

GenBank accession numbers

of reference clade I and clade II used in this study.

Isolate	Bank accession num	Clade
H77_pCV_H77C	AF011751	I
H77_pCV_H11	AF011752	I
H77_pH21	AF011753	I
pHCV_1_SF9A	AF271632	I
colonel	AF290978	I
LTD1_2	AF511948	I
LTD3_2	AF511949	I
LTD6_2	AF511950	I
AJ278830	AJ278830	II
PAT_Forn	AX100563	I
PAT_Wych	AX663428	I
TWB_1	AY615798	II
PD102	AY695436	I
PD101	AY695437	I
59B	AY956463	I
25B	AY956464	II
59E	AY956465	II
54E	AY956466	II
20E	AY956468	II
25E	AY956469	II
PAT_Hall	BD295096	I
PAT_Lian2	CS541301	I
HC_J1	D10749	I
PAT_Dubu	DD070077	I
PAT_Gard	DJ068451	I
TN168_1FL	DQ430811	I
TN168_25FL	DQ430813	I
LIV23	DQ838739	I
LIV23_4	DQ838740	I
LIV23_9	DQ838741	I
LIV23_5	DQ838742	I
LIV23_10	DQ838743	I
LIV23_12	DQ838744	I
LIV23_11	DQ838745	I
PAT_HC_J1_gRNA	E08263	I
PAT_HC_J1_cDNA	E08264	I
PAT_Robe	E66593	I
03_32_P1	EF032883	I
03_32_P2	EF032884	I
03_32_P4	EF032885	I
BR601	EF032886	I
BR554_P1	EF032887	I
BR554_P16	EF032889	I
BR554_P17	EF032890	I
BR111_P1	EF032896	I
BR111_P2	EF032897	I
BR111_P3	EF032898	I
BR111_P4	EF032899	I
BR111_P5	EF032900	I

GenBank accession numbers

5043	EF407411	I
1002	EF407412	I
5012	EF407413	II
7018	EF407414	I
3018	EF407415	II
4012	EF407416	I
4040	EF407417	II
7020	EF407418	I
5003	EF407419	II
7032	EF407420	I
8030	EF407421	I
6001	EF407422	I
8028	EF407423	I
5069	EF407424	I
6071	EF407425	I
8070	EF407426	I
6025	EF407427	II
1024	EF407428	I
7043	EF407429	I
7003	EF407430	I
3005	EF407431	II
1013	EF407432	I
7046	EF407433	I
5014	EF407435	II
7040	EF407436	II
1030	EF407437	I
7012	EF407438	I
8003	EF407439	II
7002	EF407440	I
1036	EF407441	I
8012	EF407442	I
7024	EF407443	I
6030	EF407444	I
5009	EF407445	I
8009	EF407446	I
8004	EF407447	I
6018	EF407448	I
2027	EF407449	I
6020	EF407450	I
7041	EF407451	I
2005	EF407452	I
4035	EF407453	I
6031	EF407454	I
7065	EF407455	I
4025	EF407456	I
1003	EF407457	I
HC_TN	EF621489	I
BID_V101	EU155213	II
BID_V104	EU155214	II
BID_V105	EU155215	I
BID_V115	EU155216	I

GenBank accession numbers

BID_V445	EU155233	II
BID_V450	EU155236	I
BID_V457	EU155237	I
BID_V465	EU155238	I
BID_V54	EU155239	I
BID_V68	EU155240	II
BID_V71	EU155241	I
BID_V73	EU155242	II
BID_V86	EU155243	II
BID_V90	EU155244	I
BID_V91	EU155245	I
BID_V93	EU155246	I
BID_V1	EU155247	I
BID_V336	EU155248	I
BID_V337	EU155249	I
BID_V358	EU155250	I
BID_V359	EU155251	I
BID_V362	EU155252	I
BID_V388	EU155265	II
BID_V390	EU155266	I
BID_V391	EU155267	I
BID_V396	EU155268	II
BID_V398	EU155269	II
BID_V399	EU155270	I
BID_V401	EU155271	I
BID_V404	EU155272	I
BID_V406	EU155273	I
BID_V407	EU155274	I
BID_V409	EU155275	I
BID_V432	EU155276	I
BID_V434	EU155277	II
BID_V696	EU155282	II
BID_V698	EU155283	II
BID_V318	EU155285	I
BID_V319	EU155286	I
BID_V320	EU155287	I
BID_V322	EU155288	I
BID_V323	EU155289	II
BID_V325	EU155290	I
BID_V326	EU155291	I
BID_V327	EU155292	I
BID_V328	EU155293	I
BID_V329	EU155294	II
BID_V331	EU155295	II
BID_V332	EU155296	I
BID_V333	EU155297	I
BID_V334	EU155298	I
BID_V335	EU155299	I
BID_V356	EU155309	I
BID_V357	EU155310	I
BID_V411	EU155311	I

