

JVDI: Supplementary material

Gagnon CA, et al. Porcine reproductive and respiratory syndrome virus whole-genome sequencing efficacy with field clinical samples using a poly(A)-tail viral genome purification method

Supplementary Table 1. PRRSV WGS successful cases, high-throughput sequencing data.

Case ID	PRRSV RT-qPCR Cq value in a sample	Type of sample	No. of animals pooled in a sample	Total reads	No. of PRRSV mapped reads	% of PRRSV mapped reads	Mean coverage
1844370	NA	Serum	1	148,210	104,619	70.588	1,493
1890826	21.98	Serum	1	2,073,558	1,386,641	66.873	19,809
1926452	18.2	Lung	1	4,437,900	12,489	0.281	143
1927781	23.74	Serum	1	935,500	28,537	3.050	364
1943176	21.3	Sera	6	283,896	7,766	2.736	88
1943177	14.5	Sera	6	1,738,040	1,080,360	62.160	15,185
1943798	14.88	Sera	6	4,098,788	3,611,571	88.113	49,315
1951167	22.75	Sera	7	3,257,468	1,268,970	38.956	17,111
1952821	23.95	PoT	1	2,529,498	1,427	0.056	19
1953024	21.68	Sera	7	467,026	75,971	16.267	839
1953769	22.45	PoT	1	2,504,292	2,381	0.095	36
1956308	20.17	PoT	1	1,664,089	14,931	0.897	204
1957367	23.24	PoT	1	107,602	25,219	23.437	372
1961450	24.42	Sera	5	1,452,828	173,038	11.910	2,561
1961538	19.98	PoT	1	3,672,398	49,274	1.342	679
1966315	20.08	Sera	4	344,968	49,276	14.284	478

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1966316	18.48	Sera	4	1099770	44,7562	40.696	4,632
1968868	34.13	Serum	1	1,543,552	2,504	0.162	35
1968869	27.08	Serum	1	1,702,286	361,199	21.218	4,519
1978525	21.79	Sera	8	171,332	48,987	28.592	482
1980019	22.27	Lung	1	3,380,328	5,649	0.167	83
1982018	21.15	Lung	1	1,925,924	27,669	1.437	381
1982260	20.36	Sera	10	998,032	168,453	16.879	1,866
1982353	18.19	Sera	6	1,437,798	1,147,565	79.814	13,678
1982354	16.86	Sera	6	1,610,730	1,129,865	70.146	10,864
1982412	13.89	Lung	1	1,888,322	481,256	25.486	6,805
1985061	24.19	Lung	1	2,064,428	4,239	0.205	59
1985928	15.25	Serum	1	35,366	10,304	29.135	126
1994368	19.7	Lung	1	854,464	33,184	3.884	300
2012512	17.94	Lung	1	1,427,924	247,213	17.313	3,210
2013955	22.99	Lungs	2	1,730,426	12,038	0.696	164
2016194	16.97	Lung	1	641,910	98,392	15.328	1,172
2017769	22.23	Lungs	2	1,560,084	1,615	0.104	21
2018110	21.85	Sera	5	3,772,466	3,280,540	86.960	37,953
2018114	19.62	Sera	5	95,326	42,080	44.143	435
2020590	24.59	PoT	1	1,464,302	3,552	0.243	46
2021685	21.22	Lung	1	1,985,182	14,994	0.755	193
2023030	18.73	Sera	3	684,202	487,383	71.234	5,096
2023323	22.55	Lung	1	2,860,316	8,313	0.291	99
2029734	21.85	Lung	1	1,536,754	2,059	0.134	25
2035290	22.86	Sera	5	1,515,352	113,970	7.521	1,034
2048380	20.23	Sera	10	1,156,950	52,039	4.498	495
2050445	20.06	Serum	1	2,901,278	587,223	20.240	8,348

