

Table S1
Peptide numbering of Vaccine- and Challenge-sequence relative to HCV reference strain H77

H77	p#	NS3 _{vaccine} -sequence	NS3 _{challenge} -sequence	H77	p#	NS3 _{vaccine} -sequence	NS3 _{challenge} -sequence
1026	1	MAPITAYSQQT ^R GLL	MAPITAYSQQT ^R GLL	1338	79	TAGARLVVLATATPP	TAGARLVVLATATPP
1030	2	TAYSQQT ^R GLLGCII	TAYSQQT ^R GLLGCII	1342	80	RLVVLATATPPGSIT	RLVVLATATPPGSIT
1034	3	QQT ^R GLLGCII ^T SLT	QQT ^R GLLGCII ^T SLT	1346	81	LATATPPGSITVPH	LATATPPGSITVPH
1038	4	GLLGCII ^T SLTGRK	GLLGCII ^T SLTGRK	1350	82	TPPGSITVPHNIEE	TPPGSITVPHNIEE
1042	5	CIITSLTGRDKNQVD	CIITSLTGRDKNQVD	1354	83	SITVPHNIEEVALS	SITVPHNIEE ^E IALS
1046	6	SLTGRDKNQVDGEVQ	SLTGRDKNQVDGEVQ	1358	84	PHNIEEVALSNTGE	PHNIEE ^E IALSNTGE
1050	7	RDKNQVDGEVQVLST	RDKNQVDGEVQVLST	1362	85	IEEVALSNTGEIPFY	IEE ^E IALSNTGEIPFY
1054	8	QVDGEVQVLSTATQS	QVDGEVQVLSTAT ^H S	1366	86	ALSNTGEIPFYGKAI	ALSNTGEIPFYGKAI
1058	9	EVQVLSTATQSFLAT	EVQVLSTAT ^H SFLAT	1370	87	TGEIPFYGKAIPIEA	TGEIPFYGKAIPIEA
1062	10	LSTATQSFLATCVNG	LSTAT ^H SFLATCVNG	1374	88	PFYGKAIPIEAIGKG	PFYGKAIPIEAIGKG
1066	11	TQSFLATCVNGVCWT	^H SFLATCVNGVCWT	1378	89	KAIPIEAIGGRHLI	KAIPIEAIGGRHLI
1070	12	LATCVNGVCWTVYHG	LATCVNGVCWTVYHG	1382	90	IEAIGGRHLIFCHS	IEAIGGRHLIFCHS
1074	13	VNGVCWTVYHGAGSK	VNGVCWTVYHGAGSK	1386	91	KGGRHLIFCHSKKCK	KGGRHLIFCHSKKCK
1078	14	CWTVYHGAGSKTLAG	CWTVYHGAGSKTLAG	1390	92	HLIFCHSKKCKDELA	HLIFCHSKKCKDELA
1082	15	YHGAGSKTLAGPKGP	YHGAGSKTLAGPKGP	1394	93	CHSKKCKDELAAKLT	CHSKKCKDELAAKLT
1086	16	GSKTLAGPKGPITQM	GSKTLAGPKGPITQM	1398	94	KKCDELAAKLTGLGL	KKCDELAAKLTGLGL
1090	17	LAGPKGPITQMYTNV	LAGPKGPITQMYTNV	1402	95	ELAAKLTGLGLNAVA	ELAAKLTGLGLNAVA
1094	18	KGPITQMYTNVDQDL	KGPITQMYTNVD ^L DL	1406	96	KLTLGLGLNAVAYYRG	KLTLGLGLNAVAYYRG
1098	19	TQMYTNVDQDLVGWP	TQMYTNVD ^L DLVGWP	1410	97	LGLNAVAYYRGLDVS	LGLNAVAYYRGLDVS
1102	20	TNVDQDLVGWPAPP	TNVD ^L DLVGWPAPP	1414	98	AVAYYRGLDVS ^I PI	AVAYYRGLDVS ^I PI ^P
1106	21	QDLVGWPAPPGARSM	^L DLVGWPAPPGARSM	1418	99	YRGLDVS ^I PIPSGDV	YRGLDVS ^I PI ^P SGDV
1110	22	GWAPPGARSMTPCT	GWAPPGARSMTPCT	1422	100	DVS ^I PIPSGDVVVA	DVS ^I PI ^P SGDVVVA
1114	23	PPGARSMTPCTCGSS	PPGARSMTPCTCGSS	1426	101	IP ^T SGDVVVVATDAL	IP ^T PSGDVVVVATDAL
1118	24	RSMTPTCTGSSDLYL	RSMTPTCTGSSDLYL	1430	102	GDVVVVATDALMTGF	GDVVVVATDALMTGF
1122	25	PCTCGSSDLYLVTRH	PCTCGSSDLYLVTRH	1434	103	VVATDALMTGFTGDF	VVATDALMTGFTGDF
