

## Product datasheet for RC239854

### Pumilio 2 (PUM2) (NM\_001282790) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pumilio 2 (PUM2) (NM_001282790) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PUM2
Synonyms:	PUMH2; PUML2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239854 representing NM_001282790 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAATCATGATTTTCAAGCTCTTGCATTAGAATCTCGGGGAATGGGAGAGCTTTTGCCTACCAAAAAGT  
TTTGGAACTGATGATTCAACAAAAGATGGACAAAAGGCATATTTCTGGGGATGATGAATGGAGAGA  
GACTGCATGGGGAGCTTCTCACCATTCAATGTCCAGCCTATTATGGTACAGAGAAGATCTGGACAGGGT  
TTTCATGGAAACAGTGAAGTAAATGCAATACTGTCTCCGCGATCAGAAAAGTGGAGGCCTTGGTGTGAGCA  
TGGTAGAATATGTATTAAGTTCTTCTCCTGCTGATAAATTGGATTCTCGATTTAGGAAGGGAAATTTTGG  
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GACCAAAACAGAGATCTTAAACAAGGAGATGATGATGATTCTAAAATAAATGGCAGAGGTTTGCCTAATG  
GAATGGATGCCGATTGCAAAGATTTTAAATCGTACTCCTGGAAGTCGTCAAGCCTCTCCAAGTGAAGTGT  
TGAGCGCTTGGGCCCAATACTAATCCCTCAGAAGGACTGGGGCCTTCTCCTAATCCTACAGCTAATAAA  
CCAATTGTTGAAGAATTTTCAAATCCTGAAACTCAGAATCTGGATGCCATGGAACAAGTTGGTCTGGAAT  
CCTTACAGTTTGACTATCCTGGTAATCAGGTACCAATGGACTCTTCAGGAGCTACTGTAGGCCTTTTGA  
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CAGCAGCAATATGCATTAGCAGCAGCTCAGCAGCCACATATAGCTGGTGTATTCTCAGCAGGCCTTGCTC  
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AGGATTGGCTGCAGCAGCTACATTAGCAGGTCCAGCAGTGGTTCACCTCAGTATTACGGCGTTCATGG  
GGGTGTATCCAGCCAATTTATTCAGCAGCAAGCTGCAGCTGCGGCAAATAACACAGCCAGTCAGCAAG  
CAGCATACAAGCTCAGCCTGGACAGCAACAGGTTCTCCGTGCTGGAGCAGGTGAGCGTCTTACTCC  
CAATCAGGGTCAAGGAGGAGCAAGCAGAATCACTTGCAGCAGCTGCAGCAGCAATCCAACATTGGCT  
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ACCTGTTTAAATAGTTCAGCAGCAGCACAAGCTGCAGCAGCAGCAGCAGCTGGAGGAACTGCAAGTAGC  
CTTACAGGCAGCACAATGGTCTGTTTCGGCAATTGGCACTCAGCCACCACAGCAGCAGCAACAGCAGC



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CAAGCACTAATCTGCAATCTAATTCATTTTATGGAAGCAGTTCTTTGACTAATAGCTCCCAGAGTAGTTC  
 TTTATTTTCTCATGGACCTGGTCAACCTGGAAGTACATCTCTGGCTTTGGAAGTGGTAACCTTTGGGT  
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 CCAATGGAATGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239854 representing NM\_001282790  
 Red=Cloning site Green=Tags(s)

MNHDFQALALESRMGELLPTKKFWEPPDDSTKDGQKIGFLGDDEWRETAWGASHHMSQPIMVQRRSGQG  
 FHGNSEVNAILSPRSESGGLGVSMVEYVLS SSPADKLD SFRKGNFGTRDAETDGPEKGDQK GKASPFEE  
 DQNRDLKQGD DDDSKINGRGLPNGMDADCKDFNRTPGSRQASPTVEVVERLGPNTNPSEGLGPLPNTANK  
 PLVEEF S NPETQNL DAMEQVGL ESLQFDY PGNQVPMDS S GATVGLFDYNSQQQL FORTNALTVQQLTAAQ  
 QQQYALAAAQPHIAGVFSAGLAPA AFVNPYII SAAPP GTPYTAAGLAAAATLAGPAVVPQYYGVPW  
 GYYPANLFQQQAAAAANNTASQQAASQAQPGQQVLRAGAGQRPLTPNQGGQQQAESLAAAAANPTLA  
 FGQGLATGMPGYQLAPTAYDQTGALVVGPGARTGLGAPVRLMAPTPVLISSAAAQAAAAAAGGTASS  
 LTGSTNGLFRPIGTQPPQQQQPSTNLQSNFYGSSSLTNSSQSSSLF SHGPGQPGSTSLGFGSGNSLG  
 AATGSALSGFGSSGGLTNGSGRYISAAPGAEAKYRSASSTSLFSSSQLFPPSRLRYNRS DIMP SGRSR  
 LLED FRNRFPNLQLRDLIGHIVEFSQDQHGSRFIQKLERATPAERQMV FNEILQAAYQLMTDVF GNYV  
 IQKF FEFGLDQKLALATRIRGHV LPLALQMYGCRVIQKALESISSDQQSEMVKELDGHV LKCVKQNGN  
 HVVQKCI ECVQPQSLQFIIDAFKGQVFLSTHPYGCRVIQRILEHCTAEQTLPILEELHQHTEQLVQDQY  
 GNYVIQHVLEHGRPEDKSKIVSEIRGKVLALSQHKFASN VVEKCVTHASRAERALLIDEVCCQNDGPHSA  
 LYTMK DQYANYVVKMIDMAEPAQRKIIMHKIRPHITTLRKYTYGKHILAKLEKYYLKNSPDLGPIGGP  
 PNGML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

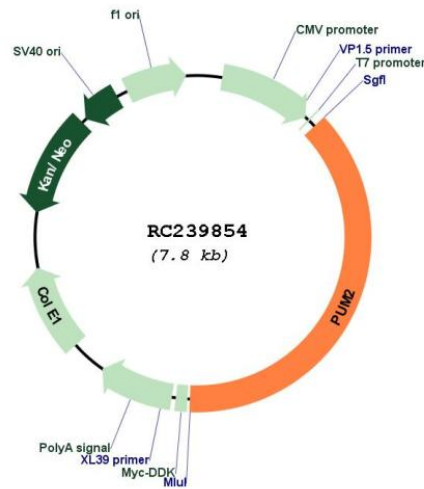
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001282790  
 ORF Size: 2955 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_001282790.2</a>
<b>RefSeq Size:</b>	5877 bp
<b>RefSeq ORF:</b>	2958 bp
<b>Locus ID:</b>	23369
<b>Cytogenetics:</b>	2p24.1
<b>MW:</b>	106.5 kDa
<b>Gene Summary:</b>	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]