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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

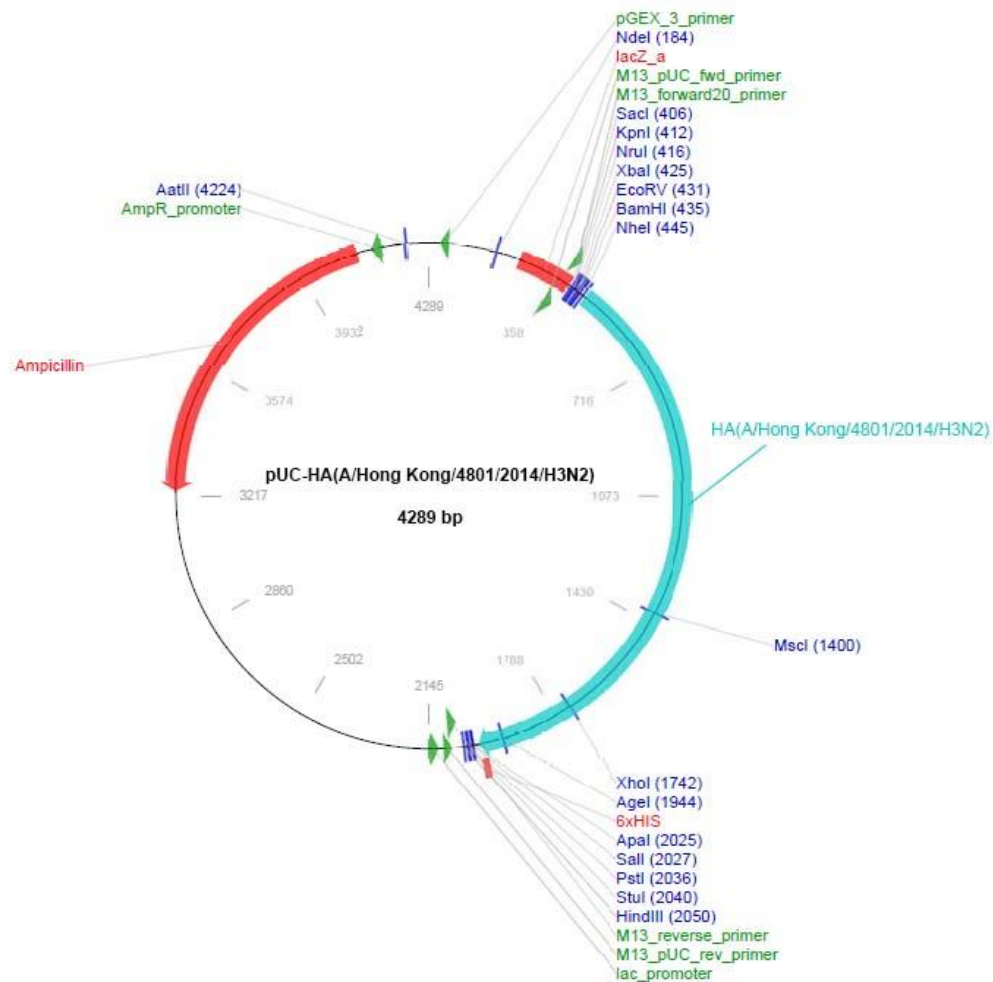
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pUC-HA (A/Hong Kong/4801/2014/H3N2)

Cat# HA-HK3214

Gene Name	pUC-HA (A/Hong Kong/4801/2014/H3N2)
Gene description	Codon optimized cDNA clone of influenza A hemagglutinin (aa 17-529) (A/ Hong Kong/4801/2014)(H3N2) for high-level expression in mammalian cells
cDNA Insert Size	1509 bp codon optimized influenza A hemagglutinin (A/ Hong Kong/4801/2014)(H3N2) cDNA sequence corresponding to amino acid 17-529 (Accession# EPI653201)
Vector	pUC57
Storage	4 °C

