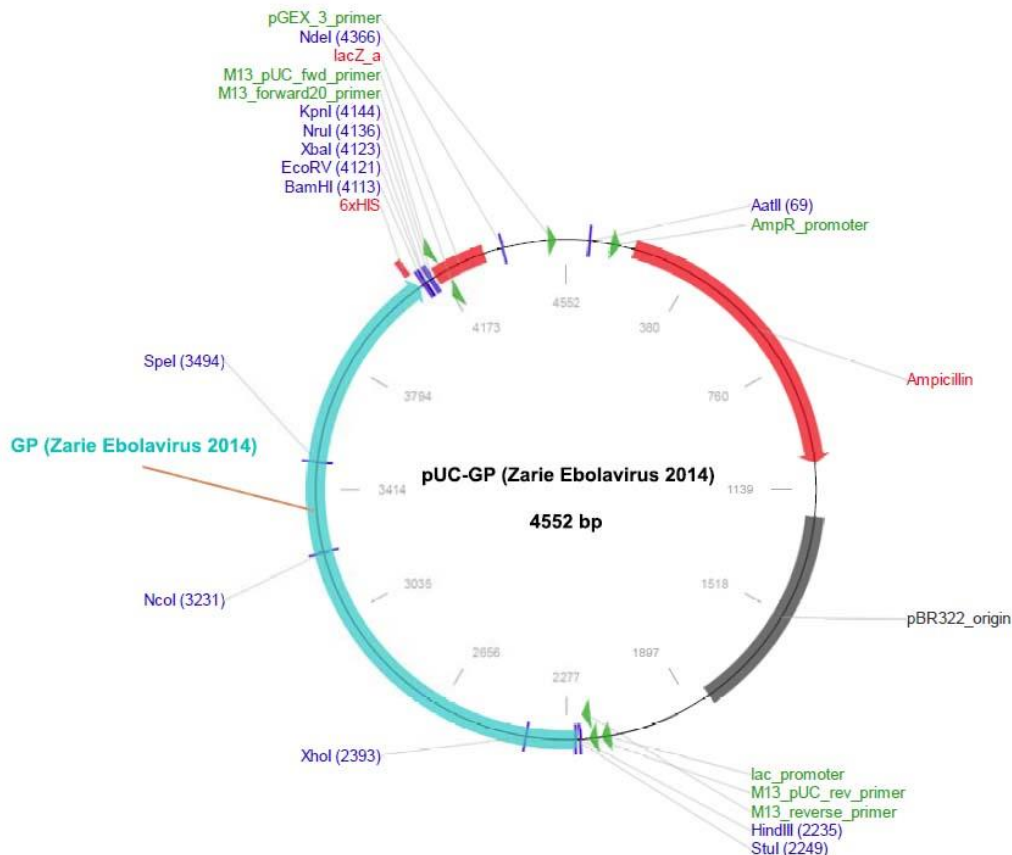


pUC-GP (Zarie Ebolavirus 2014)

Cat# ZEB-GP347

Gene Name	pUC-GP (Zarie Ebolavirus 2014)
Gene description:	Codon optimized cDNA clone of Zarie Ebolavirus Glycoprotein (isolate H.sapiens wt/GIN/2014/Gueckedou-C07) for high-level expression in mammalian cells
cDNA Insert Size	1800 bp codon optimized Zarie Ebolavirus GP (isolate H.sapiens wt/GIN/2014/Gueckedou-C07) cDNA sequence corresponding to amino acid 33-632 (Genebank No. KJ660347)
Vector	pUC57
Amount	10 µl (300 ng)
Storage	4 °C

Construct map:



Detailed sequence of the whole construct (pUC-NP (Zarie Ebolavirus 2014):

