

Product datasheet for **MC228598**

Pus7 (NM_001289781) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pus7 (NM_001289781) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pus7
Synonyms:	C330017115Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC228598 representing NM_001289781
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAATGACAAGCACGTCCCTGAAACGTGGGTGCCTTGTGTGGAAGATAATGACAGTGTGACCCAC
 ACGACGAAACAAAGAAACAGAAGGTGTCCGAGGGCTGTCTGACCAGCAGTCAGGATGGGGTAGAGAATGA
 CCGTCTACACCGCAGTGAGAACGAGCCTGGGCCTCCAGAAGCTGAAAGCACCGTAAAGATGACGAGAAT
 TCCAGCGCTCAGGTGCAAGAGGAAGAGGAGGAGGAGGAAGAAGACGGCCTTTCAGAAGCAGGGGAAG
 AGGAAGAAGCAGAGAGTTTTGCAGACATGATGAAACATGGGCTCACAGAACTTGATGTGGGCATCTGCAA
 GTTCGTGAGTTCCATCACGGCTTCTCGGGATCTTAAAAGAAAGATACTCTGACTTTGTCGTTACAGAA
 ATCGGGAAAGATGGACGGATCAGCCATTTGGATGACTTATCTGTTCCGGTGGATGAAGAGGACCCTCCAG
 AAGACGCTCTCACTGTCTTGACAGCTGAGGACAGGCAGCAGTTGGAGGAGCTCCAGCTTTTCAAAAATAA
 AGAAACAGTGTGCCATCGAGGTCAATGAGGACACCAAGAGAAGCGAACAGTCATCCATCAAGCCATT
 AAATCTCTCTCCAGGACTAGAGACAAAGACAGAGGATAGAGAGGGGCGAAATACATCGTAGCCCTACC
 ATGCAGCTGGCAAAAAGGCTTTGGCAAATCCAAGAAAACATTCTTGCCAAAATCCCGGGGAAGTACTG
 CCATTTTGTCTCTACAAGAAAACAAAGACACCATGGATGCCATCAATGTTCTATCCAAGTACCTGCGG
 GTAAGGCCAAACATATTCTCTATATGGGAACCAAGACAAAAGGGCAATCACAGTCCAGGAGATTGCTG
 TTCTCAAATAAGTGCACAAAGACTTGCCACCTCAATAAGTGCCTGATGAACCTGAAGCTCGGGAATTT
 CAGCTATCAGAAAACCCCTCTGAAGTTAGGAGCGCTCCAAGGAAACCACTTCACTGTTGTTCTCAGGAAT
 ATAACAGGAAGTATGACAGGTGCAGCAAGCCATGCAGTCTCTGAGGGAGACCGGCTTCATTAAGTACT
 ATGGCATGCAAAGGTTCCGGACACAGCTGTTCCAACGTACCAGGTTGGAAGAGCAATTTACAGAATTC
 CTGGACAGAAGTATGGATTTAATACTGAAACCCGTTCTGGAGCTGAGAAGGGTTACTTGGTGAATGC
 AGAGAAGAAATGGCCAAAGACCAAGACCCAGCCTCTGCTCTCAAAAAGCTGCCCGTCAAAAAGGTGTGTGG
 AAGGGCAGCTGCTCCGAGGACTTCCAGATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATTCC
 AAGAAACAATCGTTAATGTACATCCACAGTTATCAGAGCTACGTGTGGAACACCATGGTGAAGCAGAAGA
 ATTGAGGAGTACGGGCTGAGGCCTGTGCCCGGGACCTTGTCTCAAAGGAGCCACGCCACCTACATTG
 AGGAAGATGACGTTGACAACACTCCATCCACGATGTGGTATGCCTTTGCTGGGTTTGTATGTTATCTA
 CCCAAGCATAAAATCAGCGAGGCTACAGGAAATGCTTGTCTGCAGACAACCTTGATATTGACAACATG
 AGACACAGATTGAGATTACTCTTATCGGGGCTACCGAAGGATCATCATCAGGCCTCAGAGCGTCA
 GCTGGGAAGTTGTTGCATATGATGATCCTAAAATTCACCTTTTCAACACGGATGTGGACAACCTCGAGGG
 GAAACCACCACAGTGTGCTTCTGAAGGCAATACAGGGCTCTGAAGATGGACTTTTCTCTCTCTCTCT
 TCTACTTACGCCACCATGGCCATTGCGAAGTGCTCAAAATGGACACCAGCATCAAGAACCAGACCCAGC
 TAAATACGAGCTGGCTGCGATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001289781

Insert Size: 1983 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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:	<u>NM_001289781.1</u> , <u>NP_001276710.1</u>
RefSeq Size:	4258 bp
RefSeq ORF:	1983 bp
Locus ID:	78697
UniProt ID:	<u>Q91VU7</u>
Cytogenetics:	5 A3
Gene Summary:	<p>Pseudouridylate synthase that catalyzes pseudouridylation of RNAs. 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. Also catalyzes pseudouridylation of mRNAs: mediates pseudouridylation of mRNAs with the consensus sequence 5'-UGUAG-3'. 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.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. Variants 2 and 3 encode the same isoform (2), which lacks an internal segment and is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>