

Table S1. Results of PCR and qPCR amplification of 462 samples.

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
1	Jiangsu	+	+	+	+	+	+
2	Jiangsu	+	+	+	+	+	+
3	Jiangsu	+	+	+	+	+	+
4	Jiangsu	+	+	+	+	+	+
5	Jiangsu	+	+	+	+	+	+
6	Jiangsu	+	+	+	+	+	+
7	Jiangsu	+	+	+	+	+	+
8	Jiangsu	+	+	+	-	+	+
9	Jiangsu	+	+	+	+	-	+
10	Jiangsu	+	+	+	+	+	+
11	Jiangsu	+	+	+	+	+	+
12	Jiangsu	+	+	+	+	+	+
13	Jiangsu	+	+	+	+	+	+
14	Jiangsu	+	+	+	-	+	+
15	Jiangsu	+	+	+	+	+	+
16	Jiangsu	+	+	+	+	+	+
17	Jiangsu	+	+	+	+	+	+
18	Jiangsu	+	+	+	+	+	+
19	Jiangsu	+	+	+	+	+	+
20	Jiangsu	+	+	+	+	-	+
21	Jiangsu	+	+	+	+	+	+
22	Jiangsu	+	+	+	+	-	+
23	Jiangsu	+	+	+	+	+	+
24	Jiangsu	+	+	+	+	+	+
25	Jiangsu	-	-	-	-	-	-
26	Jiangsu	-	-	-	-	-	-
27	Jiangsu	+	-	+	+	-	+
28	Jiangsu	+	-	+	+	-	+
29	Jiangsu	+	-	+	+	-	+
30	Jiangsu	-	-	-	-	-	-
31	Jiangsu	-	-	-	-	-	-
32	Jiangsu	-	-	+	-	-	+
33	Jiangsu	+	-	+	+	-	+
34	Jiangsu	-	-	+	-	-	+
35	Jiangsu	+	-	+	+	-	+
36	Jiangsu	+	-	+	+	-	+
37	Jiangsu	+	-	+	+	-	+
38	Jiangsu	+	-	+	+	-	+
39	Jiangsu	-	-	-	-	-	-
40	Jiangsu	+	-	+	-	-	+
41	Jiangsu	+	-	-	-	-	-

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
42	Jiangsu	-	-	-	-	-	-
43	Jiangsu	+	+	+	-	+	+
44	Jiangsu	-	-	-	-	-	-
45	Jiangsu	-	-	+	-	-	+
46	Jiangsu	+	-	+	-	-	+
47	Jiangsu	+	+	+	-	-	+
48	Jiangsu	+	-	+	-	-	-
49	Jiangsu	-	-	+	-	-	+
50	Jiangsu	-	-	+	-	-	+
51	Jiangsu	-	-	-	-	-	-
52	Jiangsu	-	-	-	-	-	-
53	Jiangsu	-	-	+	-	-	+
54	Jiangsu	-	-	-	-	-	-
55	Jiangsu	-	-	-	-	-	-
56	Jiangsu	-	-	-	-	-	-
57	Jiangsu	-	-	-	-	-	-
58	Jiangsu	+	-	+	+	-	+
59	Jiangsu	-	-	-	-	-	-
60	Jiangsu	-	-	+	-	-	+
61	Jiangsu	-	-	-	-	-	-
62	Jiangsu	-	-	-	-	-	-
63	Jiangsu	-	-	+	-	-	+
64	Jiangsu	-	-	-	-	-	-
65	Jiangsu	-	-	-	-	-	-
66	Jiangsu	-	-	-	-	-	-
67	Jiangsu	-	-	-	-	-	-
68	Jiangsu	-	-	-	-	-	-
69	Jiangsu	+	-	+	+	-	+
70	Jiangsu	-	-	-	-	-	-
71	Jiangsu	+	+	+	+	+	+
72	Jiangsu	-	-	-	-	-	-
73	Jiangsu	+	-	+	+	-	+
74	Jiangsu	+	-	+	+	-	-
75	Jiangsu	-	-	+	-	-	+
76	Jiangsu	-	-	-	-	-	-
77	Jiangsu	+	+	+	+	+	+
78	Jiangsu	+	+	+	+	+	+
79	Jiangsu	+	-	+	+	-	+
80	Jiangsu	-	-	-	-	-	-
81	Jiangsu	-	-	-	-	-	-
82	Jiangsu	+	-	+	+	-	+
83	Jiangsu	+	-	+	+	-	+

