

Product datasheet for **RR209746**

Rack1 (NM_130734) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rack1 (NM_130734) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rack1
Synonyms:	Gnb2l1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR209746 representing NM_130734 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGACCGAGCAAATGACCCTTCGTGGGACCCTCAAGGGCCATAATGGATGGGTACACAGATCGCCACCA
 CTCCGAGTTCCTCGGACATGATCCTGTCGGCGTCTCGAGACAAGACCATCATCATGTGGAAGCTGACCAG
 GGATGAGACCAACTACGGCATACCACAACGTGCTCTTCGAGGTCACCTCCACTTTGTTAGCGATGTTGTC
 ATCTCCTCTGATGGCCAGTTTGGCCTCTCAGGCTCCTGGGATGGAACCTACGCCTCTGGGATCTCACA
 CGGGCACTACCAGAGACGATTTGTCGGCCACACCAAGGATGTGCTGAGCGTGGCTTTCTCCTCTGACAA
 CCGGCAGATTGTCTCTGGGTCCCAGACAAGACCATTAAAGTTATGGAATACTCTGGGTGTCTGCAAGTAC
 ACTGTCCAGGATGAGAGTCATTGAGAATGGGTGTCTTGTGTCCGTTCTCCCCGAACAGCAGCAACCCCTA
 TCATCGTCTCCTGCGGATGGGACAAGCTGGTCAAGGTGTGGAATCTGGCTAACTGCAAGCTAAAGACCAA
 CCACATTGGCCACACTGGCTATCTGAACACAGTGAAGTGTCTCTCCAGATGGATCCCTCTGTGCTTCTGGA
 GGCAAGGATGGCCAGGCTATGCTGTGGGATCTCAATGAAGGCAAGCACCTTTACACATTAGATGGTGGAG
 ACATCATCAATGCCTTGTGCTTCAGCCCCAACCGCTACTGGCTCTGTGCTGCCACTGGCCCCAGTATCAA
 GATCTGGGACTTGGAGGGCAAGATCATTGTAGATGAAGTGAAGCAAGAGGTTATCAGCACCAGCAGCAAG
 GCAGAGCCACCCAGTGTACCTTTGGCTTGGTCTGCTGATGGCCAGACTCTGTTTGTGGCTATACCG
 ACAACTTGGTGCGTGTATGGCAGGTGACTATTGGTACCCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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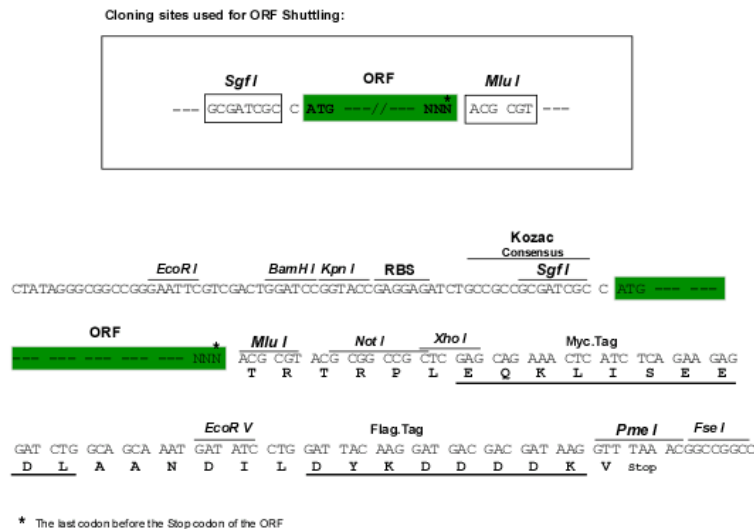
Protein Sequence: >RR209746 representing NM_130734
 Red=Cloning site Green=Tags(s)

MTEQMTLRGTLKGHNWVTQIATTPQFPDMILSASRDKTIIMWKLTRDETNYGIPQRALRGHSHFVSDV
 ISSDGGQFALSGSWDGTLRWLWDLTTGTTTRRFVGHDKDVLVAFSSDNQIVSGSRDKTIKLWNTLGVCY
 TVQDESHSEWVSCVRFSPNSSNP IIVSCGWDKLKVWNLANKLKTNHIGHTGYLNTVTVSPDGLCAGS
 GKDGQAMLWDLNEGKHL YTLDDGDIINALCFSPNRYWLCAATGPSIKIWDLEGKIIIVDELKQEVISTSSK
 AEPPQCTSLAWSADGQTLFAGYTDNLVRVWQVTIGTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130734

ORF Size: 951 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_130734.2](#), [NP_570090.2](#)

RefSeq Size: 1209 bp

RefSeq ORF: 954 bp

Locus ID: 83427

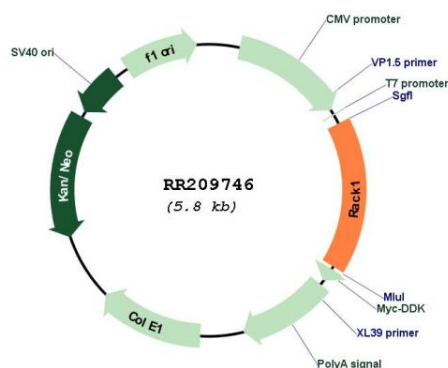
UniProt ID: [P63245](#)

Cytogenetics: 10q21

MW: 35.1 kDa

Gene Summary: may act as a receptor for activated protein kinase C [RGD, Feb 2006]

Product images:



Circular map for RR209746