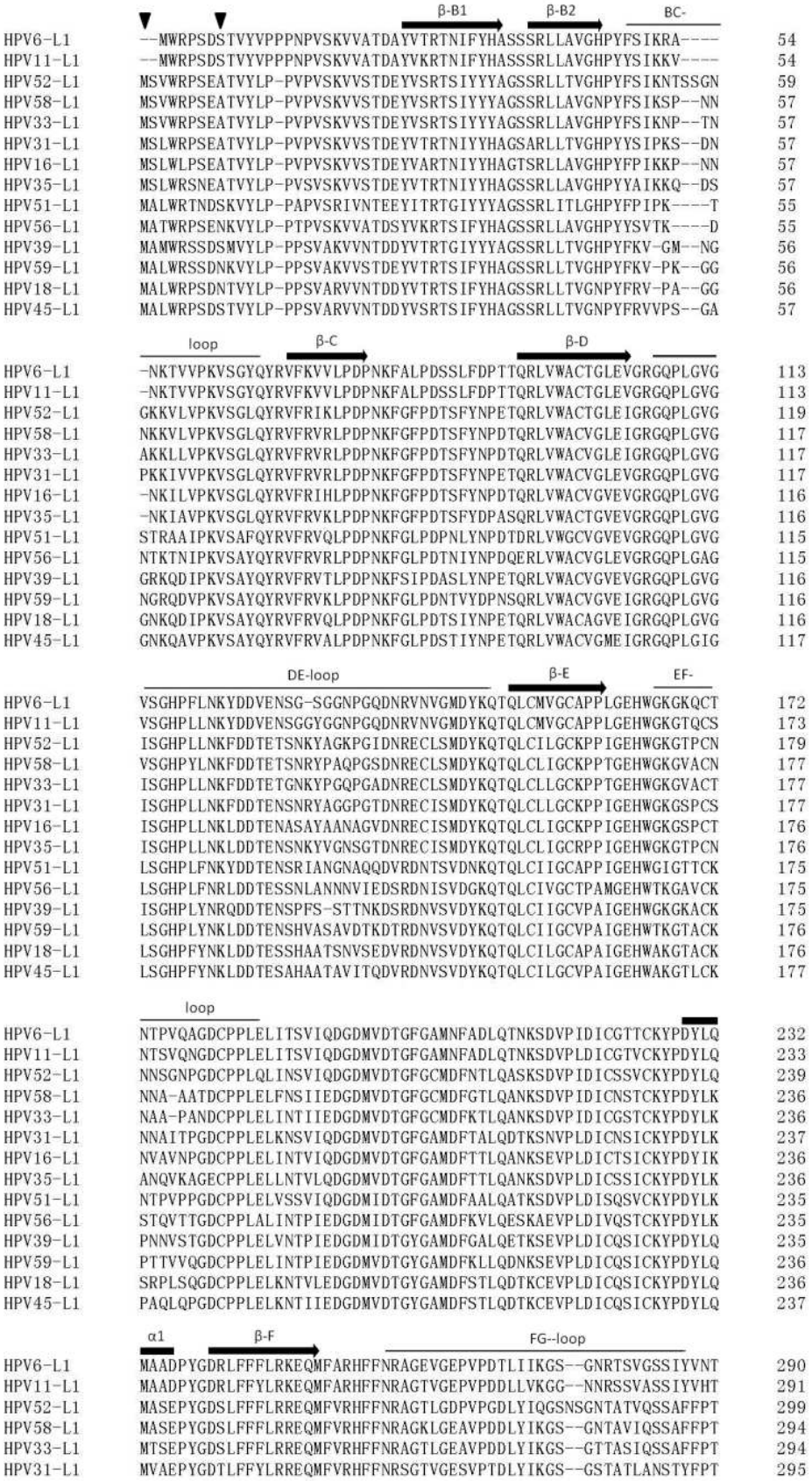
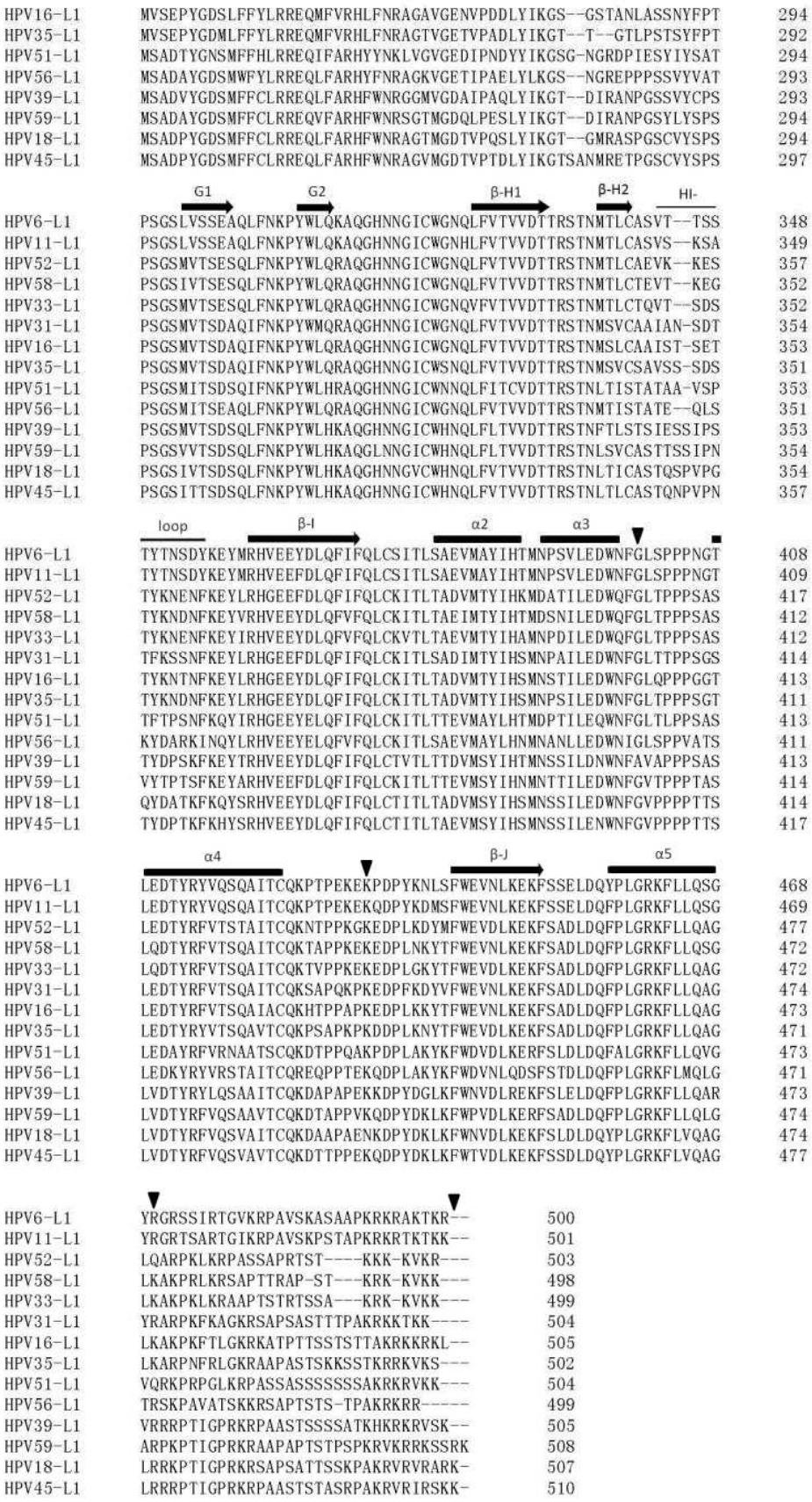

β-B1
β-B2
BC-
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HPV11-L1 --MWRPSDSTVYVPPPNPVSKVVATDAYVKRTNIFYHASSSRLLAVGHPYYSIKKV---- 54
HPV52-L1 MSVWRPSEATVYLP-PVPVSKVVSTDEYVSRTSIYYYAGSSRLLTVGHPYFSIKNTSSGN 59
HPV58-L1 MSVWRPSEATVYLP-PVPVSKVVSTDEYVSRTSIYYYAGSSRLLAVGNPYFSIKSP--NN 57
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HPV31-L1 MSLWRPSEATVYLP-PVPVSKVVSTDEYVTRTNIYYHAGSARLLTVGHPYYSIPKS--DN 57
HPV16-L1 MSLWLPSEATVYLP-PVPVSKVVSTDEYVARTNIYYHAGTSRLLAVGHPYFPIKKP--NN 57
HPV35-L1 MSLWRSNEATVYLP-PVSVSKVVSTDEYVTRTNIYYHAGSSRLLAVGHPYYAIKKQ--DS 57
HPV51-L1 MALWRTNDSKVYLP-PAPVSRIVNTEEYITRTGIYYYAGSSRLITLGHPYFPIPK----T 55
HPV56-L1 MATWRPSENKVYLP-PTPVSKVVATDSYVKRTSIFYHAGSSRLLAVGHPYYSVTK----D 55
HPV39-L1 MAMWRSSDSMVYLP-PPSVAKVVNTDDYVTRTGIYYYAGSSRLLTVGHPYFKV-GM--NG 56
HPV59-L1 MALWRSSDNKVYLP-PPSVAKVVSTDEYVTRTSIFYHAGSSRLLTVGHPYFKV-PK--GG 56
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HPV45-L1 MALWRPSDSTVYLP-PPSVARVVNTDDYVSRTSIFYHAGSSRLLTVGNPYFRVVPS--GA 57
loop
β-C
β-D