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
84	Jiangsu	+	-	-	+	-	-
85	Jiangsu	+	-	-	+	-	-
86	Jiangsu	+	-	+	+	-	+
87	Jiangsu	+	-	+	+	-	+
88	Jiangsu	+	-	+	+	-	+
89	Jiangsu	+	-	+	+	-	+
90	Jiangsu	+	-	-	+	-	-
91	Jiangsu	+	-	+	+	-	+
92	Jiangsu	+	-	+	+	-	-
93	Jiangsu	+	+	+	+	+	+
94	Jiangsu	+	-	+	+	-	+
95	Jiangsu	-	-	-	-	-	-
96	Jiangsu	-	-	-	-	-	-
97	Jiangsu	+	+	+	+	+	+
98	Jiangsu	-	-	-	-	-	-
99	Jiangsu	+	-	+	+	-	+
100	Jiangsu	+	-	+	+	-	+
101	Jiangsu	+	-	+	+	-	+
102	Jiangsu	+	-	-	+	-	-
103	Jiangsu	+	-	+	+	-	+
104	Jiangsu	-	-	-	-	-	-
105	Jiangsu	-	-	+	-	-	+
106	Jiangsu	-	-	-	-	-	-
107	Jiangsu	-	-	-	-	-	-
108	Jiangsu	-	-	-	-	-	-
109	Jiangsu	-	-	+	-	-	+
110	Jiangsu	-	-	-	-	-	-
111	Jiangsu	-	-	-	-	-	-
112	Jiangsu	-	-	-	-	-	-
113	Jiangsu	-	-	-	-	-	-
114	Jiangsu	-	-	-	-	-	-
115	Jiangsu	-	-	-	-	-	-
116	Jiangsu	+	-	+	+	-	+
117	Jiangsu	-	-	-	-	-	-
118	Jiangsu	-	-	-	-	-	-
119	Jiangsu	-	-	+	-	-	+
120	Jiangsu	-	-	-	-	-	-
121	Jiangsu	-	-	+	-	-	+
122	Jiangsu	-	-	-	-	-	-
123	Jiangsu	-	-	-	-	-	-
124	Jiangsu	+	-	+	+	-	+
125	Jiangsu	+	-	+	+	-	+

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
126	Jiangsu	-	-	-	-	-	-
127	Jiangsu	-	-	+	-	-	+
128	Jiangsu	-	-	+	-	-	+
129	Jiangsu	-	-	-	-	-	-
130	Jiangsu	-	-	-	-	-	-
131	Jiangsu	-	-	-	-	-	-
132	Jiangsu	+	-	+	+	-	+
133	Jiangsu	+	-	-	+	-	-
134	Jiangsu	-	-	-	-	-	-
135	Jiangsu	+	-	+	+	-	+
136	Jiangsu	+	-	+	+	-	-
137	Jiangsu	+	-	+	+	-	+
138	Jiangsu	-	-	-	-	-	-
139	Jiangsu	-	-	-	-	-	-
140	Jiangsu	+	-	+	+	-	+
141	Jiangsu	-	-	-	-	-	-
142	Jiangsu	+	-	+	+	-	+
143	Jiangsu	+	-	+	+	-	+
144	Jiangsu	-	-	+	-	-	+
145	Jiangsu	+	+	+	+	+	-
146	Shandong	+	-	+	+	-	+
147	Shandong	+	-	+	+	-	+
148	Shandong	+	-	+	+	-	+
149	Shandong	+	-	+	-	-	+
150	Shandong	+	-	+	+	-	+
151	Shandong	+	-	+	+	-	+
152	Shandong	+	-	+	+	-	+
153	Shandong	-	-	-	-	-	-
154	Shandong	+	-	+	+	-	+
155	Shandong	+	-	+	+	-	-
156	Shandong	+	-	+	+	-	+
157	Shandong	-	-	-	-	-	-
158	Shandong	+	+	+	+	+	+
159	Shandong	-	-	-	-	-	-
160	Shandong	-	-	-	-	-	-
161	Shandong	-	-	-	-	-	-
162	Shandong	-	-	-	-	-	-
163	Shandong	-	-	-	-	-	-
164	Shandong	-	-	-	-	-	-
165	Shandong	-	-	-	-	-	-
166	Shandong	-	-	-	-	-	-
167	Shandong	-	-	-	-	-	-

