

Product datasheet for **SC318122**

PUS7 (NM_019042) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUS7 (NM_019042) Human Untagged Clone
Tag:	Tag Free
Symbol:	PUS7
Synonyms:	IDDABS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

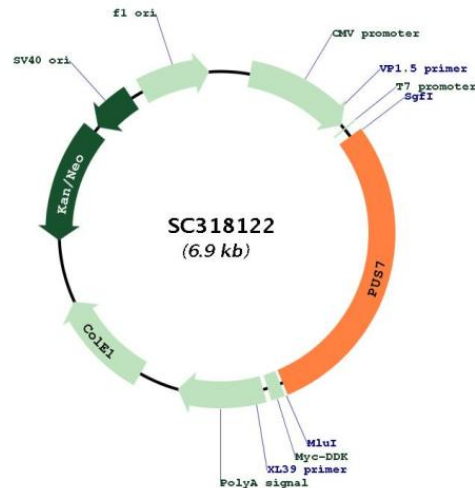


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Fully Sequenced ORF: >SC318122 representing NM_019042.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGATGACAGAAATGACTGGTGTGTCGCTGAAACGTGGGGCACTGGTTGTGCAAGATAATGACAGT
GGAGTCCCAGTTGAAGAGACAAAAAACAGAAGCTGTCGGAATGCAGTCTAACCAAGGTCAAGATGGG
CTACAGAATGACTTTCTGTCCATCAGTGAAGACGTGCCTCGGCCTCCTGACACTGTCAGTACTGGGAAA
GGTGGAAAGAATTCTGAGGCTCAGTTGGAAGATGAGGAAGAAGAGGAGGAAGATGGACTTTCAGAGGAG
TGCGAGGAGGAGGAATCAGAGAGTTTTGCAGACATGATGAAGCATGGACTCACTGAGGCTGACGTAGGC
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GCTCTGAAAATGGATTTTCTCTACCCCTTCTACTTACGCCACCATGGCCATTCGAGAAGTGTAAAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_019042

Insert Size: 1986 bp

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_019042.4](#)

RefSeq Size: 3529 bp

RefSeq ORF: 1986 bp

Locus ID: 54517

UniProt ID: [Q96PZ0](#)

Cytogenetics: 7q22.3

MW: 75 kDa

Gene Summary: Pseudouridylate synthase that catalyzes pseudouridylation of RNAs (PubMed:28073919, PubMed:29628141). Acts as a regulator of protein synthesis in embryonic stem cells by mediating pseudouridylation of RNA fragments derived from tRNAs (tRFs): pseudouridylated tRFs inhibit translation by targeting the translation initiation complex (PubMed:29628141). Also catalyzes pseudouridylation of mRNAs: mediates pseudouridylation of mRNAs with the consensus sequence 5'-UGUAG-3' (PubMed:28073919). In addition to mRNAs and tRNAs, binds other types of RNAs, such as snRNAs, Y RNAs and vault RNAs, suggesting that it can catalyze pseudouridylation of many RNA types (PubMed:29628141).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR and lacks an in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a. Both variants 2 and 3 encode the same isoform.