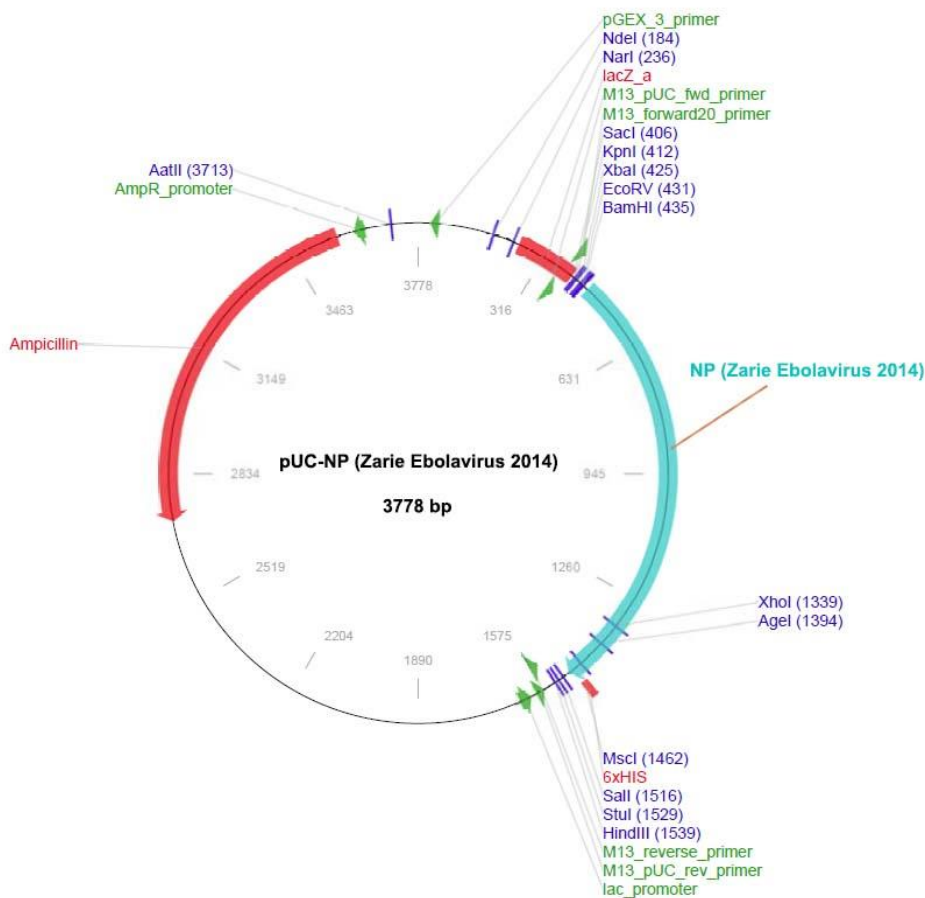


pUC-NP (Zarie Ebolavirus 2014)

Cat# ZEB-NP646

Gene Name	pUC-NP (Zarie Ebolavirus 2014)
Gene description:	Codon optimized cDNA clone of Zarie Ebolavirus Nucleoprotein (aa 396-738) (isolate H.sapiens-wt/GIN/2014/Kissidougou-C15) for high-level expression in mammalian cells
cDNA Insert Size	1029 bp codon optimized Zarie Ebolavirus NP (isolate H.sapiens-wt/GIN/2014/Kissidougou-C15) cDNA sequence corresponding to amino acid 396-738 (Gene accession# AHX24646.1)
Vector	pUC57
Storage	4 °C

Construct map:



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

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1 TCGCGCGTTT CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT
81 GCCGGGAGCA GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACATATG CGGCATCAGA
161 GCAGATTGTA CTGAGAGTGC ACCATATGCG GTGTGAAATA CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGGCGCC
241 ATTCCGCATT CAGGCTGCGC AACTGTTGGG AAGGGCGATC GGTGCGGGCC TCTTCGCTAT TACGCCAGCT GGCAGAAAGG
321 GGATGTGCTG CAAGGCGATT AAGTTGGGTA ACGCCAGGGT TTTCCAGTC ACGACGTTGT AAAACGACGG CCAGTGAATT
401 CGAGCTCGGT ACCTCGCGAA TGCATCTAGA TATCGGATCC CGCGCGCTGT ACACTGAGGA AGGAGCGCCT TGCAAAGCTC
481 ACCGAGGCAA TCACAGCTGC TTCTCTGCCT AAGACCAGCG GACACTACGA CGACGATGAC GACATCCCTT TCCCTGGACC
561 TATCAACGAC GACGATAACC CAGGACACCA GGACGATGAT CCTACAGACT CTCAAGACAC CACAATCCCC GACGTGGTCG
641 TGGACCCTGA CGACGGCGGG TATGGGGAGT ACCAATCCTA CTCCGAGAAC GGCATGTCTG CTCCTGACGA CCTTGTCTTG
721 TTGACCTGG ACGAGGACGA CGAGGACACC AAGCCTGTCC CTAACAGATC CACCAAGGGC GGGACGAGA AAAACCTACA
801 GAAGGGGAG CACACTGAGG GCAGACAGAC ACAGTCAACC CCAACACAGA ACGTCAACCG GCCAAGAAGG ACAATCCACC
881 ACGCCAGTGC CCCATTGACA GACAACGACA GGAGGAACGA GCCAAGTGGG TCCACAAGCC CAAGGATGTT GACCCCAATT
961 AACGAGGAGG CCGATCCACT GGACGATGCC GATGATGAGA CCTCCAGCCT CCCACCCCTG GAATCCGATG ATGAAGAACA
1041 GGACAGGGAT AGCAGCTAGC ACCGGACTCC CACGTGTGGC CCCCCGCCCG CGGTGTATCG CGATCATTCC GAGAAAAAGG
1121 AACTGCCCCA GGATGAGCAG CAGGATCAGG ATCATATTCA GGAGGCCCGG AATCAGGATA GCGATAATAC TCAGCCCGAG
1201 CATAGCTTTG AGGAGATGTA CCGGCATATT CTGCGGAGCC AGGGCCCTTT TGATGCCGTG CTCTACTACC ACATGATGAA
1281 GGATGAGCCC GTGGTGTTTA GCACCAGCGA TGGCAAGGAG TACACATACC CGGATTCCTT CGAGGAAGAA TACCCCCCTT
1361 GGCTGACTGA GAAAGAGGCC ATGAACGATG AGAACCAGTT TGTCACCTCT GATGGGCAGC AGTTCTACTG GCCCGTGATG
1441 AACCACCGGA ACAAGTTTCT GGCCATTCTG CAGCACCACC ACCATCACCA TCACCATTGA GAATTCGTCG GGCCCGTCGA
1521 CTGCAGAGGC CTGCATGCAA GCTTGGCGTA ATCATGGTCA TAGCTGTTTC CTGTGTGAAA TTGTTATCCG CTCACAATTC
1601 CACACAGCAT ACGAGCCGGA AGCATAAAGT GTAAGCCTG GGGTCCCTAA TGAGTGAGCT AACTCACATT AATTGCGTTG
1681 CGCTCACTGC CCGCTTTCCA GTCGGGAAAC CTGCTGTGCC AGCTGCATTA ATGAATCGGC CAACGCGCGG GGAGAGGCGG
1761 TTTGCCTATT GGGCGCTCTT CCGCTTCTTC GCTCACTGAC TCGCTGCGCT CGGTGCTTCG GCTGCGGCGA GCGGTATCAG
1841 CTCACTCAAA GGCGGTAATA CGGTATATCA CAGAATCAGG GGATAACGCA GGAAAGAACA TGTGAGCAAA AGGCCAGCAA
1921 AAGGCCAGGA ACCGTAAAAA GGCCGCGTTG CTGGCGTTTT TCCATAGGCT CCGCCCCCCT GACGAGCATC ACAAAAATCG
2001 ACGCTCAAGT CAGAGGTGGC GAAACCCGAC AGGACTATAA AGATAACGAG CGTTTCCCCC TGGAAGCTTC CTCGTGCGCT
2081 CTCTGTGTTT CAGCCTGCGG CTTACCGGAT ACCTGCTCCG CTTCTCCCTT TCGGGAAGCG TGGCGCTTTC TCAGACTCTA