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
168	Shandong	-	-	-	-	-	-
169	Shandong	-	-	-	-	-	-
170	Shandong	-	-	-	-	-	-
171	Shandong	-	-	-	-	-	-
172	Shandong	+	+	+	+	+	+
173	Shandong	+	+	-	+	+	-
174	Shandong	-	-	-	-	-	-
175	Shandong	-	-	-	-	-	-
176	Shandong	-	-	-	-	-	-
177	Shandong	-	-	-	-	-	-
178	Shandong	-	-	-	-	-	-
179	Shandong	-	-	-	-	-	-
180	Shandong	-	-	-	-	-	-
181	Shandong	-	-	-	-	-	-
182	Shandong	+	-	+	+	-	+
183	Shandong	+	-	+	+	-	+
184	Shandong	+	-	-	+	-	-
185	Shandong	+	-	-	+	-	-
186	Shandong	+	-	-	+	-	-
187	Shandong	+	-	-	+	-	-
188	Shandong	+	-	-	-	-	-
189	Shandong	+	-	-	+	-	-
190	Shandong	+	-	-	+	-	-
191	Shandong	+	-	-	+	-	-
192	Shandong	+	-	-	+	-	-
193	Shandong	+	-	-	+	-	-
194	Shandong	+	-	-	+	-	-
195	Shandong	+	-	+	+	-	+
196	Shandong	+	-	+	+	-	-
197	Shandong	+	-	+	+	-	+
198	Shandong	+	-	-	+	-	-
199	Shandong	+	-	-	+	-	-
200	Shandong	+	-	-	+	-	-
201	Shandong	+	-	+	+	-	+
202	Shandong	+	-	-	+	-	-
203	Shandong	+	-	+	+	-	+
204	Shandong	-	-	-	-	-	-
205	Shandong	-	-	-	-	-	-
206	Shandong	-	-	-	-	-	-
207	Shandong	+	-	+	+	-	-
208	Shandong	-	-	-	-	-	-
209	Shandong	-	-	-	-	-	-

