

Certificate of Analysis

Product ID: OHu31755D Lot. No.: 817240637-1/R56878

Product Information:

Gene Symbol: DOCK2 Accession No.: NM_004946

Cloning Vector: pcDNA3.1⁺/C-(K)DYK Gene Length*: 5493 bp

Cloning Strategy: CloneEZ Plasmid Size: 10883 bp

Antibiotic Resistance: Ampicillin, recommended concentration: 50 µg/ml Amount: 10 µg

Note: * The stop codon has not been included in gene length calculation. And the detail sequence showed in attachment 2

Storage: Store at -20°C
The ORF clone is shipped at room temperature, but should be kept at -20°C for long-term storage.

QC Items	Specifications	Results	
Sequencing Alignment	Sequencing results are consistent with the targeted insert sequence.	Pass	Consistent
Vector Sequence	The flanking sequences of the cloning sites are correct.	Pass	Correct Shown in the SQD file
Restriction Digests	The size of inserted fragment is correct and free of unexpected bands suggesting contamination.	Pass	Correct Shown in attachment 1
DNA Quality	Miniprep: 10 µg OD260/280=1.8~2.0 Free of contamination	Pass	≥ 10 µg OD260/280=1.87 Pure
Quality Grade	Research Grade	Pass	Research Grade
Appearance	Clear and free of foreign particles.	Pass	Clear Free of foreign particles
Additional Test		N/A	

Certified by: *Morgan* Date: 09/01/2016

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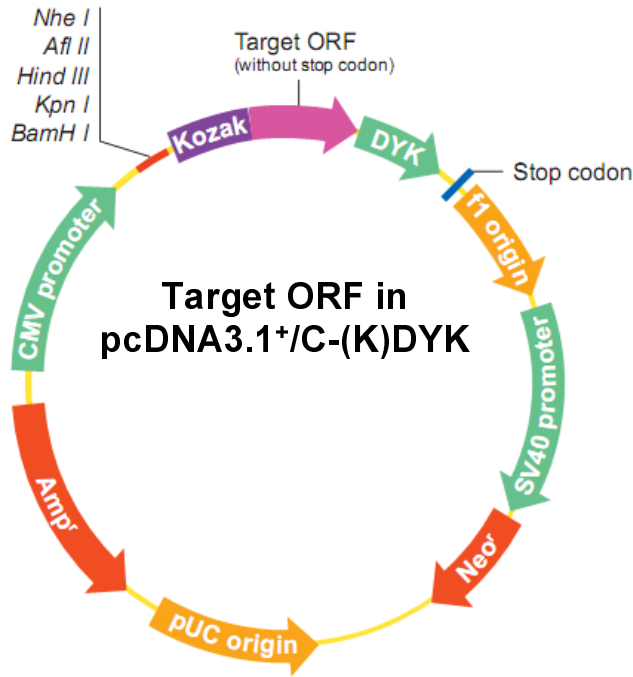
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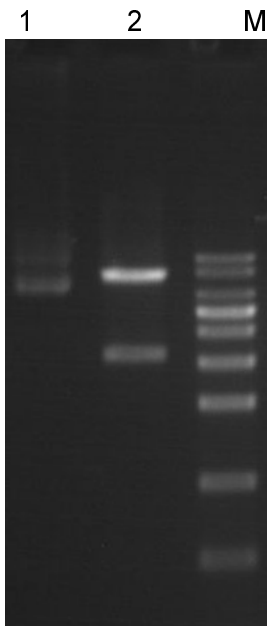
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Plasmid Construct Map

The ORF was cloned in pcDNA3.1⁺/C-(K)DYK by CloneEZ.

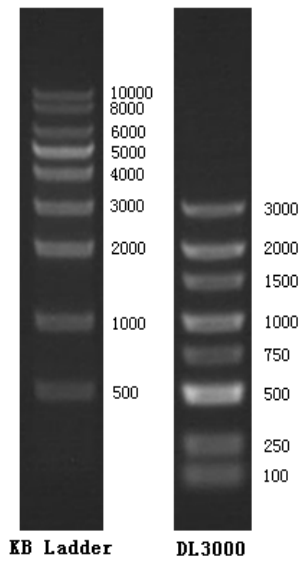


Enzyme Digestion



Lane M: KB Ladder
Lane 1: OHu31755D plasmid
Lane 2: OHu31755D plasmid digested by HindIII

Digestion Conditions:
~ 300ng plasmid digested
Digestion in water-bath, 37°C for 40 minutes
1% Agarose Gel



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Original ORF Sequence (Including start and stop codons)

