

Supplementary Table 1

Primers and other molecular biology methods used in cloning HHV-6B ORFs.

ORF name <sup>1</sup>	Method	Forward primer <sup>2</sup>	Reverse primer <sup>2</sup>	Coordinates <sup>3</sup>
DR1 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggctt <b>ctctagg</b> ATGCC GCTGACGGCG	ggggaccactttgtacaagaag ctgggtc <b>ttacttac</b> TTAGTAG GGTTTAGGGTCGAACCA CAAGCTGCTGTCCGCGG GCCAGCCCTGAAGAA	
DR1 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcatgCCCGCGG ATTCTTCTCTATGGTTCG ACCCTAAACCCTACC	ggggaccactttgtacaagaag ctgggtc <b>ggtcttcatgttcttctg</b> <b>catgttc</b>	
DR3	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCTCGC GTGTTCTCGT	ggggaccactttgtacaagaag ctgggtcATGTCTCGCGTGT TCTCGT	
B1	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCAGAAG AACATGAAGACGAAG	ggggaccactttgtacaagaag ctgggtcTTATCGGGGCGG ATCGG	
B2	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCAACCG ATGACAA	ggggaccactttgtacaagaag ctgggtcTTACAGTTTCCGC TGCC	
DR6	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGACAACG CGACACACGCA	ggggaccactttgtacaagaag ctgggtcCTAATCCAGGTAC GCTCTTTGCC	
B3	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCTATCC GCCTGCGTGT	ggggaccactttgtacaagaag ctgggtcTCACGGACAGGA AGTATGTT	
B4	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcTGGTTTTTTT GTGTGTATTTATGTGT G	ggggaccactttgtacaagaag ctgggtcTAGTTTAAAGGC GAAGGTGC	
B5	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCGCTGT TCTACAATGT	ggggaccactttgtacaagaag ctgggtcCTACCTGCCGTCT ATCAACTT	
U2	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTTTTGTC GCTCTCCG	ggggaccactttgtacaagaag ctgggtcTCACGAAGTGTC AACTCC	
U3	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAAACG ACAACAGCCG	ggggaccactttgtacaagaag ctgggtcCTATCGAACTACG TCGTGCA	
U4	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAGTTA TTGGACCACGAC	ggggaccactttgtacaagaag ctgggtcTCAGATAAAGGT CACACAAGCC	
U7A Frag C	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTGCGTG CGAAAGGACAGGCTCG	ggggaccactttgtacaagaag ctgggtcAACACACAATCTC	15,800~14,159

	cloning	TGAAAGACCGCAGCAA	ACTCATCCCCATCATGTC	
U7A Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCGGAG ACTTATCAATCGTGCAT GAGCCTCAAAATCGTAC CGGTCTGCAACGATGAG TTCACCT	ggggaccactttgtacaagaag ctgggtcTCAGCTGCGGTCT TTCACGAGCTGTCTTT CGCACGCACATATGCCGA GGCTTACTG	16,865~15,890
U6	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCCAAAT CTAGCTGCTGC	ggggaccactttgtacaagaag ctgggtcTTACAACAGGCTC GTGAAAGAC	
U7A Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcCTGTACATG CGGAGGAAAGCGTGTG	ggggaccactttgtacaagaag ctgggtcTCACTCATCGTTG CAGACCGGTACGATTTTG AGGCTCATGCACGATTGA TAAGTCTCC	18,198~16,971
U9	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCTGTT AGAAAGTTATGGAAG	ggggaccactttgtacaagaag ctgggtcTCACACGCTTCC TCCG	
U10	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAAATA GTCACATACAAGACG	ggggaccactttgtacaagaag ctgggtcTCAAGACGGGGA AACTGAT	
U11	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGATTTG AAAGCGCAGTC	ggggaccactttgtacaagaag ctgggtcTCACGACGCGAT CACTGAC	
U12	cDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcctgacaagcgac gagATGGACA	ggggaccactttgtacaagaag ctgggtc <b>cagg</b> TCACCAAAT GAAGCTGAA	
U13	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggctt <b>caagacg</b> ATGG CGCACGCTAA	ggggaccactttgtacaagaag ctgggtcTTATAAGAAAGG TGATAGGGTGCAATTATT TTCCG	
U14	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGATCACA CACGCGATGG	ggggaccactttgtacaagaag ctgggtcTTATAACCTTGCG TCGTTCAT	
U15	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGATGTG TGGAAGCGTCA	ggggaccactttgtacaagaag ctgggtc <b>gtgct</b> TTATCCGGC CAATTCATTG	
U17 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggctt <b>caacgtagag</b> AT GGCAGACGAACGAATC GGC	ggggaccactttgtacaagaag ctgggtc <b>tca</b> TCTCTCTGGGC AGCAAAGCAATAACGAA CACATTTCTTGCAACTCT GCGGCAGACTTTGTGGG A	
U17 Frag B	gDNA template, Gateway	ggggacaagtttgtaaaaa agcaggcttc	ggggaccactttgtacaagaag ctgggtc	