Construct map



Detailed sequence of the whole construct (pUC-HA(A/ Hong Kong/4801/2014/H3N2):

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1 TCGCGCGTTT CCGTGATGAC GGTGAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT
81 GCCGGGAGCA GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
161 GCAGATTGTA CTGAGAGTGC ACCATATGCG GTGTGAAATA CCGCACAGAT GCGTAAGGAG AAAATACCGC ATCAGGGCGCC
241 ATTGCGCCAT CAGGCTGCGC AACTGTGTTG AAGGGCGATC GGTGCGGGCC TCTTCGCTAT TACGCCAGCT GCGGAAAGGG
321 GGATGTGCTG CAAGGCGATT AAGTTGGGTA ACGCCAGGTT TTTCCAGTGC ACGACGTTGT AAAACGACGG CCGAGTGAAT
401 CGAGCTCGGT ACCTCGCGAA TGCATCTAGA TATCGGATCC CGACGCTAGC TCAAAAAATC CCCGGCAATG ACAACAGCAC
481 TGCAACCCCTC TGTCTCGGAC ATCACGCACT CCCAAACGGA ACAATCGTGA AGACCATCAC AAACGACCGC ATCGAGGTGA
561 CCAACGCAAC CGAGCTTGTG CAGAACTCCA GTATCGGAGA GATCTGTGAC TCCCCACACC AAATCCTCGA CGGAGAAAAC
641 TGCACCCTTA TCGACGCTCT TCTGGGAGAC CCTCAATGTG ACGGATTCCA GAACAAGAAG TGGGACCTGT TCGTGGAGCG
721 CTCTAAGGCT TACTCTAATG GCTACCCCTA CGACGTGCCA GACTACGCTT CCCTTAGAAG CCTCGTGGCT TCATCCGGAA
801 CATTGGAGTT CAACAACGAG TCCTTCAACT GGACCGGGGT CACACAGAAC GGCACATCAT CTGCTTGCAT CAGAAGGTCC
881 AGCAGCTCTT TCTTCTCCCG GTTGAAGTGG CTGACCCACT TGAAGTACAC GTACCCCGCT GTACCCGCTGA CCATGCCAAA
961 CAACGACGAG TTTCGAAAGC TGTACATCTG GGGGGTCCAC CATCCTGGGA CCGATAAGGA CCAGATCTTC CTGTACGCCC
1041 AGTCGTCAGG CAGAATCACT GTGTCCACCA AGAGATCCCA GCAGGCCGTG ATTCCTAACA TCGGCTCCAG ACCAAGGATC
1121 AGGGACATCC CCAGTAGGAT CAGTATCTAC TGGACCATCG TCAAGCCTGG GGACATCTTG CTGATCAACA GCACCGGGAA
1201 CTTGATCGCC CCCAGGGGCT ATTTAAGAT CAGGAGTGGG AAGAGCAGCA TTATGAGGAG CGACGCCCCC ATTGGCAAAT
1281 GCAAGAGCGA ATGCATTAAT CCCAACGGGA GCATTTCCAA CGACAAGCCC TTTCAGAACG TCAACAGGAT TACATACGGC
1361 GCCTGCCCAA GGTATGTCAA GCACAGCACA CTGAAGCTGG CCACAGGGAT GCGGAATGTG CCCGAAAAAC AGACTCGGGG
1441 GATTTTGGC GCCATTGCCC GCTTTATCGA AAATGGCTGG GAAGGGATGG TGGATGGGTG CTTATGGCTTC CCGCATCAGA
1521 ATAGCGAAGG GCGCGGCCAG GCCGCCGATC TGA AAAAGCAC TCAGGCCGCC ATTGATCAGA TTAATGGGAA ACTGAACCGG
1601 CTGATTGGCA AAACAAACGA GAAATTTTAC CAGATTGAGA AAGAGTTTTT CAGAGGTCGAG GGGCGGATTC AGGATCTGGA
1681 GAAGTACGTC GAGGATACTA AGATTGATCT GTGGAGCTAC AACGCCGAGC TGCTGGTGGC CCTCGAGAAC CAGCACACAA
1761 TTGATCTGAC AGATAGCGAG ATGAACAAGC TCTTTGAGAA GACTAAGAAG CAGCTCCGCG AGAACGCCGA GGATATGGGC
1841 AACGGGTGCT TTAAGATCTA CCACAAGTGC GATAACGCCT GCATTGGCTC CATTGCGAAC GGGACATACG ATCACAATGT
1921 GTACCGGGAT GAGGCCCTCA ACAACCGGTT TCAGATTAAG GCGTTCGAG TGAAGTCCGG TACAAGGAT CACCACCACC
2001 ACCACCAC TG AGAATTCGAC GGGCCCGTCG ACTGCAGAGG CCTGCATGCA AGCTTGGCGT AATCATGGTT ATAGCTGTTT