1126	26	GSSDLYLVTRHADVI	GSSDLYLVTRHADVI	1438	104	DALMTGFTGDFDSVI	DALMTGFTGDFDSVI
1130	27	LVLVTRHADVIPVRR	LVLVTRHADVIPVRR	1442	105	TGFTGDFDSVIDCNT	TGFTGDFDSVIDCNT
1134	28	TRHADVIPVRRRGDS	TRHADVIPVRRRGDS	1446	106	GD ^F DSVIDCNTCVTQ	GD ^F DSVIDCNTCVTQ
1138	29	DVIPVRRRGDSRGL	DVIPVRRRGDSRGL	1450	107	SVIDCNTCVTQTVDF	SVIDCNTCVTQTVDF
1142	30	VRRRGDSRGSLLSPR	VRRRGDSRGSLLSPR	1454	108	CNTCVTQTVDFSLDP	CNTCVTQTVDFSLDP
1146	31	GDSRGSLLSPRPVSY	GDSRGSLLSPRPVSY	1458	109	VTQTVDFSLDPTFTI	VTQTVDFSLDPTFTI
1150	32	GSLSPRPVSYLKGS	GSLSPRPVSYLKGS	1462	110	VDFSLDPTFTIETTT	VDFSLDPTFTIETTT
1154	33	SPRPVSYLKSSGGP	SPRPVSYLKSSGGP	1466	111	LDPTFTIETTTVPQD	LDPTFTIETTTVPQD
1158	34	VSYLKSSGGP ^L LCP	VSYLKSSGGP ^L LCP	1470	112	FTIETTTVPQDAVSR	FTIETTTVPQDAVSR
1162	35	KGSSGGP ^L LCPSGHV	KGSSGGP ^L LCPSGHV	1474	113	TTTVPQDAVSRSQRR	TTTVPQDAVSRSQRR
1166	36	GGP ^L LCPSGHVVGIF	GGP ^L LCPSGHVVGIF	1478	114	PQDAVSRSQRRGRTG	PQDAVSRSQRRGRTG
1170	37	LCPSGHVVGIFRAAV	LCPSGHVVGIFRAAV	1482	115	VSRSQRRGRTGRGRS	VSRSQRRGRTGRGRS
1174	38	GHVVGIFRAAVCTRG	GHVVGIFRAAVCTRG	1486	116	QRRGRTGRGRSGIYR	QRRGRTGRGRSGIYR
1178	39	GIFRAAVCTRGVAKA	GIFRAAVCTRGVAKA	1490	117	RTGRGRSGIYRFVTP	RTGRGRSGIYRFVTP
1182	40	AAVCTRGVAKAVDFI	AAVCTRGVAKAVDFI	1494	118	GRSGIYRFVTPGERP	GRSGIYRFVTPGERP
1186	41	TRGVAKAVDFIPVES	TRGVAKAVDFIPVES	1498	119	IYRFVTPGERPSGMF	IYRFVTPGERPSGMF
1190	42	AKAVDFIPVESMETT	AKAVDFIPVESMETT	1502	120	VTPGERPSGMFDSVS	VTPGERPSGMFDSVS
1194	43	DFIPVESMETTMRSP	DFIPVESMETTMRSP	1506	121	ERP ^S GMFDSVLCCEC	ERP ^S GMFDSVLCCEC
1198	44	VESMETTMRSPVFTD	VESMETTMRSPVFTD	1510	122	GMFDSVLCCECYDAG	GMFDSVLCCECYDAG
1202	45	ETTMRSPVFTDNSSP	ETTMRSPVFTDNSSP	1514	123	SSVLCCECYDAGCAY	SSVLCCECYDAGCAY
1206	46	RSPVFTDNSSPPAVP	RSPVFTDNSSPPAVP	1518	124	CECYDAGCAYELTP	CECYDAGCAYELTP
1210	47	FTDNSSPPAVPQTQ	FTDNSSPPAVPQTQ	1522	125	DAGCAYELTPAETT	DAGCAYELTPAETT
1214	48	SSPPAVPQTQVAHL	SSPPAVPQTQVAHL	1526	126	AWYELTPAETTVRLR	AWYELTPAETTVRLR
1218	49	AVPQTQVAHLHAPT	AVPQTQVAHLHAPT	1530	127	LTPAETTVRLRAYLN	LTPAETTVRLRAYLN
1222	50	TFQVAHLHAPTGSKG	TFQVAHLHAPTGSKG	1534	128	ETTVRLRAYLNTFGL	ETTVRLRAYLNTFGL
1226	51	AHLHAPTGSKGSTKV	AHLHAPTGSKGSTKV	1538	129	RLRAYLNTFGLPVCQ	RLRAYLNTFGLPVCQ
1230	52	APTGSKGSTKVPAAY	APTGSKGSTKVPAAY	1542	130	YLNTFGLPVCQDHLE	YLNTFGLPVCQDHLE
1234	53	SGKSTKVPAAYAAQG	SGKSTKVPAAYAAQG	1546	131	PGLPVCQDHLEFWES	PGLPVCQDHLEFWES