	cloning			
U17 splice variant	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAAACG ACGGAACGATTTGCAGT TCTCGGATTGCGTCGTT ATGATCC	ggggaccactttgtacaagaag ctgggtcCTAGGAAAATCTT CTTCCGGATCATAACGA CGCAATCCGAGAACTGCA AATC	27,939~27,890; 27,707~27,691
U17A	synthetic gene, restriction cloning	NA	NA	28,901~29,022; 29,108~29,170; 29,286~29,358
U18	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAAGAAG TTAACTATGGAGTCC	ggggaccactttgtacaagaag ctgggtcTTATTTGTATCCT AAATCTTTCAC	
U19A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCATT ACCGGTGATGAA	ggggaccactttgtacaagaag ctgggtc <b>actaacaaggactcca</b> <b>tagttaacttc</b>	31,920~30,757; 30,542~30,498
U20	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGATAACT GTTTTGTGCGC	ggggaccactttgtacaagaag ctgggtcTTACAAAGGCAA CATTTCTAAC	
U21	gDNA template, restriction cloning	<b>ggcatcgaaggcctgtacattg</b> <b>cggccgctaccccgct</b> ATGA GCGCTTTGTTTATTACTG	<b>gtagttacctgtacacgggctg</b> <b>cagaccgattccttcagccagag</b> <b>tagtcttg</b>	
U22	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGTGCCT CAGGGTTGGAG	ggggaccactttgtacaagaag ctgggtcTTACGCCACATA TTAAACAAAGG	
U23	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAGGAAG TCTGAATTTAATGC	ggggaccactttgtacaagaag ctgggtcTCATCTGCAAGTC TTTGCATCC	
U24	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGATCGC CCTCGGACG	ggggaccactttgtacaagaag ctgggtcTCATTTTTTCGA CGATTCACATTG	
U24A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTTGCTTA TAAGCAAACCTCTATTC C	ggggaccactttgtacaagaag ctgggtcTCACGTTGAAATA CACGGCG	
U25	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGGTTTG TCTTCAAGCAAAGAC	ggggaccactttgtacaagaag ctgggtcCTACCCTCTTCA ATACAATTAATTCC	
U26	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCGTCGT CTGACAGATAG	ggggaccactttgtacaagaag ctgggtcTCACACACCAAAA TACATGC	
U27	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAGCGC GGTAGTCGAGA	ggggaccactttgtacaagaag ctgggtcTCAGACGACGCA TCTCTGTC	
U28	gDNA template, Gateway	ggggacaagtttgtaaaaa agcaggcttc <b>acaggttcg</b> AT GAAGAGAAAGGAGCGT	ggggaccactttgtacaagaag ctgggtc <b>ggcgccaacatttat</b>	

