

# Certificate of Analysis

Product ID: OHu06582D Lot. No.: 740024-2159/G27935

Product Information:

Gene Symbol: RACGAP1 Accession No.: NM\_001126103

Cloning Vector: pcDNA3.1<sup>+</sup>/C-(K)DYK Gene Length\*: 1899 bp

Cloning Strategy: CloneEZ Plasmid size: 7289 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

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).

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Toll-Free: 1-877-436-7274

Tel: 1-732-885-9188

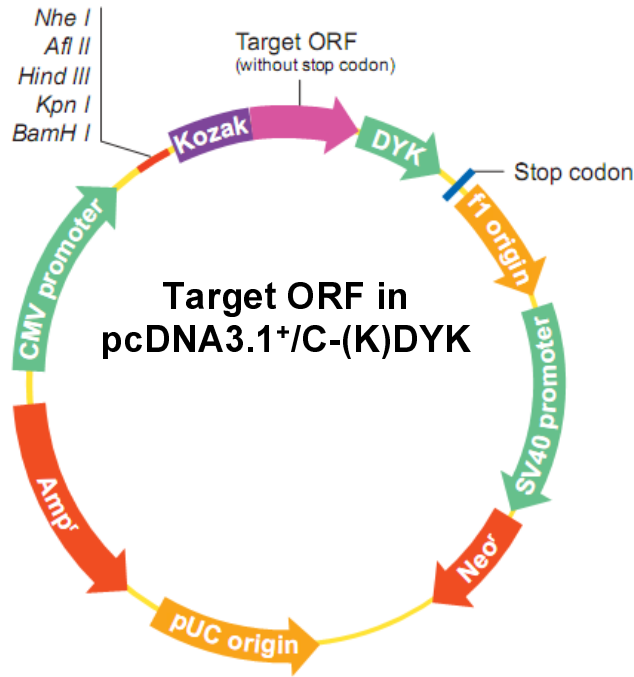
Fax: 1-732-210-0262

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

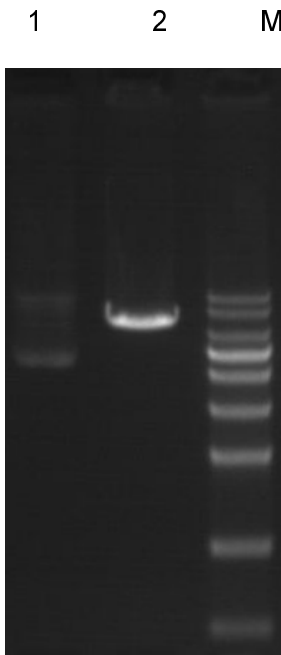
Web: [www.genscript.com](http://www.genscript.com)

