

Supplementary Table Pairwise nucleotide (lower left) and amino acid (upper right) sequence identities (%) of the2C+3CD among parechoviruses. Pink, orange, and yellow show indicate >90%, 90-80%, and 80-70% identities, respectively.

		Novel Bo_ParV			Bo_ParV					ParV A								ParV B						ParV C	ParV D	ParV E	ParV F	
		Mayo_3	Mayo_8oya	Mayo_18	Den1	2018/KOR	LaV218040	Lav228012	CEP128	EV22	Gregory	A308/99	K251176	CT86-6760	NIJ561	PAK5045	BR/217	M36/CI	87-012	145SL	M1146	64-7855	Fuzl	JL2014-2	Sebokel	Ferret	Falcon	Gecko
Novel Bo_ParV	Bo_ParV/Mayo_3/2021/JPN		99.8	99.4	98.1	97.7	98.6	98.4	98.2	48.3	47.5	48.5	48.4	48.1	48.3	48.1	48.3	48.5	61.2	61.3	61.4	61.1	61.2	61.1	59.7	43.1	66.2	40.2
	Bo_ParV/Mayo_8oya/2021/JPN	99.2		99.6	98.1	97.7	98.6	98.4	98.2	48.3	47.5	48.5	48.4	48.1	48.3	48.1	48.3	48.5	61.3	61.4	61.3	61.0	61.2	61.1	59.6	43.1	66.3	40.1
	Bo_ParV/Mayo_18/2021/JPN	99.1	99.1		97.8	97.3	98.4	98.2	97.8	48.4	47.6	48.6	48.5	48.2	48.4	48.2	48.4	48.6	61.0	61.1	61.0	60.7	60.9	60.8	59.5	43.1	66.2	40.0
Bo_ParV	LC650808_Bo_ParV/Den1/2021/JPN	86.0	85.8	85.9		98.2	98.8	98.6	98.5	47.9	47.2	48.1	47.9	47.7	47.8	47.6	47.8	48.1	60.5	60.5	60.6	60.2	60.6	60.3	59.0	43.1	66.4	39.9
	BR001751_Bo_ParV/cow/2018/KOR	85.6	85.7	85.6	89.7		98.5	98.3	98.3	48.5	47.5	48.6	48.5	48.2	48.4	48.1	48.3	48.6	60.9	61.0	61.3	60.8	60.8	60.8	59.5	43.3	66.3	40.0
	LC740522_Bo_ParV/LaV218040/2022/JPN	86.1	86.1	86.1	90.9	89.6		99.8	98.8	48.3	47.4	48.5	48.3	48.1	48.2	48.0	48.2	48.5	61.0	61.0	61.1	60.7	61.0	60.7	59.3	43.2	66.7	40.0
	LC740523_Bo_ParV/Lav228012/2022/JPN	85.9	85.9	85.9	90.8	89.7	99.0		98.6	48.3	47.4	48.5	48.3	48.1	48.2	48.0	48.2	48.5	61.1	61.1	61.2	60.8	61.1	60.8	59.4	43.3	66.5	40.0
	LC740524_Bo_ParV/CEP128/2022/JPN	85.9	85.9	85.9	90.5	89.6	95.6	95.7		48.2	47.3	48.4	48.2	48.0	48.1	47.9	48.1	48.5	61.3	61.3	61.3	60.9	61.2	60.9	59.6	43.3	66.7	40.1
ParV A	NC_038319_Human_parechovirus_1_EV22	48.3	48.3	48.2	47.7	47.5	47.9	47.8	47.7		92.8	95.1	95.2	96.2	96.8	94.4	96.3	95.9	49.2	49.4	48.0	47.4	47.5	47.5	47.1	40.5	48.9	37.1
	AJ005695_Human_parechovirus_2_Gregory	48.1	48.0	48.1	47.6	47.7	47.7	47.7	47.5	77.7		91.9	92.6	93.5	93.5	92.1	93.0	93.0	49.0	49.0	48.1	47.3	47.1	47.0	46.5	40.1	48.1	36.6
	AB084913_Human_parechovirus_3_A308/99	48.1	48.1	48.0	48.1	48.0	48.0	48.1	48.2	76.4	75.7		98.0	96.5	94.8	96.8	94.8	94.7	49.4	49.8	48.4	48.0	47.6	48.0	47.7	40.5	48.8	37.7
	DQ315670_Human_parechovirus_4_K251176-02	48.7	48.8	48.7	47.8	47.7	48.2	48.1	48.1	77.4	76.7	80.8		96.6	95.5	97.0	95.7	94.8	48.9	49.7	47.8	47.8	47.2	47.7	47.2	40.2	48.3	37.5