2081 CCTGTGTGAA ATTTGTTATCC GCTCACAATT CCACACAACA TACGAGCCGG AAGCATAAAG TGTAAGCCTT GGGGTGCCTA
2161 ATGAGTGAGC TAACTACAT TAATTGCGTT GCGCTACTG CCCGCTTTC AGTCGGGAAA CCTGTCTGTC CAGCTGCATT
2241 AATGAATCGG CCAACGCGCG GGGAGAGGCG GTTTGCGTAT TGGGCGCTCT TCCGCTTCC CTGCTACTGA CTCGCTGCGC
2321 TCGGTGCTTC GGCTGCGGCG AGCGGTATCA GCTCACTCAA AGCGGTAAT ACGGTTATCC ACAGAATCAG GGGATAACGC
2401 AGGAAAGAAC ATGTGAGCAA AAGGCCAGCA AAAGGCCAGG AACCGTAAA AGGCCGCGTT GCTGGCGTTT TTCCATAGGC
2481 TCCGCCCCCC TGACGAGCAT CACAAAAATC CACGCTCAAG TCAGAGGTGG CGAAACCCGA CAGGACTATA AAGATACGAG
2561 GCCGTTCCCC CTGGAAGCTC CCTCGTGCGC TCTCCTGTT CACCCCTGCC GCTTACCAGA TACCTGTCCG CCTTTCTCCC
2641 TTCGGGAAGC GTGGCGCTTT CTCATAGCTC ACCTGTAGG TATCTCAGTT CGGTGTAGGT CGTTCGCTCC AAGCTGGGCT
2721 GTGTGCACGA ACCCCCGTT CAGCCCGACC GCTGCGCTT ATCCGGTAAC TATCGTCTTG AGTCCAACCC GGTAAAGACAC
2801 GACTTATCGC CACTGGCAGC AGCCACTGGT AACAGGATTA GCAGAGCGAG GTATGTAGGC GGTGCTACAG AGTTCTTGAA
2881 GTGGTGGCCT AACTACGGT AACTAGAAAG AACAGTATT GGTATCTGCG CTCTGCTGAA GCCAGTTACC TTCGGAAAAA
2961 GAGTTGGTAG CTCTTGATCC GGCAACAAA CCACCGCTG TAGCGGTGTT TTTTTGTTT GCAAGCAGCA GATTACGCGC
3041 AGAAAAAAG GATCTCAAGA AGATCCTTTG ATCTTTCTA CCGGGTCTGA CCGGTAAGT AACGAAAAC CTGTTAAGG
3121 GATTTTGGTC ATGAGATTAT CAAAAAGGAT CTTCACCTAG ATCCTTTTAA ATTA AAAATG AAGTTTTTAA TCAATCTAAA
3201 GTATATATGA GTAAACTTGG TCTGACAGTT ACCAATGCTT AATCAGTGAG GCACCTATCT CAGCGATCTG TCTATTTCTG
3281 TCATCCATAG TTGCCTGACT CCCCCTGCTG TAGATAACTA CGATACGGGA GGGCTTACCA TCTGGCCCCA GTGCTGCAAT
3361 GATACCGCGA GACCCACGCT CACCGGCTCC AGATTTATCA GCAATAAACC AGCCAGCCGG AAGGGCCGAG CGCAGAAGTG
3441 GTCCTGCAAC TTTATCCGCC TCCATCCAGT CTATTAATTG TTGCCGGGAA GCTAGAGTAA GTAGTTCGCG AGTTAATAGT
3521 TTGCGCAACG TTGTGCTCAT TGCTACAGC ATCGTGGTGT CACGCTCGTC GTTTGGTATG CTTTCAATCA GCTCCGGTTT
3601 CCAACGATCA AGGCGAGTTA CATGATCCCC CATGTGTGTC AAAAAAGCGG TTAGTCTCCT CCGTCTCCG ATCGTTGTCA
3681 GAAGTAAGTT GGCCGAGTG TTATCACTCA TGGTTATGGC AGCACTGCAT AATTCTCTTA CTGTATGCC ATCCGTAAGA
3761 TGCTTTTCTG TGACTGGTGA GTACTCAACC AAGTCATTCT GAGAATAGTG TATGCGGCGA CCGAGTTGCT CTGCCCCGGC
3841 GTCAATACGG GATAATACCG CGCCACATAG CAGAACTTTA AAAGTGCTCA TCATTGGAAA ACGTTCTTCG GGGCGAAAAC
3921 TCTCAAGGAT CTTACCGCTG TTGAGATCCA GTTCGATGTA ACCCACTCGT GCACCAACT GATCTTCAGC ATCTTTTACT
4001 TTCACCAGCG TTTCTGGGTG AGCAAAAACA GGAAGGCAA ATGCCGAAA AAAGGGAATA AGGGCGACAC GGAAATGTTG
4081 AATACTCATA CTCTTCCTTT TTCAATATTA TTGAAGCAAT TATCAGGTTT ATGTCTCAT GAGCGGATAC ATATTTGAAT
4161 GTATTTAGAA AAATAAACAA ATAGGGGTTT CGCCACATT TCCCCGAAAA GTGCCACCTG ACGTCTAAGA AACCATTTAT
4241 ATCATGACAT TAACCTATAA AAATAGGCGT ATCACGAGGC CCTTTCGTC