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1 GACGAAAGGG CCTCGTGATA CGCCTATTTT TATAGGTTAA TGTCATGATA ATAATGGTTT CTTAGACGTC AGGTGGCACT
81 TTTCCGGGAA ATGTGCGCGG AACCCCTATT TGTTTATTTT TCTAAATACA TTCAAATATG TATCCGCTCA TGAGACAATA
161 ACCCGGATAA ATTCCTCAAT AATATTGAAA AAGGAAGAGT ATGAGTATTC AACATTTCCG TGTCGCCCTT ATTCCTTTT
241 TTGCGGCATT TTGCCTTCTT GTTTTTGCTC ACCCAGAAAC GCTGGTGAAA GTAAAAGATG CTGAAGATCA GTTGGGTGCA
321 CGAGTGGGTT ACATCGAACT GGATCTCAAC AGCGGTAAGA TCCTTGAGAG TTTTCGCCCC GAAGAACGTT TTCCAATGAT
401 GAGCACTTTT AAAGTTCTGC TATGTGGCGC GGTATTATCC CGTATTGACG CCGGGCAAGA GCAACTCGGT CGCCGCATAC
481 ACTATTCTCA GAATGACTTG GTTGAGTACT CACCAGTCAC AGAAAAGCAT CTTACGGATG GCATGACAGT AAGAGAATTA
561 TGCACTGCTG CCATAACCAT GAGTGATAAC ACTGCGGCCA ACTTACTTCT GACAACGATC GGAGGACCGA AGGAGCTAAC
641 CGCTTTTTTG CACAACATGG GGGATCATGT AACTCGCCTT GATCGTTGGG AACCGGAGCT GAATGAAGCC ATACCAAACG
721 ACGAGCGTGA CACCAGATG CCTGTAGCAA TGGCAACAAC CTATTAACCTG CGGAAGCTT TACTCTGCTA CTAGCAGAGC
801 TCCCGGCAAC AATTAATAGA CTGGATGGAG GCGGATAAAG TTGCAGGACC ACTTCTGCGC TCGGCCCTTC CGGCTGGCTG
881 GTTTATTGCT GATAAATCTG GAGCCGGTGA GCGTGGGTCT CGCGGTATCA TTGCAGCACT GGGGCCAGAT GGTAAGCCCT
961 CCCGTATCGT AGTTATCTAC ACGACGGGGA GTCAGGCAAC TATGGATGAA CGAAATAGAC AGATCGCTGA GATAGGTGCC
1041 TCACTGATTA AGCATTGGTA ACTGTCAGAC CAAGTTTACT CATATATACT TTAGATTGAT TTAAAACCTC ATTTTTAATT
1121 TAAAAGGATC TAGGTGAAGA TCCTTTTTGA TAATCTCATG ACCAAAATCC CTTAACGTGA GTTTTCGTTT CACTGAGCGT
1201 CAGACCCCGT AGAAAAGATC AAAGGATCTT CTTGAGATCC TTTTTCCTG CGCGTAATCT GCTGCTTGA ACACAAAAA
1281 CCACCGCTAC CAGCGTGGT TTGTTTCCG GATCAAGAGT TACCAACTCT TTTTCCGAAG GTAACCTGGCT TCAGCAGAGC
1361 GCAGATACCA AATACTGTTC TTCTAGTGTA GCCGTAGTTA GGCCACCCT TCAAGAACTC TGTAGCACCG CCTACATACC
1441 TCGCTCTGCT AATCCTGTTA CCAGTGCGTG CTGCCAGTGG CGATAAGTCG TGTCTTACCG GGTGGACTC AAGACGATAG
1521 TTACCGGATA AGGCGCAGCG GTCGGGCTGA ACGGGGGT CGTGCACACA GCCCAGCTTG GAGCGAACGA CCTACACCGA
1601 ACTGAGATAC CTACAGCGTG AGCTATGAGA AAGCGCCACG CTCCCAGAG GGAGAAAGGC GGACAGGTAT CCGGTAAGCG
1681 GCAGGGTCGG AACAGGAGAG CGCACGAGGG AGCTTCCAG GGGAAACGCT TGGTATCTTT ATAGTCCCTGT CCGGTTTCGC
1761 CACCTCTGAC TTGAGCGTGC ATTTTGTGTA TGCTCGTCAG GGGGGCGGAC CCTATGGAAA AACCCAGCA ACAGCCCTT
1841 TTTACTGTTT CTGGCCTTTT GCTGGCCTTT TGCTCACATG TCTTTCCTG CGTTATCCCC TGATTCTGTG GATAACCGTA
1921 TTACCGCCTT TGAGTGAGCT GATACCGCTC GCCGAGCCG AACGACCGAG CGCAGCGAGT CAGTGAGCGA GGAAGCGGAA
2001 GAGCGCCAA TACGCAAACC GCCTCTCCC GCGCGTTGGC CGATTCATTA ATGCAGCTGG CACGACAGGT TTCCCGACTG
2081 GAAAGCGGGC AGTGAGCGCA ACGCAATTAA TGTGAGTTAG CTCACTCATT AGGCACCCCA GGCTTTACAC TTTATGCTT
2161 CGGCTCGTAT GTTGTGTGGA ATTGTGAGCG GATAACAATT TCACACAGGA AACAGCTATG ACCATGATTA CGCCAAGCTT