	cloning	CGT	<b>tacatcat</b>
U29	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAACTCT AAATCGAGTGC	ggggaccactttgtacaagaag ctgggtcCTATACGAACACT TTTTTCTCAG
U30	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttc <b>cccttgc</b> ATGAC GCATGACAACA	ggggaccactttgtacaagaag ctgggtcTGATTATGGGTTG GGTGTCTGGTGT
U31 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcCCCATGAAA ATCATTACCAGTAGCAC G	ggggaccactttgtacaagaag ctgggtc <b>ttactactta</b> CCCAG TTCTTCCAGTTGTGATTTG ATCATTTCTATATT
U31 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATAGAAATG ATCAAATCACAACCTGGA AGAACTGGG	ggggaccactttgtacaagaag ctgggtc <b>ttactactta</b> CAGC GACTTGAACCTTCCATT AGTCG
U31 Frag C	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcCGACTAATG GAGAAGTTCAAGTCGCT G	ggggaccactttgtacaagaag ctgggtc <b>gaagcatgactttgtg</b> <b>tgtcgaatg</b> TTACAGATAC
U32	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGACGACC ATACGTGGTGATG	ggggaccactttgtacaagaag ctgggtcTCAATCACTCCCT GTTTTTGTG
U33	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTTCTACT TAAAAAACTCCTACGC	ggggaccactttgtacaagaag ctgggtcTCAAATACACCTC ACGTTTTGGG
U34	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCTAAC GTA CTCAAAGAAAAGAT GTACGATGAACTAC	ggggaccactttgtacaagaag ctgggtcTTACACAACGGG GCCAGAAG
U35	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGATGGAC TCCTCACCTG	ggggaccactttgtacaagaag ctgggtcCTATTCCGTATTT AAATATTCTTGA
U36	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTACAAA GGATGGGACTCAG	ggggaccactttgtacaagaag ctgggtcTTAAACGTAGTA GTTGACGGTG
U37	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGACTGTA CACAAAAACCGT	ggggaccactttgtacaagaag ctgggtcTTAATGGAAACCT ATTAGATGTC
U38	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGATTCTG GTGTCATTTTTTAATC	ggggaccactttgtacaagaag ctgggtcTCACATTACCTCT GCAATAGC
U39 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAGCAAG ATGAGAGTATTATTCCT	ggggaccactttgtacaagaag ctgggtcTGCCAAATTCCCC AAGGCATCGT

## GGCT

U39 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcGTCAAGTCT AGACATGATATTCTTTAT GTGCAA	ggggaccactttgtacaagaag ctgggtcTGACACCGAATCC ATCACGCTTCT	
U40	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAATTCG TTACAATCTCTGT	ggggaccactttgtacaagaag ctgggtcCTATTCATCAAAA AGACAGCC	
U41	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCTGAT GAAAACGAAAC	ggggaccactttgtacaagaag ctgggtcTTATAATCGTTTT TTCTTAGTCA	
U42	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTATCCTC GTGGAGTAA	ggggaccactttgtacaagaag ctgggtcTTATTCTGAGTCA GAAGAATATGTG	
U43	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcacaATGACCA TCGTAGTGTTC	ggggaccactttgtacaagaag ctgggtcTTAGTTTTTAATT GCTCTAAGGCGATGGA	
U44	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCCCTTA GGGTATTGGGGTG	ggggaccactttgtacaagaag ctgggtcCTAGACGCCAGTT CCTTTTTCTTG	
U44 splice variant	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCCCTTA GGGTATTGGGGTGTAT GG	ggggaccactttgtacaagaag ctgggtcCTAGGTATTCCGC AAAATGGAACAGTGTCG AAGACCTTCAGACTCGAC GTGTATCGATTAAACCTT TTCA	74,501~75,126; 76,011~76,068; 76,280~76,285
U45	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTACAGC GTAATTCAGAA	ggggaccactttgtacaagaag ctgggtcTCAAGCGTACTG AAGGC	
U46	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAGTTGT AAGAAAGCGCA	ggggaccactttgtacaagaag ctgggtcCTAATAGCCCTC ACCGTCTC	
U47 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttc <b>gtggctcaactca cccgac</b> AT	ggggaccactttgtacaagaag ctgggtc <b>tta</b> GCTCTCAAAC GTTTCGGGA	
U47 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttc <b>tttctcgaccg</b> ATGTACACCCGA	ggggaccactttgtacaagaag ctgggtc <b>cagagacgggtaag ggcta</b>	
U47A	gDNA template, Gateway cloning	<b>ggcatcgaaggctacattgcg gccg</b> ATGCATTTGGAGG TCATCGTCCAACCCGAC GAATCCTTGCAGATGGC AATCAGTAAA	<b>gttagttaccggatcccggctg cagGTA</b> CTTCAGTTTTGG <b>CAGTTACATTTGACGGTA G</b>	79,099~79,072; 78,520~76,783
U48	gDNA template, Gateway	ggggacaagtttgtaaaaa agcaggcttcATGCTCTTCC	ggggaccactttgtacaagaag ctgggtcTCAACACAATCTG	

