

Supplementary Table 1. HEV sequences with genomic rearrangements (insertions, duplications and deletions).

GB Number	Subtype	Genomic rearrangement	AA involved (n)	Location	Inserted fragment	Reference
KT591534	3f	Duplication	93	1	PPR	Lhomme 2020
MK390971	Unknown	Insertion	1	2	L	
MF444043	3c	Insertion	1	2	P	
3 sequences CR-3	3f	Insertion	28	3	ApoC1	
MN646693	3f-long	Insertion	36	4	RPS17	Lhomme 2020
		Duplication	29	12	PPR	
MN646694	3m	Insertion	50	5	RPL6	Lhomme 2020
		Deletion	2	63, 67-68		
JN564006	3a	Insertion	39	5	RPS19	Lhomme 2020
		Duplication	3	10	PPR	
MF444145	3h	Insertion	52	5	RNF19A	Lhomme 2020
HQ709170	3a	Insertion	57	6	RPS17	Lhomme 2020
		Duplication	5	10	PPR	
HQ389544, HW532736, JC087002, JQ679013	3a	Insertion	57	6	RPS17	
KC618403, KC618402*	3c	Duplication	62	6	PPR	Lhomme 2020
MH184580	3e	Duplication	26	7	PPR	
MH184581	3e	Duplication	28			
MF444088, MF444098, KJ917758	3f	Duplication	29	7	PPR	
MN646692	3f-long	Insertion	19	7	EEF1a1P13	Lhomme 2020
		Duplication	29	12	PPR	
		Deletion	1	50		
MF444119	3f	Insertion	75	8	ZNF787	Lhomme 2020
		Deletion	1	57		
MN646689	3f-long	Insertion	31	8	GATM	Lhomme 2020
		Duplication	29	12	PPR	
		Deletion	10	54, 94-111		
MN646695	3f-long	Insertion	35	8	RNA18S	Lhomme 2020
		Duplication	29	12	PPR	
		Deletion	10	54, 94-111		
MN646696	3f-long	Insertion	28	8	Unknown	
		Duplication	29	12	PPR	
		Deletion	10	54, 94-111		
KC166952*, KC166971	3f	Insertion	25	9	ITIH2	Lhomme 2020
MF444083	3f	Insertion	53	10	KIF1B	Lhomme 2020
		Deletion	1	56		
KT727028	3a	Duplication	7	11	PPR	
AB074918, AB074920, AB089824, AB481228, AB630970, KJ507955	3a	Duplication	6	11	PPR	

AB591734, AF060668, HQ38543, AX181807, AX181808, BD378054, BD378055, KF303502, JQ679014	3a	Duplication	4	11	PPR	
AF082843, AF060669, AX181882, AX181883, AY575857, AY575858, AY575859, BD378126, BD378127, FJ426403, FJ426404, AF082843, HQ389544, HW532736, JC087002, JQ679013, JN837481, KT447526, KT447528, MG833836	3a	Duplication	5	11	PPR	
HW532737, JC087006	3a	Duplication	3	11	PPR	
FJ956757	3f	Duplication	4	11	PPR	
EU495180	Unknown	Duplication	23	11	PPR	
		Deletion	1	118		
MF444036, MF444137	3f	Duplication	29	11	PPR	
MF444107		Duplication	20			
AY115488	3j	Duplication	5	11	PPR	
		Deletion	1	40		
AB248520, AB291958, AB780450, AB780451, AB780452, AB780453	3e	Duplication	13	12	PPR	
MF444086	3e	Duplication	39	12	PPR	Lhomme 2020
		Insertion	10		Transpeptidase	
MN646690	3e	Duplication	51	12	PPR	Lhomme 2020
MN646691		Duplication	52		PPR	
136614HM56	3c	Duplication	29	12	PPR	
KJ917704	3f	Duplication	31	12	PPR	Lhomme 2020
		Insertion	13		substrate- binding domain	
KJ917717		Duplication	89	12	PPR	Lhomme 2020
KJ917720	3f	Insertion	45	12	Synthase	
		Duplication	23		PPR	
KJ917712	3f-long	Duplication	23	12	PPR	
MF444073	3f-long	Duplication	25	12	PPR	
		Deletion	2	40, 117		
140641HO47, 142571HAS51, MF444132	3f-long	Duplication	28	12	PPR	
MF444057, MF444061, MF444140	3f-long	Duplication	27	12	PPR	
KJ917766, KJ917678, KJ917689, KJ917691, KJ917714, KJ917671, KJ917716, KJ917741, 166285HSE75, 171921HM52, KJ917677, KJ917682, KJ917683, KJ917688, KJ917693, KJ917696, KJ917722, EU495171, KJ917726, KJ917743, KJ917752, KJ917756, 152434HNA47, 140053HM37, 140282HM32, 140572HM42, 141793MM51, 144223MBA70, 144461HM77, 144811MPO55, 144841HM39, 148523HGU53, 149221HM81, 149321MM55, 157033HM45, 159454HSE66, 160604MM45, 160981MSE55,	3f-long	Duplication	29	12	PPR	

