

## Product datasheet for MR220958

### Rilp (NM\_001029938) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rilp (NM_001029938) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rilp
Synonyms:	A1835553; Gm857
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220958 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCCAGGAGGGCAGCGCCAGGCTACCCAGTCAGGCCTCTTCTCAGTGGGCGCAGGGTCAGCCG  
CCGAGCTCGTGTACCATCTAGCGGGGGCTCTGGGCACTGAGCTACAGGGGCTGGCAGCCGCTTCGGACC  
CGACGCGCGGCTGGGCTGGTGCCTAGTCGTGCGGGCGCTGGAGCTCTGGAAAAGCCGCCGCTGGGG  
CCGGCTCCGACTCGCTGCAGGTGTCCGCACAGCAGGCAGAAGTGGAGCTGCGGGCGCTGCGCGAGGAGA  
ACCAACGCCTCCGCCAGGAGCTAGGCTCCGGGCCGAGGAGGAGCGCGCTGCTCCGACAGCTCAAGGA  
GGTACAGACAGACAGCGGGATGAGCTTCGGGCACACAACCGAGATCTGCAGCGCGAAGCCAAGAGACC  
GAAGCGCTGCAGGAACAGCTACAGCGCCTCCTGCTGATCAACTCTGAGCTGCGGCACAAGCTGGTGCAG  
TGCAGACCCAGTTGAGGGCCGCCAGGACCGGGAGAGGGAGCGCCAGATAGCTCAGGATGGTCCAGCCA  
GCTGGCTAAAGAACAGAGCTTGGAACTGATGCGGCAACCTCAGATGACCCGGTGGATACTCAGAAGCAG  
CCAGGGAACCTCCAGAAGCTGTCCAGTGTGGATTGAGCAGGGAAGAGCTTAAGCAAATCCTTCAGGAGC  
GGAATGAGCTCAAAGCCAACGTGTTCTTGCTCAAGGAGGATGGCGTACTTCCAGCGAGAGCTGCTCAC  
AGATCACCGTGTCTCTGGGCTTCTGCTTGAAGCATGAAGGTGGCAGTCAAGAAACAGAGGAGGAAGATC  
AAGGCCAAGATGTTAGGGACACCTGAAGAAGCAGAGAGCAGTGAAGATGAGGATGGCTCGTGCTCCTGC  
TCTCCAACGACAAGGAAGATGTTCCCTAGTTCCTGAGTCCAGAATCCAGAATTTCTTGGCTTATGGTA  
TCGGGGTGAAGTGAAGCCCTGAAGCCGAGACCAGCAACCCAGCTTCCAGCAGCCTACAGAAAGGAGAA  
GAGACCCACAGCAACCCACCTGCAGCCTGTGAACAGCCCTCCAGCCCCAACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR220958 protein sequence  
 Red=Cloning site Green=Tags(s)

MEPRRAAPRLPSQASSVAGSAAELVYHLAGALGTELQGLARRFGPDAAAGLVPLVVRALLELEKAAVG  
 PAPDSLQVSAQQAEVELRRLREENQRLRQELGSGPQEERALLRQLKEVTDQRDELRAHNRDLQRRSQET  
 EALQEQLQRLLINSELRHKLAAVQTQLRAAQDRERERQIAQDGSQLAKEQSLEPDAATSDDPVDTKQ  
 PGNLPEAVQCGFSREELKQILQERNELKANVFLKKEELAYFQRELLTDHRVPGLLLEAMKVAVKKQRRKI  
 KAKMLGTPEEAESSEDEGSWLLLSNDKEDVPLVPESTRIQNFFGLWYRGETEAPAEATSNPASSLQKGE  
 ETPQQPHLQPVNSPPAPNS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfi-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001029938

**ORF Size:** 1110 bp

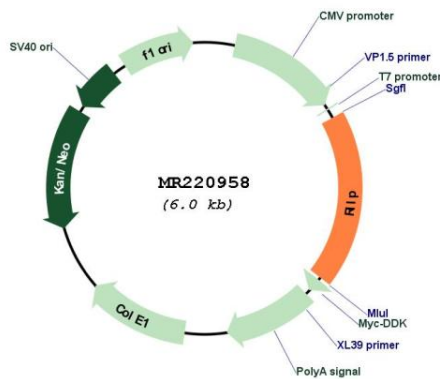
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001029938.2, NP_001025109.1</u>
<b>RefSeq Size:</b>	1510 bp
<b>RefSeq ORF:</b>	1110 bp
<b>Locus ID:</b>	280408
<b>UniProt ID:</b>	<u>Q5ND29</u>
<b>Cytogenetics:</b>	11 B5
<b>MW:</b>	41.1 kDa
<b>Gene Summary:</b>	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 MR220958