	cloning	GACTCTGGG	ATGAGTCTAT
U49	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCTTTGA CAGGTTTGCCTG	ggggaccactttgtacaagaag ctgggtcTCACTGTCTTTT GCATCTTCT
U50	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCGCAG TGCAATCTCTT	ggggaccactttgtacaagaag ctgggtcTTATATAATGGCC GGTATTGGCA
U51	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAGAAA GAAACAAAGTCA	ggggaccactttgtacaagaag ctgggtcTCATTTAACATT TTTATTCCA
U52	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGACCCAG ATAGGACAGTACA	ggggaccactttgtacaagaag ctgggtcTTATTCATAAGAG AATAGATCTTCGG
U53	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCTAAA GTTTGGGTAGGTG	ggggaccactttgtacaagaag ctgggtcTTAGCTATCCATT TTATTTAACGCG
U54	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCAACCC GCCACTCTACA	ggggaccactttgtacaagaag ctgggtcTTACGGGGAAGA TCTATGGGAG
U55	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCTTTTAA AAAACACACTGGCC	ggggaccactttgtacaagaag ctgggtcTCATATGCGCATT TTTATAATAGAG
U56	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAAACC GTCTACTGC	ggggaccactttgtacaagaag ctgggtcTTAATTTTTATAA ATACATGTAGCC
U57 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCAGCT TTCGCTCACTAC	ggggaccactttgtacaagaag ctgggtcTTATATGGAAGAT TCGATAATAAG
U57 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAAAAT TGCCAGGCGAC	ggggaccactttgtacaagaag ctgggtc <b>ttactactta</b> TAGC GACACAAGATTTCTGTAG TGAG
U58	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCAGCAC ACCGTAATTGTG	ggggaccactttgtacaagaag ctgggtcTCATGTTTTCATA TTAGTCGTCAGAGTC
U59	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAATGTA CCCATGGCCGAC	ggggaccactttgtacaagaag ctgggtcCTAATCACCTTC AGACACGCTA
U62	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAATCG GCGTAAACGAG	ggggaccactttgtacaagaag ctgggtcTTATGTGTCAATA TTCTGCCCC
U63	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAGATG GCGTTGCCG	ggggaccactttgtacaagaag ctgggtcTCATAGTATAAGT GCGTTCCATACTCC

