea	L5
AY612613	PL97-1/LP1	1997	South Korea	L5
KU131562	ND99-14_P83	1999	USA	L5
KU131567	ND99-14_P84	1999	USA	L5
KU131569	ND99-14_P100	1999	USA	L5
KY348851	43807-00	2000	USA	L5
KY348853	3805-00	2000	USA	L5
KU131561	SD02-10_P83	2002	USA	L5
FJ899592	Clone20	2003	China	L5
KC862584	DK-2003-2-3	2003	Denmark	L5
KF287141	HK14	2004	China	L5
KC862578	DK-2004-1-7-PI	2004	Denmark	L5
KU131559	SD04-89_P83	2004	USA	L5
KC862585	DK-2004-2-1	2004	Denmark	L5
JN864948	DY	2007	China	L5
KC862582	DK-2008-10-1-3	2008	Denmark	L5
KC862581	DK-2010-10-2-1	2010	Denmark	L5
KC862580	DK-2010-10-7-1	2010	Denmark	L5
KC862583	DK-2010-10-4-1	2010	Denmark	L5
KF183946	DK-2010-10-13-1	2010	Denmark	L5
JQ087873	A2MC2-2010	2010	USA	L5
KC862577	DK-2011-030311-1	2011	Denmark	L5
KF183947	DK-2011-88005-A8-PI	2011	Denmark	L5
JX857698	YN-2011	2011	China	L5
KF771273	GZ1101	2011	China	L5
KC862575	DK-2012-01-11-3	2012	Denmark	L5
KM514315	PRRSV-2_Hungary_102_2012	2012	Hungary	L5
KX462792	A2MC2-2012	2012	USA	L5
KC445138	HZ-31	2012	China	L5
KT257945	14-64	2014	USA	L5
KT257946	14-67	2014	USA	L5
KT257947	14-68	2014	USA	L5
KT257944	14-60	2014	USA	L5
KU318406	A2MC2-P90	2015	USA	L5
MN073134	PRR715665-S8-L001	2015	USA	L5
MN073135	PRR715666-S9-L001	2015	USA	L5

MN073133	7473PRRS-S3-L001	2016	USA	L5
MN073139	7471PRRS-S1-L001	2016	USA	L5
MN073136	397081R-S16-L001	2017	USA	L5
MN073137	397082R-S17-L001	2017	USA	L5
MN073140	lung23199-S4-L001	2017	USA	L5
MN073143	PRR146795SA-S1-L001	2017	USA	L5
MN073145	PRR1467916SA-S2-L001	2017	USA	L5
MN073146	PRR1467916SQ-S4-L001	2017	USA	L5
MN073147	PRRS35752R-S7-L001	2017	USA	L5
MN073148	PRR02760-S1-L001	2017	USA	L5
MN073149	PRR02760Q-S15-L001	2017	USA	L5
MN046233	Liaoning-2017-6	2017	China	L5
MN073130	4115R-S1	2018	USA	L5
MN073131	1041R-S1	2018	USA	L5
MN073132	4512R-S7-L001	2018	USA	L5
DQ217415	VR-2332-pVR-V7	na	USA	L5
KP998474	FJSD	na	China	L5
AF066183	RespPRRS MLV	na	USA	L5
DQ176021	VR2332 V7	na	USA	L5
DQ459471	S1	na	China	L5
EF484033	Ingelvac MLV	na	USA	L5
FJ524376	VR-2332-V7-HA-myc	na	USA	L5
FJ524377	VR-2332-pV7-myc	na	USA	L5
DQ056373	01NP1.2	na	Thailand	L5
AF159149	MLV ResPRRS/Repro	na	na	L5
AF176348	PA8	na	Canada	L5
AF331831	BJ-4	na	China	L5
AY150564	VR-2332	na	USA	L5
EU360128	rV68	na	China	L5
EU360129	rV63	na	China	L5
EU880441	GS2002	na	China	L5
EU880442	GS2003	na	China	L5
EU880443	GS2004	na	China	L5
FJ175687	PRRSV01	na	China	L5
FJ175688	PRRSV02	na	China	L5
FJ175689	PRRSV03	na	China	L5
AY457635	HN1	na	China	L5
EF153486	CC-1	na	China	L5
AF494042	P129	na	USA	L6
MN073129	41761R-S15-L001	2018	USA	L7
AF184212	SP	na	na	L7
DQ779791	Prime Pac	na	USA	L7
MK837936	NADC20	1996	USA	L8
JN654458	SDSU73	1996	USA	L8



