

Product datasheet for **MG221411**

Rin3 (NM_001161365) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rin3 (NM_001161365) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rin3
Synonyms:	6430500K07; C86933
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG221411 representing NM_001161365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGACGCGCCGAAGCGCCCTCGAGCGCCACCCTGCCGGTCTATTCCAGATGCTGGCAAAGGAGAGG
 GAGAGGAAGATGAGGAGAAAGACGGCACGAGGCTTGGTCTGTCAACCACCCGAGGAACTGCATCCACG
 CCGGGGCATCAGTGTCTGGAGAAGCTGGTGAAGACCTGCCCTGTGTGGTGCAGCTAGGGCTAGGCCAG
 GCAGAGGCTGCCAAGATCCTGCAGCAGGAGATGGCTGGGATGTTCTGGTGTGCCGGGACAACAACCTGA
 AGCAATTGGTGTGTGTCCACTTCCCTTCCCTGAAGGGCAGCTCAGCTGAGGTGCTGGAGTACCCCAT
 CAAAGAAGAAAAGGCTATACTGTACCTGGAAGGCTCAGTCTTGTGTTTGAGGACATCTTCAGACTGATT
 GCGTTCTACTGTGCAGTAGAGACTTACTGCCCTTCACTCTACGGCTGCCACAGCCATCCTCGAAGCTA
 GCAGCTTCTTGAAGTGGAGACCATCTCAACCTGGGCTGGGTTTCTGGGACTCCTCGTGAACCTAAG
 AGGCTCTGCAGAGCCACTCAGAAGCCAGCCCTGGGACCCTGCATCCTCCAGCCTCCGGCCTACAACC
 CATTACGCAAATTGTTCCCTGTGAAATCGAGCTCTCCGTGGGAAATGACCCGCTGTGGTTTGTGAATCCTA
 TTTTCATCGAGGACTGCATCCTACCGGCTGATCCACCTCCACTGCCTACTGGCAGCTACCCCTCCACGCC
 TACGCCTGCCACCCCGGATGCTACCTCACCCACCTCCAAGGGATCCACAGTCCGCCCCACCTCCACCC
 CCGTTACCCACTGTTCTCCTACTGGCCCTGCACGGCCTCTTGCGCCCTGTACCGCCTGCTGGCCCTT
 TGCCCAACTCCCCCTAACGCCACCTCTACCTTGCACCCATGCACGGGGCCCCCTGGCCACTCAA
 CCAACCACCATGACAGCCTGCGAGAGTCTCCCTCGCCAGCTGTAGGCTGGGCCCTTTGGAGAAGAA
 GAGATGAAACCTGGGACAACCTCCAATCCCTTGACCAAGCCCTCCCCCTCCATTACCCCTGAAGAAGG
 CTTCTCCAGCAGCCCTCCAGGAGGCGCATTCTGAGAGGGTATCTCTGGAAAGCCAGAATGTGGGGAG
 TTCAACAGACAGGACCCTCAGGCATTTCTAGGACAGCATCACTCAACCTTCTCCCCAGAGCACCGTA
 AGTAGCCTTGGGACAGGCTCCAAGGACCACGGAGCAAAGCCAGGACACAGAGGCCAAAGCCAGCCATG
 CTGACAGCATACCAGTGCCTCCTGGGAAGGCCAAACAACCCCAAGTACCACCCCAAGGAAGAAGCGGT
 CTCCCGGAGCTGGCCTCAACCTTCTCAGTCCCTTGGAGAGCCCATACAGGAGGCATCCTCTGAGAAA
 CAGGCGACTGGTGCATCTTGGGAAGGCTTGTAGTCTGTCCGGCAAGCTGGCATGCAGCACCTCAAGTTC
 AGTCCAGCAGCTGTCCCAAGCTCTCCAGAGTCAAGGGTCCAGGCCTCACTCTCAGACAGCCTGGG
 GGTGCCTCGCCGCTGACCAGGACTCCTACTCAACCAGCAGTGCAGAGGAGGAGCTGGAGTTCAGC
 AGCCCCAAGTGAAGAAGAAACCTCAATGATCCTGGACAAGGCCGCCACCGCCTCAGTTCGTACGCT
 TCGCCAGCGTCTCCATGCCTTCTCTCCAGCAGCCGAAACTGTATAAGAAGGTGGTGGAGCTGGCACA
 GGACAAGAGCTCCTACTTCGGCAGCCTGGTGCAGGACTACAAGGTGTACAGCCTGGAGATGATGGCCCGC
 CAGACATCCAGCACTGAGATGCTGCAGGAGATCCGTACCATGATGACCCAGCTCAAGAGCTACCTGCTAC
 AGAGCACTGAACTCAAAGCCTTGGTGGAAACCCACCTGCACTCGGAGGAGGAACTCGAGGCCATAGTGG
