

Table S1. Partial RdRp nucleotide and amino acid sequence identity alignment of β -CoV *.

	CoV L55	CoV L75	CoV L140	CoV L161	CoV L172	CoV NJ16	CoV NJ21	CoV NJ33	CoV NJ53	CoV NJ55	CoV NJ56	CoV NJ99	CoV J142	Lijian g-41	Ruili-8 74	RtAp-CoV/ SAX2015	Lijian g-53	BOV-36/IN D/2015	DcCoV-H KU23
CoV L55		99.40	99.35	99.57	98.89	99.28	100.00	97.14	100.00	100.00	94.66	91.43	90.14	97.54	96.86	53.08	99.80	49.36	49.36
CoV L75	98.55		99.14	98.92	98.52	99.28	100.00	97.14	100.00	100.00	94.66	91.43	90.14	97.34	96.65	53.08	99.60	49.36	49.36
CoV L140	96.56	96.77		98.92	98.89	99.28	100.00	97.14	100.00	100.00	94.66	91.43	90.14	98.92	99.78	55.87	99.57	51.95	51.95
CoV L161	99.00	98.92	96.56		98.52	98.55	100.00	96.43	99.25	100.00	93.89	90.71	89.44	98.71	99.14	55.47	99.35	51.54	51.54
CoV L172	98.65	98.15	95.33	97.91		97.10	98.72	94.47	97.74	98.72	92.37	90.14	89.29	98.52	98.89	74.04	98.89	68.56	68.56
CoV NJ16	97.59	96.87	96.63	96.39	95.90		76.83	96.38	99.25	76.83	95.84	90.58	90.58	98.55	99.28	99.28	99.28	91.30	91.30
CoV NJ21	98.72	100.00	98.29	100.00	98.46	96.92		78.66	78.66	100.00	75.00	65.85	62.79	100.00	100.00	78.66	100.00	65.85	65.85
CoV NJ33	97.14	96.43	95.24	95.95	95.19	96.54	98.20		96.99	78.66	93.51	88.57	88.57	96.43	97.14	96.63	97.14	89.29	89.29
CoV NJ53	98.75	97.99	96.99	97.74	97.24	97.74	98.20	98.75		78.66	96.62	90.98	90.98	99.25	100.00	100.00	100.00	91.73	91.73
CoV NJ55	99.23	98.46	98.46	98.46	98.46	96.92	98.46	99.74	99.74		75.00	65.85	62.79	100.00	100.00	78.66	100.00	65.85	65.85
CoV NJ56	96.63	95.87	95.36	95.62	95.11	95.25	98.46	95.68	96.97	98.46		88.05	88.55	93.89	94.66	96.62	94.66	88.83	88.83
CoV NJ99	84.29	83.57	84.76	83.10	82.45	83.99	80.41	84.05	84.46	81.19	83.75		100.00	90.71	91.43	90.87	91.43	99.29	99.29
CoV J142	83.42	82.73	84.57	82.51	82.49	83.86	66.60	83.81	84.46	80.77	82.49	98.57		89.44	90.14	90.43	90.14	98.82	98.82
Lijian-g-41	98.35	98.35	96.63	98.21	97.17	96.87	99.15	96.43	98.25	98.46	96.12	83.57	82.96		99.14	99.28	97.75	91.43	91.43
Ruili-874	94.19	94.40	99.57	96.85	95.69	96.39	98.72	95.48	97.24	99.23	95.62	85.00	84.80	94.26		100.00	99.78	92.14	92.14
RtAp-CoV/SAX2015	51.86	51.47	54.34	54.20	72.85	98.07	77.73	96.15	97.99	98.46	96.29	84.62	83.65	97.35	97.35		100.00	92.03	92.03
Lijian-g-53	95.31	95.79	97.13	98.28	97.17	97.11	98.72	96.19	97.74	97.69	95.62	83.57	82.73	95.51	97.42	97.11		92.14	92.14
BOV-36/IND/2015	45.13	44.75	48.32	47.11	62.71	84.47	63.41	83.57	84.71	81.19	84.01	98.33	97.34	84.05	85.95	85.44	83.57		100.00
DcCoV-HKU23	46.75	46.38	49.85	48.66	64.53	84.58	68.08	83.81	84.71	81.54	84.88	98.10	97.86	84.67	86.50	85.30	84.44	99.52	

*The upper right is the amino acid sequence alignment result; The bottom left is the nucleotide sequence alignment result.