161913MNA48, 162025HBI52, 162065HM34, 163093HSE37, 163762HS61, 163913HS61, 165054HBI84, 165063HMLL56, 165463DMA60, 165604HA38, 165932HMA55, 167004HPO40, 168683HS50, 169675MLR60, 170115HBI50, 170261HPO51, 172285HBI52, 172573HM71, 172881HPO51, 173316HM61, 174184HM65, 174564MM54, 174866HM60, 175580HBI50, 176012HM59, 176031HGU39, 176473HM46, 176825HA75, 176964MM62, 177441HO52, 178134HOU53, 178844HBA48, 179031HPO51, 179333HM18, 179771MVA47, 180003HSE65, 180231HNA60, 180394HBI61, 181001HTO65, 181283HNA50, 181584HMA42, 181634MM53, 181774HB83, 181884HB62, 182094HSE57, 182344MCC36, 182714HSE54, 184161MMU79, 184774HM57, 185222MM44, 186143HM37, 186144HM56, 187041HPO51, 187723HM64, 188031HPO78, 188471HBI60, 189093HO69, 189150HM71, 189574HNA75, 189660HA56, 189674HCR38, 189821HNA76, 189874HB29, AB850879, EU495148, EU723514, EU723515, EU723516, KC166952, KC166971, H_Swine_148, H_Swine_151, H_Swine_363, H_Swine_54, Hi_Swine_206, Hi_Swine_49, JN906974, JN906975, JN906976, KC166967, KC166968, KC166969, KC166970, LC055972, LC055973, LC164712, MF444027, MF444034, MF444035, MF444038, MF444039, MF444040, MF444041, MF444045, MF444047, MF444048, MF444050, MF444051, MF444054, MF444055, MF444058, MF444059, MF444066, KT581448, MF444068, MF444069, MF444070, MF444076, MF444078, MF444081, MF444082, MF444084, MF444087, MF444090, MF444092, MF444093, MF444094, MF444095, MF444096, MF444097, MF444100, MF444103, MF444105, MF444108, MF444112, MF444117, MF444123, MF444124, MF444125, MF444127, MF444129, MF444130, MF444133, MF444134, MF444138, MF444139, MF444142, 174953HGC54					
	KT591533		Deletion	1	40
	KC166969	3f	Deletion	2	40, 120
	KJ917673	Unknown	Deletion	2	49, 126
	189874HB29, MF444101	3f	Deletion	1	49
	AB740221		Deletion	15	50, 52, 53, 82-90, 94-99, 112
	AB740220, AB740222, FJ906895, FJ906896, GU937805, JQ768461, JX109834, JX565469, KX227751,	3ra	Deletion	13	52, 82-90, 94-99, 112

KY436898, KY496200, LC484431,
MF444099, MF480297, MF480298

AF455784	3g	Deletion	9	37, 40-41, 50-52, 63, 81-82	
MK390971	3	Insertion	1	2 Leucine	
MF444043	3c	Insertion Deletion	1 1	2 55 Proline	
MF444108	3f	Deletion	1	53	
MF444128	3c	Deletion	2	53, 63, 68	
MF444115		Deletion		53-54	
MF444141	3e	Deletion	1	56	
MF444116	3f	Deletion	3	56-57, 76	
KJ917751	Unknown	Deletion	1	57	
MF444140	3f	Deletion	3	64, 79, 99	
MF444103		Deletion	1	67	
MF444032		Deletion	5	68, 83, 87 121, 126	
MF444104		Deletion	2	68, 90	
MF444129		Deletion	1	68	
MF444034		Deletion	1	71	
KU176131		3h	Deletion	1	63, 74
KJ917762		Unknown	Deletion	2	63, 76, 115
MF444131	3l	Deletion	1	63, 77	
MF444049	3c	Deletion	1	89	
MF444072		Deletion		90	
MF444057	3f	Deletion	1	94	
MF444133 186633MA46	3f	Deletion	1	97	
MH184579	3e	Deletion	1	111	
AB481226		Deletion		112	
175362HM68	3m	Deletion	1	113	
MF444054	3f	Deletion	1	114	
MF444135					
KJ917744	Unknown	Deletion	1	115	
MF444143	3c	Deletion	1	115	
MF444061	3f	Deletion	1	116	
MF959764	3	Deletion	1	119	
EU495185	Unknown	Deletion		121	
MF444052	3f	Deletion	1	122	
MG833836	3a	Deletion	1	124	
MF444130	3f	Deletion	1	125	
KJ917737	Unknown	Deletion	1	126	
KX578717	2a	Insertion	1	13	