

# Certificate of Analysis

Project ID: OHU18278DLot. No.: HV46479**Product Information:**Gene Symbol: KLAccession No.: NM\_004795Cloning Vector: pcDNA3.1+/C-(K)DYKGene Length\*: 3036 bpCloning Strategy: CloneEZPlasmid Size: 8426 bpAntibiotic Resistance: Ampicillin, recommended concentration: 50 µg/mlAmount: 10 µgCompetent cell: TOP10Growth Temperature: 37 °C**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	
Appearance	Colorless, clear, free of precipitate or foreign particles	Pass	Clear, colorless, no visible particulates
Sequence Accuracy	Sequencing verification match the order requirements	Pass	Matched
Restriction Digests	Expected size bands detected in agarose gel electrophoresis.	Pass	Matched
			Shown in attachment 1
A260/280	1.8~2.0	Pass	1.94
Quantity	Miniprep: 10 µg	Pass	≥ 10 µg
Additional Tests	N/A	N/A	

Certified by:

Jing Yu

Date: 06/12/2024

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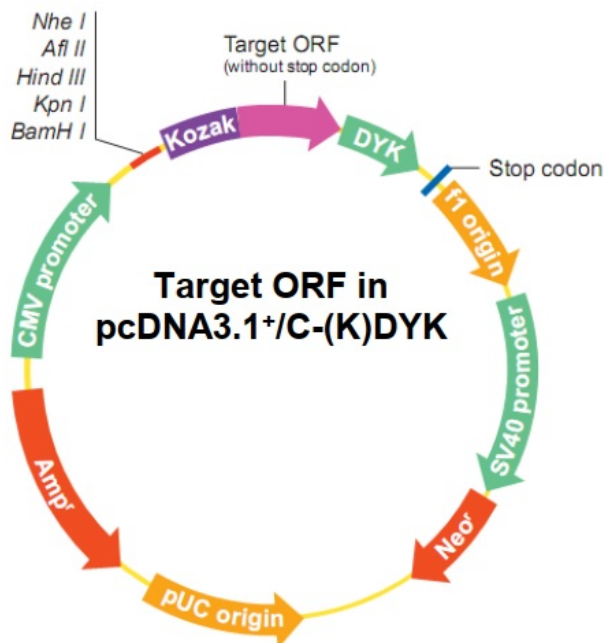
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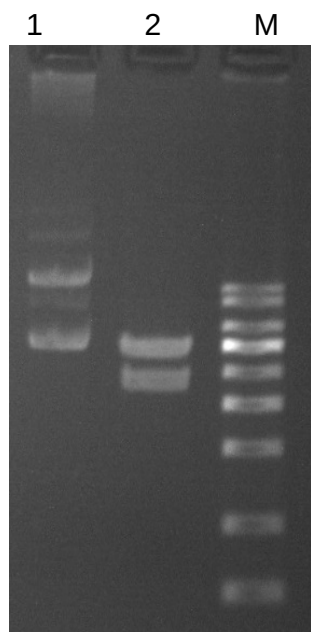
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# Plasmid Construct Map

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



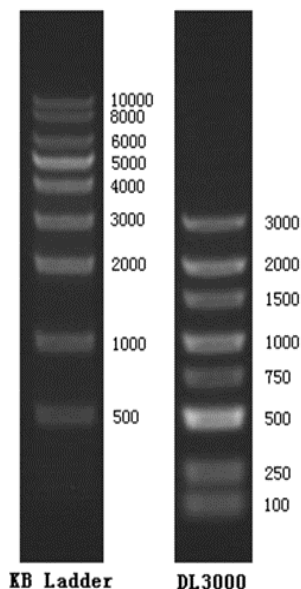
## Enzyme Digestion



Lane M: KB Ladder  
Lane 1: OHU18278D plasmid  
Lane 2: OHU18278D plasmid digested  
by MluI and EcoRI

### Restriction digest of plasmid DNA:

About 200-1000 ng of plasmid was digested  
at 37°C for 30-60 minutes and analyzed on  
1% Agarose Gel



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**Original ORF Sequence**

The stop codons will be deleted if pcDNA3.1+/C-(K)DYK vector is selected.

