

## Product datasheet for **RG211307**

### Pumilio 2 (PUM2) (NM\_015317) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pumilio 2 (PUM2) (NM_015317) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pumilio 2
Synonyms:	PUMH2; PUML2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211307 representing NM_015317 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATCATGATTTTCAAGCTCTTGCAATTAGAATCTCGGGGAATGGGAGAGCTTTTGCCTACAAAAAGT  
TTTGGAACTGATGATCAACAAAAGATGGACAAAAGGCATATTTCTGGGGATGATGAATGGAGAGA  
GACTGCATGGGGAGCTTCTACCATTCAATGTCCAGCCTATTATGGTACAGAGAAGATCTGGACAGGGT  
TTTCATGAAACAGTGAAGTAAATGCAACTGTCTCCGCGATCAGAAAAGTGGAGGCCTTGGTGTGAGCA  
TGGTAGAATATGTATTAAGTTCTTCTCCTGCTGATAAATTGGATTCTCGATTTAGGAAGGAAATTTTGG  
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GACCAAAACAGAGATCTTAAACAAGGAGATGATGATGATTCTAAAATAAATGGCAGAGGTTTGCCAAATG  
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TGAGCGCTTGGGCCCAATACTAATCCCTCAGAAGGACTGGGGCCTCTTCTAATCTACAGCTAATAAA  
CCAATTGTTGAAGATTTTCAAATCCTGAAACTCAGAATCTGGATGCCATGGAACAAGTTGGTCTGGAAT  
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ACCTGTTTAATTAGTTCAGCAGCAGCACAAGCTGCAGCAGCAGCAGCAGCTGGAGGAAGTCAAGTAGC



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CTTACAGGCAGCACAAATGGTCTGTTTCGGCCAATTGGCACTCAGCCACCACAGCAGCAGCAACAGCAGC
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CAATGTAGTAGAAAAGTGTGTTACTCATGCCTCCCGTCTGAGAGAGCTTACTGATTGACGAGGTTTGC
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AAAAGATGATTGATATGGCTGAACCTGCTCAGAGAAAAGATAATCATGCACAAGATTCGACCTCACATTAC
TACTTTGCGCAAATACACATACGGGAAGCATATACTGGCCAAGTTGAAAAGTATTATTTGAAGAATAGC
CCGGACCTAGGACCTATTGGAGGACCACCAATGGAATGCTG
    
```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG211307 representing NM\_015317  
 Red=Cloning site Green=Tags(s)

```

MNHDFQALALESRGMGELLPTKKFWEPPDDSTKDGQKGFILGDDEWRETAWGASHSMSQPIMVQRRSGQG
FHGNSEVNAILSPRESGGLGVSMVEYVLS SSPADKLD SRFKGNFGTRDAETDGPKEGDQK GKASPFEE
DQNRDLKQGD DDDSKINGRGLPNGMDADCKDFNRTPGSRQASPT EVVERLGPNTNPSEGLGPLPNPTANK
PLVEEF S NPETQNL DAMEQVGL ES LQFDY PGNQV PMDSSGATVGLFDYNSQQQLFQRTNALTVQQLTAAQ
QQQYALAAAQQPHIAGVFSAGLAPA AFVNPYII SAAPP GTDPYTAAGLAAAATLAGPAVVPQYYGV PW
GVYPANLFQQQAAAAANNTASQQAASQAQPGQQQVLRAGAGQRPLTPNQGGQQQAESLAAAAAANPTLA
FGQGLATGMPGYQVLAPTAYDQTGALVVGPGARTGLGAPVRLMAPTPVLISSAAAQAAAAAAGGTASS
LTGSTNGLFRPIGTQPPQQQQQPSTNLQSN SFY GSSSL TNSSQSSSLF SHGPGQPGSTSLGFGSGNSLG
AAIGSALSGFGSSV GSSASSSATRRESLSTSSDLYKRSSSLAPIGQPFYNSLGFSSSPSIGMPLPSQT
PGHSLTPPPSLSSHGSSSLHLLGGLTNGSGRYISAAPGAEAKYRSASSTSSLFSSSSQLFPPSRLRYNRS
DIMP SGRSRLLED FRNNRFPNLQLRDLIGHIVEFSQDQHGSRFIQKLERATPAERQMV FNEILQAAYQL
MTDVF GNYVIQKFF EFGSLDQKLALATRIRGHVLPALQMYGCRVIQKALESISSDQQSEMVKELDGHVL
KCVKDQNGNHVVQKCI ECVQPSLQFIIDAFKGVFVLS THPYGCRVIQRILEHCTAEQTLPILEELHQH
TEQLVQDQYGNVIQH VLEHGRPEDKSKIVSEIRGKVLAL SQHKFASNVVEKCVTHASRAERALL IDEVC
CQNDGPHSALYTMK DQYANYVVQK MIDMAEPAQRKIIMHKIRPHITTLRKYTYGKHILAKLEKYLLKNS
PDLGPIGGPPNGML
    
```

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_015317

**ORF Size:** 3192 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.

**RefSeq:** [NM\\_015317.5](#)

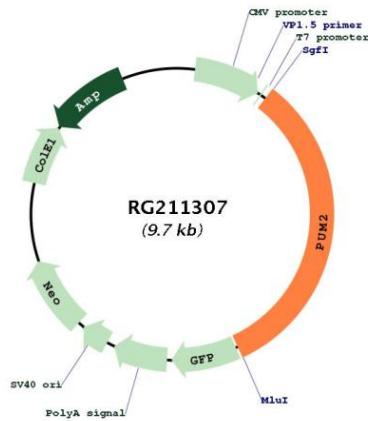
**RefSeq Size:** 6111 bp

**RefSeq ORF:** 3195 bp

**Locus ID:** 23369

**UniProt ID:** [Q8TB72](#)  
**Cytogenetics:** 2p24.1  
**Domains:** PUF  
**Gene Summary:** This gene encodes a protein that belongs to a family of RNA-binding proteins. The encoded protein functions as a translational repressor during embryonic development and cell differentiation. This protein is also thought to be a positive regulator of cell proliferation in adipose-derived stem cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

**Product images:**



Circular map for RG211307