

**Table S1:** Overview of the HEV sequences, case numbers and deposited accession numbers used for phylogenetic analysis. HEV genotype as described in HEVNet genotyping tool: <https://www.rivm.nl/mpf/typingtool/hev/>. Case Number nomenclature: e.g., DOxxCAYMM; (donor/number/canton/year/month)

Number	Case Number	Accession Number	HEV subgenotype / clade	Name, Smith DB
1	D013BE1810	OV844702	3c / clade 3abchijklm	3c
2	D014BE1810	OV844703	3h3 / clade 3abchijklm	3h
3	D015D1810	OV844704	3c / clade 3abchijklm	3c
4	D016BS1810	OV844705	3_uc3 / clade 3abchijklm	3 unclassified
5	D017BE1811	OV844706	3c / clade 3abchijklm	3c
6	D018TG1810	OV844781	3h3 / clade 3abchijklm	3h
7	D019BE1811	OV844707	3e / clade 3efg	3e
8	D021BE1811	OV844708	3c / clade 3abchijklm	3c
9	D022SG1811	OV844709	3c / clade 3abchijklm	3c
10	D024AR1811	OV844710	3c / clade 3abchijklm	3c
11	D025D1811	OV844711	3c / clade 3abchijklm	3c
12	D026SG1811	OV844787	3h3 / clade 3abchijklm	3h
13	D027ZH1812	OV844798	3h3 / clade 3abchijklm	3h
14	D028FR1812	OV844772	3f1 / clade 3efg	3f
15	D029VS1812	OV844712	3h3 / clade 3abchijklm	3h
16	D030SG1812	OV844713	3h3 / clade 3abchijklm	3h
17	D031AG1812	OV844762	3c / clade 3abchijklm	3c
18	D032VS1812	OV844714	3c / clade 3abchijklm	3c
19	D033VS1901	OV844715	3h3 / clade 3abchijklm	3h
20	D034GE1901	OV844716	3h3 / clade 3abchijklm	3h
21	D035D1901	OV844717	3c / clade 3abchijklm	3c
22	D036OW1901	OV844774	3 / clade 3abchijklm	3
23	D037BS1901	OV844718	3h3 / clade 3abchijklm	3h
24	D038SO1901	OV844766	3f1 / clade 3efg	3f
25	D039AG1901	OV844767	3h3 / clade 3abchijklm	3h
26	D041BE1902	OV844719	3c / clade 3abchijklm	3c
27	D042ZH1902	OV844803	3h3 / clade 3abchijklm	3h
28	D043BE1902	OV844720	3c / clade 3abchijklm	3c
29	D044AG1902	OV844768	3h3 / clade 3abchijklm	3h
30	D045F1902	OV844721	3f1 / clade 3efg	3f
31	D046VS1902	OV844722	3c / clade 3abchijklm	3c
32	D047BL1902	OV844723	3h3 / clade 3abchijklm	3h
33	D048ZH1902	OV844804	3h3 / clade 3abchijklm	3h
34	D050ZH1902	OV844805	3h3 / clade 3abchijklm	3h
35	D051TG1902	OV844782	3ra	3ra
36	D052NE1902	OV844778	3h3 / clade 3abchijklm	3h
37	D053VS1904	OV844724	3 / clade 3abchijklm	3
38	D054AG1904	OV844769	3c / clade 3abchijklm	3c
39	D056FR1904	OV844725	3h3 / clade 3abchijklm	3h
40	D057AG1904	OV844770	3c / clade 3abchijklm	3c
41	D058BL1904	OV844726	3c / clade 3abchijklm	3c
42	D060SG1905	OV844727	3c / clade 3abchijklm	3c
43	D061AG1905	OV844771	3h3 / clade 3abchijklm	3h