	AF055846_Human_parechovirus_5_CT86-6760	48.2	48.0	48.1	47.7	47.6	47.3	47.3	47.6	76.7	75.9	76.5	78.5		96.1	96.1	95.9	95.7	49.2	49.5	48.1	47.6	47.2	47.4	47.2	40.5	48.8	37.3
	AB252582_Human_parechovirus_6_NIJ561-2000	48.4	48.3	48.4	48.0	48.2	47.9	47.8	47.9	79.6	76.8	76.3	76.7	76.6		94.0	96.7	95.4	49.1	49.4	48.4	47.7	47.1	47.6	47.1	40.8	49.0	37.3
	EU556224_Human_parechovirus_7_PAK5045	48.1	48.1	48.0	48.1	47.8	47.9	47.8	47.9	76.1	75.3	79.4	80.5	76.6	75.5		94.2	94.1	49.0	49.5	47.8	47.5	47.4	47.6	47.4	40.5	48.3	37.3
	EU716175_Human_parechovirus_8_BR/217/2006	48.6	48.5	48.6	48.2	48.0	48.1	48.0	48.0	78.0	76.6	75.0	76.4	76.0	77.5	76.3		96.0	49.3	49.7	47.8	47.7	47.3	47.7	47.2	40.4	48.5	37.6
	KT319121_Human_parechovirus_17_M36/CI/2014	48.0	48.0	48.0	48.0	47.7	47.9	47.9	47.9	76.9	76.1	77.7	76.6	76.2	76.2	77.2	76.7		49.5	49.3	48.5	47.8	47.6	47.9	47.2	40.2	48.8	37.1
ParV B	NC_003976_Ljungan_virus_1_87-012	57.9	57.7	57.7	57.6	58.1	58.0	57.9	58.1	50.7	50.3	49.9	49.6	50.0	49.9	49.7	50.9	50.5		91.9	83.0	83.1	84.0	86.1	66.9	43.4	62.3	41.5
	FJ384560_Ljungan_virus_2_145SL	57.7	57.7	57.6	57.6	57.7	57.5	57.6	57.7	50.8	49.9	49.7	50.1	49.7	50.4	50.0	50.7	50.2	78.7		84.9	86.2	87.2	90.3	66.6	43.0	61.9	41.3
	AF538689_Ljungan_virus_3_M1146	58.2	58.2	58.1	57.7	58.0	57.9	57.9	57.8	50.1	49.7	49.8	49.8	49.6	50.1	49.4	50.4	50.4	72.4	73.1		91.8	84.8	86.8	66.1	42.9	62.8	40.8
	EU854568_Ljungan_virus_4_64-7855	57.9	57.8	57.8	57.7	57.9	57.6	57.7	57.7	50.5	49.7	49.1	49.6	49.7	49.8	48.8	50.2	49.9	72.2	74.0	77.4		85.6	89.3	65.2	41.8	62.3	41.5
	LC133331_Ljungan_virus_5_Fuzl	58.3	58.2	58.1	58.2	58.0	58.2	58.3	58.3	49.7	49.8	49.5	49.6	49.6	50.1	50.0	50.5	50.0	75.3	76.4	73.3	73.2		89.2	65.6	42.9	61.9	40.6
	KY432929_Ljungan_virus_6_JL2014-2	57.4	57.3	57.3	57.1	57.5	57.4	57.4	57.1	50.4	49.4	49.9	49.6	49.2	50.1	49.3	50.5	49.8	72.9	74.5	75.0	76.5	74.6		65.8	42.1	62.1	40.7
ParV C	HF677705_Sebokel_virus_1	55.5	55.6	55.5	56.1	55.9	55.9	55.9	56.1	51.5	50.7	50.8	50.9	51.0	51.2	50.8	51.4	50.8	60.9	60.3	59.9	59.7	60.3	60.7		43.2	61.0	39.5
ParV D	NC_034453_Ferret_parechovirus	46.1	46.1	46.1	46.4	46.0	45.9	45.8	46.1	44.8	45.1	45.0	45.1	45.2	45.0	45.1	45.3	45.4	48.7	48.0	48.4	48.1	49.0	48.1	46.8		42.5	39.7
ParV E	KY645497_Falcon_parechovirus	62.7	62.6	62.7	62.9	62.6	62.7	62.8	62.6	47.9	47.3	48.0	47.4	47.4	47.8	47.6	47.8	47.5	59.3	59.5	59.7	59.2	59.7	59.1	56.1	47.1		38.9
ParV F	MG600084_Gecko_parechovirus	46.8	46.8	46.7	47.0	46.8	46.7	46.8	47.1	46.5	45.8	46.1	46.0	45.8	46.4	46.2	46.6	45.2	50.0	49.4	49.5	48.1	49.3	48.6	46.8	47.4	47.4	