2161 CGCTGTAGGT ATCTCAGTTC GGTGTAGGTC GTTTCGCTCA AGCTGGGCTG TGTGCACGAA CCCCCGTTTC AGCCCGACCG
2241 CTGCGCCTTA TCCGGTAACT ATCGTCTTGA GTCCAACCCG GTAAGACACG ACTTATCGCC ACTGGCAGCA GCCACTGGTA
2321 ACAGGATTAG CAGAGCGAGG TATGTAGGCG GTGCTACAGA GTTCTTGAAG TGGTGGCCTA ACTACGGCTA CACTAGAAGA
2401 ACAGTATTTG GTATCTGCGC TCTGCTGAAG CCAGTTACCT TCGGAAAAAG AGTTGGTAGC TCTTGATCCG GCAAAACAAAC
2481 CACCGCTGGT AGCGGTGGTT TTTTTGTGTT CAAGCAGCAG ATTACGCGCA GAAAAAAAGG ATCTCAAGAA GATCCTTTGA
2561 TCTTTTCTAC GGGGTCTGAC GCTCAGTGGA ACGAAAAATC ACGTTAAGGG ATTTTGGTCA TGAGATTATC AAAAAGGATC
2641 TTCACCTAGA TCCTTTTAAA TTAAAAATGA AGTTTAAAT CAATCTAAGG TATATATGAG TAAACTTTGT CTGACAGTTA
2721 CCAATGCTTA ATCAGTGAGG CACCTATCTC AGCGATCTGT CTATTTCTGT CATCCATAGT TGCCTGACTC CCCGTCGTGT
2801 AGATAACTAC GATACGGGAG GGCTTACCAT CTGGCCCCAG TGCTGCAATG ATACCGCGAG ACCCACGCTC ACCGGCTCCA
2881 GATTTATCAG CAATAAACCA GCCAGCCGGA AGGGCCGAGC GCAGAAGTGG TCCTGCAACT TTATCCGCCT CCATCCAGTC
2961 TATTAATTGT TGCCGGGAAG CTAGAGTAAG TAGTTTCGCC GTTAATAGTT TGCGCAACGT TGTTGCCATT GCTACAGGCA
3041 TCGTGGTGTC ACGCTCGTCG TTTGGTATGG CTTCATTGAG CTCCGGTTCC CAACGATCAA GGCGAGTTAC ATGATCCCCC
3121 ATGTTGTGCA AAAAAGCGGT TAGTCTCTTC GGTCTCCGA TCGTTGTGAG AAGTAAGTTG GCCGAGTGT TATCACTCAT
3201 GGTTATGGCA GCACCTGCATA ATTCTCTTAC TGTCATGCCA TCCGTAAGAT GCTTTTCTGT GACTGGTGAG TACTCAACCA
3281 AGTCATTCTG AGAATAGTGT ATGCGGCGAC CGAGTTGCTC TTGCCGCGCG TCAATACGGG ATAATACCGC GCCACATAGC
3361 AGAACTTTAA AAGTGCTCAT CATTGAAAAA CGTCTTTCGG GGCGAAAACT CTCAAGGATC TTACCGCTGT TGAGATCCAG
3441 TTGATGTAA CCCACTCGTG CACCAACTG ATCTTCAGCA TCTTTTACTT TCACCAGCGT TTCTGGGTGA GCAAAAACAG
3521 GAAGGCAAAA TGCCGCAAAA AAGGGAATAA GGGCGACACG GAAATGTTGA ATACTCATAC TCTTCTTTT TCAATATTAT
3601 TGAAGCATTT ATCAGGGTTA TTGTCTCATG AGCGGATACA TATTTGAATG TATTTAGAAA AATAAACAAA TAGGGGTTCC
3681 CGGCACATTT CCCCGAAAG TGCCACCTGA CGTCTAAGAA ACCATTATTA TCATGACATT AACCTATAAA AATAGGCGTA
3761 TCACGAGGCC CTTTCTGC

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Note: NP sequence (451 bp – 1479 bp) is highlighted in yellow color

Detailed amino acid sequence of the codon optimized cDNA clone:

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1 TLRKERLAKL TEAITAASLP KTSGHYDDDD DIPFPGPIND DDNPQHQQDD PTDSQDPTIP DVVVDPPDGG YGEYQSYSEN
81 GMSAPDDLVL FDLDEDEDDT KPVPNRSTKG GQKNSQKQ HTEGRQTQST PTQNVTPRR TIHHASAPLT DNDRRNEPSG
161 STSPRMLTPI NEEADPLDDA DDETSSLPL ESDDEEQDRD GTSNRPTVA PPAPVYRDHS EKKELPQDEQ QDQDHIQEAR
241 NQDSNTQPE HSFEEMYRHI LRSQGPFDV LYYHMMKDEP VVFTSDGKE YTPDSLEEE YPPWLTEKEA MNDENRFVTL
321 DGQQFYWPVM NHRNKFMAIL QHH

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