

# Certificate of Analysis

Product ID: OHu09638D Lot. No.: 817239732-1/F67361

Product Information:

Gene Symbol: KPNA2 Accession No.: NM\_002266

Cloning Vector: pcDNA3.1<sup>+</sup>/C-(K)DYK Gene Length\*: 1590 bp

Cloning Strategy: CloneEZ Plasmid Size: 6980 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

Thank you for your patronage to our Gene services! To maintain this working relationship, we shall be grateful if you can add our webpage URL into your lab website. As a token of appreciation, you will be rewarded by 1,000 EZcoupon™ points. For more information, please contact us by e-mail at [web@genscript.com](mailto:web@genscript.com).

For research use only

860 Centennial Ave., Piscataway, NJ 08854, USA

Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188

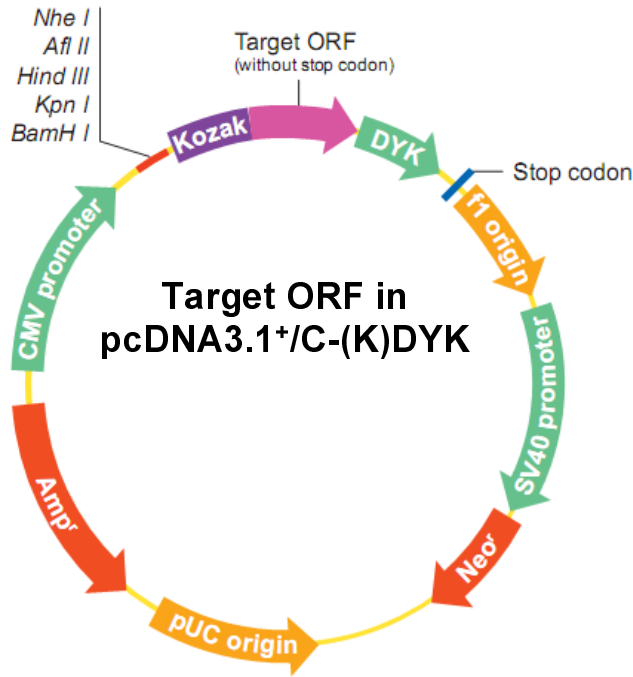
Fax: 1-732-210-0262

Email: [order@genscript.com](mailto:order@genscript.com)

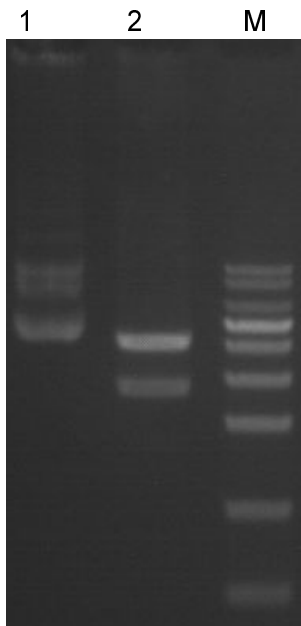
Web: [www.genscript.com](http://www.genscript.com)

Plasmid Construct Map

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

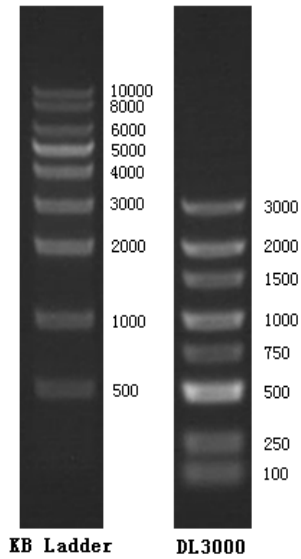


Enzyme Digestion



Lane M: KB Ladder  
Lane 1: OHu09638D plasmid  
Lane 2: OHu09638D plasmid digested by PstI