 GTCAGCCTTGTACAAGTGTGTCTTGAAGCCCTGAAGGAGGCCATCAACTCCAGCCTGCTGGAGATCCAC
 AGCCGGGATGGTCACTGCAGCAGCTCAAGGAGAACCAGTGTGGTCTGGCCACCACCACCACCGACC
 TGGGTGTGACCACCAGCGTGCCTGAGGTGGCTGTATGGAGAAGATCCTGCAGAAGCTGACCAGCATGCA
 CAAAGCCTACTCACCAGGGAAGAAAATCTCCATCTTGTGAAGACCTGCAAGCTCATCTATGACTCCATG
 GCTCTTGGCAACCCAGGGAAGCCCTACGGGCGGACGACTTCTGCCTGTGCTCATGTACGTGCTGGCCC
 GCAGCAACCTCACTGAGATGCTCCTCAACGTGGAGTACATGATGGAGCTCATGGACCCCGCCCTGCAGTT
 AGGAGAGGGTCTACTACTCTGACCACCACCTACGGAGCCCTGGAGCACATTAATAACTATGACAAGATC
 ACAGTGACCCGACAGCTGAGCGTGGAGGTGCAGGACTCCATCCATCGCTGGGAACGCAGGCGCACGCTCA
 ACAAGCGCGGGCCTCCCGCTCCTGTGCAGGACTTCACTGTGTGCTCCTACCTGAAGCCCGAGCAGCA
 GTCACGGACACTGGCGTACGGGCAGACACAGCAGCCAGGCACTGTGTGCACAGTGCCTGAGAAGTTT
 GAGGTGTACAGCCCAAGACTACCGGCTTCTCGTGTGGTGGACGGGCGCTGCTCCAGCTGGCCGACG
 AGGCTCTGCCGATCGCATCAAGGGTATCTGCTTCCGAGCGAGCCAAACGAGACTTCCACTTCGTGTA
 CCGGCCCCAGGACAGCGCAAGGATGCTTCAAGCCAGCCCTGTATAGTAGTGCGGGAACCCAACTCCTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG221411 representing NM_001161365
 Red=Cloning site Green=Tags(s)

```

MRRAEAPSSAHPAGPIPDAKGEGEEDKDGTRLGLSTTPRNCIPRRGISVLEKLVKTCPVWLQLGLGQ
AEAAILQQEMAGMFLVCRDNNLKQLVLCVHFPVSLKGSSEAEVLEYPIKEEKAILYLEGSLVFEDIFRLI
AFYCVSRDLLPFTLRLPQAILEASSFLELETISNGLGFWSSLSNRGSAEPLRSPAPGTPASSSLRPTT
HYANCSCIEISVGNDRLWFVNPFI FIEDCILPADPPPLPTGSPYPRPTPATPDATSPTSKGSPRRPPPP
PLPTVPPTGPARPLAPPVPPAGPLPNSPLTPTSHLAPHAGPPGHSNQPPMTACESLPRPAVGLGPFGE
EMKPGTTPNPLHQAPPPPLPKKALPAAPRRRISERVLESQNVGTSTDRDHSGISRTASLNLPPQSTV
SSLGDRPRTTEQSQDTEAKASHADSI PVPPGKAKQPPVPPRKRVSRLASTLLSPLESPIQEASSEK
QATGASWEGLSPVYRQAGMQHLVQSSSCPQSSPEFKGSQASLSDSLGVPASAADQDSYSTSSAEELFS
SPNVKKKPSMILDKARHLSFVSFASVFHAFVSSDRKLYKKVVELAQDKSSYFGLVQDYKVSLEMMAR
QTSSTEMLQEIRTMMLQLKSYLLQSTELKALVEPTLHSEEELEAIVESALYKCVLKPLKEAINSSLEIH
SRDGLSQQLKENQLVVLATTTDLGVTTTSVPEVAVMEKILQKLTSMHKAYSPGKKISILLKTCCKLIYDSM
ALGNPGKPYGADDFLPVLMYVLARSNLTEMLLNVEYMMELMDPALQLGEGSYLTTTYGALEHIKNYDKI
TVTRQLSVEVQDSIHRWERRRTL NKARASRSSVQDFICVSYLKPEQQSRTLASRADTAAQALCAQCAEK
EVSQPQDYRLFVLVDGRCFQLADEALPHRIKGYLLRSEPKRDFHFVYRPQDSGKDASSQPCIVVREPNFL
  
```

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

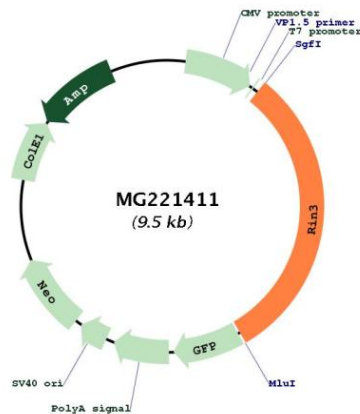


ACCN: NM_001161365

ORF Size: 2700 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:	<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, NP_001154837.1</u>
RefSeq Size:	3754 bp
RefSeq ORF:	2703 bp
Locus ID:	217835
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]

Product images:



Circular map for MG221411