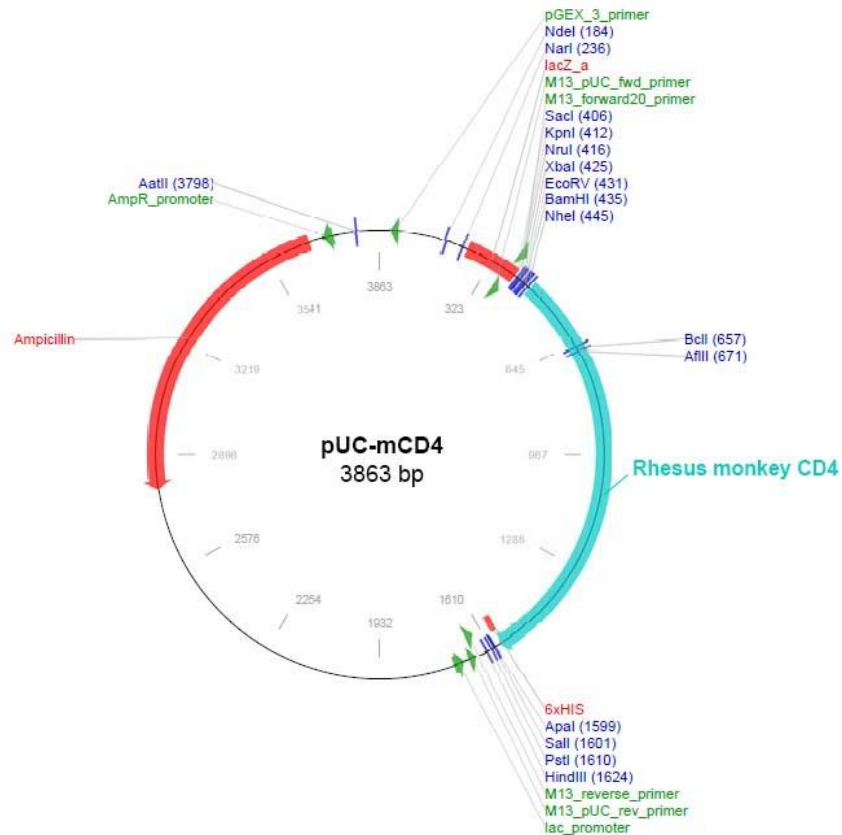


## pUC-mCD4

Cat# RM-mCD4

<b>Gene Name:</b>	pUC-mCD4
<b>Gene description:</b>	Codon optimized cDNA clone of rhesus monkey CD4 for high-level expression in mammalian cells
<b>cDNA Insert Size:</b>	1113 bp codon optimized rhesus monkey CD4 cDNA sequence corresponding to amino acid 26-396 (Gene accession# NP_001036127)
<b>Vector:</b>	pUC57
<b>Storage:</b>	4 °C