2241 GCATGCAGGC CTCTGCAGTC GACGGGCCG ACGCGCGCTG TATCCCTCTG GGAGTCATCC ATAAGTCCAC CCTGCAGGTG
2321 TCCGATGTGG ATAAGTCTCGT GTGCAGAGAC AAGTCTCTCT CCACCAACCA GCTGAGAAGC GTGGGACTCA ACCTCGAGGG
2401 AAACGGAGTG GCAACTGACG TGCCCTCCGC TACTAAGAGA TGGGGATTCC GGTCCGGAGT GCCTCCTAAA GTGGTGAAC
2481 ACGAGGCTGG AGAATGGGCA GAGAAGTCTG ACAACCTGGA GATCAAGAAG CCCGACGGGT CCGAGTGCCT CCCTGCAGCA
2561 CCTGATGGCA TTAGAGGATT CCCTAGGTGC AGGTACGTGC ATAAGGTGAG CGGAAGTGGC CCTTGTGCAG GGGATTTTCG
2641 ATTCATAAAG GAGGGGGCCT TCTTCTCTA CGACAGGCTT GCTTCCACTG TGATCTACCG GGGGACAACC TTCGCTGAGG
2721 GCGTGGTGGC TTTTCTTATC CTGCCACAGG CTAAGAAGGA CTCTTCTCC TCCCACCCAC TGAGGGAGCC AGTGAACGCT
2801 ACCGAAGACC CATCTCTGCG CTACTACTCC ACCACAATCC GCTACAGGCT TACCGGCTC GGGCAAAACG AGACCAGATA
2881 CCTGTTGAGG GTCTGCAACC TGACCTACGT CCAGCTGGAG TCCAGGTTCA CCCCACAGTT TCTCTCCAG CTTAACGAGA
2961 CCATCTACGC CAGCGGGAAG AGGTCTAACA CCACAGGCAA GCTGATCTGG AAGGTCAACC CCGAGATCGA CACCACAATC
3041 GGGGAGTGGG CTTTTTGGGA GACCAAGAAG AACCTGACCC GGAAGATCCG GTCCGAGGAG CTTAGCTTTA CGCCGCTCTC
3121 TAACGGCCCC AAGAACATCA GCGGCCAGTC TCCAGCTAGG ACATCAAGCG ACCCAGAGAC AAACACCACA AACGAGGACC
3201 ACAAGATCAT GGCCAGCGAG AACAGCAGCG CCATGGTCCA GGTGCATAGC CAGGGGAGGA AAGCCGCCGT CTCACACCTT
3281 ACAACATTGG CCACAATCTC CACCTCACCA CAGTCTTGA CCACCAAGCC TGGGCCAGAT AACTCAACCC ACAACACCC
3361 CGTGTACAAG CTGGACATCA GCGAGGCCAC CCAAGTCCG CAACACCACA GAAGGGCCGA TAATGACAGC ACCGCCAGT
3441 ATACACCCCC CTGCCACAACA GCCGCCGGGC CTTTGAAGAG CGAAAATACA AATACTAGTA AGAGTGCCGA CAGTTTGGAC
3521 CTGGCCACTA CCACAAGTCC CCAGAACTAC AGCGAGACCG CCGGGAATAA CAACACTCAC CATCAGGACA CAGGGGAAGA
3601 GAGCGCCAGC AGCGGGAAAT TGGGCTTGAT CACTAACACT ATCGCCGGG TCGCCGGCTT GATTACAGGG GGCAGGCGGA
3681 CACGCCGCGA AGTCAATTGTG AACGCCAGC CCAAATGTAA CCCCACCTG CACTATTGGA CTACACAGGA TGAAGGCGCC
3761 GCCATGGGGC TGGCCTGGAT TCCCTATTTT GGCCCCGCG CCGAGGGGAT CTACACAGAG GGCCTGATGC ACAACCAGGA
3841 TGGGCTGATT TGCGGCCTGC GGCAGCTGGC CAACGAGACT ACTCAGGCC TGCAGCTCTT TCTGCGGGG ACTACTGAGC
3921 TCCGGACTTT TAGTACTCTC AACCGGAAAG CCAATGATTT TCTCCTGCAG CGGTGGGGGG GCACTTGCCA CATTCTGGC
4001 CCCGATTGCT GCACTGAGCC CCACGATTGG ACAAGAACA TTACAGATAA GATTGATCAG ATTATTACAG ATTTTGTGCA
4081 CCACCATCAC CATCACCATT GAGAATTCTG CGGGATCCGA TATCTAGATG CATTGCGGAG GTACCGAGCT CGAATTCAT
4161 GGCCGTCGTT TTACAACGTC GTGACTGGGA AAACCTGGC GTTACCCAAC TTAATCGCCT TGCAGCACAT CCCCTTTTCG
4241 CCAGCTGGCG TAATAGCGAA GAGGCCGCA CCATCGCCC TTCCAACAG TTGCGCAGCC TGAATGGCGA ATGGCGCCTG
4321 ATGCGGTATT TTCTCCTTAC GCATCTGTGC GGTATTTTAC ACCGCATATG GTGCACTCTC AGTACAATCT GCTCTGATGC
4401 CGCATAGTTA AGCCAGCCCC GACACCCGCC AACACCCGCT GACGCGCCT GACGGGCTT TCTGCTCCCG GCATCCGCTT
4481 ACAGACAAGC TGTGACCGTC TCCGGGAGCT GCATGTGTCA GAGGTTTTCA CCGTCATCAC CGAAACGCGC GA

