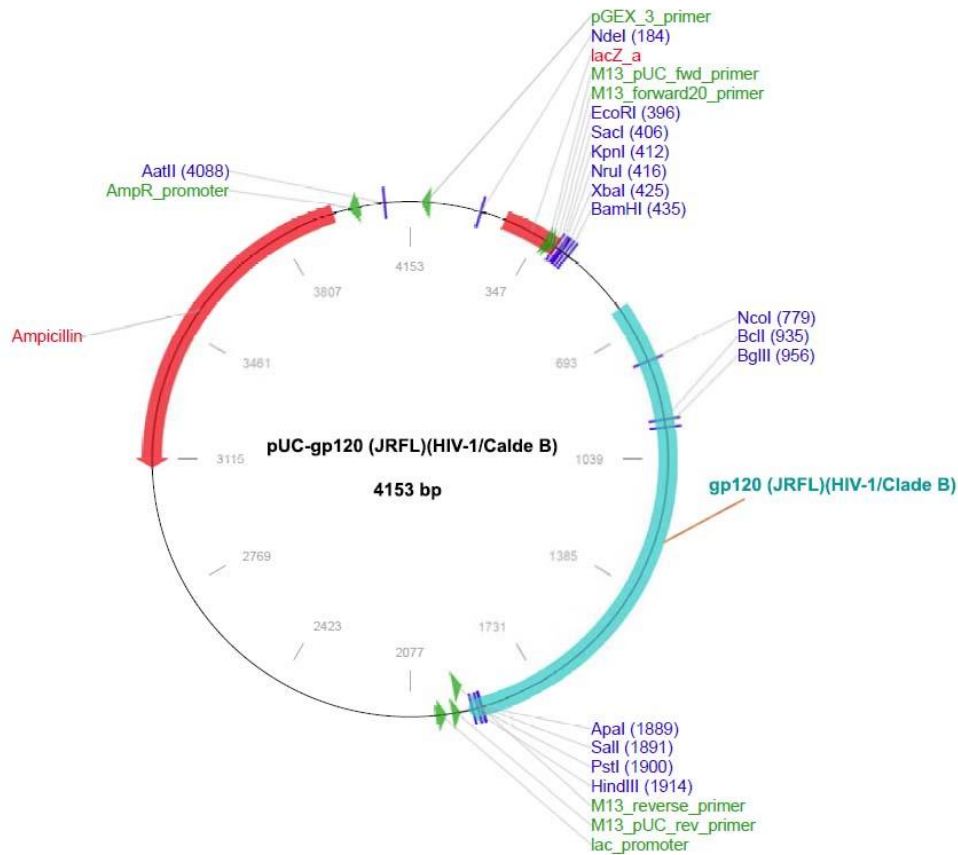


pUC-gp120 (JRFL)(HIV-1/Clade B)

Cat# HIV-0024

Gene Name	pUC-gp120 (JRFL)(HIV-1/Clade B)
Gene description:	Codon optimized cDNA clone of HIV-1 gp120 (JRFL)(Clade B) for high-level expression in mammalian cells
cDNA Insert Size	1437 bp codon optimized HIV-1 gp120 (JRFL)(Clade B) cDNA, corresponding to amino acid 34-512 (Genebank No. U63632) inserted at SmaI site of pUC57 vector
Vector	pUC57
Cloning Site	SmaI
Storage	4 °C.

Construct map:



Detailed sequence of the whole construct (pUC-gp120(JRFL)(HIV-1/Clade B):

