

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	MDTIAARALTVKACNTLKVERIVVESNVLELGIAVNRYNGLTLRGLVTMRPPTSLAQRNE
vp7_ahsv4	1	MDAIAARALSVVRACVTVTDARVSLDPGVMTLGIAINRYNGLTNHLSVSMRPQTQAERNE
vp7_brd	1	MDAYTARALSVEGLAISGDRPDRSRDPTTEATMSIFAMRFNSTTSRPPVMGRPQVRGKRGV

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	MFFMCLDMMLAAANLVGNISPDYTONLATIGVLATPEIPYTMESANEIARMSGETGTWG
vp7_ahsv4	61	MFFMCLDMVLAALNVQIGNISPDYDQALATVVALATPEIPYNVQAMNDIVRITGQMOTFG
vp7_brd	60	ITSTBQRCCIRDLFHHVAFVMPGYIQNPQTLAILARDEIPYTPSTFRRVQRYVVSARMLIQ

vp7_btv10 βA βB TT βC βD βE
 vp7_btv1s βA βB TT βC βD βE

vp7_btv10	121	PARQPYGFFLEETEFTFQPPGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQIFQ.GR
vp7_btv1s	121	PARQPYGFFLEETEFTFQPPGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQIFQ.GR
vp7_btv17	121	PARQPYGFFLEETEFTFQPPGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQIFQ.GR
vp7_btv13	121	PARQPYGFFLEETEFTFQPPGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQIFQ.GR
vp7_btv2a	121	PARQPYGFFLEETEFTFQPPGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQIFQ.GR
vp7_btv1a	121	PARQPYGFFLEETEFTFQPPGRWF.MRAAQAVTAVVCGPDMIQVSLNAGARGDVQQIFQ.GR
vp7_ahsv4	121	PDRQPPGYFLAAPVETVQHGRFR.QRVGQNVVTSIVSSTLAQVSMNAGARGDIQALFQ.NO
vp7_ahsv4	121	PSKVQTPGYAGAVEVQSSGRYY.VPQGRTRGGYIN.SNIAEVCMADAGAAGQVNALAPR
vp7_brd	120	MCEERNMMLTPHYEAVTSPGVVLPAPAGGGPRCYAISAATLLOIHTDPMONEVLETLIFPDDQ

vp7_btv10 βF βG βH βI βJ βK
 vp7_btv1s βF βG βH βI βJ βK

vp7_btv10	179	NDPMMIYLVWRRRIENFAMAQNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv1s	179	NDPMMIYLVWRRRIENFAMAQNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv17	179	NDPMMIYLVWRRRIENFAMAQNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv13	179	NDPMMIYLVWRRRIENFAMAQNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv2a	179	NDPMMIYLVWRRRIENFAMAQNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_btv1a	179	NDPMMIYLVWRRRIENFAMAQNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_ahsv4	179	NDPMMIYLVWRRRIENFAMAQNSQQ...TQAGVTVSVGGVDMRAGRRIIAWDGOAALHVHN
vp7_ahsv4	179	GAVMYIFVWRPRLRIFCDPQASLESAPGAPGTFVTVVGVNVAAGDVVAWNTIAPVNVGN
vp7_brd	180	EDVIMAEFIIWQRLANGIDNNAVMNMG..TNVELLRDNAAVEGGTFPMATPRGIIHVVLASY

vp7_btv10 βL α6 α7
 vp7_btv1s βL 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	PGARRSILQFEVLWYVSLDRSLDTPVPELAPLTRCYAVVSPWHALRAVIFQMMNQPIN
vp7_brd	238	EPVNLCTIHLTCTRYVWTGPPRVVYDSMEADILAVYTYRDFGWDALRSYVQLGMPAHH

vp7_btv10 α8 TT α9
 vp7_btv1s α8 TT α9

vp7_btv10	296	PPIFPNDR.DSILTLNLLSADVYTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv1s	296	PPIFPNDR.DSILTLNLLSADVYTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv17	296	PPIFPNDR.DSILTLNLLSADVYTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv13	296	PPIFPNDR.DSILTLNLLSADVYTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv2a	296	PPIFPNDR.DSILTLNLLSADVYTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_btv1a	296	PPIFPNDR.DSILTLNLLSADVYTVLRPEFAIHGVNPMPPGLTRAIARAAYV.....
vp7_ahsv4	296	PPIYPHDR.ENVLLIILSADAFSVLAPDFNLFVGVPIQGGINRAVAQNAAYV.....
vp7_ahsv4	299	PPIFPPTERN.EIVAYLILLVASTADVYAALRPDFRMNGVVAIVGQINRALVLAAYH.....
vp7_brd	298	YPTRPVTEF.RQNLAIALSRTFEDVYSQWRLRSTLQLRPKVVLWVLAHRLQAALRAFRLGR