

vp7\_btv10 α1 α2 α3  
 vp7\_btv1s α1 α2 α3

vp7_btv10	1	MDTIAARALTVMRACATLQEARIVLEANVMEILGIAINRYNGLTLRGLVTMRPPTSLAQRNE
vp7_btv1s	1	MDTIAARALTVMRACATLQEARIVLEANVMEILGIAINRYNGLTLRGLVTMRPPTSLAQRNE
vp7_btv17	1	MDTIAARALTVMRACATLQEARIVLEANVMEILGIAINRYNGLTLRGLVTMRPPTSLAQRNE
vp7_btv13	1	MDTIAARALTVMRACATLQEARIVLEANVMEILGIAINRYNGLTLRGLVTMRPPTSLAQRNE
vp7_btv2a	1	MDTIAARALTVMRACATLQEARIVLEANVMEILGIAINRYNGLTLRGLVTMRPPTSLAQRNE
vp7_btv1a	1	MDTIAARALTVMRACATLQEARIVLEANVMEILGIAINRYNGLTLRGLVTMRPPTSLAQRNE
vp7_ahsv4	1	MDTIAARALTVKACNTLKVERIVVESNVLEILGIAVNRYNGLTLRGLVTMRPPTSLAQRNE
vp7_ahsv4	1	MDAIAARALSVVRACVTVTDARVSLDPGVMTLGLIAINRYNGLTNHSSVSMRPQTQAERNE
vp7_brd	1	MDAYTARALSVEGLAISGDRVSRHRDPTTEATMSIFAMRFNSTTSRPPVMGRPQVRGKRGV

vp7\_btv10 α3 α4 TT α5  
 vp7\_btv1s α3 α4 TT α5

vp7_btv10	61	MFFMCLDMMLSAAGINVGPISPDYTOHMAITIGVLATPEIPFTEAANEIARVTGETSTWG
vp7_btv1s	61	MFFMCLDMMLSAAGINVGPISPDYTOHMAITIGVLATPEIPFTEAANEIARVTGETSTWG
vp7_btv17	61	MFFMCLDMMLSAAGINVGPISPDYTOHMAITIGVLATPEIPFTEAANEIARVTGETSTWG
vp7_btv13	61	MFFMCLDMMLSAAGINVGPISPDYTOHMAITIGVLATPEIPFTEAANEIARVTGETSTWG
vp7_btv2a	61	MFFMCLDMMLSAAGINVGPISPDYTOHMAITIGVLATPEIPFTEAANEIARVTGETSTWG
vp7_btv1a	61	MFFMCLDMMLSAAGINVGPISPDYTOHMAITIGVLATPEIPFTEAANEIARVTGETSTWG
vp7_ahsv4	61	MFFMCLDMMLAANLNNGNISPDYTONLAIIGVLATPEIPYTMESANEIARMSGETSTWG
vp7_ahsv4	61	MFFMCLDMVLAALNVQIGNISPDYDQALATVVALATPEIPYNVQAMNDIVRITGQMOTFG
vp7_brd	60	ITSTBCRCGIRDLFHHVAFVMPGYIQNPQTLAILARDEIPYTPSTFRRVQRYVVSARMLIQ

vp7\_btv10 βA βB TT βC βD TT βE α6  
 vp7\_btv1s βA βB TT βC βD TT βE α6

vp7_btv10	121	PARQPYGFFLEETEFTFQPGGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQTIFQ.GR
vp7_btv1s	121	PARQPYGFFLEETEFTFQPGGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQTIFQ.GR
vp7_btv17	121	PARQPYGFFLEETEFTFQPGGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQTIFQ.GR
vp7_btv13	121	PARQPYGFFLEETEFTFQPGGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQTIFQ.GR
vp7_btv2a	121	PARQPYGFFLEETEFTFQPGGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQTIFQ.GR
vp7_btv1a	121	PARQPYGFFLEETEFTFQPGGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQTIFQ.GR
vp7_ahsv4	121	PDRQPPGYFLAAPVETVQHGRFR.QRVGQNVVTSIVSSTLAQVSMNAGARGDIQALFQ.NO
vp7_ahsv4	121	PSKVQTPPYAGAVVEVQSGRYY.VPQGRTRGGYIN.SNIAEVCM DAGAAGQVNALAPR
vp7_brd	120	MCEERNMMLTPHYEAVTSPGVVLPAPAGGGPRCYAISAATLLOIHTDPMONEVLETLIFPDD