GenBank accession numbers

BID_V412	EU155312	I
BID_V413	EU155313	I
BID_V414	EU155314	II
BID_V424	EU155319	II
BID_V425	EU155320	I
BID_V426	EU155321	I
BID_V428	EU155322	II
BID_V429	EU155323	II
BID_V169	EU155338	I
BID_V172	EU155339	I
BID_V185	EU155340	I
BID_V192	EU155341	II
BID_V197	EU155342	I
BID_V214	EU155343	I
BID_V216	EU155344	I
BID_V221	EU155345	II
BID_V236	EU155346	II
BID_V239	EU155347	II
BID_V240	EU155348	II
BID_V246	EU155349	II
BID_V256	EU155350	II
BID_V257	EU155351	II
BID_V262	EU155352	II
BID_V267	EU155353	II
BID_V269	EU155354	I
BID_V270	EU155355	II
BID_V26	EU155378	I
BID_V29	EU155379	I
BID_V35	EU155380	I
BID_V177	EU234063	I
BID_V182	EU234064	II
BID_V212	EU234065	I
BID_V316	EU239713	II
BID_V423	EU239715	I
BID_V431	EU239716	I
BID_V508	EU250017	I
BID_V222	EU255927	II
BID_V231	EU255928	II
BID_V233	EU255929	II
BID_V237	EU255930	II
BID_V108	EU255931	I
BID_V111	EU255932	I
BID_V112	EU255933	I
BID_V453	EU255934	I
BID_V462	EU255935	I
BID_V510	EU255936	I
BID_V700	EU255937	II
BID_V88	EU255938	I
BID_V408	EU255939	II
BID_V433	EU255940	I
BID_V697	EU255941	I

GenBank accession numbers

BID_V699	EU255942	I
BID_V223	EU255943	II
BID_V224	EU255944	II
BID_V225	EU255945	II
BID_V226	EU255946	II
BID_V228	EU255947	II
BID_V230	EU255948	II
BID_V235	EU255949	II
BID_V241	EU255950	II
BID_V245	EU255951	II
BID_V247	EU255952	II
BID_V248	EU255953	I
BID_V252	EU255954	II
BID_V254	EU255955	II
BID_V259	EU255956	I
BID_V260	EU255957	II
BID_V268	EU255959	II
BID_V166	EU255963	I
BID_V167	EU255964	II
BID_V168	EU255965	I
BID_V170	EU255966	II
BID_V171	EU255967	I
BID_V173	EU255968	I
BID_V174	EU255969	I
BID_V176	EU255970	II
BID_V178	EU255971	I
BID_V180	EU255973	I
BID_V181	EU255974	I
BID_V183	EU255975	I
BID_V184	EU255976	I
BID_V187	EU255977	I
BID_V188	EU255978	I
BID_V189	EU255979	I
BID_V190	EU255980	I
BID_V191	EU255981	I
BID_V194	EU255982	II
BID_V195	EU255983	I
BID_V200	EU255984	II
BID_V201	EU255985	I
BID_V203	EU255986	I
BID_V205	EU255987	II
BID_V206	EU255988	I
BID_V208	EU255989	II
BID_V209	EU255990	I
BID_V210	EU255991	I
BID_V213	EU255992	I
BID_V102	EU255993	I
BID_V103	EU255994	I
BID_V106	EU255995	II
BID_V107	EU255996	II
BID_V109	EU255997	I

GenBank accession numbers

BID_V113	EU255998	I
BID_V116	EU255999	II
BID_V41	EU256002	I
BID_V444	EU256003	I
BID_V45	EU256004	II
BID_V452	EU256006	II
BID_V464	EU256007	II
BID_V47	EU256008	I
BID_V49	EU256009	I
BID_V50	EU256010	I
BID_V51	EU256011	I
BID_V511	EU256012	I
BID_V53	EU256013	I
BID_V56	EU256014	I
BID_V57	EU256015	I
BID_V58	EU256016	I
BID_V59	EU256017	I
BID_V60	EU256018	I
BID_V61	EU256019	I
BID_V62	EU256020	I
BID_V64	EU256021	II
BID_V65	EU256022	II
BID_V67	EU256023	II
BID_V72	EU256024	I
BID_V79	EU256025	II
BID_V82	EU256026	I
BID_V83	EU256027	I
BID_V84	EU256028	I
BID_V85	EU256029	II
BID_V87	EU256030	I
BID_V89	EU256031	I
BID_V92	EU256032	I
BID_V94	EU256033	I
BID_V95	EU256034	II
BID_V96	EU256035	I
BID_V97	EU256036	I
BID_V98	EU256037	I
BID_V99	EU256038	I
BID_V16	EU256039	I
BID_V18	EU256040	I
BID_V2	EU256041	I
BID_V20	EU256042	I
BID_V3	EU256043	I
BID_V378	EU256044	I
BID_V392	EU256046	II
BID_V393	EU256047	I
BID_V394	EU256048	I
BID_V395	EU256049	II
BID_V397	EU256050	I
BID_V4	EU256051	I
BID_V403	EU256052	I

