

Product datasheet for **MG220958**

Rilp (NM_001029938) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rilp (NM_001029938) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rilp
Synonyms: A1835553; Gm857
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG220958 representing NM_001029938
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCCCAGGAGGGCAGCGCCAGGCTACCCAGTCAGGCCTCTTCTTCAGTGGGCGCAGGGTCAGCCG
 CCGAGCTCGTGTACCATCTAGCGGGGGCTCTGGGCACTGAGCTACAGGGGCTGGCAGCCGCTTCGGACC
 CGACGCGCGGCTGGGCTGGTGCCTAGTCGTGCGGGCGCTGGAGCTCTGGAAAAGCCGCCGCTGGGG
 CCGGCTCCGACTCGCTGCAGGTGTCCGCACAGCAGGCAGAAGTGGAGCTGCGGGCGCTGCGCGAGGAGA
 ACCAACGCCTCCGCCAGGAGCTAGGCTCCGGGCCGAGGAGGAGCGCGCTGCTCCGACAGCTCAAGGA
 GGTGACAGACAGACAGCGGGATGAGCTTCGGGCACACAACCGAGATCTGCAGCGCGAAGCCAAGAGACC
 GAAGCGCTGCAGGAACAGCTACAGCGCCTCCTGCTGATCAACTCTGAGCTGCGGCACAAGCTGGTGCAG
 TGCAGACCCAGTTGAGGGCCGCCAGGACCGGGAGAGGGAGCGCCAGATAGCTCAGGATGGTCCAGCCA
 GCTGGCTAAAGAACAGAGCTTGGAACTGATGCGGCAACCTCAGATGACCCGGTGGATACTCAGAAGCAG
 CCAGGGAACCTCCAGAAGCTGTCCAGTGTGGATTGAGCAGGGAAGAGCTTAAGCAAATCCTTCAGGAGC
 GGAATGAGCTCAAAGCCAACGTGTTCTTGCTCAAGGAGGAGTTGGCGTACTTCCAGCGAGAGCTGCTCAC
 AGATCACCGTGTTCCTGGGCTTCTGCTTGAAGCCATGAAGGTGGCAGTCAAGAAACAGAGGAGGAAGATC
 AAGGCCAAGATGTTAGGGACACCTGAAGAAGCAGAGAGCAGTGAAGATGAGGATGGCTCGTGCTCCTGTC
 TCTCCAACGACAAGGAAGATGTTCCCTAGTTCCTGAGTCCAGAATCCAGAATTTCTTGGCTTATGGTA
 TCGGGGTGAAACTGAGGCCCTGAAGCCGAGACCAGCAACCCAGCTTCCAGCAGCCTACAGAAAGGAGAA
 GAGACCCACAGCAACCCACCTGCAGCCTGTGAACAGCCCTCCAGCCCCAACTCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220958 representing NM_001029938
 Red=Cloning site Green=Tags(s)

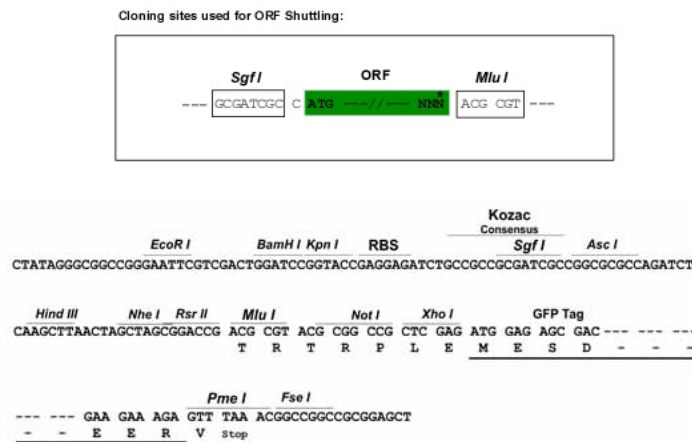
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MEPRRAAPRLPSQASSSVGAGSAAELVYHLAGALGTELQGLARRFGPDAAAGLVPLVVRALLELEKAAVG
PAPDSLQVSAQQAEVELRRLREENQRLRQELGSGPQEERALLRQLKEVTDQRDELRAHNRDLQRRSQET
EALQEQLQRLLINSELRHKLAAVQTQLRAAQDRERERQIAQDGSQSLAKEQSLEPDAATSDDPVDTQKQ
PGNLPEAVQCGFSREELKQILQERNELKANVFLKKEELAYFQRELLTDHRVPGLLLEAMKVAVKKQRRKI
KAKMLGTPEEAESSEDEGSWLLLSNDKEDVPLVPEISRIQNFGLWYRGETEAPAEETSNPASSSLQKGE
ETPQQPHLQPVNSPPAPNS
```

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2784_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001029938

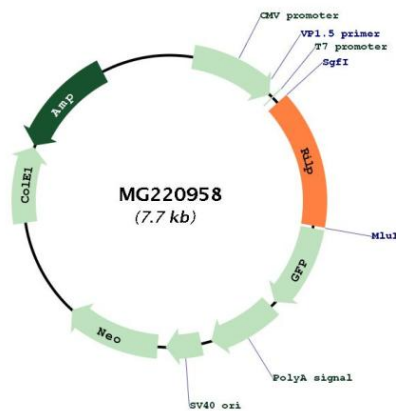
ORF Size: 1107 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001029938.2, NP_001025109.1</u>
RefSeq Size:	1510 bp
RefSeq ORF:	1110 bp
Locus ID:	280408
UniProt ID:	<u>Q5ND29</u>
Cytogenetics:	11 B5
Gene Summary:	Rab effector playing a role in late endocytic transport to degradative compartments. Involved in the regulation of lysosomal morphology and distribution. Induces recruitment of dynein-dynactin motor complexes to Rab7A-containing late endosome and lysosome compartments. Promotes centripetal migration of phagosomes and the fusion of phagosomes with the late endosomes and lysosomes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220958