ATGGCCCT	GGCGAAAGC	TGACAAGGAG	CGGCACGGCG	TGGCCATATA	CAACTTCCAA	GGCAGCGGAG	CCCCCAGCT	CTCCCTGCAG	ATCGGGGATG
TGGTGCAGAT	ACAGGAGACG	TGTGGAGACT	GGTATAGGGG	ATACCTCATA	AAGCACAAAA	TGTTACAGGG	CATTTTCTCT	AAGTCATTTA	TCCACATCAA
GGAAAGTGACA	GTTGAGAAAA	GAAGAAATAC	TGAGAACATC	ATTCCCTGCAG	AAATTCTCT	GGCACAAAGAA	GTGACAACGA	CACTTTGGGA	ATGGGGAAAGC
ATCTGGAAAC	AACTCTATGT	GGCCAGCAAA	AAGGAGCGTT	TTCTCCAGGT	GCAGTCCATG	ATGTACGATC	TGATGGAGTG	GAGGTCCCAG	CTTCTCTCAG
GAACCTTACC	CAAGGATGAG	CTGAAGGAAC	TGAAGCAGAA	AGTCACGTCC	AAAATTGACT	ATGGCAACAA	AATCCTTGAG	CTTGATTGGA	TTGTCAGAGA
TGAAGACGGA	AATATCTTGG	ACCCTGATAA	TACCAGTGTG	ATCAGCTTGT	TCCATGCACA	TGAGGAAGCA	ACTGATAAAA	TCACAGAGCG	TATCAAAGAA
GAAATGTCAA	AAGACCAGCC	AGATTATGCA	ATGTATTCCC	GGATCTCCTC	ATCCCCACC	CATAGCCTCT	ATGTGTTTGT	GAGAAACTTT	GTGTGCAGAA
TTGGGGAAGA	TGCTGAGCTC	TTCATGTCTC	TCTACGACCC	CAACAAGCAA	ACGGTCATAA	GTGAGAACTA	CCTAGTGGCA	TGGGGCAGCC	GGGGCTTCCC
TAAGGAGATT	GAGATGCTCA	ACAATCTGAA	GGTGGTCTTC	ACGGA TCTTG	GAACAAAGA	CCTCAACAGG	GATAAAATTT	ACTTGATTGG	TCAAATAGTC
CGGGTCCGCA	AGATGGATCT	TAAGGATACT	GGTGCAAAGA	AGTGCACGCA	GGACTGAGG	AGGCCCTTTG	GGGTGGCAGT	TATGGATATA	ACAGACATCA
TCAAGGGGAA	AGCAGAGAGT	GATGAAGAAA	AGCAGCACTT	CATTCCTTTT	CACCCGGTTA	CAGCTGAGAA	TGACTTCTTA	CACAGCCTGC	TGGGCAAAGT
CATAGCCTCC	AAGGGGGACA	GTGGAGGGCA	AGGCCTCTGG	GTGACCATGA	AGATGCTGGT	GGGTGACATC	ATTCAGATTC	GCAAGGACTA	TCCACACCTG
GTGGACAGGA	CCACCGTGGT	GGCCAGGAAG	CTGGGATTCC	CAGAGATCAT	CATGCCAGGG	GATGTCAGGA	ACGACATCTA	CATTACTCTC	TTACAAGGTG
ACTTTGACAA	GTACAACAAG	ACCACACAGA	GGAAATGTGA	AGTCAATCATG	TGTGTGTGCG	CGGAGGATGG	CAAAACGCTG	CCTAATGCAA	TTTGCCTGGG
AGCAGGGGAC	AAGCCCATGA	ATGAGTATCG	CTCCGTTGTG	TACTATCAAG	TCAAACAGCC	ACGCTGGATG	GAACAGTCA	AGGTGGCTGT	CCCTATTGAA
GACATGCAGA	GGATCCATCT	GGCATTCATG	TTTCGACATC	GGTCATCTCT	GGAACTTAAA	GATAAAGGAG	AAAAGAACTT	TGCCATGTCC	TATGTGAAGC
TGATGAAAGA	AGATGGGACT	ACTCTACACG	ATGGATTCCA	TGACTTAGTT	GTCCTCAAGG	GGGACAGCAA	GAAGATGGAG	GATGCCAGCG	CATACCTGAC
CCTTCTCTCT	TATCGACACC	ATGTGGAAAA	CAAGGGGGCC	ACGCTGAGCA	GGAGCTCCAG	CAGTGTGGG	GGGCTTCTG	TCAGTCCCG	GGATGTGTTT
TCCATTTC	CCCTGGTGTG	CTCCACAAAG	CTCACTCAGA	ATGTGGGCTT	GCTGGGTTT	CTGAAGTGGC	GTATGAAGCC	TCAACTGCTA	CAGGAGAATT