AY262352	HB-2(sh)/2002	2002	China	L8
EU360130	HB-1/3.9	2002	China	L8
KF287132	HK1	2003	China	L8
KF287136	HK7	2004	China	L8
FJ536165	NB/04	2004	China	L8
KF287139	HK12	2004	China	L8
KF287140	HK13	2005	China	L8
KJ541663	GZ106	2005	China	L8
EU864232	SHB	2005	China	L8
KU131558	MN05-68_P83	2005	USA	L8
MF370557	FZ06A	2006	China	L8
EF641008	JXwn06	2006	China	L8
EU144079	SY0608	2006	China	L8
EU708726	JX143	2006	China	L8
EU860248	TJ	2006	China	L8
EU864233	TP	2006	China	L8
EU880432	JX2006	2006	China	L8
FJ797690	HN-HW	2006	China	L8
MF187956	rJXwn06	2006	China	L8
FJ950744	BJSY-1	2007	China	L8
JX317648	HV	2007	China	L8
JX512910	SRV07	2007	Viet Nam	L8
EF488048	pJX143	2007	China	L8
EU825723	BJ	2007	China	L8
EU825724	GD-825724	2007	China	L8
EU860249	NM1	2007	China	L8
EU864231	CG	2007	China	L8
EU880433	GD2007	2007	China	L8
EU880434	SX2007	2007	China	L8
EU880437	HN2007	2007	China	L8
FJ393456	07NM	2007	China	L8
FJ393457	07HEN	2007	China	L8
FJ393458	07HEBTJ	2007	China	L8
FJ393459	07BJ	2007	China	L8
FJ950747	BJSD	2007	China	L8
GQ374441	GDQJ	2007	China	L8
GU461292	AH0701	2007	China	L8
HM011104	BJSY07	2007	China	L8
JN387271	GDQY1	2007	China	L8
KX766378	HN07-1	2007	China	L8
FJ950745	BJBLZ	2007	China	L8
EU624117	XH-GD	2007	China	L8
GQ351601	BJ0706	2007	China	L8
HQ401282	Shaanxi-2	2007	China	L8

FJ950746	BJPG	2007	China	L8
GU454850	GDQY2	2007	China	L8
GU169411	08HuN	2008	China	L8
EU880431	GS2008	2008	China	L8
EU880435	YN2008	2008	China	L8
EU880436	XL2008	2008	China	L8
FJ889129	CBB-1-F3	2008	China	L8
FJ889130	CWZ-1-F3	2008	China	L8
GQ359108	SD-CXA/2008	2008	China	L8
GQ374442	GDBY1	2008	China	L8
GQ499193	JXM20	2008	China	L8
GQ499194	JXM40	2008	China	L8
GQ499195	JXM60	2008	China	L8
GQ499196	JXM80	2008	China	L8
HM853673	WUH3	2008	China	L8
KP771754	NVDC-HeB-2008	2008	China	L8
KP771755	NVDC-CQ-2008	2008	China	L8
KP771779	NVDC-NM-2008	2008	China	L8
KT033733	QH-1(sh)	2008	China	L8
KU201579	QH-08	2008	China	L8
HM016158	JN-HS	2008	China	L8
KX650082	RVB-581	2008	China	L8
HQ315836	NT0801	2008	China	L8
KJ523894	NT0801_P10	2008	China	L8
GU168569	08SDWF	2008	China	L8
GU232735	KP	2008	China	L8
GU232738	YN9	2008	China	L8
HM016159	ZP-1	2009	China	L8
JF800911	ZCYZ	2009	China	L8
FJ895329	SX2009	2009	China	L8
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