GenBank accession numbers

BID_V440	EU256053	II
BID_V7	EU256056	I
BID_V702	EU256057	I
BID_V8	EU256058	I
BID_V360	EU256060	I
BID_V402	EU256067	I
BID_V405	EU256068	I
BID_V229	EU256069	II
BID_V232	EU256070	I
BID_V234	EU256071	II
BID_V238	EU256072	II
BID_V243	EU256073	I
BID_V264	EU256074	I
BID_V110	EU256086	II
BID_V114	EU256087	I
BID_V74	EU256094	I
BID_V81	EU256095	I
BID_V321	EU256096	I
BID_V324	EU256097	I
BID_V430	EU256104	I
BID_V505	EU256105	I
BID_V32	EU256106	I
BID_V36	EU256107	II
BID_V10	EU260395	II
BID_V11	EU260396	I
1013_FU24	EU362876	I
1024_FU24	EU362877	I
1030_FU24	EU362878	I
2005_FU24	EU362879	I
2027_FU24	EU362881	I
3005_FU24	EU362882	II
4025_FU24	EU362883	I
4035_FU24	EU362884	I
5009_FU24	EU362885	I
5014_FU24	EU362886	II
6020_FU24	EU362887	I
6025_FU24	EU362888	II
7002_FU24	EU362890	I
7003_FU24	EU362891	I
7012_FU24	EU362892	I
7040_FU24	EU362893	II
7041_FU24	EU362894	I
7043_FU24	EU362895	I
7046_FU24	EU362896	I
7065_FU24	EU362897	I
8012_FU24	EU362898	I
1013q	EU362899	I
1030q	EU362900	I
2027q	EU362902	I
4025q	EU362903	I
5009q	EU362904	I

GenBank accession numbers

6025q	EU362905	II
7002q	EU362907	I
7003q	EU362908	I
7040q	EU362909	II
7041q	EU362910	I
7043q	EU362911	I
BID_V25	EU482831	II
BID_V33	EU482832	II
BID_V422	EU482834	II
BID_V427	EU482835	II
BID_V506	EU482836	I
BID_V17	EU482837	I
BID_V361	EU482838	I
BID_V386	EU482840	II
BID_V387	EU482841	I
BID_V389	EU482842	II
BID_V435	EU482843	I
BID_V436	EU482844	II
BID_V438	EU482845	I
BID_V439	EU482846	I
BID_V5	EU482847	I
BID_V9	EU482848	I
BID_V186	EU482850	I
BID_V217	EU482852	I
BID_V227	EU482853	II
BID_V242	EU482854	II
BID_V249	EU482855	II
BID_V250	EU482856	I
BID_V263	EU482857	I
BID_V271	EU482858	II
BID_V446	EU482861	I
BID_V454	EU482862	I
BID_V456	EU482863	I
BID_V459	EU482864	I
BID_V46	EU482865	I
BID_V460	EU482866	I
BID_V461	EU482867	II
BID_V69	EU482868	I
BID_V70	EU482869	II
BID_V75	EU482870	I
BID_V77	EU482871	II
BID_V261	EU482872	II
BID_V28	EU482873	I
BID_V330	EU482876	I
BID_V19	EU482878	I
BID_V410	EU482882	I
BID_V38	EU482884	I
BID_V66	EU482887	I
BID_V179	EU482889	I
BID_V39	EU529676	I
BID_V52	EU529677	I

GenBank accession numbers

BID_V63	EU529678	II
BID_V76	EU529679	I
BID_V80	EU529680	I
BID_V251	EU529681	II
BID_V215	EU569722	I
BID_V13	EU569723	I
BID_V507	EU595697	II
BID_V44	EU595698	I
BID_V78	EU595699	II
BID_V100	EU660383	II
BID_V55	EU660384	II
BID_V258	EU660385	II
BID_V701	EU660387	II
4701_7	EU677247	II
4701_18	EU677248	II
4701_20	EU677249	II
5309_3	EU677250	II
5309_6	EU677251	II
5309_11	EU677252	II
4681_6	EU677253	I
4681_7	EU677254	I
4681_11	EU677255	I
5159_2	EU677256	I
5159_4	EU677257	I
5159_6	EU677258	I
BID_V1562	EU687193	I
BID_V1563	EU687194	I
BID_V1564	EU687195	II
M62321	M62321	I
M67463	M67463	I
H77	NC_004102	I