

Product datasheet for **RG214046**

RINL (NM_198445) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RINL
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214046 representing NM_198445
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCCAGACCTGCCCCATCTCCTGGCCTTTCTATCAGCCAGCAGGGATGTTCTGCCCAGAACCCTGCTCT
TGCCCCCTCCCACTCTAGGGCCAGAGATGAACACACAGATCCTGTGCAGATCGGCAGGGTCCAACAGGA
CACCCAGGGAAGGTGCTTTCCATTGTGAACAGCTCTACCTGGAGACCCACAGAGGCTGGGGGAGGGAG
CAGACCCCTCAAGAAACAGAGCCAGAGGCTGCTCAGAGACATGATCCAGCCCCAGGAACCTGCGCCTC
ACGGGGTCTCCTGGGTGAAAGGCCCGCTCAGCCCGAAGTGGACCATCCTGGGCGGCTCTCGCCAGCCT
ACTGGAAGAGGAGGAGGAAGACCTTGAAGGAAAGGAGGAAGGAAGGAGGAGACGACCTGAAGAGGAAGGC
CCTGAGGACGTGCTCACCATTACGTCCAGTCTCTGGTCAGGGCCCGAGCAGCTACGTGGCCAGGCACT
ACCGAAGCCTTCGGGTGCGCATCGCCTCAGATTCTGGGGTCCCCACGGGTCTGGGACCCGGCCACGGA
GCTGCTTCAGGATGTGCGGCACCTCCTTACTGACCTCCAGGATCACCTGGCAAAGGACTCCTACATCAGG
GCTGTCTTTGGAAGCAGGGTCTGGGCTCCCCAAGAAGGACGAGGATCCAGGCCCGCGCTGGAGACGG
CGGTGTGCCAGGCGGTGCTGGCGCCCTGAAGCCGGCCCTGTGGACACGACTCCGCACACTCCGAGCACC
GGAGCTGCGGCGGCTGCGGCGGCGACAGACAGCCCTGCGGGCGGGGGCGGGGCTCCGGGGGCACAGGGG
CCGGGACCGGAAGGGCAGAGCCCCGCCCGCCTTGCAGGAGCCGATCCACGAGCGCCTTGCGCACCTCC
ACGCTGCCTGCGCCCCGCGCCCAAGTGCGCTCCTCTTGAGGTGTGCAGAGATGTCTATCGGGCCT
GGCTCGAGGCGAGAACCAAGATCCCTGGGGCCGACGCCTTCTGCCGCGCTGACCGAGGAACCTCATC
TGGAGCCCGACATTGGGGACAGCAGCTGGACGTAGATTCTTATGGAGCTCTTAGATCCAGATGAGC
TGCGGGGAGAGGCTGGTACTACCTGACCAGTGGTTTGGGGCGCTGCACCACATTGCCACTACCAGCC
CGAAACAGACCGCCTCCCGGGGGCTCAGCTCCGAGGCCCGCGCTCCCTGCACAGTGGCACCAGCAGG
CGGACGCTGCACAGAAAGGATCATCCAGAGCCAGGCCAACCTGCCCTTAAGGAGCCATGGGCAGAAG
AGACTGTGACAGGACAGTGAACAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG214046 representing NM_198445

Red=Cloning site Green=Tags(s)

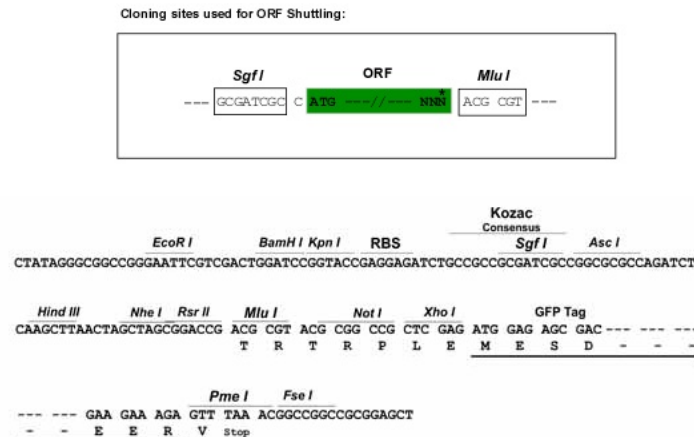
MPDLPHLLAFLSASRDVLPRTLLLPPTLGPDEHTDPVQIGRVQQDTPGKVLISVNQLYLETHRGWGRE
QTPQETEPEAAQRHDPAPRNPAHPGVSWVKGPLSPEVDHPGPALASLLEEEEDLEGKEEGREDDPEEEG
PEDVLTIHVQSLVARSSYVARQYRSLRVRIASDSGGPHSGDPATELLQDVRHLLTDLQDHLAKDSYIR
AVFGSRGPGLPKKDEDPGALETAVCQAVLAPLKPALWTRLRTLRAPELRRLRRRQTALRAGAGPPGAQG
PGPEGQSPAPALRSRIHERLAHLHAACAPRRKVALLLEVCRDYYAGLARGENQDPLGADAFLPALTEELI
WSPDIGDTQLDVEFLMELLDPELGEAGYYLTTWFGALHHIAHYQPETDRAPRGLSSEARASLHQWHRH
RTLHRKDHPRAQANLPFKEPWAEETVTGTSDN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_198445

ORF Size:

1356 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_198445.4](#)

RefSeq Size: 2413 bp

RefSeq ORF: 1359 bp

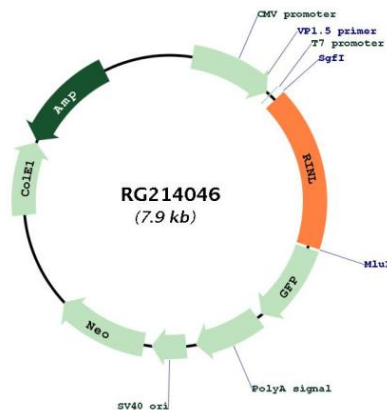
Locus ID: 126432

UniProt ID: [Q6ZSI1](#)

Cytogenetics: 19q13.2

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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214046