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ATGCCCGCCA GCGCCCCGCC GCGCCGCCCG CGGCCGCCGC GCGCGTCGCT GTCGCTGCTG CTGGTGCTGC TGGGCTGGG CGGCCGCCGC CTGCGTGCGG
AGCCGGGGCGA CGGCGCGCAG ACCTGGGCCC GTTCTCTCGC GCCTCCTGCC CCCGAGGCCG CGGGCTCTT CCAGGGCACC TTCCCGACG GCTTCTCTCTG
GGCCGTGGGC AGCGCCGCCT ACCAGACCGA GGGCGGCTGG CAGCAGCACG GCAAGGGTGC GTCCATCTGG GATACGTTCA CCCACCACCC CTGGCACCCC
CCGGGAGACT CCCGGAACGC CAGTCTGCCG TTGGGCGCCC CGTCGCCGCT GCAGCCCGCC ACCGGGGACG TAGCCAGCGA CAGCTACAAC AACGTCTTCC
GCGACACGGA GGCCTGCGC GAGCTCGGGG TACTCACTA CCGCTTCTCC ATCTCGTGGG CGCGAGTGCT CCCCAGTGGC AGCGCGGGCG TCCCCAACCG
CGAGGGGCTG CGCTACTACC GCGCGCTGCT GGAGCGGCTG GAGAGCTGG CGGTGCAGCC CGTGGTCACC CTGTACCCT GGGACCTGCC CCAGCGCCTG
CAGGACGCCT ACGGCGGCTG GGCACACCGC GCCCTGGCCG ACCACTTCAG GGATTACGCG GAGCTCTGCT TCCGCCACTT CGGCGGTCAG GTCAAGTACT
GGATCACCAT CGACAACCCC TACGTGGTGG CCTGGCACGG CTACGCCACC GGGCGCTGG CCCCCGGCAT CCGGGGCAGC CCGCGGCTCG GGTACCTGGT
GGCGCACAAAC CTCCTCTGG CTCATGCCAA AGTCTGGCAT CTCTACAATA CTTCTTTCCG TCCCACTCAG GGAGGTCAGG TGTCCATTGC CCTAAGCTCT
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TCAAAAAGTT CATCATGGAA ACCTTAAAG CCATCAAGCT GGATGGGGTG GATGTCATCG GGTATACCGC ATGGTCCCTC ATGGATGGTT TCGAGTGGCA
CAGAGGTTAC AGCATCAGGC GTGGACTCTT CTATGTTGAC TTTCTAAGCC AGGACAAGAT GTTGTGCA AAGTCTTCAG CCTGTGTTCTA CCAAAAGCTG
ATAGAGAAAA ATGGCTTCCC TCCTTTACCT GAAAATCAGC CCCTAGAAGG GACATTTCCC TGTGACTTTG CTGGGGAGT TGTGACAAC TACATTCAAG
TAGATACCAC TCTGTCTCAG TTTACCGACC TGAATGTTTA CCTGTGGGAT GTCCACCACA GTAAAAGGCT TATTAAAGTG GATGGGGTTG TGACCAAGAA
GAGGAAATCC TACTGTGTG ACTTTGCTGC CATCCAGCCC CAGATCGCTT TACTCCAGGA AATGCACGTT ACACATTTTC GCTTCTCCCT GGACTGGGCC
CTGATTCTCC CTCTGGGTAA CCAGTCCCAG GTGAACCACA CCATCCTGCA GTACTATCGC TGCAATGGCA GCGAGCTTGT CCGTGTCAAC ATCACCACAG
TGGTGGCCCT GTGGCAGCCT ATGGCCCCGA ACCAAGGACT GCCGCGCCTC CTGGCCAGGC AGGCGCCTG GGAGAACCCC TACACTGCC TGCCCTTTGC
AGAGTATGCC CGACTGTGCT TTCAAGAGCT CGGCCATCAC GTCAAGCTTT GGATAACGAT GAATGAGCCG TATACAAGGA ATATGACATA CAGTGTGGC
CACAACTTC TGAAGGCCA TGCCCTGGCT TGGCATGTGT ACAATGAAAA GTTTAGGCAT GCTCAGAATG GGAAAATATC CATAGCCTTG CAGGCTGATT
GGATAGAACC TGCCTGCCCT TTCTCCCAA AGGACAAAGA GGTGGCTGAG AGAGTTTTGG AATTTGACAT TGGCTGGCTG GCTGAGCCCA TTTTCGGCTC
TGGAGATTAT CCATGGGTGA TGAGGGACTG GCTGAACCAA AGAAACAATT TTCTTCTTCC TTATTTCACT GAAGATGAAA AAAAGCTAAT CCAGGGTACC
TTTGACTTTT TGGCTTTAAG CCATTATACC ACCATCCTTG TAGACTCAGA AAAAGAAGAT CCAATAAAAT ACAATGATTA CCTAGAAGTG CAAGAAATGA
CCGACATCAC GTGGCTCAAC TCCCCAGTC AGGTGGCGGT AGTGCCCTGG GGGTTGCGCA AAGTGCTGAA CTGGCTGAAG TTCAAGTACG GAGACCTCCC
CATGTACATA ATATCCAATG GAATCGATGA CGGGCTGCAT GCTGAGGACG ACCAGCTGAG GGTGTATTAT ATGCAGAATT ACATAAACGA AGCTCTCAAA
GCCCACATAC TGGATGGTAT CAATCTTTGC GGATACTTTG CTTATTCTGT TAACGACCGC ACAGCTCCGA GGTGTTGGCT CTATCGTTAT GCTGCAGATC
AGTTTGAGCC CAAGGCATCC ATGAAACATT ACAGGAAAAT TATTGACAGC AATGGTTTCC CGGGCCAGA AACTCTGGA AGATTTTGTG CAGAAGAATT
CACCGTGTGT ACTGAGTGCA GTTTTTTTCA CACCCGAAAG TCTTACTG CTTTCATAGC TTTTCTATTT TTTGCTTCTA TTATTTCTCT CTCCCTATA
TTTTACTACT CGAAGAAAGG CAGAAGAAGT TACAAA

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