**Plasmid Construct Map**

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

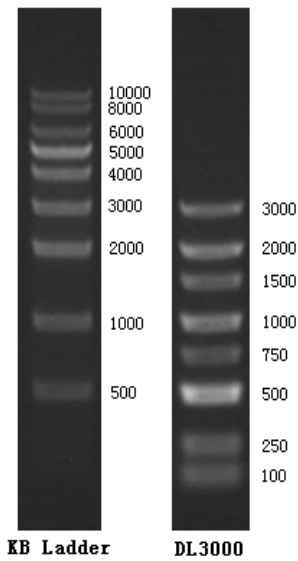


**Enzyme Digestion**



Lane M: KB Ladder  
Lane 1: OHu06582D plasmid  
Lane 2: OHu06582D 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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ATGGATACTA TGATGCTGAA TGTGCGGAAT CTGTTTGAGC AGCTTGTGCG CCGGGTGGAG ATTCTCAGTG AAGGAAATGA AGTCCAATTT ATCCAGTTGG
CGAAGGACTT TGAGGATTTC CGTAAAAAGT GGCAGAGGAC TGACCATGAG CTGGGGAAAT ACAAGGATCT TTTGATGAAA GCAGAGACTG AGCGAAGTGC
TCTGGATGTT AAGCTGAAGC ATGCACGTAA TCAGGTGGAT GTAGAGATCA AACGGAGACA GAGAGCTGAG GCTGACTGCG AAAAGCTGGA ACGACAGATT
CAGCTGATTC GAGAGATGCT CATGTGTGAC ACATCTGGCA GCATTCAACT AAGCGAGGAG CAAAAATCAG CTCTGGCTTT TCTCAACAGA GGCCAACCAT
CCAGCAGCAA TGCTGGGAAC AAAAGACTAT CAACCATTGA TGAATCTGGT TCCATTTTAT CAGATATCAG CTTTGACAAG ACTGATGAAT CACTGGATTG
GGACTCTTCT TTGGTGAAGA CTTTCAAACCT GAAGAAGAGA GAAAAGAGGC GCTCTACTAG CCGACAGTTT GTTGATGGTC CCCCTGGACC TGTAAAGAAA
ACTCGTTCCA TTGGCTCTGC AGTAGACCAG GGGAAATGAAT CCATAGTTGC AAAAACTACA GTGACTGTTC CCAATGATGG CGGGCCCATC GAAGCTGTGT
CCACTATTGA GACTGTGCCA TATTGGACCA GGAGCCGAG GAAAACAGGT ACTTTACAAC CTTGGAACAG TGAATCCACC CTGAACAGCA GGCAGCTGGA
GCCAAGAACT GAGACAGACA GTGTGGGCAC GCCACAGAGT AATGGAGGGA TGCGCCTGCA TGACTTTGTT TCTAAGACGG TTATTAACC TGAATCCTGT
GTTCCATGTG GAAAGCGGAT AAAATTGGC AAATTATCTC TGAAGTGTG AGACTGTGCT GTGGTCTCTC ATCCAGAAATG TCGGGACCGC TGTCCCTTC
CCTGCATTCC TACCCTGATA GGAACACCTG TCAAGATTGG AGAGGGAATG CTGGCAGACT TTGTGTCCCA GACTTCTCCA ATGATCCCCT CCATTGTGTG
GCATTGTGTA AATGAGATTG AGCAAAGAGG TCTGACTGAG ACAGGCCTGT ATAGGATCTC TGGCTGTGAC CGCACAGTAA AAGAGCTGAA AGAGAAATTC
CTCAGAGTGA AAAGTGTACC CCTCCTCAGC AAAGTGGATG ATATCCATGC TATCTGTAGC CTTCTAAAAG ACTTCTTCG AAACCTCAA GAACCTCTTC
TGACCTTTCG CCTTAACAGA GCCTTTATGG AAGCAGCAGA AATCACAGAT GAAGACAACA GCATAGCTGC CATGTACCAA GCTGTTGGTG AACTGCCCA
GGCCAAACAG GACACATTAG CTTTCCTCAT GATTCACTTG CAGAGAGTGG CTCAGAGTCC ACATACTAAA ATGGATGTTG CCAATCTGGC TAAAGTCTTT
GGCCCTACAA TAGTGGCCCA TGCTGTGCC AATCCAGACC CAGTGACAAT GTTACAGGAC ATCAAGCGTC AACCCAAGGT GGTGAGCGC CTGCTTTCCT
TGCCCTGGA GTATTGGAGT CAGTTCATGA TGGTGGAGCA AGAGAACATT GACCCCTAC ATGTCATTGA AAACCTCAA GCCTTTTCAA CACCACAGAC
ACCAGATATT AAAGTGTAGT TACTGGGACC TGTGACCACT CCTGAACATC AGCTTCTCAA GACTCCTTCA TCTAGTTCCC TGTACAGAG AGTCCGTTCC
ACCCTCACCA AGAACACTCC TAGATTGGG AGCAAAAGCA AGTCTGCCAC TAACCTAGGA CGACAAGGCA ACTTTTTTGC TTCTCCAATG CTCAAGTGA
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