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Note: HA sequence (452 bp – 2008 bp) is highlighted in yellow color

Detailed amino acid sequence of the codon optimized cDNA clone:

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17           QKIP GNDNSTATLC LGHHAVPNGT IVKTITNDRI EVTNATELVQ NSSIGEICDS PHQILDGENC
81  TLIDALLGDP QCDGFQNKKW DLFVERSKAY SNCYPYDVPD YASLRSLVAS SGTLEFNES FNWTGVTQNG TSSACIRRSS
161 SFFSRLNWL THLNYTYPAL NVTMPNNEQF DKLYIWGVHH PGTDKDQIFL YAQSSGRITV STKRSQQAVI PNIGSRPRIR
241 DIPSRISIW TIVKPGDILL INSTGNLIAP RGYFKIRSGK SSIMRSDAPI GKCKSECITP NGSIPNDKPF QNVNRITYGA
321 CPRVVKHSTL KLATGMRNVP EKQTRGIFGA IAGFIENGWE GMVDGWYGFH HQNSEGRGQA ADLKSTQAAI DQINGKLNRL
401 IGKTNEKFHQ IEKEFSEVEG RIQDLEKYVE DTKIDLWSYN AELLVALENQ HTIDLTDSEM NKLFEKTKKQ LRENAEDMGN
481 GCFKIYHKCD NACIGSIRNG TYDHNVYRDE ALNNRFQIKG VELKSGYKD
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