

Product datasheet for **MC228612**

Pus7 (NM_001289780) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Pus7 (NM_001289780) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Pus7 |
| Synonyms: | C330017I15Rik |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC228612 representing NM_001289780
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATGACAAGCACGTCCCTGAAACGTGGGTGCCTTGTGTGGAAGATAATGACAGTGTGACCCAC
 ACGACGAAACAAAGAAACAGAAGGTGTCCGAGGGCTGTCTGACCAGCAGTCAGGATGGGGTAGAGAATGA
 CCGTCTACACCGCAGTGAGAACGAGCCTGGGCCTCCAGAAGCTGAAAGCACCGTAAAGATGACGAGAAT
 TCCAGCGCTCAGGTGCAAGAGGAAGAGGAGGAGGAGGAAGAAGACGGCCTTTCAGAAGCAGGGGAAG
 AGGAAGAAGCAGAGAGTTTTGCAGACATGATGAAACATGGGCTCACAGAACTTGATGTGGGCATCTGCAA
 GTTCGTGAGTTCCATCACGGCTTCTCGGGATCTTAAAGAAAGATACTCTGACTTTGTCGTTACAGAA
 ATCGGGAAAGATGGACGGATCAGCCATTTGGATGACTTATCTGTTCCGGTGGATGAAGAGGACCCTCCAG
 AAGACGCTCTCACTGTCTTGACAGCTGAGGACAGGCAGCAGTTGGAGGAGCTCCAGCTTTTCAAAAATAA
 AGAAACCAAGTGTGCCATCGAGGTCAATGAGGACACCAAGAGAAGCGAACAGTCATCCATCAAGCCATT
 AAATCTCTCTCCAGGACTAGAGACAAAGACAGAGGATAGAGAGGGGCGGAAATACATCGTAGCCATACC
 ATGCAGCTGGCAAAAAGGCTTTGGCAAAGGTGAGAGCTGCTGCAGATCCAAGAAAACATTCTTGCCAAA
 ATCCCAGGGAAGTTACTGCCATTTTGTCTCTACAAAGAAAACAAAGACACCATGGATGCCATCAATGTT
 CTATCCAAGTACCTGCGGGTAAAGCCAAACATATCTCTATATGGGAACCAAGACAAAAGGGCAATCA
 CAGTCCAGGAGATTGCTGTTCTCAAAAATAGTGACAAAGACTTGCCACCTCAATAAGTGCCTGATGAA
 CTTGAAGCTCGGGAATTCAGCTATCAGAAAACCCCTCTGAAGTTAGGAGCGCTCCAAGGAAACCACTTC
 ACTGTTGTTCTCAGGAATATAACAGGAACTGATGAGCAGGTGCAGCAAGCCATGCAGTCTCTGAGGGAGA
 CCGGCTTCATTAACACTACTATGGCATGCAAAGGTTCCGGACCACAGCTGTTCCAACGTACCAGGTTGGAAG
 AGCAATTCACAGAATTCCTGGACAGAAGTCATGGATTTAATACTGAAACCCCGTTCTGGAGCTGAGAAG
 GGTACTTGTGAAATGCAGAGAAGATGGGCCAAGACCAAGACCCAGCCTCTGCTCTCAAAAAGCTGC
 CCGTCAAAAGGTGTGTGGAAGGGCAGCTGCTCCGAGGACTTCCAGATATGGAATGAAGAATATAGTCTC
 TGCATTTGGCATAATCCAAGAAACAATCGCTTAATGTACATCCACAGTTATCAGAGCTACGTGTGGAAC
 ACCATGGTGAGCAGAAGAATTGAGGAGTACGGGCTGAGGCCTGTGCCCGGGACCTTGTCTCAAAGGAG
 CCACGCCACCTACATTGAGGAAGATGACGTTGACAACACTCCATCCACGATGTGGTGTGCTTTGCC
 TGGGTTTGATGTTATCTACCCAAAGCATAAAATCAGCGAGGCCTACAGGGAAATGCTTGTGTCGACACAAC
 CTTGATATTGACAACATGAGACACAGATTCGAGATTACTCCTTATCGGGGCCTACCGAAGGATCATCA
 TCAGGCCTCAGAGCGTCAGCTGGGAAGTTGTTGCATATGATGATCCTAAAATCCACTTTTCAACACGGA
 TGTGGACAACCTCGAGGGGAAACCACCACAGTGTGCTTCTGAAGGCAAAATACAGGGCTCTGAAGATG
 GACTTTTCTCTTCTCTTACTTACGCCACCATGGCCATTCGAGAAGTGTCAAAATGGACACCAGCA
 TCAAGAACCAGACCCAGCTAAATACGAGCTGGCTGCGA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: NM_001289780

Insert Size: 2001 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.

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| 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_001289780.1</u> , <u>NP_001276709.1</u> |
| RefSeq Size: | 3925 bp |
| RefSeq ORF: | 2001 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 (1) encodes the longer isoform (1).</p> |