

Certificate of Analysis

Project ID: OHU14319DLot. No.: HV27922**Product Information:**Gene Symbol: LIG1Accession No.: NM_000234Cloning Vector: pcDNA3.1+/C-(K)DYKGene Length*: 2757 bpCloning Strategy: CloneEZPlasmid Size: 8147 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	1.91
Quantity	Miniprep: 10 µg	Pass	≥ 10 µg
Additional Tests	N/A	N/A	

Certified by:

Jing Yu

Date: 02/26/2024

As a pioneer and leader in gene synthesis technology, and the largest gene synthesis supplier in the US, GenScript has completed over 600,000 genes synthesis projects for scientists around the world. Since our establishment in 2002, we have built the best-in-class capacity and capability for biological research services encompassing gene synthesis and molecular biology, peptide synthesis, custom antibodies, protein expression, antibody and protein engineering, and in vitro and in vivo pharmacology – all with the goal to Make Research Easy.

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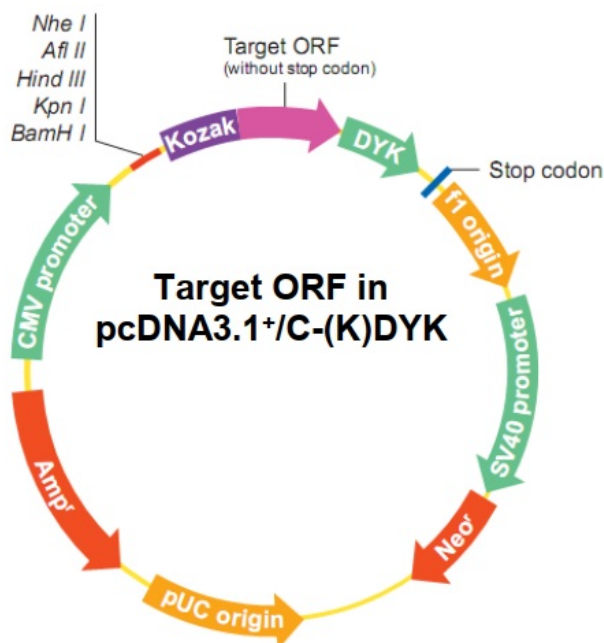
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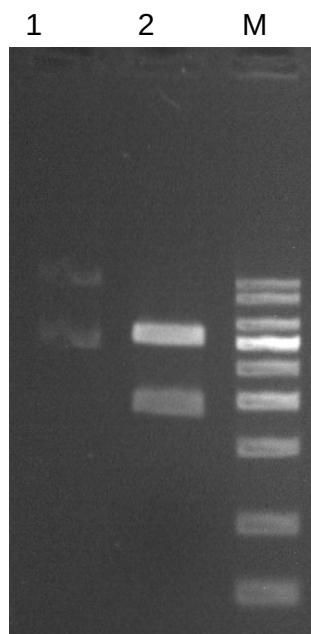
Attachment 1

Plasmid Construct Map

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



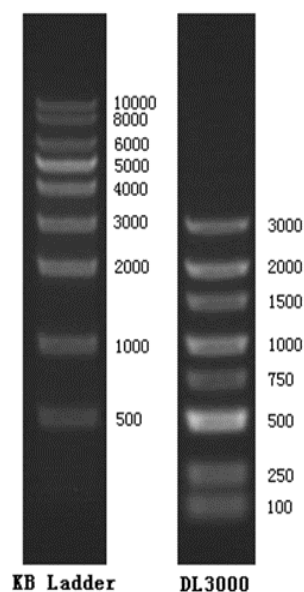
Enzyme Digestion



Lane M: KB Ladder
Lane 1: OHU14319D plasmid
Lane 2: OHU14319D plasmid digested
by NdeI