### Construct map:



**Detailed sequence of the whole construct (pUC-mCD4):**

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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 ATCAGGCGCC
241 ATTGCGCATT CAGGCTGCGC AACTGTGTTG AAGGGCGATC GGTGCGGGCC TCTTCGCTAT TACGCCAGCT GGCAGAAAGGG
321 GGATGTGCTG CAAGCGCATT AAGTTGGGTA ACGCCAGGTT TTTCCCAGT ACGACGTTGT AAAACGACGG CCAGTGAATT
401 CGAGCTCGGT ACCTCGCGAA TGCATCTAGA TATCGGATCC CGACGCTAGC TAAGAAAAGTG GTGCTGGGCA AGAAAGGGGA
481 TACAGTGGAA CTGACCTGTA CAGCTTCGCA GAAGAAGAAC ACACAATTCC ACTGAAAAAA CTCCAACCAG ATAAAGATTC
561 TGGGTATTCA GGGTCTCTTC TTAATAAAG GTCCATCCAA GCTGAGCGAT CGTGCTGACT CAAGAAAAAG CCTTTGGGAC
641 CAAGGATGCT TTTCCATGAT CATCAAGAAT CTTAAGATAG AAGACTCAGA TACTTACATC TGTGAAGTGG AGAACAAGAA
721 GGAGGAGGTG GAATTGCTGG GTTTCGGATT GACTGCCAAC TCTGACACCC ACCTGCTTGA GGGGCAAAGC CTGACCCTGA
801 CCTTGGAGAG CCCCCCTGGT AGTAGCCCCT CAGTGAAATG TAGGAGTCCA GGGGGTAAAA ACATACAGGG GGGGAGGACC
881 ATCTCTGTGC CTCAGCTGGA GCGCCAGGAT AGTGGCACCT GGACATGCAC CGTCTCGCAG GACCAGAAGA CGGTGGAGTT
961 CAAAATAGAC ATCGTGTGTC TCGCTTTCCA GAAGGCCTCC AGCACAGTCT ATAAGAAAAGA GGGGGAACAG GTGGAGTTCT
1041 CCTTCCCCTACT CGCCTTTACA CTTGAAAAGC TGACGGGCAG TGCGGAGCTG TGGTGGCAGG CGGAGAGGGC CTCCTCCTCC
1121 AAGTCTTGA TTACCTTCGA CCTGAAGAAC AAGGAAGTGT CTGTAACACG GGTTACCCAG GACCCCAAGC TCCAGATGGG
1201 CAAGAAGCTC CCGCTCCACC TCACCCTGCC CCAGGCCTTG CCTCAGTATG CTGGCTCTGG AAACCTCAGC CTGGCCCTTG
1281 AAGCGAAAAC AGGAAAGTTG CATCAGGAAG TGAACCTCGT GGTGATGAGA GCCACTCAGT TCCAGGAAAA TTTGACCTGT
1361 GAAGTGTGGG GACCCACCTC CCCTAAGCTG ACGCTGAGTG TGAAGTCTGA GAACAAGGGG GCAACGCTCT CGAAGCAGGC
1441 GAAGGCGGTG TGGGTGCTGA ACCCTGAGGC GGGGATGTGG CAGTGTCTGC TGAGTGACTC GGGACAGGTC CTGCTAGAAAT
1521 CCAACATCAA GGTGTGCCCC ACATGGCCCA CCCCCTGCA GCCACCCAT CACCATCACC ATTGGAATT CGACGGGCC
1601 GTCGACTGCA GAGGCTGCA TGCAAGCTTG GCGTAATCAT GGTCATAGCT GTTTCCTGTG TGAATTTGTT ATCCGCTCAC
1681 AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGAAA GCCTGGGGTG CTAATGAGT GAGCTAACTC ACATTAATTG
1761 CGTTGCCTC ACTGCCCGCT TTCCAGTCGG GAAACCTGTC GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA
1841 GCGGTTTTC GTATTGGGGC CTCTTCCGTT TCCTCGCTCA CTGACTCGTG GCGCTCGGTC GTTCGGCTGC GGCAGCGGTG
1921 ATCAGCTCAC TCAAAGGCG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA GAACATGTGA GCAAAAGGCC
2001 AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA GCATACAAA
2081 AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAAGATA CCAGGCGTTT CCCCTGGAA GCTCCCTCGT
2161 GCGCTCTCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCTTTC TCCCTTCGGG AAGCGTGGCG CTTTCTCATA