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



For research use only

860 Centennial Ave., Piscataway, NJ 08854, USA

## Attachment 2

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

```
ATGTCCACCA ACGAGAATGC TAATACACCA GCTGCCCGTC TTCACAGATT CAAGAACAAG GAAAAAGACA GTACAGAAAT GAGGCGTCGC AGAATAGAGG
TCAATGTGGA GCTGAGGAAA GCTAAGAAGG ATGACCAGAT GCTGAAGAGG AGAAATGTAA GCTCATTTC TGATGATGCT ACTTCTCCGC TGCAGGAAAA
CCGCAACAAC CAGGGCACTG TAAATTGGTC TGTGATGAC ATTGTCAAAG GCATAAATAG CAGCAATGTG GAAATCAGC TCCAAGCTAC TCAAGCTGCC
AGGAAACTAC TTTCCAGAGA AAAACAGCCC CCCATAGACA ACATAATCCG GGCTGGTTG ATTCCGAAAT TTGTGTCCTT CTTGGGCAGA ACTGATTGTA
GTCCCATTC A GTTTGAATCT GCTTGGGCAC TACTAACAT TGCTTCTGGG ACATCAGAAC AAACCAAGGC TGTGGTAGAT GGAGGTGCCA TCCCAGCATT
CATTTCTCTG TTGGCATCTC CCCATGCTCA CATCAGTGAA CAAGCTGTCT GGGCTCTAGG AAACATTGCA GGTGATGGCT CAGTGTTCAG AGACTTGTTT
ATTAAGTACG GTGCAGTTGA CCCACTGTTG GCTCTCCTTG CAGTTCCTGA TATGTCATCT TTAGCATGTG GCTACTTACG TAATCTTACC TGGACACTTT
CTAATCTTTG CCGCAACAAG AATCCTGCAC CCCCAGTACA TGCTGTTGAG CAGATTCTTC CTACCTTAGT TCGGCTCCTG CATCATGATG ATCCAGAAGT
ATTAGCAGAT ACCTGCTGGG CTATTTCTTA CCTACTGAT GGTCCAAATG AACGAATGG CATGGTGGTG AAAACAGGAG TTGTGCCCA ACTTGTGAAG
CTTCTAGGAG CTTCTGAATT GCCAATTGTG ACTCCTGCCC TAAGAGCCAT AGGGAATATT GTCACTGGTA CAGATGAACA GACTCAGGTT GTGATTGATG
CAGGAGCACT CGCCGTCTTT CCCAGCCTGC TCACCAACCC CAAAATAAC ATTCAGAAGG AAGTACGTG GACAATGTCA AACATCACAG CCGGCCGCCA
GGACCAGATA CAGCAAGTTG TGAATCATGG ATTAGTCCCA TTCCTGTCA GTGTTCTCTC TAAGGCAGAT TTAAGACAC AAAAGGAAGC TGTGTGGGCC
GTGACCAACT ATACCAGTGG TGGAACAGTT GAACAGATTG TGTACCTTGT TCACTGTGGC ATAATAGAAC CGTTGATGAA CCTCTTAACT GCAAAAAGATA
CCAAGATTAT TCTGGTTATC CTGGATGCCA TTTCAAATAT CTTTCAGGCT GCTGAGAAAC TAGGTGAAAC TGAGAAACTT AGTATAATGA TTGAGAATG
TGGAGGCTTA GACAAAATTG AAGCTCTACA AAACCATGAA AATGAGTCTG TGTATAAGGC TTCGTTAAGC TTAATTGAGA AGTATTTCTC TGTAGAGGAA
GAGGAAGATC AAAACGTTGT ACCAGAAACT ACCTCTGAAG GCTACACTTT CCAAGTTCAG GATGGGGCTC CTGGGACCTT TAACTTTTAG
```

For research use only

860 Centennial Ave., Piscataway, NJ 08854, USA

Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188

Fax: 1-732-210-0262

Email: [order@genscript.com](mailto:order@genscript.com)Web: [www.genscript.com](http://www.genscript.com)