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
210	Guangdong	-	-	-	-	-	-
211	Guangdong	-	-	-	-	-	-
212	Guangdong	-	-	-	-	-	-
213	Guangdong	-	-	-	-	-	-
214	Guangdong	-	-	-	-	-	-
215	Guangdong	-	-	-	-	-	-
216	Guangdong	-	-	-	-	-	-
217	Guangdong	-	-	-	-	-	-
218	Guangdong	-	-	-	-	-	-
219	Guangdong	+	-	-	+	-	-
220	Guangdong	+	-	-	+	-	-
221	Guangdong	+	-	-	+	-	-
222	Guangdong	-	-	-	-	-	-
223	Guangdong	+	-	-	+	-	-
224	Guangdong	+	-	-	+	-	-
225	Guangdong	-	-	-	-	-	-
226	Guangdong	-	-	-	-	-	-
227	Guangdong	-	-	-	-	-	-
228	Guangdong	-	-	-	-	-	-
229	Guangdong	-	-	-	-	-	-
230	Guangdong	-	-	-	-	-	-
231	Guangdong	-	+	-	-	+	-
232	Guangdong	+	+	+	+	+	+
233	Guangdong	+	+	+	+	+	+
234	Guangdong	+	+	+	+	+	+
235	Guangdong	+	-	+	+	-	+
236	Guangdong	+	-	+	+	-	+
237	Guangdong	+	+	+	+	+	+
238	Guangdong	+	-	+	+	-	+
239	Guangdong	+	-	+	+	-	+
240	Guangdong	+	-	+	+	-	+
241	Guangdong	+	+	+	+	+	+
242	Guangdong	+	+	+	+	+	-
243	Guangdong	+	+	+	+	+	+
244	Guangdong	+	-	+	+	-	+
245	Guangdong	+	-	+	+	-	+
246	Guangdong	+	-	+	+	-	+
247	Guangdong	+	+	+	+	+	+
248	Guangdong	+	+	+	+	+	+
249	Guangdong	+	+	+	+	+	+
250	Guangdong	+	+	+	+	+	+
251	Guangdong	+	-	+	+	-	+

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
252	Guangdong	-	-	-	-	-	-
253	Guangdong	+	-	+	+	-	+
254	Guangdong	+	-	+	+	-	+
255	Guangdong	+	-	+	+	-	+
256	Guangdong	+	-	+	+	-	+
257	Guangdong	+	-	+	+	-	+
258	Guangdong	+	-	+	+	-	+
259	Guangdong	+	-	+	+	-	+
260	Guangdong	+	-	+	+	-	+
261	Guangdong	+	-	+	+	-	+
262	Guangdong	+	-	+	+	-	+
263	Guangdong	+	-	+	+	-	+
264	Guangdong	+	-	+	+	-	+
265	Guangdong	+	-	+	+	-	+
266	Guangdong	+	-	+	+	-	+
267	Guangdong	+	-	+	+	-	+
268	Guangdong	+	-	+	+	-	+
269	Guangdong	-	-	+	-	-	+
270	Guangdong	-	-	+	-	-	+
271	Guangdong	-	-	+	-	-	+
272	Guangdong	-	-	+	-	-	+
273	Guangdong	-	-	+	-	-	+
274	Guangdong	-	-	+	-	-	+
275	Guangdong	-	-	+	-	-	+
276	Guangdong	-	-	+	-	-	+
277	Guangdong	-	-	+	-	-	+
278	Guangdong	-	-	+	-	-	+
279	Guangdong	-	-	+	-	-	+
280	Guangdong	-	-	+	-	-	+
281	Guangdong	-	-	+	-	-	+
282	Guangdong	-	-	+	-	-	+
283	Guangdong	-	-	+	-	-	+
284	Guangdong	-	-	+	-	-	+
285	Guangdong	-	-	-	-	-	-
286	Guangdong	-	-	+	-	-	+
287	Guangdong	-	-	+	-	-	+
288	Guangdong	-	-	+	-	-	+
289	Guangdong	+	-	+	+	-	+
290	Guangdong	+	-	+	+	-	+
291	Guangdong	-	-	-	-	-	-
292	Guangdong	-	-	-	-	-	-
293	Guangdong	-	-	-	-	-	-