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2050887	23.52	Sera	10	893,244	22,467	2.515	230
2057423	22.77	Sera	10	1,222,100	36,670	3.001	334
2057984	24.4	Sera	5	175,942	40,968	23.285	53
2058132	19.51	PoT	1	237,606	10,389	4.372	137
2059368	18.09	Sera	10	129,220	60,072	46.488	758
2059830	27.22	Sera	5	92,458	1,571	1.699	10
2061291	22.58	PoT	2	1,271,382	5,050	0.397	70
2063747	24.77	Sera	2	78,076	935	1.198	14
2065929	26.37	Sera	10	529,728	8,033	1.516	90
2067407	23.06	Sera	5	179,552	76,297	0.042	1,002
2067408	24.33	Sera	5	1,135,916	66,336	5.840	634
2067423	26.28	Serum	1	129,260	3,019	2.336	41
2069767	24.33	PoT	2	1,124,518	22,100	1.965	287
2070378	25.98	PoT	2	520,846	30,243	5.807	432
2072533	26.53	Serum	1	152,588	10,736	7.036	134
2073509	26.5	Lung	1	1,798,804	3,096	0.172	41
2073979	18.83	Sera	10	2,090,940	92,881	4.442	749
2075305	20.95	Lung	1	723,612	13,719	1.896	203
2078279	18.19	Sera	5	819,850	59,698	7.282	552
2078481	NA	Serum	1	30,710	5,132	16.711	58
2082089	19.47	Lung	1	439,064	19,620	4.469	252
2084371	23.98	Lung	1	2,399,650	7,414	0.309	88
2087409	20.98	Lung	1	1,172,768	4,641	0.396	61
2087619	21.35	PoT	1	2,613,914	26,422	1.011	374
2089141	17.89	PoT	1	6,251,778	12,888	0.206	134
2089260	16.81	PoT	2	4,467,442	2,608	0.058	27
2092399	19.26	Sera	2	1,170,672	2,852	0.244	29

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2101209	23.53	Sera	3	1,550,790	8,291	0.535	85
2101687	16.44	Sera	5	693,544	78,940	11.382	834
2104407	13.57	Serum	1	1,933,694	9,873	0.511	106
2104469	NA	Lung	1	3,057,156	88,502	2.895	1,071
2108625	19.89	Sera	6	1,550,226	70,296	4.535	655
2108698	29.18	Serum	1	33,476	7,650	22.852	111
2109640	17.7	Serum	1	794,786	9,411	1.184	71
2125706	28.83	Oral fluid	Pen*	3,372,740	3,943	0.117	55
2132295	27.42	Serum	1	1,749,770	270,942	15.484	4,030
2137004	29.3	Serum	1	47,964	14,201	29.608	204
2137961	28.62	Serum	1	1,632,382	19,284	1.181	271
2146871	24.85	Serum	1	1,613,492	191,318	11.857	2,808
2147100	32.84	Oral fluid	Pen	1,036,475	487,981	47.081	4,762
2153073	27.93	Serum	1	485,839	46,014	9.471	443
2154774	11.5	Serum	1	1,221,852	77,485	6.342	556
2158115	18.77	Serum	1	395,810	1,258	0.318	13
2158116	17.24	Serum	1	1,128,925	84,829	7.514	817
2126306	21.35	PoT	2	2,423,832	2,376	0.098	33
2153250	23.3	Sera	9	1,184,256	105,787	8.933	1,492
2172065	22.1	Sera	NA	748,088	79,475	10.624	1,138
2164092	19.14	Lung	2	6,222,062	10,670	0.171	160
2190451	26.66	Sera	5	716,850	4,584	0.639	43
2190452	25.45	Sera	5	659,272	9,371	1.421	86
2191288	NA	Sera	10	353,150	136,394	38.622	1,517
2206200	14.75	PoT	1	3,651,528	17,109	0.469	198
2206201	16.51	PoT	1	2,384,358	15,394	0.646	292
2208392	18.51	Sera	10	614,140	44,917	7.314	506

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2210458	15.99	PoT	1	1,788,710	16,412	0.918	175
2236039	NA	Serum	1	217,310	60,139	27.674	794
2236850	20.52	Serum	1	282,080	38,646	13.700	403

Cq = cycle quantification; NA = not available; PoT = pool of tissues (includes mainly lungs with several other type of tissues such as lymph nodes, spleen, liver, intestine); PRRSV = porcine reproductive and respiratory syndrome virus; RT-qPCR = reverse-transcription quantitative PCR; WGS = whole-genome sequencing.

* The number of animals per pen during oral fluid sampling is unknown.