TAGAAAAGTT	GAAGATTGTG	GATGGAGAGG	AAGTGGTGA	GTTTCTCCAG	GATACTCTGG	ATGCCCTCTT	CAACATCATG	ATGGAGCATT	CTCAAAGTGA
TGAATATGAC	ATCCTCGTCT	TTGATGCCTT	GATTACATA	ATAGGACTCA	TTGCAGACCG	GAAATTTTCA	CATTTCAACA	CCGTTCTGGA	GGCTTACATC
CAACAGCATT	TCAGTGCAGC	CTTGGCTTAC	AAGAAATGA	TGACAGTGTCT	GAAGACTTAC	TTGGATACCT	CCAGCAGAGG	GGAGCAATGT	GAGCCAAATCC
TAAGAACGCT	GAAGGCTTTG	GAATATGTGT	TCAAAGTTCAT	TGTTCCGGTCG	AGGACATTAT	TTTCACAGCT	TTATGAAGGC	AAAGAACAGA	TGGAGTTTGA
AGAATCCATG	AGACGGCTCT	TTGAATCCAT	CAACAATCTG	ATGAAAAGTC	AAATACAAAAC	TACCATCCTT	TTGCAGGTGG	CGGCTTTGAA	ATACATCCCA
TCTGTCTGCG	ATGATGTAGA	AATGGTCTTT	GATGCGAAGT	TACTCAGCCA	ACTCCTGTAT	GAGTCTTACA	CCTGCATCCC	TCCTGTGAAA	CTCCAGAAGC
AGAAAAGTACA	GTCTATGAAT	GAGATAGTCC	AGAGCAAACCT	CTTTAAAAAG	CAAGAATGCC	GGGACATTCT	GCTTCCTGTC	ATCACAAAAG	AGCTGAAGGA
GCTGCTGGAG	CAGAAGGATG	ACATGCAACA	CCAGGTCCTG	GAGAGGAAAGT	ACTGCGTTGA	ATTGCTCAAC	AGCATCTTGG	AAGTCCTTAG	CTACCAGGAT
GCGGCCCTTCA	CCTACCACCA	TATCCAGGAG	ATCATGGTCC	AGCTGCTGCG	GACAGTGAAAC	CGGACAGTCA	TCACCATGGG	CCGGGATCAC	ATTCTGATTA
GTCACCTTGT	GGCATGTATG	ACAGCCATCT	TAAACCAGAT	GGGTGACCAG	CACTACTCCT	TCTACATTGA	GACCTTCCAG	ACCAGCTCTG	AACTTGTGGA
CTTCTTGATG	GAGACCTTCA	TCATGTTCAA	GGACCTCATT	GGAAAGAAGC	TGTACCCTGG	AGACTGGATG	GCCATGAGCA	TGGTTCAAAA	CAGGGTCTTC
CTGAGAGTCA	TCAACAAGTT	TGCAGAAAC	ATGAACCAGA	AGTTCCCTAGA	ACACACGAAC	TTTGAGTTCC	AGCTGTGGAA	CAACTATTTT	CATCTGGCAG
TGGCTTTTAT	CACCCAGGAT	TCTCTGCAGC	TGGAGCAGTT	CTCACACGCT	AAATACAAAC	AAATCCTGAA	TAAGTATGGG	GACATGAGAC	GGCTAATTGG
CTTCTCCATC	CGTGATATGT	GGTACAAAGCT	TGGTCAGAAC	AAAATCTGCT	TCATCCCAGG	CATGGTAGGA	CCTATATTAG	AGATGACACT	TATCCCTGAG
GCTGAGCTCC	GGAAAGCCAC	CATACCAATC	TTCTTCGACA	TGATGCTGTG	TGAATATCAA	AGAAGTGGG	ATTTCAAAAA	GTTTGA AAAAC	GAAATCATCC
TGAAGCTGGA	CCACGAGGTA	GAAGGGGGCC	GAGGCGACGA	GCAGTACATG	CAGCTCCTGG	AGTCAAATCCT	GATGGAATGT	GCTGCAGAGC	ACCCAACCAT
TGCCAAGTCG	GTGGAGAACT	TCGTGAACCT	GGTCAAAGGC	CTCCTGGAGA	AGCTGCTGGA	TTACCGGGGT	GTGATGACAG	ATGAGAGCAA	AGACAACCGC
ATGAGCTGCA	CCGTGAACCT	GCTGAATTTT	TACAAAGATA	ACAACAGGGA	GGAGATGTAC	ATAAGGTACC	TGTACAAACT	CCGCGATCTT	CACCTGGACT
GTGACAATTA	CACAGAGGCT	GCCTACACGC	TCCTTCTCCA	CACCTGGCTT	CTCAAGTGGT	CGGATGAGCA	GTGTGCATCA	CAGGTCTATG	AGACAGGCCA
