

Product datasheet for **SC319608**

PUS1 (NM_025215) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUS1 (NM_025215) 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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Fully Sequenced ORF: >OriGene sequence for NM_025215.4
 GAGAGGTCAGGGGTCAGCAGGAGTGAGGCTGGGGCGTCCAGGTCCGAGAGGTCAGGGGTC
 AGCTGGAGAGGGGCTGGGGCGCCGGTTTCCCGAGGTCAGGGGTCAGAAGGAACAGGGCT
 GCAGCGTCAGGGTCCGAGAGGTTAGGGGTCGGCAGAGGCGGAGCTGGGGCACTGGGGGTC
 AGGGGTCGGGGATCAGGGCGGGGTCGGGTGCACTGGTAGCCTGCGCATGGGCCTCCAGCT
 TCGCGCGCTGTTGGGAGCCTTCGGACGGTGGACCCTGCGCCTGGGACCGCTCCGTCTCTG
 CTGCGCCGCGCATGGCCGGGAACCGCGGAGCCGCCCGCCCGGAGCCGCATGCCCCAGGA
 CCGGAGGTCCTGCAGCGCCGGGCGGGGCGACCGCGTCTGGGAGGACGGAGAACATCC
 GCGAAGAAGCTCAAGAGCGGTGGCGACAGGAGCGGCGGAGAAGCCGCCAAGCGGAA
 GATCGTGCTGCTCATGGCCTATTCGGGCAAGGGCTACCACGCGATGCAGAGGAATGTCGG
 GTCCTCACAATTCAAAACAATTGAAGTGACTTGGTGTCCGCCCTCGTCCGGTCAGGCTG
 TATTCCTGAAAATCATGGTGAGGACATGAGGAAAATGTCCTTCCAGCGCTGCGCCCGGAC
 AGACAAGGGTGTGCCAGCCGCCAGGTGGTATCCCTGAAGGTGTGGCTGATTGACGA
 CATTCTAGAAAAGATCAACAGCCACCTTCCCTCTCACATTCGGATTCTGGGACTGAAGCG
 GGTACCGGGCGGGTTAACTCCAAGAACAGATGTGATGCCAGGACCTATTGCTACCTGCT
 GCCCACGTTTGCCTTTCGCGACAAGGACCGGGACGTTCCAGGATGAGACCTACCGCTGAG
 CGCCGAGACGCTGCAGCAGGTCAACAGGCTCCTGGCCTGTACAAGGGCACGCACAACCT
 CCACAATTTACCTCGCAGAAGGGGCGCAGGATCCCAGTGCCTGCCGCTACATCCTGGA
 GATGTACTGCGAGGAACCTTTGTGCGGGAGGGCCTGGAGTTTGCGGTGATCAGGGTGAA
 GGGCCAGAGCTTCATGATGCATCAGATCCGGAAGATGGTCGGCCTGGTGGTGGCCATTGT
 GAAGGGTTATGCCCTGAGAGCGTGTGGAGCGCAGCTGGGGCACAGAGAAGGTGGACGT
 GCCCAAGGCGCCCGGACTCGGCCTGGTCTGGAGAGGGTGCACCTCGAGAAGTACAACCA
 GCGCTTTGGCAACGATGGGTGCATGAGCCGCTGGACTGGGCGCAGGAGGAAGGAAAGGT
 CGCAGCCTTCAAGGAGGAGCACATCTACCCACCATCATCGGCACCGAGCGGGACGAACG
 CTCATGGCCAGTGGCTGAGCACCTTGGCCATCCACAACCTTCAGTGCCACCGCTCTCAC
 GGCAGGTGGCACGGGCGCCAAGGTGCCAGTCCCCTGGAAGGCAGTGAAGGGGACGGAGA
 CACTGACTGAGGCGATGGGAGCTGCCACCAGAGTGCCTCTGAGCAGCTCACAGTGTGTG
 CCCAGATGTGCCACCCCTGTGGGCAGCAAGAAGCTGGGATCGCTGCAGCCATGTTTTCCC
 GGCCATGCCGGCGTTGTAACCTCAGGACCTTCCCTGTAGGAACAGCCTTCTCGAATCT
 GTTTTCAGCTCTTGCATTGCATAGATGAACCTCAGCATGTAAGAAGTATTTTTTAAAG
 AAGTGATTTTCTATTAACAAGTACAAATTTTGCTTAGTCAAAAAAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_025215

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_025215.4](#), [NP_079491.2](#)

RefSeq Size: 2047 bp

RefSeq ORF: 1284 bp

Locus ID: 80324

UniProt ID: [Q9Y606](#)

Cytogenetics: 12q24.33

Domains: PseudoU_synth_1

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 (1) represents the longest transcript and encodes the longer isoform (1).