

Product datasheet for **MR218974**

Rinl (NM_177158) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rinl (NM_177158) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rinl
Synonyms:	5830482F20Rik; 9930116N10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR218974 representing NM_177158
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTAGCCAGCCGGACATGGTGTCTGCAGCCCCTACTGAAGTGGACAGGCTGGTTTGGCCACTAG
 CGGATGGAGCAGACAAGAGCCCACTAGGGGTCTCAGCACACAGAGCCACTTCTTCGACTGCAGAGGAC
 ACAGAGAGTGTGGGAGGTCCCCGAGCTGGATGCTCAGTATGCCAAGGCCTTTCTAGAGCTGTGGCCACTG
 GGGAGCTTCTGGTCATCGGACATGAGCCTGGCCAGGTCTGATGTTGAAGGCAGGACCTTCTTCAGGAG
 ATATCAACACCTATCAAATTCAGAGGTTTCTGGAGGTGTGCTCCGGAATCCTCCAACCTCTGCATGCC
 CGACTGTCCCATCTCTGGCCTTTCTGTCAGCCAGCAGGGACGTTTGGCAAGGACCCTGCTCTTGCCC
 ACGCCTACTGTGGGGCTGGAGATAATCACTCAGATCCCCATCGGCTTGCTGCATCCAGGTGGACACCT
 CAGGGAGGTGCTGTCTGTAGTGAACAGCTCTACCTGGAGACACATGGAGGTGGGGAACAGAGACTCC
 ACAGCAAACAGAGCCAGAGACTGGACAGAAATACAGTCTAGCCCCAGGAAGCCACCCACACCGGGTC
 TCCTGGGTGGAAGACCCTTTGAGACCGGAAGCTACCATACTGGACAGGAAGTGCATCATCTGGAGCAG
 ACGCTCACTCCCTTGGGTGCGAAGTGCATTTTCTGTCTGCTCTAGAAGAGGAGGAAGTGAACAACGA
 CTGCTACAAAGATGAAGACGAGGAAGTTGCGAGGATATGCTCACTGCCACATCCGTGCTCTGGCCAGG
 ACCCGGAGCAGCTATGTAGCCAGGCAGTACCGATGCCTTCGGGCACGCCTCATCTCAGATTCTGGAATC
 CCTACAGCCCAGGGGACCCGGCCACAGAGCTGCTTCAGGATGTGCGCCAGCTCCTCACTGACCTCCAGAA
 TTACCTGGCAAAGACCCGACGTCAGAGCTGTCTTTGGGAACAGGGGACCTAGCATCCTTCGGGAAGAA
 GATCTTTGGCCCCGCTGTGGAGGTGGCCCTGTGTCGAGCGGTTCTAGAGCCCTGAAGCCCGCCCTGTGGA
 CCAAATCCGAACTCTCAGAGCCAGGAACACGACGACTGCGCAGGCGCAAATAGCCTTGAGGGTAGG
 AGCGGGGCTGAGGGACAGAGCCCGGCCTTGCGGAACCGGAACCGTATCCACGCACGCCTTGCTCACTTG
 CATGCGCGTGCGCCCGCGCCGAAGGTGGCGCTGTTGCTGGCGGTGTGCAGCGACGTCTACGCGGGCC
 TAGGCGGTGGCGAGAATAAAGAGCCCTGGGGCTGACGCCTTTTACCTGCCCTGACCGAGGAGCTGAT
 CTGGAGTCCACATATTGGGGAACACAGCTGGATGTGGAGTTTCTTATGGAGCTCTTGGATCCAGGGGAG
 TTGCGAGGAGAAGCTGGGTATTATCTGACCAGTGGTTTGGGGCTCTCTACCACATTGCTCACTACCAGC
 CAGACTGGCGTGCACCCAGGGGCTCAGCTCCGAGGCGCGGCCTCCCTGCGCCAGTGGCATCGAAG
 ACGGACACTGCACAGCAAGCCAGCCACAGCCAGGCCAACGACCTTTTGGAGGCCATGGGCAATA
 GGGGACCA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218974 representing NM_177158
 Red=Cloning site Green=Tags(s)

MRLAQPDMSAAPTEVDRLVWPLADGADKSPGLVLTSTPELLRLQRTQRVWEVPELDAQYAKAFLELWPL
 GSFLVIGHEPGQVLMKAGPSSGDINTYQIQRFPGGVSLESSNLMPDCPHLLAFLSASRDVLPRTLLLP
 TPTVGAGDNHSDPHRLGCIQVDTSGRVLVVNQLYLETHGGWGTETPQTEPETGQKYSAPRKPTPHRV
 SWVEDPLRPEAHHTGQEVHHPGADAHSLGSEVHFSCPALEEEVNNDYKDEDEEGCEDMLTAHIRALAR
 TRSSYVARQYRCLRLRLISDSGNPYPSPGDPATELLQDVRQLLTDLQNYLAKDPDVRVAVFNGRPSILREE
 DLGPAVEVALCRAVLEPLKPALWTKLRLRAQELRRRLRRQIALRVGAGPEGQSPALRNRNRHARLAHL
 HAACAPRRKVALLLAVCSVDVYAGLGGGENKEPLGADAFPLPALTEELIWSPHIGETQLDVEFLMELDPGE
 LRGEAGYYLTTWFGALYHIAHYQPDTEGRAPQGLSSEARASLRQWHRRLHQQAQPTAQANQPFEEPWAI
 GDP

TRTRPLE**QKLISEEDLA**AND**ILDYKDDDDK**V

Chromatograms:

https://cdn.origene.com/chromatograms/mm9085_f12.zip

Restriction Sites:

Sgfl-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](#)

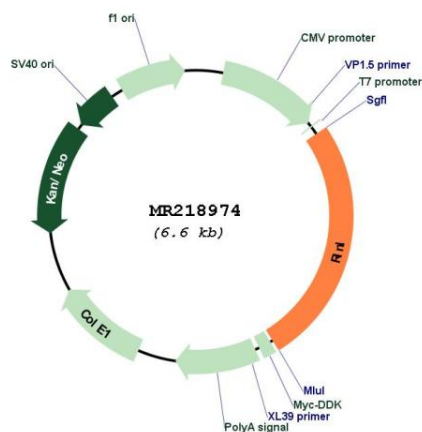
RefSeq Size: 2888 bp

RefSeq ORF: 1692 bp

Locus ID: 320435

UniProt ID:	<u>Q80UW3</u>
Cytogenetics:	7 B1
MW:	62.4 kDa
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 MR218974