GCAGCACCCC	CAGACACACC	GGCAGCTGAA	GGAGACGCTC	TACGAGACCA	TCATAGGCTA	CTTTGACAAA	GGAAAGATGT	GGGAAAGGCG	CATAAGTCTG
TGCAAGGAGC	TGGCGGAACA	GTACGAGATG	GAGATCTTTG	ACTATGAGCT	GCTCAGCCAG	AACCTGATCC	AGCAGGCAA	ATTCTATGAA	AGCATCATGA
AAATCCTCAG	GCCCAAACCA	GACTACTTTG	CTGTTGGATA	CTACGGCCAG	GGATTCCCCT	CCTTCTGCG	GAACAAAAGT	TTTCTATACC	GCGGGAAAGGA
ATATGAGCGA	AGAGAAGATT	TCCAGATGCA	GCTGATGACC	CAGTTCCCA	ATGCAGAGAA	GATGAACACC	ACCTCTGCCC	CGGGAGATGA	TGTGAAGAAT
GCCCCAGGCC	AGTATATCCA	GTGCTTCACT	GTCCAGCCTG	TCTTGATGA	ACATCCCAGG	TTCAAGAATA	AGCCAGTGCC	TGACCAGATT	ATAAACTTCT
ACAAATCCAA	CTACGTGCAA	AGGTTCCACT	ACTCCCAGCC	CGTGCCGAGG	GGGACCGTAG	ACCCAGAGAA	TGAGTTTGT	TCCATGTGGA	TTGAGAGAAC
CTCCTTCTG	ACTGCATACA	AGCTGCCGGG	GATCCTGCGC	TGGTTTGGAG	TGGTGCACAT	GTCGCAGACC	ACAATTAGTC	CTCTGGAGAA	TGCCATAGAA
ACCATGTCCA	CGGCCAATGA	GAAGATCCTG	ATGATGATAA	ACCAGTACCA	GAGTGTGAG	ACCCCTCCCA	TCAACCCACT	CTCCATGCTC	CTGAACGGGA
TTGTGGACCC	TGCTGTCTATG	GGAGGCTTCC	CCAAGTATGA	GAAGGCCTTC	TTCACTGAAG	AGTATGTCTAG	GGACCACCT	GAGGACCAGG	ACAAGCTGAC
CCACCTCAAG	GACCTGATTG	CATGGCAGAT	CCCCTTCTTG	GGAGCTGGGA	TTAAGATCCA	TGAGAAAAGG	GTGTCAGATA	ACTTGCAGCC	CTTCCATGAC
CGGATGGAGG	AATGTTTCAA	GAACCTGAAA	ATGAAGGTGG	AGAAGGAGTA	CGGTGTCGGA	GAGATGCCTG	ACTTTGACGA	CAGGAGAGTG	GGCCGTCCTCA
GGTCTATGCT	GCGCTCATA	AGACAGATGT	CCATCATCTC	TCTGGCTTCC	ATGAATTCTG	ACTGCAGCAC	CCCCAGCAAG	CCTACCTCAG	AGAGCTTTGA

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Attachment 2**Original ORF Sequence (Including start and stop codons)**

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CCTGGAATTA GCATCACCCA AGACGCCGAG AGTGGAGCAG GAGGAACCGA TCTCCCCGGG GAGCACCTG CCTGAGGTCA AGCTGCGGAG GTCCAAGAAG
AGGACAAAGA GAAGCAGCGT AGTTTTGCG GATGAGAAAG CAGCTGCAGA GTCGGACCTG AAGCGGCTTT CCAGGAAGCA TGAGTTCATG AGTGACACCA
ACCTTCGGA GCATGCGGCC ATCCCCCTCA AGGCGTCTGT CCTCTCTCAA ATGAGCTTTG CCAGCCAGTC CATGCCTACC ATCCAGCCC TGGCGCTCTC
AGTGGCAGGC ATCCCTGGGT TGGATGAGGC CAACACATCT CCCCGCCTCA GCCAGACCTT CCTCCAATC TCAGATGGTG ACAAGAAGAC ACTCACACGG
AAGAAGTCA ATCAGTTCTT CAAGACAATG CTGGCCAGCA AATCGGCTGA AGAAGGCAAA CAGATCCCAG ACTCGCTGTC CACGGACCTG TGA
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