

Product datasheet for **MC203665**

Pus7 (NM_178403) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Pus7 (NM_178403) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Pus7 |
| Synonyms: | C330017115Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC008544
 GGCTGGTGGGATAACCCGTCCTGTGCGTCTCCACGCGGTGCAGCCTGTGCTGGTCCGCGCTGGCCGCCG
 CCTCTGCGAGTACCCGCGCCGCCCTCCCGCTCCCGAGCCGAGCGTCTCTTCGCGCTGGCCCGCG
 CCCTCAGGCTCCCGGTTCTTAAATGTTTTCTTGAGCCTTAAAGATGGAAATGACAAGCACGTCCCTG
 AAACGTGGGTGCCTTGTGTGGAAGATAATGACAGTGTGACCCACACGACGAAACAAAGAAACAGAAGG
 TGTCGAGGGCTGTCTGACCAGCAGTCAGGATGGGGTAGAGAATGACGGTCTACACCGCAGTGAGAACGA
 GCCTGGGCTCCAGAAGCTGAAAGCACCGTAAAGATGACGAGAATCCAGCGCTCAGGTGCAAGAGGAA
 GAGGAGGAGGAGGAGGAAAGACGGCCTTTCAGAAGCAGGGAAAGAGGAAGAAGCAGAGAGTTTTGCAG
 ACATGATGAAACATGGGCTCACAGAACTTGATGTGGGCATCTGCAAGTTCGTGAGTTCATCATGGCTT
 CTCAGGGATCTTAAAGAAAGATACTCTGACTTTGTCGTTACGAAATCGGGAAAGATGGACGGATCAGC
 CATTGGATGACTTATCTGTTCCGGTGGACGAAGAGGACCCTCCAGAAGACGCTCTCACTGTCTTGACAG
 CTGAGGACAGGCAGCAGTTGGAGGAGCTCCAGCTTTTCAAAAATAAGAAACCAGTGTGCCATCGAGGT
 CATTGAGGACACCAAGAGAAGCGAACAGTCATCCATCAAGCCATTAATCTCTCTTCCAGGACTAGAG
 ACAAGACAGAGGATAGAGAGGGCGGAAATACATCGTAGCCTACCATGCAGCTGGCAAAAAGGCTTTGG
 CAAATCCAAGAAAACATTCTTGCCAAAATCCCGGGGAAGTTACTGCCATTTTGTCTCTACAAGGAAAA
 CAAAGACACCATGGATGCCATCAATGTTCTATCCAAGTACCTGCGGGTAAAGCCAAAACATATTCTCCTAT
 ATGGGAACCAAGACAAAAGGGCAATCACAGTCCAGGAGATTGCTGTTCTCAAAAATAAGTGCACAAAGAC
 TTGCCACCTCAATAAGTGCCTGATGAACCTGAAGCTCGGGAATTTACAGTATCAGAAAACCCCTCTGAA
 GTTAGGAGCACTCAAGGAAACCACTTCACTGTTGTTCTCAGGAATATAACAGGAACTGATGAGCAGGTG
 CAGCAAGCCATGCAGTCTCTGAGGGAGACCGGCTTCACTAACTACTATGGCATGCAAAAGTTTCGGGACCA
 CAGCTGTTCAACGTACCAGTTGGAAGAGCAATTCTACAGAATCCTGGACAGAAGTATGAGTTAAT
 ACTGAAACCCGTTCTGGAGCTGAGAAGGTTACTTGGTAAATGCAGAGAAGAATGGCCAAAGACCAAA
 GACCCAGCCTCTGCTCTCAAAAAGCTGCCGTCAAAAGTGTGTGGAAGGGCAGCTCCGAGGACTTT
 CCAGATATGGAATGAAGAATATAGTCTCTGCAATTTGGCATAATTCCAAGAAACAATCGCTTAATGTACAT
 CCACAGTTATCAGAGCTATGTGTGGAACACCATGGTGAGCAGAAGAATTGAGGAGTACGGCTGAGGCC
 GTGCCCGGGACCTTGTCTCAAAGGAGCCACGCCACCTACATTGAGGAAGATGACGTTGACAACACTACT
 CCATCCACGATGTGGTATGCCTTTGCCTGGGTTTGTATCTACCCCAAGCATAAAAACAGTGAAGG
 CTACAGGGAAATGCTTGTGCAGACAACCTTGATATTGACAACATGAGACACACGATTGAGATTACTCC
 TTATCGGGGGCTACAGAAGGATCATCATCAGGCCTCAGAGCGTCAGCTGGGAAGTTGTTGCATATGATG
 ATCCTAAAATCCACTTTTCAACACGGATGTGGACAACCTCGAGGGGAAACCACCACAGTGTGGCTTC
 TGAAGGCAAAACAGGGCTCTGAAGATGGACTTTTCTCTCTCTCTACTTACGCCACCATGGCCATT
 CGAGAAGTGCTCAAAATGGACACCAGCATCAAGAACCAGCCAGCTAAATACGAGCTGGCTGCGATGAA
 CAGTGCATCGCTCAGAGAGGGGATGCAGACCTGCTTCTGACCTCCTATTCTGGTCTTTTTTAAGTGCTG
 ACTCATGTTTGGAGTTTAAAACCTTTTGTAGTAAAGGATGATTTGTATTTGTAAAGTTTTTAATCAGCTT
 AAATACTTTGCAATATTTGTACACATATAACAAGTCCAGGATCCTAATTTACAGCTCAGAGATAGAATTG
 GGTGAGCATATCCTGTAGGTGCTTAGATTCTAGTACAGCATCAGCTTCTGCCTTAAACACAGGGAAAGG
 GGACTTGGTTTAAAGTTGCGGTTTTAGGTTTTGCTGCACACCTGAAGTACAAACCAGAATCTTAGATGTT
 TGTGATGAGATTACACATGGTCCGTGTGAGGCAAAATGCAGCAGACTGAAAACAGAGACTGCACACTTA
 ACACGCACTTCCCGTGTGGTTTTCAATAATAACAAAACATCCACGGGTTTATAAACACGGCGTGGCTTTT
 GTTGAGTGACTGTGTTAGCTTCAGGTGAGCATTTATACACATCTTAGCTTGCAAGTGGCTTTTCTGGTTAG
 TCTATCAGCATCTTTCAGGGCAGTCTTTTCTTGTATAGGAGCCTGTAGCTTTTCTGGGTACAGTCTGAT
 TTTACTCTGGGTGCCTTACTTTTCAAGACCTTTTCACTGGACTCAAAAGTAAATAGTGTGAGTTCCAGG
 ACAGCCAGGGCTACACAGAGAAACCTGTCTCGAACGAAAAAACAACAAACAAAGGTAATAGTGAC
 CATGAAGGAAATCTGGGAACTTAGAATGGCTCCTGCAGCCAGGCGTGGTGGCCACGCTTAAATCCAG
 CCCCCGGAGGCAGAGGCAGGCGGATTTCTGAGTTCAAGGCCATCTGGTCTACAGAGTGAATTCAGGA
 CAGAGAAACCTGTCTCAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_178403
Insert Size: 1983 bp

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| 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). |
| 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: | BC008544 , AAH08544 |
| RefSeq Size: | 3137 bp |
| RefSeq ORF: | 1983 bp |
| Locus ID: | 78697 |
| UniProt ID: | Q91VU7 |
| 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 (3) 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.</p> |