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
294	Guangdong	-	-	+	-	-	+
295	Guangdong	-	-	+	-	-	+
296	Guangdong	-	-	-	-	-	-
297	Guangdong	-	-	-	-	-	-
298	Guangdong	+	-	-	+	-	-
299	Guangdong	-	-	-	-	-	-
300	Guangdong	+	-	+	+	-	+
301	Guangdong	+	-	-	+	-	-
302	Guangdong	-	-	-	-	-	-
303	Guangdong	+	-	-	+	-	-
304	Guangdong	+	-	+	+	-	+
305	Guangdong	+	-	-	+	-	-
306	Guangdong	+	-	-	+	-	-
307	Hubei	-	-	-	-	-	-
308	Hubei	+	-	-	+	-	-
309	Hubei	-	-	-	-	-	-
310	Hubei	-	-	-	-	-	-
311	Hubei	-	-	-	-	-	-
312	Hubei	-	+	-	-	+	-
313	Hubei	+	-	-	+	-	-
314	Hubei	-	-	-	-	-	-
315	Hubei	-	-	-	-	-	-
316	Hubei	-	-	-	-	-	-
317	Hubei	+	+	+	+	+	+
318	Hubei	-	-	-	-	-	-
319	Hubei	-	-	-	-	-	-
320	Hubei	-	-	-	-	-	-
321	Hubei	-	-	-	-	-	-
322	Hubei	+	-	-	+	-	-
323	Hubei	-	-	-	-	-	-
324	Hubei	-	-	-	-	-	-
325	Hubei	-	-	-	-	-	-
326	Hubei	-	+	-	-	+	-
327	Hubei	+	-	-	+	-	-
328	Hubei	-	-	-	-	-	-
329	Hubei	-	+	+	-	+	+
330	Hubei	-	-	-	-	-	-
331	Hubei	-	-	-	-	-	-
332	Hubei	-	-	-	-	-	-
333	Hubei	-	+	-	-	+	-
334	Hubei	-	-	-	-	-	-
335	Hubei	-	-	-	-	-	-

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
336	Hubei	-	-	-	-	-	-
337	Hubei	-	-	-	-	-	-
338	Hubei	-	-	-	-	-	-
339	Hubei	-	-	-	-	-	-
340	Hubei	-	-	-	-	-	-
341	Hubei	-	-	-	-	-	-
342	Hubei	-	-	-	-	-	-
343	Hubei	-	-	-	-	-	-
344	Hubei	-	-	-	-	-	-
345	Hubei	-	-	+	-	-	+
346	Hubei	-	-	-	-	-	-
347	Hubei	-	-	-	-	-	-
348	Hubei	-	-	-	-	-	-
349	Hubei	-	-	-	-	-	-
350	Hubei	-	-	-	-	-	-
351	Hubei	+	-	-	+	-	-
352	Hubei	+	-	-	+	-	-
353	Hubei	+	-	-	+	-	-
354	Hubei	+	-	-	+	-	-
355	Hubei	+	-	-	+	-	-
356	Hubei	+	-	-	+	-	-
357	Hubei	+	-	-	+	-	-
358	Hubei	+	-	-	+	-	-
359	Hubei	+	-	-	+	-	-
360	Hubei	+	-	-	+	-	-
361	Hubei	+	-	-	+	-	-
362	Hubei	+	-	-	+	-	-
363	Hubei	+	-	-	+	-	-
364	Hubei	+	-	-	+	-	-
365	Hubei	+	-	-	+	-	-
366	Hubei	+	-	-	+	-	-
367	Hubei	+	-	-	+	-	-
368	Hubei	+	-	+	+	-	+
369	Hubei	+	-	-	+	-	-
370	Hubei	+	-	-	+	-	-
371	Hubei	+	-	-	+	-	-
372	Hubei	+	-	-	+	-	-
373	Hubei	+	-	-	+	-	-
374	Hubei	+	-	-	+	-	-
375	Hubei	+	-	-	+	-	-
376	Hubei	+	-	-	+	-	-
377	Hubei	+	-	+	+	-	+