44	D063ZH1905	OV844806	3c / clade 3abchijklm	3c
45	D065BE1905	OV844728	3c / clade 3abchijklm	3c
46	D066BL1905	OV844729	3h3 / clade 3abchijklm	3h
47	D067F1906	OV844730	3c / clade 3abchijklm	3c
48	D068BE1906	OV844731	3c / clade 3abchijklm	3c
49	D069BS1906	OV844732	3l clade 3abchijklm	3l
50	D070VD1906	OV844733	3h3 / clade 3abchijklm	3h
51	D072VD1906	OV844734	3h3 / clade 3abchijklm	3h
52	D073BE1907	OV844735	3c / clade 3abchijklm	3c
53	D077BE1907	OV844736	3c / clade 3abchijklm	3c
54	D079GE1907	OV844737	3c / clade 3abchijklm	3c
55	D080ZH1907	OV844783	3h3 / clade 3abchijklm	3h
56	D081VD1908	OV844738	3c / clade 3abchijklm	3c
57	D082VD1908	OV844739	3ra	3ra
58	D083VS1908	OV844740	3f1 / clade 3efg	3f
59	D084TG1908	OV844807	3c / clade 3abchijklm	3c
60	D085AG1908	OV844763	3h3 / clade 3abchijklm	3h
61	D087NE1909	OV844779	3h3 / clade 3abchijklm	3h
62	D086ZH1909	OV844788	3c / clade 3abchijklm	3c
63	D088ZH1909	OV844789	3c / clade 3abchijklm	3c
64	D089GE1909	OV844741	3f1 / clade 3efg	3f
65	D090LU1909	OV844775	3c / clade 3abchijklm	3c
66	D091ZH1909	OV844790	3c / clade 3abchijklm	3c
67	D092D1910	OV844791	3c / clade 3abchijklm	3c
68	D093GE1910	OV844742	3c / clade 3abchijklm	3c
69	D095SG1911	OV844792	3h3 / clade 3abchijklm	3h
70	D096ZH1911	OV844793	3f1 / clade 3efg	3f
71	D098TI1911	OV844784	3ra	3ra
72	D099F1912	OV844743	3f1 / clade 3efg	3f
73	D101VD1912	OV844744	3h3 / clade 3abchijklm	3h
74	D102SG1912	OV844745	3h3 / clade 3abchijklm	3h
75	D103SG1912	OV844746	3h3 / clade 3abchijklm	3h
76	D104SO1912	OV844764	3h3 / clade 3abchijklm	3h
77	D105LU1912	OV844747	3h3 / clade 3abchijklm	3h
78	D107ZG1912	OV844776	3f1 / clade 3efg	3f
79	D108AG1912	OV844794	3h3 / clade 3abchijklm	3h
80	D109VS2001	OV844748	3h3 / clade 3abchijklm	3h
81	D110ZG2001	OV844777	3l clade 3abchijklm	3l
82	D111TI2001	OV844785	3h3 / clade 3abchijklm	3h
83	D112GR2001	OV844773	3h3 / clade 3abchijklm	3h
84	D113BL2001	OV844749	3h3 / clade 3abchijklm	3h
85	D114BS2001	OV844750	3h3 / clade 3abchijklm	3h
86	D115AG2001	OV844765	3ra	3ra
87	D117BE2002	OV844751	3h3 / clade 3abchijklm	3h
88	D118VD2002	OV844752	3f1 / clade 3efg	3f
89	D119JU2002	OV844780	3h3 / clade 3abchijklm	3h
90	D120SZ2002	OV844795	3 / clade 3abchijklm	
91	D121ZH2002	OV844796	3h3 / clade 3abchijklm	3h

92	D122GE2002	OV844753	3c / clade 3abchijklm	3c
93	D123ZH2002	OV844797	3h3 / clade 3abchijklm	3h
94	D124BL2003	OV844754	3c / clade 3abchijklm	3c
95	D125LU2004	OV844755	3h3 / clade 3abchijklm	3h
96	D126TI2004	OV844786	3c / clade 3abchijklm	3c
97	D128GE2005	OV844756	3e / clade 3efg	3e
98	D129VD2005	OV844757	3c / clade 3abchijklm	3c
99	D130SG2004	OV844799	3h3 / clade 3abchijklm	3h
100	D131ZH2005	OV844800	3c / clade 3abchijklm	3c
101	D132SG2005	OV844758	3c / clade 3abchijklm	3c
102	D133BE2006	OV844759	3a / clade 3abchijklm	3a
103	D134LU2006	OV844801	3f1 / clade 3efg	3f
104	D135BE2006	OV844760	3ra	3ra
105	D138ZH2008	OV844802	3c / clade 3abchijklm	3c
106	D140SG2009	OV844761	3c / clade 3abchijklm	3c

**Table S2:** Comparison of the HEV RNA Assays, minipool sizes and HEV RNA prevalence stratified by testing centre.

Testing centre	HEV RNA Assay	Minipool size	Number donations	Number HEV RNA positive	HEV RNA prevalence
Aarau	Grifols Procleix	15	42,761	10	1:4,276
Lugano	Grifols Procleix	12	20,082	4	1:5,020
Berne	Roche cobas	16	287,450	74	1:3,884
La-Chaux-de-Fonds	Roche cobas	24	35,302	4	1:8,825
Zurich	Roche cobas	24	152,141	33	1:4,610

**Table S3:** The HEV RNA concentration stratified by HEV subgenotype detected.

	HEV 3c clade 3abchij	HEV 3h3 clade 3abchij	HEV 3f1 clade 3efg	HEV 3ra
Mean VL	110,596 IU/ml	71,789 IU/ml	69,883 IU/ml	968 IU/ml
Median VL	1,700 IU/ml	947 IU/ml	4,118 IU/ml	230 IU/ml
Geometric mean VL	1,692 IU/ml	1,223 IU/ml	3,095 IU/ml	334 IU/ml
Number cases	40	42	10	5

The only mean VL between the genotypes which appears significantly different appears to be the HEV 3ra. As we do not know the exact primer binding sites of the screening and confirmatory HEV RNA assays it is impossible to determine if this rabbit genotype has generally lower viral loads or if this is a technical problem of the assays.

**Figure S1:** Linear phylogenetic analysis of the HEV variants from Swiss blood donors, October 2018 - September 2020 with bootstrap values.

