

## Product datasheet for **SC319107**

### **PUS1 (NM\_001002019) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PUS1 (NM_001002019) Human Untagged Clone
Tag:	Tag Free
Symbol:	PUS1
Synonyms:	MLASA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>Fully Sequenced ORF:</b>	<p>&gt;OriGene sequence for NM_001002019.1</p> <pre> GTCGCGAATGGGGCAGGAGCGAGCCTCTCTGGTCCCGACGCGGGTGGCCCGGTCTCCTC GACTCCTGAGGAAAGCCACCGGGCGGGGCGGGAGCTCGCCGCGCATGGCCGGGAACGCG GAGCCGCCGCCCGGGAGCCGCATGCCCCAGGACCGGAGGTCTGCAGCGCCGGGCC GGGGGCGACCCGCTCTGGGAGGACGGAGAACATCCGGCGAAGAAGCTCAAGAGCGGTGGC GACGAGGAGCGGCGGAGAAGCCGCCAAGCGGAAGATCGTGCTGCTCATGGCCTATTCCG GGCAAGGGCTACCACGGCATGCAGAGGAATGTCGGGTCCTCACAATTCAAAACAATTGAA GATGACTTGGTGTCCGCCCTCGTCCGGTCAGGCTGATTCTGAAAATCATGGTGAGGAC ATGAGGAAAATGTCCTTCCAGCGCTGCGCCCGGACAGACAAGGGTGTGTCCGCGAGCCGGC CAGGTGGTATCCCTGAAGGTGTGGCTGATTGACGACATTCTAGAAAAGATCAACAGCCAC CTTCCCTCTCACATTCGGATTCTGGGACTGAAGCGGGTCACGGGCGGGTTAACTCCAAG AACAGATGTGATGCCAGGACCTATTGCTACCTGCTGCCACGTTTGCCTTTGCGCACAAG GACCGGGACGTTCCAGGATGAGACCTACCGCTGAGCGCCGAGACGCTGCAGCAGGTCAAC AGGCTCCTGGCCTGCTACAAGGGCACGCACAACCTCCACAATTTACCTCGCAGAAGGGG CCGCAGGATCCCAGTGCCTGCCGTACATCCTGGAGATGACTGCGAGGAACCCTTTGTG CGGGAGGGCCTGGAGTTTGCGGTATCAGGGTGAAGGGCCAGAGCTTCATGATGCATCAG ATCCGGAAGATGGTCGGCCTGGTGGTGGCCATTGTGAAGGGTTATGCCCTGAGAGCGTG CTGGAGCGCAGCTGGGGCACAGAGAAGGTGGACGTGCCAAGGCGCCCGACTCGGCCTG GTCCTGGAGAGGGTGCACCTCGAGAAGTACAACCAGCGCTTTGGCAACGATGGGCTGCAT GAGCCGCTGGACTGGGCGCAGGAGGAAGGAAAGGTGCGAGCCTTCAAGGAGGAGCACATC TACCCACCATCATCGGCACCGAGCGGGACGAACGCTCCATGGCCAGTGGCTGAGCACC TTGCCATCCACAACCTCAGTGCCACCGCTCTCACGGCAGGTGGCACGGGCGCCAAGGTG CCACAGAGTGCCCTCTGAGCAGCTCACAGTGTGTGCCAGATGTGCCACCCCTGTGGGCA GCAAGAAGCTGGGATCGCTGCAGCCATGTTTTCCGGCCATGCCGGCGTTGTAACCTCAG GACCTTCCCTTGTAGGAACAGCCTTTCTCGAATCTGTTTTCAGCTCTTGCAATGCATAGA TGAACCTCAGCATGTAAAGAAGTATTTTTTAAAGAAGTGATTTTCTATTAAACAAGTA CAAATTTTGCTTAGTCAAAAAAAAAAAAAAAAAA </pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001002019
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<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).

**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\\_001002019.1](#), [NP\\_001002019.1](#)

**RefSeq Size:** 1660 bp

**RefSeq ORF:** 1200 bp

**Locus ID:** 80324

**UniProt ID:** [Q9Y606](#)

**Cytogenetics:** 12q24.33

**Gene Summary:** This gene encodes a pseudouridine synthase that converts uridine to pseudouridine once it has been incorporated into an RNA molecule. The encoded enzyme may play an essential role in tRNA function and in stabilizing the secondary and tertiary structure of many RNAs. A mutation in this gene has been linked to mitochondrial myopathy and sideroblastic anemia. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Sep 2009]  
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2 and 3 encode the same isoform (2).