

Product datasheet for **MC228176**

Pus10 (NM_001033654) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pus10 (NM_001033654) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pus10
Synonyms:	2810013G11Rik; 4933435A13Rik; AU014648; C77560; Ccdc139
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228176 representing NM_001033654
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTCCACTGACTGAGGAGAACAAGCACGTGGCACAGCTGTTGTTTCAGTTCTGGCACCTGTCCAAGAT
 GCATCTTAAGATTCTGTGGTGTGGATCTTCCCGCACCTTACAAACACCCATCCAAGGAGTTGCTCAATGA
 GCTACAAAAATTTCTAGAACCGGAAAACTGAATTAATTTTAGAAGCTCAAACCACCACTTGAAGAAA
 ATTCGTCTACATGAAGATGGATTGATAATTTGAGTGAAGATGGAAAGGAGGGAGTCTCTGTTACTGAAG
 ATGAAAGCATGGCTGAGAAGCCTTCAAAGCTGAGAGTGTGCAATGTTTGCTTAGGAATCTTCAGGAATT
 CTGTGAGAAGGGTTTATTACGAAGGTGTGCCAAAAGTTGAAGCCTCTGGGTTTGAATTCACCAGCGTG
 GTTTTATCTGTCTCCTTCCACCGCAGCTGTCTGTAAGAGAGCATGCTGCATGGTTGCTGGTAAAACAGG
 AAATGGGAAAGCAGAGTCTGTCCCTGGGAAGAAATGATGTAGTCCAGCTGAAAGAAGCCTACAAGTGGAT
 AACTCACCCCTGTTTTAGAGGAGCTGGGCGTCCCAGTGTGAAAGAGCTTGTTCGAAGTGAAGCGTG
 GTCTTTGCTCATCCAGAAACAGCTGAAGATTGCCATTTCTAGGTGAAGTTTGCCGAGATTGTTTCAAAC
 CAGCTAAAAATAAACAGTCGGTATTTACCAAGATGGCAGTTTTGAAAGCTTTGAGTAAGATAAAGAAAGA
 AGACTTCTCGGGCAATTTCTTGTCTCCAAACTCACCGAAGACTGTATGCACTGTCTTGAAGTTGAG
 TGCACTCATGGTCTGTTTTGTCTGCTGGCAGATATAATAAATACTCCAGGAATCTACCACAACTCCTT
 GGATAATTGATGGAGAAAGGAAAATGGAATCTTCGGTGGAGAATAATTTAGATCATCTTCTGGCAGT
 ATTCAGAGCAGAGAGTTTTAATTTCTCATCCTCGGACGAGAAGACGTAGACGTGAGAACATTAGGAAAT
 GGAAGGCCCTTTGAGTTGAACCTCTGAATCCTCATCGAGTGCATTTACCTCACAAAGAAATGAAGGAGC
 TCCAGCAGACAATTAATAATCATCTGACAAAATCCAAGTCCGTGACTTGCAGCTTGTACCAGGGAGGC
 AATAGGGCATATGAAGGAAGGTGAGGAAGAAAAGACTAAGACCTACAGTGCCTTGATATGGACGAATAGA
 GCTATCCAGAAGAAGGACATTGGGTTTCTGGACGACTTAAAGGACTTAAAGATTGACCAGAAAAACCTC
 TCCGAGTCTTCCACGAAGGCCTTTGGCTGTGAGAACTCGGGCCATTCAGTCTATGAAGACACACTACCT
 GGATGAGCATCATTTTCTGTGATTTGAAGACCAAGCTGGAACCTACATTAAGAATTTGTACATGGA
 GACTTTGGGAGAACCAACCAACCTTGGCTCTTTGATGAACGTGACTGCAGACATTCTTGAGCTGGATG
 TGGAGTCTGTAGATGTTGACTGGCCGCTGCTCTGGATGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001033654

Insert Size: 1584 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:

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_001033654.2](#), [NP_001028826.1](#)

RefSeq Size: 3177 bp

RefSeq ORF: 1584 bp

Locus ID: 74467

UniProt ID: [Q9D3U0](#)

Cytogenetics: 11

Gene Summary: Pseudouridylate synthases catalyze pseudouridination of structural RNAs, including transfer, ribosomal, and splicing RNAs. PUS10 catalyzes the formation of the universal psi55 in the GC loop of transfer RNAs (Probable). Modulator of TRAIL-induced cell death via activation of procaspase 8 and BID cleavage. Required for the progression of the apoptotic signal through intrinsic mitochondrial cell death (By similarity).[UniProtKB/Swiss-Prot Function]