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
378	Hubei	+	-	-	+	-	-
379	Hubei	+	-	-	+	-	-
380	Hubei	+	-	-	+	-	-
381	Hubei	+	-	+	+	-	+
382	Hubei	+	-	+	+	-	+
383	Hubei	+	-	+	+	-	+
384	Hubei	+	-	+	+	-	+
385	Hubei	+	-	+	+	-	+
386	Hubei	+	-	-	+	-	-
387	Hubei	+	-	+	+	-	+
388	Hubei	+	-	+	+	-	+
389	Hubei	+	-	-	+	-	-
390	Hubei	+	-	-	+	-	-
391	Hubei	+	-	-	+	-	-
392	Hubei	+	-	+	+	-	+
393	Hubei	+	-	-	+	-	-
394	Hubei	+	-	+	+	-	+
395	Hubei	+	-	+	+	-	+
396	Hubei	+	-	-	+	-	-
397	Hubei	+	-	+	+	-	+
398	Hubei	+	-	+	+	-	+
399	Hunan	+	-	+	+	-	+
400	Hunan	+	+	+	+	+	+
401	Hunan	+	+	+	+	+	+
402	Hunan	+	+	+	+	+	+
403	Hunan	+	+	+	+	+	+
404	Hunan	+	+	+	+	+	+
405	Hunan	-	-	+	-	-	+
406	Hunan	+	-	+	+	-	+
407	Hunan	+	-	+	+	-	+
408	Hunan	+	-	+	+	-	+
409	Hunan	+	+	+	+	+	+
410	Hunan	-	-	-	-	-	-
411	Hunan	-	-	+	-	-	+
412	Hunan	+	+	+	+	+	+
413	Hunan	+	+	+	+	+	+
414	Hunan	+	-	+	+	-	+
415	Hunan	+	-	+	+	-	+
416	Hunan	-	-	-	-	-	-
417	Hunan	+	+	+	+	+	+
418	Hunan	+	-	+	+	-	+
419	Hunan	+	-	-	+	-	-

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
420	Hunan	+	-	-	+	-	-
421	Hunan	+	-	-	+	-	-
422	Hunan	+	-	-	+	-	-
423	Hunan	+	+	-	+	+	-
424	Hunan	+	+	-	+	+	-
425	Hunan	+	+	-	+	+	-
426	Hunan	+	-	-	+	-	-
427	Hunan	+	-	-	+	-	-
428	Hunan	+	+	-	+	+	-
429	Hunan	+	+	-	+	+	-
430	Hunan	+	-	-	+	-	-
431	Hunan	+	-	-	+	-	-
432	Hunan	+	+	-	+	+	-
433	Hunan	+	-	-	+	-	-
434	Hunan	+	-	-	+	-	-
435	Hunan	+	+	-	+	+	-
436	Hunan	+	-	-	+	-	-
437	Hunan	+	+	-	+	+	-
438	Hunan	+	+	-	+	+	-
439	Hunan	+	+	-	+	+	-
440	Hunan	+	-	-	+	-	-
441	Hunan	+	+	-	+	+	-
442	Hunan	+	-	-	+	-	-
443	Hunan	+	-	-	+	-	-
444	Hunan	+	-	-	+	-	-
445	Hunan	+	-	-	+	-	-
446	Hunan	+	-	-	+	-	-
447	Hunan	+	-	-	+	-	-
448	Hunan	+	-	-	+	-	-
449	Hunan	+	-	-	+	-	-
450	Hunan	+	-	-	+	-	-
451	Hunan	+	-	-	+	-	-
452	Hunan	+	+	-	+	+	-
453	Hunan	+	+	-	+	+	-
454	Hunan	+	+	-	+	+	-
455	Hunan	-	-	+	-	-	+
456	Hunan	-	-	+	-	-	+
457	Hunan	-	-	+	-	-	+
458	Hunan	-	-	+	-	-	+
459	Hunan	-	-	+	-	-	+
460	Hunan	-	-	-	-	-	-
461	Hunan	-	-	+	-	-	+

Samples	Province	qPCR			PCR		
		PEDV	TGEV	PDCoV	PEDV	TGEV	PDCoV
462	Hunan	-	-	+	-	-	+