

Product datasheet for **MG218974**

Rinl (NM_177158) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rinl (NM_177158) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rinl
Synonyms:	5830482F20Rik; 9930116N10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG218974 representing NM_177158
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGAGGCTAGCCAGCCGACATGGTGTCTGCAGCCCCTACTGAAGTGGACAGGCTGGTTTGCCACTAG
 CGGATGGAGCAGACAAGAGCCCACTAGGGGTCTCAGCACACAGAGCCACTTCTTCGACTGCAGAGGAC
 ACAGAGAGTGTGGGAGGTCCCCGAGCTGGATGCTCAGTATGCCAAGGCCTTTCTAGAGCTGTGGCCACTG
 GGGAGCTTCTGGTCATCGGACATGAGCCTGGCCAGGTCTGATGTTGAAGGCAGGACCTTCTTCAGGAG
 ATATCAACACCTATCAAATTCAGAGGTTTCTGGAGGTGTGTCCTGGAATCCTCCAACCTCTGCATGCC
 CGACTGTCCCATCTCTGGCCTTTCTGTCAGCCAGCAGGGACGTTTGGCAAGGACCCTGCTCTTGCCC
 ACGCCTACTGTGGGGCTGGAGATAATCACTCAGATCCCATCGGCTTGCTGCATCCAGGTGGACACCT
 CAGGGAGGTGCTGTCTGTAGTGAACAGCTCTACCTGGAGACACATGGAGGTGGGGAACAGAGACTCC
 ACAGCAAACAGAGCCAGAGACTGGACAGAAATACAGTCTAGCCCCAGGAAGCCACCCACACCGGGTC
 TCCTGGGTGGAAGACCCTTTGAGACCGGAAGCTACCATACTGGACAGGAAGTGCATCATCTGGAGCAG
 ACGCTCACTCCCTTGGGTGCGAAGTGCATTTTCTGTCTGCTCTAGAAGAGGAGGAAGTGAACAACGA
 CTGCTACAAAGATGAAGACGAGGAAGTTGCGAGGATATGCTCACTGCCACATCCGTGCTCTGGCCAGG
 ACCCGGAGCAGCTATGTAGCCAGGCAGTACCGATGCCTTCGGGCACGCCTCATCTCAGATTCTGGAATC
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 CCAAATCCGAACTCTCAGAGCCAGGAACACGACGACTGCGCAGGCGCAAATAGCCTTGAGGGTAGG
 AGCGGGGCTGAGGGACAGAGCCCGCCCTTGGGAACCGGAACCGTATCCACGCACGCCTTGCTCACTTG
 CATGCGCGTGCGCCCGCGCCGAAGGTGGCGCTGTTGCTGGCGGTGTGACGACGCTCTACGCGGGCC
 TAGGCGGTGGCGAGAATAAAGAGCCCTGGGGCTGACGCCTTTTACCTGCCCTGACCGAGGAGCTGAT
 CTGGAGTCCACATATTGGGGAACACAGCTGGATGTGGAGTTTCTTATGGAGCTCTTGGATCCAGGGGAG
 TTGCGAGGAGAAGCTGGGTATTATCTGACCACGTGGTTTGGGGCTCTCTACCACATTGCTCACTACCAGC
 CAGACTGGCGTGCACCCAGGGGCTCAGCTCCGAGGCCCGGGCTCCCTGCGCCAGTGGCATCGAAG
 ACGGACACTGCACAGCAAGCCAGCCACAGCCAGGCCAACCAGCCTTTGAGGAGCCATGGGAATA
 GGGGACCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG218974 representing NM_177158
 Red=Cloning site Green=Tags(s)

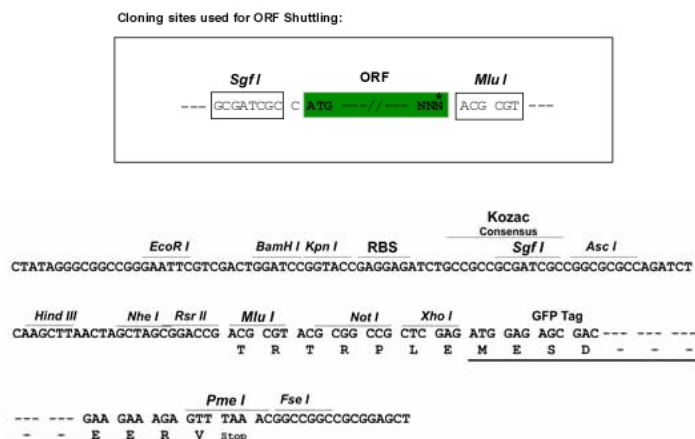
MRLAQPMVSAAPTEVDRLVWPLADGADKSPGLVSTTEPLLRLQRTQRVWEVPELDAQYAKFLELWPL
 GSFLVIGHEPGQVLMKAGPSSGDIYQIQRFPGGVSLSSNLMPDCPHLLAFLSASRDVLPRTLLLP
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 SWVEDPLRPEAHHTGQEVHHPGADAHSLGSEVHFSCPALEEEVNNDYKDEDEEGCEDMLTAHIRALAR
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 DLGPAVEVALCRAVLEPLKPALWTKLRTLRAQELRRLRRRQIALRVGAGPEGQSPALRNRNRHARLAHL
 HAACAPRRKVALLLAVCSDDVYAGLGGGENKEPLGADAFLPALTEELIWSPHIGETQLDVEFLMELDPGE
 LRGEAGYYLTTWFGALYHIAHYQPDTPRAPQLSSEARASLRQWHRRTLRHQAQPTAQANQPFEEPWAI
 GDP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_177158

ORF Size: 1689 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_177158.5](#), [NP_796132.2](#)

RefSeq Size: 2888 bp

RefSeq ORF: 1692 bp

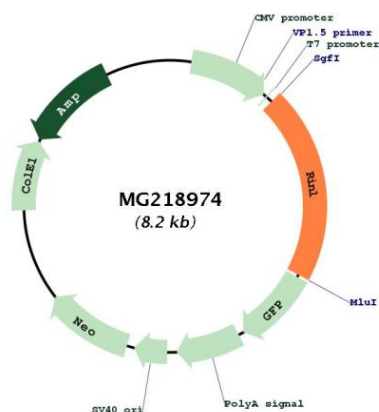
Locus ID: 320435

UniProt ID: [Q80UW3](#)

Cytogenetics: 7 B1

Gene Summary: Guanine nucleotide exchange factor (GEF) for RAB5A and RAB22A that activates RAB5A and RAB22A by exchanging bound GDP for free GTP. Plays a role in endocytosis via its role in activating Rab family members.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218974