

Product datasheet for **SC302206**

Pumilio 1 (PUM1) (NM_001020658) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pumilio 1 (PUM1) (NM_001020658) Human Untagged Clone
Tag:	Tag Free
Symbol:	Pumilio 1
Synonyms:	HSPUM; PUMH; PUMH1; PUM1; SCA47
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001020658, the custom clone sequence may differ by one or more nucleotides

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ATGAGCGTTGCATGTGTCTTGAAGAGAAAAGCAGTGCTTTGGCAGGACTCTTTCAGCCCC
CACCTGAAACATCACCTCAAGAACCAGCTAATCCCAACATGCCTGTTGTTTTGACATCT
GGAACAGGGTCGCAAGCGCAGCCACAACCAGCTGCAAATCAGGCTCTTGCAGCTGGGACT
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CTTGTAGCTCCTGCCCCAGTCATCATTAGTTCCTCAGCTGCACAAGCAGCTGTTGCAGCA
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CGCCCTTTAGGAACACAGCAGCCTCAGCCCCAGCCCCAGCAGCCCAATAACAACCTG
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CACATTCTGGCCAAGCTGGAGAAGTACTACATGAAGAACGGTGTGACTTAGGGCCCATC
TGTGGCCCCCTAATGGTATCATCTGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_001020658
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001020658.1](#), [NP_001018494.1](#)

RefSeq Size: 5416 bp

RefSeq ORF: 3567 bp

Locus ID: 9698

UniProt ID: [Q14671](#)

Cytogenetics: 1p35.2

Gene Summary: This gene encodes a member of the PUF family, evolutionarily conserved RNA-binding proteins related to the Pumilio proteins of *Drosophila* and the fem-3 mRNA binding factor proteins of *C. elegans*. The encoded protein contains a sequence-specific RNA binding domain comprised of eight repeats and N- and C-terminal flanking regions, and serves as a translational regulator of specific mRNAs by binding to their 3' untranslated regions. The evolutionarily conserved function of the encoded protein in invertebrates and lower vertebrates suggests that the human protein may be involved in translational regulation of embryogenesis, and cell development and differentiation. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform.