

## Product datasheet for **RG206400**

### RILP (NM\_031430) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RILP (NM_031430) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RILP
Synonyms:	PP10141
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206400 representing NM_031430 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCCAGGAGGGCGGCCCGGGGTGCCTGGCTGGGGTCTCGGGAGGCCGCGGGGTCCGCATCGG  
CCGCGGAGCTTGTGTACCATCTAGCCGGGGCCCTGGGCACTGAGCTGCAGGATCTGGCGCGCCGTTTCGG  
GCCGGAGCGCGCCGGCTGGTGCCCTAGTGGTGCGGGCGCTGGAGCTTTGGAACAGGCTGCCGTG  
GGCCCCCGCCGACTCGCTGCAGGTGTCGGCGCAGCCGGCGGAGCAGGAGCTGCGGCGGTGCGGGAGG  
AGAACGAGCGCCTCCGCAGGGAGCTGCGCGCGGGGCCACAGGAGGAGCGCGCTGCTGCGGCAGCTCAA  
GGAGGTCACGGACCGACAGCGGGACGAATCCGGGCGCACAAACCGCGACCTGCGGCAGCGCGCCAGGAG  
ACCGAGGCGTTGCAGGAGCAGCTGCAGCGCCTCCTGCTGGTGAACGCTGAGCTGCGGCACAAGCTGGCGG  
CCATGCAGACCCAGCTGCGCGCCGCGCAGGACCGGAGAGGGAGCGCCAGCAGCCTGGCGAAGCCGCGAC  
TCCGCAGGCTAAAGAGCGAGCGCGGGGAGGCGGGCGCCCGGGCACCAGCACGGACAGGAGCCCGAA  
TGGGCGACCGCCGGCGCAGGCGCCCGAGGAAACCTGAGGACCGCGGAGGCGCGCAGCAGCTCGGGC  
GCCCTCGGAGGCGAGGCGAGTCCCGCTTTCAGTCCGGAGGAGTTTGGAGCAGATCCTCAGGAGCGGAATGA  
ACTCAAAGCCAAAGTGTTCCTGCTCAAGGAGGAAGTGGCTACTCCAGCGGGAGCTGCTCACAGACCAC  
CGGGTCCCCAGCCTTCTGCTCGAGGCCATGAAGGTGGCTGTCCGGAAGCAGCGGAAGAAGATCAAGGCCA  
AGATGTTAGGGACACCAGAGGAAGCAGAGAGCAGTGGAGATGAGGCTGGCCCATGGATCCTGCTCTCCGA  
TGACAAGGGAGACCATCCCCACCCCGGAGTCCAAAATACAGAGTTTCTTTGGCCTATGTTATCGGGT  
AAAGCTGAATCCTCTGAGGATGAGACCAGCAGCCCTGCACCCAGCAAGCTAGGGGGAGAAGAGGAGGCC  
AACCACAGTCTCCAGCTCCTGATCCGCCCTGTTCTGCCCTCCACGAACACCTTTGTCTGGGGCCTCAGC  
CGCCCCAGAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206400 representing NM\_031430  
 Red=Cloning site Green=Tags(s)

MEPRRAAPGVPGWGSREAAGSASAAELVYHLGALGTELQDLARRFGPEAAAGLVPLVVRALLELEQAAV  
 GPAPDSLQVSAQPAEQELRRLREENERLRREL RAGPQEERALLRQLKEVTDQRDELRAHNRLRQRGQE  
 TEALQEQLQRLLLVNAELRHKLAAAMQTQLRAAQDRERERQQPGEAATPQAKERARGQAGRPQHGHGQEPE  
 WATAGAGAPGNPEDPAEAAQQLGRPSEAGQCRFSREEFEQILQERNELKAKVFLKKEELAYFQRELLTDH  
 RVPSLLLEAMKVAVRKQRKKIKAKMLGTPEEAESEDEAGPWILLSDDKGDHPPPPESKIQSFFGLWYRG  
 KAESSEDETSSPAPSKLGGEEEAQPQSPADPPCSALHEHLCLGASAAPEA

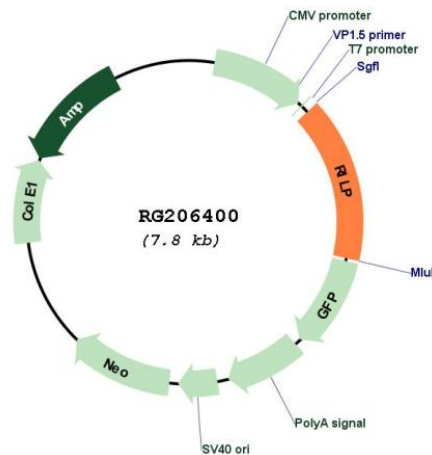
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_031430

<b>ORF Size:</b>	1203 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_031430.1</a> , <a href="#">NP_113618.1</a>
<b>RefSeq Size:</b>	1811 bp
<b>RefSeq ORF:</b>	1206 bp
<b>Locus ID:</b>	83547
<b>UniProt ID:</b>	<a href="#">Q96NA2</a>
<b>Cytogenetics:</b>	17p13.3
<b>Gene Summary:</b>	This gene encodes a lysosomal protein that interacts with RAB7, a small GTPase that controls transport to endocytic degradative compartments. Studies using mutant forms of the two proteins suggest that this protein represents a downstream effector for RAB7, and both proteins act together in the regulation of late endocytic traffic. A unique region of this protein has also been shown to be involved in the regulation of lysosomal morphology. [provided by RefSeq, Sep 2011]