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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ATGCAGCGAA GTATCATGTC ATTTTTCAC CCCAAGAAAG AGGGTAAAGC AAAGAAGCCT GAGAAGGAGG CATCCAATAG CAGCAGAGAG ACGGAGCCCC
CTCCAAAGGC GGCACGAAG GAGTGAATG GAGTGGTGTC CGAGAGTGAC TCTCCGGTGA AGAGGCCAGG GAGGAAGGCG GCCCGGGTCC TGGGCAGCGA
AGGGGAAGAG GAGGATGAAG CCCTTAGCCC TGCTAAAGGC CAGAAGCCTG CCCTGGACTG CTCACAGGTC TCCCCGCCCC GTCCTGCCAC ATCTCCTGAG
AACAATGCTT CCCTCTCTGA CACCTCTCCC ATGGACAGTT CCCCATCAGG GATTCCGAAG CGTCGCACAG CTCGGAAGCA GCTCCCGAAA CGGACCATTC
AGGAAGTCCT GGAAGAGCAG AGTGAGGACG AGGACAGAGA AGCCAAGAGG AAGAAGGAGG AGGAAGAAGA GGAGACCCCG AAAGAAAGCC TCACAGAGGC
TGAAGTGGCC ACAGAGAAGG AAGGAGAAGA CGGGGACCAG CCCACCACGC CTCCCAAGCC CTTAAAGACC TCCAAAGCAG AGACCCCGAC GGAAAGCGTT
TCAGAGCCTG AGGTGGCCAC GAAGCAGGAA CTGCAGGAGG AGGAAGAGCA GACCAAGCCT CCCCGCAGAG CTCCTCAAGAC GCTCAGCAGC TTCTTCACCC
CCCGGAAGCC AGCAGTCAAA AAAGAAGTGA AGGAAGAGGA GCCAGGGGCT CCAGGAAAGG AGGGAGCTGC TGAGGGACCC CTGGATCCAT CTGGTTACAA
TCCTGCCAAG AACAACTATC ATCCCGTGGA AGATGCCTGC TGGAAACCGG GCCAGAAGGT TCCTTACCTG GCTGTGGCCC GGACGTTTGA GAAGATCGAG
GAGGTGTCTG CTCGGCTCCG GATGGTGGAG ACGCTGAGCA ACTTGCTGCG CTCCGTGGTG GCCCTGTCGC CTCCAGACCT CCTCCCTGTC CTCTACCTCA
GCCTCAACCA CCTTGGGCCA CCCCAGCAGG GCCTGGAGCT TGGCGTGCGT GATGTTGTCC TTCTCAAGGC AGTGGCCAG GCCACAGGTC GGCAGCTGGA
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GCCGCCACTC AGAAGCCCGG TTCATCGCTA GGTCCTGAG CGGACGGCTG CGCCTTGGGC TGGCAGAGCA GTCGGTGTCT GCTGCCCTCT CCCAGGCAGT
GAGCCTCAGC CCCCCGGGCC AAGAATTCCC ACCAGCCATG GTGGATGCTG GGAAGGGCAA GACAGCAGAG GCCAGAAAGA CGTGGCTGGA GGAGCAAGGC
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TGAGCCAGG GATTCCCCTG AAACCAATGT TGGCCCATCC CACCCGGGGC ATCAGCGAGG TCCTGAAACG CTTTGAGGAG GCAGCTTTCA CTGCGAATA
CAAATATGAC GGGCAGAGGG CACAGATCCA CGCCTGGAA GGGCGGGAGG TGAAGATCTT CAGCAGGAAT CAGGAAGACA AACTTGGGAA GTACCCGGAC
ATCATCAGCC GCATCCCCAA GATTAAACTC CCATCGGTCA CATCCTTCAT CCTGGACACC GAAGCCGTGG CTTGGGACCG GGAAGAAGAAG CAGATCCAGC
CATTCCAAGT GCTCACCACC CGCAAACGCA AGGAGGTGGA TGGCTCTGAG ATCCAGGTGC AGGTGTGTTT GTACGCCTTC GACCTCATCT ACCTCAATGG
AGAGTCCCTG GTACGTGAGC CCCTTTCCCG GCGCCGGCAG CTGCTCCGGG AGAAGTTTGT GGAGACAGAG GCGGAGTTTG TCTTCGCCAC CTCCCTGGAC
ACCAAGGACA TCGAGCAGAT CGCCGAGTTC CTGGAGCAGT CAGTGAAAGA CTCCTGCGAG GGGCTGATGG TGAAGACCCT GGATGTTGAT GCCACCTACG
AGATCGCCAA GAGATCGCAC AACTGGCTCA AGCTGAAGAA GGACTACCTT GATGGCGTGG GTGACACCCT GGACCTGGTG GTGATCGGCG CCTACCTGGG
CCGGGGGAAG CGGGCCGGCC GGTACGGGGG CTTCTCTGCT GCCTCCTACG ACGAGGACAG TGAGGAGCTG CAGGCCATAT GCAAGCTTGG AACTGGCTTC
AGTGATGAGG AGCTGGAGGA GCATCACCAG AGCCTCAAGG CGCTGGTGCT GCCCAGCCCA CGCCCTTACG TGCGGATAGA TGGCGCTGTG ATTCCCAGCC
ACTGGCTGGA CCCCAGCGCT GTGTGGGAGG TGAAGTGCGC TGACCTCTCC CTCTCTCCCA TCTACCCTGC TGGCGGGGGC CTGGTGGATA GTGACAAGGG
CATCTCCCTT CGCTTCCCTC GGTTTATTCT AGTCCGTGAA GACAAGCAGC CGGAGCAGGC CACCACCACT GCTCAGGTGG CCTGTTTGTA CCGGAAGCAA
AGTCAGATTC AGAACCAACA AGGCGAGGAC TCAGGCTCTG ACCCTGAAGA TACCTAC

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