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Note: GP sequence (2282 bp – 4081 bp) is highlighted in yellow color

Detailed amino acid sequence of the codon optimized cDNA clone:

1 IPLGVIHNST LQVSDVDKLV CRDKLSSTNQ LRSVGLNLEG NGVATDVPSA TKRWGFRSGV PPKVVNYEAG EWAENCYNLE
81 IKKPDGSECL PAAPDGIRGF PRCRYVHKVS GTGPCAGDFA FHKEGAFFLY DRLASTVIYR GTTFAEGVVA FLILPQAKKD
161 FFSSHPLREP VNATEDPSSG YYSTTIRYQA TGFGTNETEY LFEVDNLTYV QLESRFTPQF LLQLNETIYA SGKRSNTTGK
241 LIWKVNPEID TTIGEWAFWE TTKNLTRKIR SEELSFTAVS NGPKNISGQS PARTSSDPET NTTNEDHKIM ASENSSAMVQ
321 VHSQGRKAAV SHLTTLATIS TSPQSLTKP GPDNSTHNTV VYKLDISEAT QVGQHRRAD NDSTASDTPP ATTAAGPLKA
401 ENTNTSKSAD SLDLATTSP QNYSETAGNN NTHHQDTGEE SASSGKGLI TNTIAGVAGL ITGGRRTRE VIVNAQPKCN
481 PNLHYWTTQD EGAAIGLAWI PYFGPAAEGI YTEGLMHNQD GLICGLRQLA NETTQALQLF LRATTELRTF SILNRKAIDF
561 LLQRWGGTCH ILGPDCIEP HDWTKNITDK IDQIIHDFVD

