

## Product datasheet for RC215279

### RILPL1 (NM\_178314) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RILPL1 (NM_178314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RILPL1
Synonyms:	GOSPEL; RLP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215279 representing NM_178314 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGAGGAGGAGCGGGGTCGGCGCTGGCGGCCGAGTCGGCGCTGGAGAAGAACGTGGCCGAGCTGACCG  
 TCATGGACGTGTACGACATCGCGTCGCTTGTGGGCCACGAGTTCGAGCGGGTCATTGACCAGCACGGCTG  
 CGAGGCCATCGCGCGCCTCATGCCAAGGTCGTGCGCGTCCTGGAGATCCTGGAGGTGCTGGTCAGCCGC  
 CACCACGTGCGCGCCGAGCTGGACGAGCTGCGCCTGGAGCTGGACCGCCTGCGCCTGGAGAGGATGGACC  
 GCATCGAGAAGGAGCGCAAGCACCAGAAGGAGCTGGAGCTGGTGGAGGATGTGTGGCGAGGGGAGGCGCA  
 GGACCTCCTCTCCAGATCGCCAGCTGCAGGAGGAGAAAGCAGCTCATGACCAACCTCTCCACAAG  
 GATGTCAATTTCTCAGAGGAGGATTCAGAAGCATGAAGGCATGTGAGCGGGAGCGACAGGTGATGA  
 AGAAGCTGAAGGAGGTGGTGGACAAACAACGCGACGAGATCCGCGCCAAGGACAGGGAGCTGGGCTGAA  
 AAATGAGGACGTTGAGGCTTTACAGCAGCAGCAGACACGGCTGATGAAGATCAACCATGACCTTCGGCAC  
 CGGGTCACGGTGGTGGAGGCCAGGGGAAAGCCCTGATCGAACAGAAGGTGGAGCTGGAGGCAGACCTGC  
 AGACCAAGGAGCAGGAGATGGGCGAGCTGCGAGCAGAGCTGGGGAAGTTGCGAGAGAGGCTGCAGGGGA  
 GCACAGCCAGAATGGGAGGAGGAGCCTGAGACGAGCCGGTGGGAGAGGAGAGCATCTCCGACGCAGAG  
 AAGGTGGCCATGGATCTCAAGGACCCCAACCGCCCCGGTTCACCTGCAGGAGCTGCGGACGTGCTGC  
 ACGAGAGGAACGAGCTCAAGTCCAAGGTGTTCTTGCTGACGAGGAGCTGGCTTACTATAAGAGTGAAGA  
 AATGGAAGAGGAAAACCAATACCCCAACCCCCACCATCGCCACCCGAGGACGTCCCCCAGCCGGAG  
 TCGGGCATCAAGCGACTGTTTAGCTTCTTCTCCGAGATAAGAAGCGCCTGGCCAACACACAGAGAAACG  
 TGCACATCCAGGAGTCCTTTGGACAGTGGGCAACACCCACCGCATGACGGTTACACAGAGCAAGGACA  
 GGAAGCCCTGCAGCATCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA


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**Protein Sequence:** >RC215279 representing NM\_178314  
 Red=Cloning site Green=Tags(s)

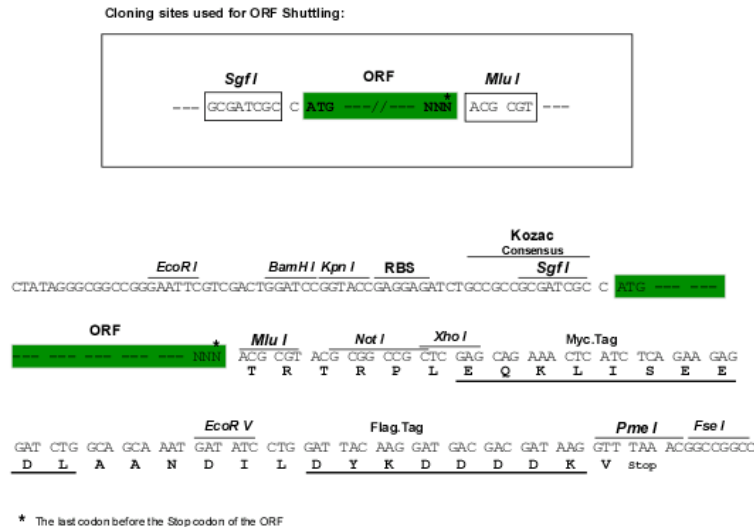
MEEERGSALAAESALEKNVAELTVMDVYDIASLVGHEFERVIDQHGCETIARLMPKVVRVLEILEVLVSR  
 HHVAPELDELRLRLERMDRIEKKRKHQKELELVEDVWRGEAQDLLSQIAQLQEENKQLMTNL SHK  
 DVNFSEEEFQKHEGMSERERQVMKKLKEVVDKQRDEIRAKDRELGLKNEDVEALQQQTRLMKINHDLRH  
 RVTVVEAQGKALIEQKVELEADLQTKEQEMGSLRAELGKLRLRLQGEHSQNGEEEPETEPVGEESISDAE  
 KVAMDLKDPNRPRTLQELRDVLHERNELKSKVFLQEELEYKSEEMEEENRIPQPPPIAHPRTSPQPE  
 SGIKRLFSFFSRDKKRLANTQRNVHIQESFGQWANTHRDDGYTEQGQEQALQHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178314

**ORF Size:** 1209 bp

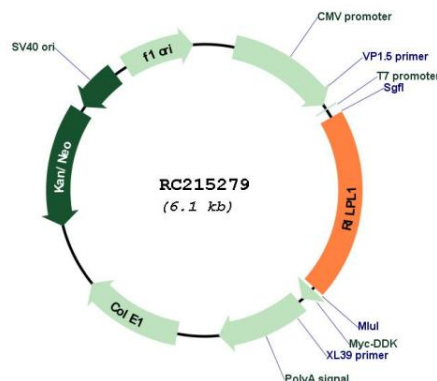
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_178314.5</u>
<b>RefSeq Size:</b>	2624 bp
<b>RefSeq ORF:</b>	1212 bp
<b>Locus ID:</b>	353116
<b>UniProt ID:</b>	<u>Q5EBL4</u>
<b>Cytogenetics:</b>	12q24.31
<b>MW:</b>	47.1 kDa
<b>Gene Summary:</b>	Plays a role in the regulation of cell shape and polarity. Plays a role in cellular protein transport, including protein transport away from primary cilia. Neuroprotective protein, which acts by sequestering GAPDH in the cytosol and prevent the apoptotic function of GAPDH in the nucleus. Competes with SIAH1 for binding GAPDH (By similarity). Does not regulate lysosomal morphology and distribution.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC215279