U64	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAAACG CACTTATACTATG	ggggaccactttgtacaagaag ctgggtcCTAAGATAACCCA AATCGCC
U65	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCGATA TCGACTTTTTCAAT	ggggaccactttgtacaagaag ctgggtcTTAGTCCATTACC ACACGCTTAC
U66 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttc <b>gtaaggtcgggc</b> <b>tcc</b> ATGCTACGT	ggggaccactttgtacaagaag ctgggtc <b>gtagttagttag</b> TGT GTATTGTAGCAGCTGGC GAAAAGTGCT
U66 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttc <b>catg</b> AGTATAC GCGGACAAAGCTTCAAT CTACTTATTGTGACG	ggggaccactttgtacaagaag ctgggtcTTAGCGTGTCTGA AGGGTGATTAGATCTCTC GGA
U67	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTGGGTT ATGTCGCAGGTAC	ggggaccactttgtacaagaag ctgggtcTTATATATCGAAT CTGACGCTACCTTC
U68	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCTTTGA AGGACTATCTGAGAC	ggggaccactttgtacaagaag ctgggtcTTATTCTAATTCA GTGCTTGCC
U69	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGACAAC GGTGTGGAGAC	ggggaccactttgtacaagaag ctgggtcTCACATCTGAAAG AGAGATGATG
U70	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGATCTT AATCAGATATCTGAAAC	ggggaccactttgtacaagaag ctgggtcTCAGGGTGTITTC GGTT
U71	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGGCACA AAGTGCTGTAACC	ggggaccactttgtacaagaag ctgggtcTCATTTTTTGTATT TAAGCGGCAG
U72	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCCTCC AGTCGTGTAGA	ggggaccactttgtacaagaag ctgggtcTCATTCGTTTTCA TCCATTAGG
U73	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAGAAC AGGTTTCAGAACG	ggggaccactttgtacaagaag ctgggtcCTAAGATGACAC GCACACCC
U74	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCATCTCC GGGGGTGTG	ggggaccactttgtacaagaag ctgggtcTTAATTCAAATGT AGCAAATGAATGTGTT
U75	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAAATCC TTGAAAAAATTAAG	ggggaccactttgtacaagaag ctgggtcTTAGCTAGACGT GTCTTCATTCT
U76	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCACAGA GCATCAGCAA	ggggaccactttgtacaagaag ctgggtcTCAATCTTGATCA CCTTAGGA
U77	gDNA template, Gateway	ggggacaagtttgtaaaaa agcaggcttc <b>ggataaatc</b> AT	ggggaccactttgtacaagaag ctgggtc <b>cattcgaccgatgga</b>

	cloning	GTCTATCTCTTCGTTG	<b>atttcaac</b>	
B6	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTGGTAT GAGCTGACATCTGC	ggggaccactttgtacaagaag ctgggtcTCATCTTATTCTTA CCCCGATACC	
B7	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCTTCATA ATGTATCAAAGTG	ggggaccactttgtacaagaag ctgggtcTCATCCAAACCGA AAACCT	
U79	cDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcaagATGTATG CTGAAGAACGTGGATAT GG	ggggaccactttgtacaagaag ctgggtc <b>ccaatcaattggaaca</b> <b>ttctgaacgaatagaacc</b>	
U79 splice variant 1	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcTCTACGACA TTCGTGAATGGAGCGGT TGAGGGGGACGAACC	ggggaccactttgtacaagaag ctgggtcTCATTGGATAGAC CTTCTCGGTTCGTCCCCCT CAACCGCTCCATTACGA	122,302~122,412; 122,495~123,106
U79 splice variant 2	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcCAACAACAT GATGAATTAGACAAGC GCGTTTATGCGCAGGTC GGTACCTGTGTGTGA	ggggaccactttgtacaagaag ctgggtcTCACACACAGGT ACCGACCTGCGCATAAAC GCGC	122,374~122,409; 122,764~122,784
U81	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGCCCTA CTACAGTGGAT	ggggaccactttgtacaagaag ctgggtcCTATTCGTTCAGA ATGTTCCA	
U82	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGGAACCTT TACTATTTGTAATGT	ggggaccactttgtacaagaag ctgggtcTTATGTGTTTCTA ATCAGAATCG	
U83A	synthetic gene, restriction cloning	NA	NA	125,178~125,064; 124,986~124,850
U84	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAAAGAC AGAGGTAATAAAAAAC	ggggaccactttgtacaagaag ctgggtc	
U85	gDNA template, restriction cloning	ggcatcgaaggctacattgcgg ccgcATGAGTCCCTTGAT GCTTCGATTATTGCCGC TTC	gtagttaccggatcccgggctg cagTTACCTCTGTCTTTCA TCTCTTCTGAACTTAAGC CA	
U86 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAATAGC ACTTCTAACGGTGATGA ATGT	ggggaccactttgtacaagaag ctgggtc <b>gtaggag</b> TAAACA TTTTGAAAGTGTAAGATA TTTCG	
U86 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAAATTA TCCGGACTATACCATGA TGCGG	ggggaccactttgtacaagaag ctgggtcTTAGTTAGTTAGT CAGTACATTCATCACCGT TAGAAGTGCTATTCAT	
U90 Frag A	synthetic gene, restriction	NA	NA	



