

Product datasheet for **MC222486**

Rin3 (NM_001161365) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rin3 (NM_001161365) 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)



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Fully Sequenced ORF: >MC222486 representing NM_001161365
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGGGATGTTCTGGTGTGCCGGGACAACAACCTGAAGCAATTGGTGTGTGTCCACTTCCCTT
 CCCTGAAGGGCAGCTCAGCTGAGGTGCTGGAGTACCCCATCAAAGAAGAAAAGGCTATACTGTACCTGGA
 AGGCTCAGTTCTTGTTTGAGGACATCTTCAGACTGATTGCGTTCTACTGTGTCAGTAGAGACTTACTG
 CCCTTCACTCTACGGCTGCCCCAGGCCATCCTCGAAGCTAGCAGCTTCCCTGAACTTGAGACCATCTCCA
 ACCTGGGCTGGGTTTCTGGGACTCCTCGTGAAGTCAAGAGGCTCTGCAGAGCCACTCAGAAGCCAGC
 CCCTGGGACCCCTGCATCCTCCAGCCTCCGGCCTACAACCCATTACGCAAATTGTTCTGTGAAATCGAG
 CTCTCCGTGGGAAATGACCGCTGTGGTTTGTGAATCCTATTTTCATCGAGGACTGCATCCTACCGGCTG
 ATCCACCTCCACTGCCTACTGGCAGCTACCTCCAGCCCTACGCTGCCACCCCGGATGCTACCTCACC
 CACCTCAAGGGATCCCCAGTCCGCCCCACCTCCACCCCGTTACCCACTGTTCTCTACTGGCCCT
 GCACGGCCTCTTGCGCCTCCTGTACCGCCTGTGGCCCTTTGCCAACTCCCCCTAACGCCACCTCTC
 ACCTTGACACCCATGCACCGGGCCCCCTGGCCACTCAAACCAACCACCCATGACAGCCTGCGAGAGTCT
 CCCTCGCCAGCTGTAGGCTGGGCCCTTTGGAGAAGAAGAGATGAAACCTGGGACAACCTCCCAATCCC
 TTGACCAAGCCCTCCCCCTCCATTACCCCTGAAGAAGGCTCTTCCAGCAGCCCTCCCAGGAGGCGCA
 TTTCTGAGAGGGTATCTCTGAAAGCCAGAATGTGGGGACTTCAACAGACAGGGACCCTCAGGCATTTT
 TAGGACAGCATCACTCAACCTTCTCCAGAGCACCCTAAGTAGCCTGGGGACAGGCCCTCAAGGACC
 ACGGACAAAGCCAGGACACAGAGGCCAAAGCCAGCCATGCTGACAGCATAACAGTGCCTCTGGGAGG
 CCAAACAACCCCACTACCACCCCAAGGAAGAAGCGGGTCTCCGCGAGCTGGCCTCAACCTTCTCAG
 TCCCTTGAGAGGCCCATACAGGAGGCATCCTCTGAGAAACAGGCGACTGGTGCATCTTGGGAAGGCTTG
 AGTCTGTCCGGCAAGCTGGCATGCAGCACCTCCAAGTTCAGTCCAGCAGCTGTCCCAAAGCTCTCCAG
 AGTTCAAGGGTCCAGGCCTCACTCTCAGACAGCCTGGGGTGCCTGCCTCGGCCGCTGACCAGGACTC
 TCACTCAACCAGCAGTGCAGAGGAGGAGCTGGAGTTCAGCAGCCCAACGTGAAGAAGAAACCTCAATG
 ATCCTGGACAAGGCCCGCCACCGCCTCAGCTTCGTGAGCTTCGCCAGCCTTCCATGCCTTCTCTCCA
 GCGACCGCAAAGTGTATAAGAAGGTGGTGGAGCTGGCACAGGACAAGAGCTCCTACTTCCGAGCCTGGT
 GCAGGACTACAAGGTGTACAGCCTGGAGATGATGGCCCGCAGACATCCAGCACTGAGATGCTGCAGGAG
 ATCCGTACCATGATGACCAGCTCAAGAGCTACCTGCTACAGAGCACTGAACTCAAAGCCTTGGTGGAA
 CCAACCTGCACTCGGAGGAGGAACTCGAGGCCATAGTGGAGTCAAGCTTGTACAAGTGTGTCTTGAAGC
 CCTGAAGGAGGCCATCACTCCAGCCTGCTGGAGATCCACAGCCGGGATGGCTCACTGCAGCAGCTCAAG
 GAGAACCAGCTAGTGGTCTGGCCACCACCACCACCGACCTGGGTGTGACCACCAGCGTGCCTGAGGTGG
 CTGTGATGGAGAAGATCCTGCAGAAGCTGACCAGCATGCACAAAGCCTACTCACCAGGGAAGAAAATCTC
 CATCTTGTGAAGACCTGCAAGCTCATCTATGACTCCATGGCTCTTGGCAACCCAGGGAAGCCCTACGGG
 GCCGACGACTTCTGCCTGTGCTCATGTACGTGCTGGCCCGCAGCAACCTCACTGAGATGCTCCTCAAG
 TGGAGTACATGATGGAGCTCATGGACCCCGCCCTGCAGTTAGGAGAGGGTCTACTATCTGACCACCAC
 CTACGGAGCCCTGGAGCACATTAATAAACTATGACAAGATCACAGTACAGTACAGTACAGTACAGTACAGT
 CAGGACTCCATCCATCGCTGGGAACGCAGGCGCAGCTCAACAAAGCGCGGCCCTCCCGCTCCTCTGTGC
 AGGACTTCATCTGTGTCTTACCTGAAGCCCGAGCAGCAGTACAGGACTGCGGCTCACGGGACAGAC
 AGCAGCCAGGCACTGTGTGCACAGTGCCTGAGAAGTTTGGAGTGTACAGCCCAAGACTACCGGCTC
 TTCGTGCTGGTGGACGGGCGCTGCTTCCAGCTGGCCGACGAGGCTCTGCCGATCGCATCAAGGTTATC
 TGCTTCGGAGCGAGCCAAACGAGACTTCCACTTCGTGTACCGGCCCCAGGACAGCGGCAAGGATGCTTC
 AAGCCAGCCCTGTATAGTAGTGCGGGAACCAACTTCTA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001161365

Insert Size:	2703 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_001161365.1</u> , <u>NP_001154837.1</u>
RefSeq Size:	3754 bp
RefSeq ORF:	2703 bp
Locus ID:	217835
Cytogenetics:	12 E
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding region, and initiates translation at a downstream AUG compared to variant 1. The resulting protein (isoform 2) has a shorter N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>