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HPV11-L1 -NKTVVPKVSGYQYRVFKVVLPDPNKFALPDSSLFDPTTQRLVWACTGLEVGRGQPLGVG 113
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HPV58-L1 NKKVLVPKVSGLQYRVFRVRLPDPNKFGFPDTSFYNPDTQRLVWACVGLEIGRGQPLGVG 117
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HPV31-L1 PKKIVVPKVSGLQYRVFRVRLPDPNKFGFPDTSFYNPETQRLVWACVGLEVGRGQPLGVG 117
HPV16-L1 -NKILVPKVSGLQYRVFRIHLPDPNKFGFPDTSFYNPDTQRLVWACVGVEVGRGQPLGVG 116
HPV35-L1 -NKIAVPKVSGLQYRVFRVKLPDPNKFGFPDTSFYDPASQRLVWACTGVEVGRGQPLGVG 116
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HPV18-L1 GNKQDIPKVSAYQYRVFRVQLPDPNKFGLPDTSIYNPETQRLVWACAGVEIGRGQPLGVG 116
HPV45-L1 GNKQAVPKVSAYQYRVFRVALPDPNKFGLPDSTIYNPETQRLVWACVGMEIGRGQPLGIG 117
DE-loop
β-E
EF-
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HPV45-L1 PAQLQPGDCPPLELKNTIIEDGDMVDTGYGAMDFSTLQDTKCEVPLDICQSICKYPDYLQ 237
α1
β-F
FG--loop
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G1
G2
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β-H2
HI-
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β-I
α2
α3
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α4
β-J
α5
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