

Certificate of Analysis

Product ID: OHu25897D Lot. No.: 740024-1641/C75500

Product Information:

Gene Symbol: KCNA1 Accession No.: NM_000217

Cloning Vector: pcDNA3.1⁺/C-(K)DYK Gene Length*: 1488 bp

Cloning Strategy: CloneEZ Plasmid size: 6878 bp

Antibiotic resistance: Ampicillin, recommended concentration: 50µg/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: 12/15/2015

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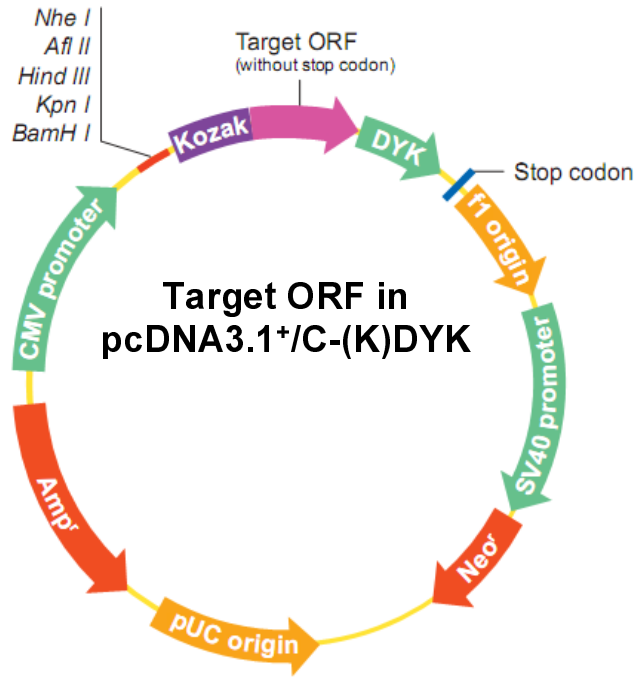
Fax: 1-732-210-0262

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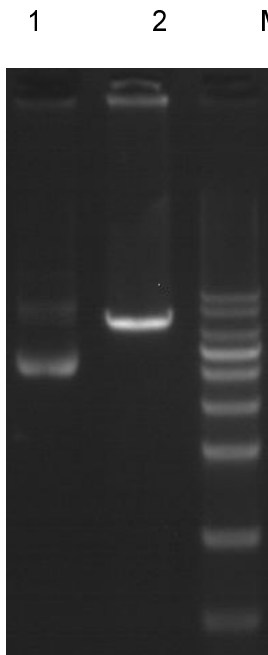
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Plasmid Construct Map

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

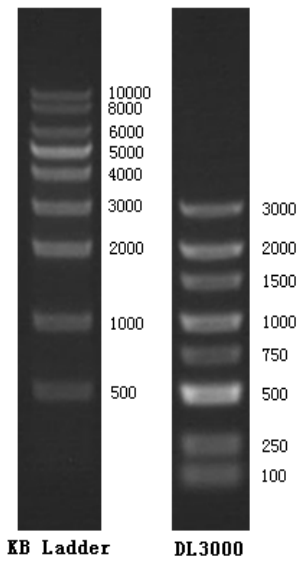


Enzyme Digestion



Lane M: KB Ladder
Lane 1: OHu25897D plasmid
Lane 2: OHu25897D plasmid digested by MluI

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



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

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ATGACGGTGA TGTCTGGGGA GAACGTGGAC GAGGCTTCGG CCGCCCCGGG CCACCCCAG GATGGCAGCT ACCCCCAGCA GGCCGACCAC GACGACCAG
AGTGCTGCGA GCGCGTGGTG ATCAACATCT CCGGGCTGCG CTTCGAGAGC CAGCTCAAGA CCCTGGCGCA GTTCCCCAAC ACGTGCTGG GCAACCCTAA
GAAACGCATG CGCTACTTCG ACCCCCTGAG GAACGAGTAC TTCTTCGACC GCAACCGGCC CAGCTTCGAC GCCATCCTCT ACTACTACCA GTCCGGCGGC
CGCCTGCGGA GGCCGGTCAA CGTGCCCTG GACATGTTCT CCGAGGAGAT CAAGTTTAC GAGTTGGGCG AGGAGGCCAT GGAGAAGTTC CGGGAGGACG
AGGGCTTCAT CAAGGAGGAG GAGCGCCCTC TGCCCGAGAA GGAGTACCAG CGCCAGGTGT GGCTGCTCTT CGAGTACCCC GAGAGCTCGG GGCCCGCCAG
GGTCATCGCC ATCGTCTCCG TCATGGTCAT CCTCATCTCC ATCGTCATCT TTTGCCTGGA GACGCTCCCC GAGCTGAAGG ATGACAAGGA CTTCACGGGC
ACCGTCCACC GCATCGACAA CACCACGGTC ATCTACAATT CCAACATCTT CACAGACCCC TTCTTCATCG TGGAAAACGCT GTGTATCATC TGTTTCTCCT
TCGAGCTGGT GGTGCGCTTC TTCGCCTGCC CCAGCAAGAC GGACTTCTT AAAAACATCA TGAACCTCAT AGACATTGTG GCCATCATC CTATTTCAT
CACGCTGGG ACCGAGATAG CTGAGCAGGA AGGAAACCAG AAGGGCGAGC AGGCCACCTC CCTGGCCATC CTCAGGGTCA TCCGTTGGT AAGGGTTTTT
AGAATCTTCA AGCTCTCCCG CCACTCTAAG GGCCTCCAGA TCCTGGGCCA GACCCTCAA GCTAGTATGA GAGAGCTAGG GCTGCTCATC TTTTCTCT
TCATCGGGT CATCCTGTTT TCTAGTGAG TGTACTTTGC CGAGGCGGAA GAAGCTGAGT CGCACTTCTC CAGTATCCCC GATGCTTTCT GGTGGGCGGT
GGTGTCCATG ACCACTGTAG GATACGGTGA CATGTACCCT GTGACAATTG GAGGCAAGAT CGTGGGCTCC TTGTGTGCCA TCGCTGGTGT GCTAACAAAT
GCCCTGCCG TACCTGTAT TGTGTCCAAT TTCAACTATT TCTACCACCG AGAACTGAG GGGGAAGAGC AGGCTCAGTT GCTCCACGTC AGTCCCCTA
ACTTAGCCTC TGACAGTGAC CTCAGTCGCC GCAGTTCCTC TACTATGAGC AAGTCTGAGT ACATGGAGAT CGAAGAGGAT ATGAATAATA GCATAGCCCA
TTATAGACAG GTCAATATCA GAACTGCCAA TTGCACCACT GCTAACCAA ACTGCGTTAA TAAGAGCAAG CTAAGTACCG ATGTTTAA
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