	cloning			
U90 Frag B	synthetic gene, restriction cloning	NA	NA	
U90 Frag C	synthetic gene, restriction cloning	NA	NA	
U91	cDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggctt <b>ctctgaactg</b> <b>atc</b> ATGATGGGATATGA GGA	ggggaccactttgtacaagaag ctgggtcTTACACATTCATT TCAGTTTTCGGTATAATA GCCTC	
B8	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGATATAT AAAAAAGTGCATGATG	ggggaccactttgtacaagaag ctgggtcCTAACCTTTAAGT TTATGGGGAA	
U94	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTTTTCCA TAATAAATCCAAG	ggggaccactttgtacaagaag ctgggtcTTATAAAATTTTT GGAACCGTG	
U95 Frag A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCTTCAA ATCTGGAAGATTTG	ggggaccactttgtacaagaag ctgggtcTTACTTACTTATTC TCCCATAGACAGAAGGG C	
U95 Frag B	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGTCCAAA TTGGCAGCCCTTCT	ggggaccactttgtacaagaag ctgggtcTTATTTACCTTCCT GAGAGAAAGTCTTTC	
U100A	cDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGAGACCG CCGAGACGTTCT	ggggaccactttgtacaagaag ctgggtcTTAATAATGTCCG TTGCCATAAGGTG	152,325~151,940; 151,807~151,526; 151,121~150,786; 150,664~150,587; 150,476~150,369; 150,272~150,159; 150,008~149,762
U100B	synthetic gene, restriction cloning	NA	NA	149,504~149,332; 149,169~149,041; 148,911~148,665
U100B splice variant	synthetic gene, restriction cloning	NA	NA	149,504~149,332; 149,151~149,041; 148,911~148,665
B9A	gDNA template, Gateway cloning	ggggacaagtttgtaaaaa agcaggcttcATGCAGAGA AGCAGCGCCTGTA	ggggaccactttgtacaagaag ctgggtc <b>ggtcagata</b> TTAAG TCTTGATCACGCGCG	

1. Except for U24A, named as such in Genbank sequence NC\_000898.1, a capital A or B suffix indicates that the expression construct used had an altered sequence compared to strain Z29 reference annotation in Genbank sequence NC\_000898.1. Differences included N-terminal truncation, internal frame shift, or C-terminal extension, as detailed in Materials and Methods.

2. Lower case indicates Gateway cloning adaptor sequences. Upper case indicates regions complementary to the ORF coding region. (Note that some primers anneal lateral to the ORF and therefore have no upper case positions). Bold font indicates nucleotide positions inserted for primer optimization or restriction enzyme recognition. NA = not applicable; primers not required as PCR was not used.
3. Coordinates are noted only if different from HHV-6B reference genome (Genbank sequence NC\_000898.1). For ORFs with multiple exons, these are noted sequentially. U90 fragments were ordered by gene synthesis. Fragment A contains amino acid positions 1-371; fragment B, 359-725; fragment C, 714-1078.