vp7\_btv10 βF TT βG TT βH TT βI TT βJ βK  
 vp7\_btv1s βF TT βG TT βH TT βI TT βJ βK

vp7_btv10	179	NDPMMIYLVWRRRIENFAMAQGNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv1s	179	NDPMMIYLVWRRRIENFAMAQGNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv17	179	NDPMMIYLVWRRRIENFAMAQGNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv13	179	NDPMMIYLVWRRRIENFAMAQGNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv2a	179	NDPMMIYLVWRRRIENFAMAQGNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv1a	179	NDPMMIYLVWRRRIENFAMAQGNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_ahsv4	179	NDPMMIYLVWRRRIENFAMAQGNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_ahsv4	179	CDAVMIYFVWRPRLRIFCDPQASLESAPGAPGTFVTVVGVNVAAGDVVAWNTIAPVNVGN
vp7_brd	180	EDVIMAEFIIWQRLANGIDNNAVMNMG..TNVELLRDNAAVEGGTFPMATPRGIIHVVLASY

vp7\_btv10 βL TT α6 α7  
 vp7\_btv1s βL TT α6 α7

vp7_btv10	236	PTQQNAMVQIQVVEYISMDKTLNQYPALTAEIFNVYSFRDHTWHGLRTAILNRTTLPNML
vp7_btv1s	236	PTQQNAMVQIQVVEYISMDKTLNQYPALTAEIFNVYSFRDHTWHGLRTAILNRTTLPNML
vp7_btv17	236	PTQQNAMVQIQVVEYISMDKTLNQYPALTAEIFNVYSFRDHTWHGLRTAILNRTTLPNML
vp7_btv13	236	PTQQNAMVQIQVVEYISMDKTLNQYPALTAEIFNVYSFRDHTWHGLRTAILNRTTLPNML
vp7_btv2a	236	PTQQNAMVQIQVVEYISMDKTLNQYPALTAEIFNVYSFRDHTWHGLRTAILNRTTLPNML
vp7_btv1a	236	PTQQNAMVQIQVVEYISMDKTLNQYPALTAEIFNVYSFRDHTWHGLRTAILNRTTLPNML
vp7_ahsv4	236	PGLGQGMIEIEVIYVLSLDKTMTPYPSLOAHIFNVYSYKNPLWHGLRAAILNRTTLPNMI
vp7_ahsv4	239	PGARRSILQFEVLWYVTSLDRSLDTPVPELAPLTRCYAVVSPWHALRAVIFQMMNQPIN
vp7_brd	238	EPVNLCTIHLCTRYVWTGPPRVVYDSMEADILAVYTYRDFGWDALRSYVQLGMPAHH

vp7\_btv10 α8 TT α9  
 vp7\_btv1s α8 TT α9

vp7_btv10	296	PPIFPNDR.DSILTLLLSLTDADVTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv1s	296	PPIFPNDR.DSILTLLLSLTDADVTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv17	296	PPIFPNDR.DSILTLLPLSLTDADVTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv13	296	PPIFPNDR.DSVLTLLLSLTDADVTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv2a	296	PPIFPNDR.DSILTLLLSLTDADVTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv1a	296	PPIFPNDR.DSILTLLLSLTDADVTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_ahsv4	296	PPIYPHDR.ENVLLIILSLTADAFSVLAPDFNLFVGVPIQGGINRAVAQNAAYV.....
vp7_ahsv4	299	PPIFPPTERN.EIVAYLLLVASTADVYAALRPDFRMNGVVAIVGQINRALVLAAYH.....
vp7_brd	298	YPTRPVTEF.RQNLAIALSLTDFDVYSQWRLRSTLQLRPKVVLWVLAHRLQAALRAFRLGR