2241 GCTCACGCTG TAGGTATCTC AGTTCGGTGT AGTTCGTTTC CTCAAGCTG GGCTGTGTGC ACGAACCCCT CGTTCAGCCC
2321 GACCGCTGCG CCTTATCCGG TAACATATCGT CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC
2401 TGGTAACAGG ATTAGCAGAG CGAGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA
2481 GAAGAACAGT ATTTGGTATC TCGCTCTGTC TGAAGCCAGT TACCTTCGGA AAAAGAGTTG GTAGTCTTTG ATCCGCCAAA
2561 CAAACCCAGC CTGGTAGCGG TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGATCTC AAGAAGATCC
2641 TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT GGTGATGAGA TTATCAAAAA
2721 GGATCTTAC CTAGATCCTT TTAATTTAAA AATGAAGTTT TAAATCAATC TAAAGTATAT ATGAGTAAAC TTGGTCTGAC
2801 AGTTACCAAT GCTTAAATCAG TGAGGCACCT ATCTCAGCGA TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCGGT
2881 CGTGTAGATA ACTACGATA GGGAGGGCTT ACCATCTGGC CCCAGTGTCT CAATGATACC GCGAGACCCA CGCTCACCGG
2961 CTCAGATTT ATCAGCAATA AACCAGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCTCT CAACCTTTATC CGCTCCATC
3041 CAGTCTATTA ATTGTTGCCG GGAAGCTAGA TGAAGTAGTT CGCCAGTTAA TAGTTTGCGC AACCTTGTG CATTGCTAC
3121 AGGCATCGTG GTGTCAGCTC CGTCTGTTGG TATGCTTTCA TTCAGTCCCG GTTCCCAACG ATCAAGGCGA GTTACATGAT
3201 CCCCATGTT GTGCAAAAAA GCGGTTAGCT CCTTCGGTTC TCCGATCGTT GTCAGAAGTA AGTTGGCCGC AGTGTATCA
3281 CTCATGTTA TGGCAGCACT GCATAATTCT CTTACTGTCA TGCCATCCGT AAGATGCTTT TCTGTGACTG GTGAGTACTC
3361 AACCAGTCA TTCTGAGAAT AGTGATGCG GCGACCGAGT TGCTCTTGCC CGGCGTCAAT ACGGGATAAT ACCGCGCCAC
3441 ATAGCAGAAC TTTAAAAGTG CTCATCATTG GAAAACGTTT TTCGGGGCGA AAACCTCAA GGATCTTACC GCTGTGAGA
3521 TCCAGTTCGA TGTAACCCAC TCGTGCACCC AACTGATCTT CAGCATCTTT TACTTTACC AGCTTTCTG GGTGAGCAAA
3601 AACAGGAAG CAAAATGCCG CAAAATGGGG AATAAGGGCG ACACGGAAT GTTGAATACT CACTACTCTC CTTTTTCAAT
3681 ATTATGAAG CATTATCAG GGTATGTGTC TCATGAGCGG ATACATATTT GAATGTATTT AGAAAAATAA ACAAATAGGG
3761 GTTCCGCGCA CATTTCCTCC AAAAGTGCCA CCTGACGTCT AAGAAACCAT TATTATCATG ACATTAACCT ATAAAAATAG
3841 GCGTATCAG AGGCCCTTTC GTC

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**Note:** CD4 sequence (452 bp – 1564 bp) is highlighted in yellow color

**Detailed amino acid sequence of the codon optimized cDNA clone:**

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KKVVLGKKGD TVELTCTASQ KKNTQFHWKN SNQIKILGIQ GLFLTGKPSK LSDRADSRSKS LWDQGCFSMI IKNLKIEDSD
TYICEVENKK EEVELLVFGL TANS DTHLLE GQSLTLTLES PPGSSPSVKC RSPGGKNIQG GRTISVPQLE RQDSGTWTCT
VSQDQKTFEF KIDIVVLAFAQ KASSTVYKKE GEQVEFSFPL AFTLEKLTGS GELWWQAERA SSSKSWITFD LKNKEVSVKR
VTQDPKLQMG KKLPLHLTLP QALPQYAGSG NLTALALEAKT GKLHQEVNLV VMRATQFQEN LTCEVWGPTS PKLTLTSLKLE
NKGATVSKQA KAVVVLNPEA GMWQCLLSDS GQVLLESNIK VVPTWPTPVQ PHHHHHH

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