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1 TCGCGCGTTT CCGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT
81 GCCGGGAGCA GACAAGCCCC TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
161 GCAGATTGTA CTGAGAGTGC ACCATATGCG GTGTGAAATA CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGGCGCC
241 ATTCGCCATT CAGGCTGCGC AACTGTTGGG AAGGGCGATC GGTGCGGGCC TCTTCGCTAT TACGCCAGCT GCGGAAAGGG
321 GGATGTGCTG CAAGGCGATT AAGTTGGGTA ACGCCAGGGT TTTCCAGTC ACGACGTTGT AAAACGACGG CCAGTGAATT
401 CGAGCTCGGT ACCTCGCGAA TGCATCTAGA TATCGGATCC GCAGTGGGTG ACCGTGTACT ACGGAGTGCC TGTGTGGAAG
481 GAAGCAACAA CCACCTTGTT CTGTGCATCC GACGCAAAGG CTTACGACAC CGAAGTGCAT AACGTGTGGG CTAATCATGC
561 TTGTGTGCTC ACCGACCCAA ACCCTCAAGA AGTGGTCTCG GAAAACGTGA CCGAACACTT CAACATGTGG AAGAACAACA
641 TGGTGGAGCA GATGCAGGAG GACATCATCA GCCTCTGGGA CCAGTCCCTG AAGCCTTGGC TGAAGTCCAC CCCTCTGTGT
721 GTGACCCTTA ACTGCAAGGA CGTGAACGCT ACCAACACCA CAAACGACTC CGAGGGAACC ATGGAGCGCG GAGAGATTAA
801 GAACTGTAGC TTCAACATCA CAACCTCCAT CCGGGACGAG GTGCAGAAAG AGTACGCTTT GTTCTACAAG CTCGACGTGG
881 TGCCTATCGA CAACAACAAT ACATCCTACC GGCTCATCTC CTGCGATACC TCCGTGATCA CTCAGGCTCG CCCAAAGATC
961 TCTTTCGAGC CAATCCCAAT CCACTACTGC GCCCCAGCCG GATTTGCCAT TTTGAAAGTGC AACGATAAGA CCTTCAACGG
1041 GAAGGGGGCCA TGCAAGAACG TGTCTACCGT GCAGTGCACA CATGGAATCA GGCCCGTGGT CTCTACACAA TTGCTGCTGA
1121 ACGGGTCACT GGCCGAGGAA GAGGTCTGTA TTAGATCAGA TAACCTCAC AACAAACGCC AGACAATCAT CGTCCAGCTG
1201 AAGGAGTCCG TCGAGATCAA CTGCACCTCG CCCAACATA ATACTCGGAA GAGCATCCAC ATCGGCCCCG GAAGAGCCTT
1281 TTACACAAC TGGGAGATCA TCGGGGATAT CAGACAGGCC CACTGCAACA TCAGCAGAGC CAAGTGGAAC GATACTCTGA
1361 AGCAGATTGT CATCAAGCTG CGGGAGCAGT TCGAGAACAA GACAATTGTG TTTAACACA GCAGCGGGGG CGATCCCGAG
1441 ATTGTCTATG ACAGCTTTAA CTGCGGCGGG GAGTTTTTCT ATTGCAACAG CACTCAGCTC TTTAACAGCA CATGGAACAA
1521 CAACACTGAG GGCAGCAACA ACACAGAGGG GAACACAATT ACACTCCCT GCCGGATTAA GCAGATTATT AACATGTGGC
1601 AGGAAGTCGG CAAGGCCATG TATGCCCCCC CCATTAGGGG GCAGATTAG TGCAGTAGTA ACATTACTGG CCTGCTTCTT
1681 ACAAGGGATG CGGCAATTA CGAGAACGGG ACAGAGATT TTAGGCCCGG CGGCGGGGAT ATGCGGGATA ATTGGAGGAG
1761 TGAGCTGTAC AAATACAAAG TCGTCAAAAT TGAGCCCTG GCGCTCGCCC CCACTAAAGC CAAACGGCGC GTGGTCCAGA
1841 GGGAGAAAAG GGCCGTGGGC ATCGGCGCCG TGTTCTGGG CGACGGGCC GTCGACTGCA GAGGCTGCA TGCAAGCTTG
1921 GCGTAATCAT GGTCATAGCT GTTTCCTGTG TGAAATTGTT ATCCGCTCAC AATTCCACAC AACATACGAG CCGGAAGCAT
2001 AAAGTGATAA GCCTGGGGTG CCTAATGAGT GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCCGCT TTCCAGTCGG
2081 GAAACCTGTC GTGCCAGCTG CATTAAATGAA TCGGCCAACG CGCGGGGAGA GGCGGTTTGC GTATTGGGCG CTCTCCGCT
2161 TCCTCGTCA CTGACTCGCT GCGCTCGGTC GTTCCGGTGC GGCAGAGCGT ATCAGCTAC TCAAAGGCGG TAATACGGTT
2241 ATCCACAGTA TCAGGGGATA ACGCAGGAAA GAACATGTGA GCAAAGGCC AGCAAAGGC CAGGAACCGT AAAAAGCCG
2321 CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC
2401 CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC TGCCGCTTAC
2481 CGGATACCTG TCCGCCTTTC TCCCTTCGGG AAGCGTGGCG CTTTCTCATA GCTCACGCTG TAGGTATCTC AGTTCGGTGT
2561 AGGTGCTTCC CTCCAAGCTG GGCTGTGTGC ACGAACCCCG CGTTCAGCCC GACCGCTGCG CCTTATCCGG TAACTATCGT
2641 CTTGAGTCCA ACCCGGTAAC ACACGACTTA TCGCCACTGG CAGCAGCCAC TGGTAACAGG ATTAGCAGAG CGAGGTATGT
2721 AGGCGGTGCT ACAGAGTTCT TGAAGTGGT GCCTAACTAC GGCTACACTA GAAGAACAGT ATTTGGTATC TCGCTCTGC
2801 TGAAGCCAGT TACCTTCGGA AAAAAGATTG TAGTCTCTTG ATCCGGCAA CAAACCACC CGTGTAGCGG TGTTTTTTTT
2881 GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC AAGAAGATCC TTTGATCTTT TCTACGGGGT CTGACGCTCA
2961 GTGGAACGAA AACTCACGTT AAGGGATTTT GGTCATGAGA TTATCAAAAA GGATCTTAC CTAGATCCTT TTAATTTAAA
3041 AATGAAGTTT TAAATCAATC TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG TGAGGCACCT
3121 ATCTCAGCGA TCTGTCTAT TCGTTCATCC ATAGTTGCTT GACTCCCCGT CGTGTAGATA ACTACGATAC GGGAGGGCTT
3201 ACCATCTGGC CCCAGTGC TGCAATGATACC GCGAGACCCA CGCTCACCGG CTCCAGATT ATCAGCAATA AACCAGCCAG
3281 CCGGAAGGGC CGAGCGCAGA AGTGGTCTCG CAACTTTATC GCCTCCATC CAGTCTATTA ATTTGTGCC GGAAGCTAGA
3361 GTAAGTAGTT CGCCAGTTAA TAGTTTTGCG AACGTTGTTG CCATTGCTAC AGGCATCGTG GTGTACGCT CGTCTGTTGG
3441 TATGGCTTCA TTCAGCTCCG GTTCCCAACG ATCAAGGCGA GTTACATGAT CCCCATGTT GTGCAAAAA GCGGTTAGCT
3521 CTTCCGGTCC TCCGATCGTT GTCAGAAGTA AGTTGGCCGC AGTGTATCA CTATGGTTA TGGCAGCACT GCATAATTCT
3601 CTTACTGTCA TGCCATCCGT AAGATGCTTT TCTGTGACTG GTGAGTACTC AACCAGTCA TTCTGAGAAT AGTGTATGCG
3681 GCGACCGAGT TGCTCTTGCC CGGCGTCAAT ACGGGATAAT ACCGCGCCAC ATAGCAGAAC TTTAAAAGTG CTCATCATTG
3761 GAAAACGTTT TTCGGGGCGA AAACCTCAA GGATCTTAC GCTGTGTAGA TCCAGTTCGA TGTAACCCAC TCGTGCACCC
3841 AACTGATCTT CAGCATTTT TACTTTTACC AGCTTTCTG GGTGAGCAAA AACAGGAAG CAAAATCCCG CAAAAAGGG
3921 AATAAGGGCG ACACGAAAAA GTTGAATACT CATACTTCT CTTTTTCAAT ATTATTGAAG CATTATCAG GGTATTGTG
4001 TCATGAGCGG ATACATATTT GAATGTATTT AGAAAAATA ACAAATAGGG GTTCCGCGCA CATTCCCGG AAAAGTGCCA
4081 CCTGACGTCT AAGAAACCAT TATTATCATG ACATTAACCT ATAAAAATAG GCGTATCAC AGGCCCTTC GTC

