

position in the CDV H protein	503	541	560
CDV CYN07-dV	DVLTESNLVVLPTQNFYVIATYDISRGDHAIVVYVYD	PFRTISYTPFRLTTKGRPD	
CDV CYN07-hV		S	
CDV monkey-BJ-01_FJ405223		N	
CDV monkey-KM-01_FJ405224		I	
CDV NM_EF445053		I	
CDV MAS5_AB286951		I	
CDV Hamamatsu_D85754		G	
CDV Yanaka_D85755		G	M
CDV HM-3_AB040767	V	EN	
CDV 98Marten_EU716074	V	N	M
CDV HLJ1_EU743934	F	V	RY
CDV Onderstepoort_AF378705	I	I	S
CDV BV3_FJ416338	I	I	S
CDV A75/17_AF164967			
CDV 01-2676_AY498692		R	V
CDV 00-2601_AY438597	I	I	
CDV DK91A_AF478544			H
CDV Danish_Z47761			H
CDV A92-6_Z54166			H
CDV 1493/Han89_X84999	I		D
CDV Danish_Z47759		N	D
CDV 207/00_DQ228166			N
CDV PDV-2_X84998			N
CDV Liud_AF172411			N
CDV 4spSouthAfrica_FJ461715		V	N
MV Edmonston_A_U03669	KLS	I	G
MV Younde.CAE_B1_AF079552	KLS	I	G
MV Libreville.GAB_B2_AF079551	KLS	I	G
MV Ibadan.NIE/97/1_B3_AJ23913	KLS	I	G
MV Tokyo.JPN/84_C1_AY047365	KLS	I	G
MV JM 1977_C2_M81898	KLS	I	G
MV WTFB_C2_Z80808	KLS	I	G
MV MVP_D1_Z80805	KLS	I	G
MV Chicago1_D3_M81895	KLS	I	G
MV Montreal.CAN_D4_AAC29442	KLS	I	G
MV PAL-93H_D5_AAA74532	KLS	I	G
MV Thailand-94_D5_AAB63777	KLS	I	G
MV NJ 1994_D6_AAA74529	KLS	I	G
MV Vic.AU/16.85_D7_AAG15478	KLS	I	G
MV Illinois.USA_D7_AAK95355	KLS	I	G
MV UK140H94_D8_AAC35876	KLS	I	G
MV Vic.AU/12.99_D9_AAM96002	KLS	I	G
MV Kampala.UGA_D10_AAX52047	KLS	I	G
MV Menglian Yunnan_D11_ADI4432	KLS	I	G
MV Berkley.USA/2.83_G1	KLS	I	G
MV Amsterdam.NET_G2_AAF28390	KLS	I	G
MV Gresik.INO/18.02_G3_AAO2777	KLS	I	G
MV China93-7_H1_AAC03033	KLS	I	G
MV China94-1_H2_AAC03035	KLS	I	G
position in the MV H protein	507	545	564

Supplementary Figure 1. Amino acid sequence alignment of the H proteins of various CDV and MV strains. The amino acid sequences at positions 503–560 of the CDV H proteins and positions 507–564 of the MV H proteins are aligned. Dots indicate the identical amino acid residues to those of the CDV CYN07-dV H protein. The box indicates the amino acid at position 541 of the CDV H protein and position 545 of the MV H protein. The DDBJ/GenBank accession numbers are provided with the CDV and MV strain names.