

Product datasheet for MC222966

Rin3 (NM_177620) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rin3 (NM_177620) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rin3
Synonyms:	6430500K07; C86933
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222966 representing NM_177620 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGACGCGCCGAAGCGCCCTCGAGCGCCACCCTGCCGGTCTATTCCAGATGCTGGCAAAGGAGAGG
GAGAGGAAGATGAGGAGAAAGACGGCACGAGGCTTGGTCTGTCAACCACCCCGAGAACTGCATCCCACG
CCGGGGCATCAGTGTCTGGAGAAGCTGGTGAAGACCTGCCCTGTGTGGCTGCAGCTAGGCTAGGCCAG
GCAGAGGCTGCCAAGATCTGCAGCAGGAGATGGCTGGGATGTTCTGGTGTGCCGGACAACAACCTGA
AGCAATTGGTGTGTGTCCACTTCCCTTCCCTGAAGGGCAGCTCAGCTGAGGTGCTGGAGTACCCCAT
CAAAGAAGAAAAGGCTATACTGTACCTGGAAGGCTCAGTTCCTGTGTTTGAGGACATCTTCAGACTGATT
GCGTTCTACTGTGTGAGTACTTACTGCCCTTCACTCTACGGCTGCCCCAGGCCATCCTCGAAGCTA
GCAGCTTCTTGAAGTGTGAGACCTCAACCTGGGCCTGGGTTTCTGGGACTCCTCGTGAACCTCAAG
AGGCTCTGCAGAGCCACTCAGAAGCCAGCCCTGGGACCCCTGCATCCTCCAGCCTCCGGCCTACAACC
CATTACGCAAATTGTTCTGTGAAATCGAGCTCTCCGTGGGAAATGACCGCCTGTGGTTTGTGAATCCTA
TTTTCATCGAGGACTGCATCCTACCGGTGATCCACCTCCACTGCCTACTGGCAGTACCCTCCACGCC
TACGCTGCCACCCCGGATGCTACCTCACCCACCTCCAAGGGATCCCCACGTGCCCGCCACCTCCACCC
CGTTACCCACTGTTCTCTACTGGCCCTGCAGGCCCTTGTGCGCTCCTGTACCGCCTGCTGGCCCTT
TGCCCAACTCCCCCTAACGCCACCTCTCACCTTGACCCCATGCACCGGCCCCCTGGCCACTCAAA
CCAACCACCCATGACAGCCTGCGAGAGTCTCCCTCGCCAGCTGTAGGCTGGGCCCTTTGGAGAAGAA
GAGATGAAACCTGGGACAACCTCCAATCCCTTGACCAAGCCCTCCCCCTCATTACCCCTGAAGAAGG
CTTTCCAGCAGCCCTCCAGGAGGCGCATTCTGAGAGGTATCTCTGGAAAGCCAGAATGTGGGGAC
TTCAACAGACAGGGACCACTCAGGCATTCTAGGACAGCATCACTCAACCTTCTCCCCAGAGCACCGTA
AGTAGCCTTGGGGACAGGCTCCAAGGACCAGGAGCAAAGCCAGGACACAGAGGCCAAAGCCAGCCATG
CTGACAGCATACCAGTGCCTCCTGGGAAGGCCAAACAACCCCAAGTACCACCCCAAGGAAGAAGCGGT
CTCCCGCAGCTGGCCTCAACCTTCTCAGTCCCTTGAGAGCCCATACAGGAGCATCCTCTGAGAAA



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CAGGCGACTGGTGCATCTTGGGAAGGCTTGAGTCTGTCCGGCAAGCTGGCATGCAGCACCTCCAAGTTC
AGTCCAGCAGCTGTCCCAAAGCTCTCCAGAGTTCAAGGGTCCCAGGCCTCACTCTCAGACAGCCTGGG
GGTGCCTCGCTCGGCCGTGACCAGGACTCTACTCAACCAGCAGTGCAGAGGAGGAGCTGGAGTTCAGC
AGCCCCAACGTGAAGAAGAAACCCTCAATGATCCTGGACAAGGCCGCCACCGCCTCAGTTCGTGAGT
TCGCCAGCGTCTCCATGCCTTCTCTCCAGCGACCGCAAAGTGTATAAGAAGGTGGTGGAGCTGGCACA
GGACAAGAGCTCCTACTTCGGCAGCCTGGTGCAGGACTACAAGGTGTACAGCCTGGAGATGATGGCCCCG
CAGACATCCAGCACTGAGATGCTGCAGGAGATCCGTACCATGATGACCCAGCTCAAGAGCTACCTGCTAC
AGAGCACTGAACTCAAAGCCTTGGTGGAACCCACCCTGCACTCGGAGGAGGAACTCGAGGCCATAGTGGA
GTCAGCCTTGTACAAGTGTGTCTTGAAGCCCCTGAAGGAGGCCATCAACTCCAGCCTGCTGGAGATCCAC
AGCCGGGATGGCTCACTGCAGCAGCTCAAGGAGAACCAGCTAGTGGTCTGGCCACCACCACCACCAGCC
TGGGTGTGACCACCAGCGTGCCTGAGGTGGCTGTCATGGAGAAGATCCTGCAGAAGCTGACCAGCATGCA
CAAAGCCTACTCACCAGGGAAGAAAATCTCCATCTTGCTGAAGACCTGCAAGCTCATCTATGACTCCATG
GCTCTTGGCAACCCAGGGAAGCCCTACGGGGCCGACGACTTCTGCCTGTGCTCATGTACGTGCTGGCCC
GCAGAACCTCACTGAGATGCTCCTCAACGTGGAGTACATGATGGAGCTCATGGACCCCGCCTGCAGTT
AGGAGAGGGTTCTACTATCTGACCACCACCTACGGAGCCCTGGAGCACATTAATAAACTATGACAAGATC
ACAGTGACCCGACAGCTGAGCGTGGAGGTGCAGGACTCCATCCATCGCTGGGAACGAGGCGCACGCTCA
ACAAAGCGCGGGCCTCCCGCTCCTGTGCAGGACTTCATCTGTGTGTCCTACCTGAAGCCCAGAGCAGCA
GTCACGGACACTGGCGTACGGGCAGACACAGCAGCCAGGCACTGTGTGCACAGTGCAGTGGAGAGTTT
GAGGTGTACAGCCCCAAGACTACCGGCTCTTCTGTGCTGGTGGACGGGCGCTGCTTCCAGCTGGCCGACG
AGGCTCTGCCGCATCGCATCAAGGGTTATCTGCTTCGGAGCGAGCCAAACGAGACTTCCACTTCGTGTA
CCGGCCCCAGGACAGCGGCAAGGATGCTTCAAGCCAGCCCTGTATAGTAGTGCGGGAACCCAACTTCTTA
TAA
    
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
    
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Restriction Sites:

SgfI-MluI

ACCN:

NM_177620

Insert Size:

2943 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_177620.4](#), [NP_808288.2](#)

RefSeq Size: 3880 bp

RefSeq ORF: 2943 bp

Locus ID: 217835

UniProt ID: [P59729](#)

Cytogenetics: 12 E

Gene Summary: Ras effector protein that functions as a guanine nucleotide exchange (GEF) for RAB5B and RAB31, by exchanging bound GDP for free GTP. Required for normal RAB31 function (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).