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Note: gp120 sequence (445 bp – 1881 bp) is highlighted in yellow color.

Detailed amino acid sequence of the HIV-1 gp120 (JRFL)(Clade B) cDNA clone:

1 WVTVYYGVPV WKEATTTLFC ASDAKAYDTE VHNWATHAC VPTDPNPQEV VLENVTEHFN MWKNNMVEQM QEDIISLWDQ
81 SLKPCVKLTP LCVTLNCKDV NATNTTNDSE GTMERGEIKN CSFNITTSIR DEVQKEYALF YKLDVVPIDN NNTSYRLISC
161 DTSVITQACP KISFEPIPIH YCAPAGFAIL KCNDKTFNGK GPCKNVSTVQ CTHGIRPVVS TQLLLNGSLA EEEVVIRSDN
241 FTNNAKTIIV QLKESVEINC TRPNNNTRKS IHIGPGRAFY TTGEIIGDIR QAHCNISRAK WNDTLKQIVI KLREQFENKT
321 IVFNHSSGGD PEIVMHSFNC GGEFFYCNST QLFNSTWNNN TEGSNNTTEGN TITLPCRIKQ IINMWQEVGK AMYAPPIRGQ
401 IRCSSNITGL LLTRDGGINE NGTEIFRPGG GDMRDNRSE LYKYKVVKIE PLGVAPTAK RRVVQREKRA VGIGAVFLG