1238	54	TKVPAAYAAQGYKVL	TKVPAAYAAQGYKVL	1550	132	VCQDHLEFWESVFTG	VCQDHLEFWESVFTG
1242	55	AAYAAQGYKVLVLP	AAYAAQGYKVLVLP	1554	133	HLEFWESVFTGLTHI	HLEFWESVFTGLTHI
1246	56	AQGYKVLVLPNSVAA	AQGYKVLVLPNSVAA	1558	134	WESVFTGLTHIDAHF	WESVFTGLTHIDAHF
1250	57	KVLVLPNSVAATLGF	KVLVLPNSVAATLGF	1562	135	FTGLTHIDAHFLSQT	FTGLTHIDAHFLSQT
1254	58	LPNSVAATLGF ^G AYM	LPNSVAATLGF ^G AYM	1566	136	THIDAHFLSQTKQAG	THIDAHFLSQTKQAG
1258	59	VAATLGF ^G AYMSKAH	VAATLGF ^G AYMSKAH	1570	137	AHFLSQTKQAGDNFP	AHFLSQTKQAGDNFP
1262	60	LGFGAYMSKAHGIEP	LGFGAYMSKAHGIEP	1574	138	SQTKQAGDNFPYLVA	SQTKQAGDNFPYLVA
1266	61	AYMSKAHGIEPNIRT	AYMSKAHGIEPNIRT	1578	139	QAGDNFPYLVA ^Q AT	QAGDNFPYLVA ^Q AT
1270	62	KAHGIEPNIRTVGRT	KAHGIEPNIRTVGRT	1582	140	NFPYLVA ^Q ATVCAR	NFPYLVA ^Q ATVCAR
1274	63	IEPNIRTVGRTITTG	IEPNIRTVGRTITTG	1586	141	LVAYQATVCARAQAP	LVAYQATVCARAQAP
1278	64	IRTVGRTITTG ^G SPIT	IRTVGRTITTG ^G SIT	1590	142	QATVCARAQAPPSW	QATVCARAQAPPSW
1282	65	VRTITTG ^G SPITYSTY	VRTITTG ^G SITYSTY	1594	143	CARAQAPPSWDQMW	CARAQAPPSWDQMW
1286	66	TTGGPITYSTY ^G KFL	TTGG ^S ITYSTY ^G KFL	1598	144	QAPPSWDQMWKCLI	QAPPSWDQMWKCLI
1290	67	PITYSTY ^G KFLADGG	^S ITYSTY ^G KFLADGG	1602	145	PSWDQMWKCLIRLKP	PSWDQMWKCLIRLKP
1294	68	STY ^G KFLADGGCSGG	STY ^G KFLADGGCSGG	1606	146	QMWKCLIRLKP ^T LHG	QMWKCLIRLKP ^T LHG
1298	69	KFLADGGCSGGAYDI	KFLADGGCSGGAYDI	1610	147	CLIRLKP ^T LHGPTPL	CLIRLKP ^T LHGPTPL
1302	70	DGGCSGGAYDIIICD	DGGCSGGAYDIIICD	1614	148	LKP ^T LHGPTPLLYRL	LKP ^T LHGPTPLLYRL
1306	71	SGGAYDIIICDECHS	SGGAYDIIICDECHS	1618	149	LHGPTPLLYRLGAVQ	LHGPTPLLYRLGAVQ
1310	72	YDIIICDECHSDWT	YDIIICDECHSD ^T ST	1622	150	TPLLYRLGAVQNEIT	TPLLYRLGAVQNEI ^I
1314	73	ICDECHSDWTILG	ICDECHSD ^T STILG	1626	151	YRLGAVQNEITLTHP	YRLGAVQNEI ^I LTHP
1318	74	CHSDWTILGIGTV	CHSD ^T STILGIGTV	1630	152	AVQNEITLTHPITKF	AVQNEI ^I LTHPITKF
1322	75	DWTILGIGTVLDQA	^D STILGIGTVLDQA	1634	153	ETLTHPITKFV ^M AC	EI ^I LTHPITKFV ^M AC
1326	76	ILGIGTVLDQAETAG	ILGIGTVLDQAETAG	1638	154	THPITKFV ^M ACMSAD	THPITKFV ^M ACMSAD
1330	77	GTVLDQAETAGARLV	GTVLDQAETAGARLV	1642	155	TKFV ^M ACMSADLEVV	TKFV ^M ACMSADLEVV
1334	78	DQAETAGARLVVLAT	DQAETAGARLVVLAT	1646	156	MACMSADLEVV ^T	MACMSADLEVV ^T

In red are indicated the amino acids in the NS3challenge sequence that are different from the NS3vaccine sequence