

Product datasheet for **MC207521**

Pus1 (NM_001025562) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pus1 (NM_001025562) Mouse Untagged Clone
Tag: Tag Free
Symbol: Pus1
Synonyms: A730013B20Rik; MPUS1; mPus1p
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207521 representing NM_001025562
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGGAACAAGGTGCCACCAGCGCTGGCCTCACACCAACCGGACAGGAAGGGCCGAGGTGGCTGGG
 TCTGGGAGGAGACGGAGCATCCTGCAAAGAGGGTCAAGGGCGGCGAGGATGAAGAGCCCCACGCAAGCT
 GCCAAAGCGAAAAATTGTGCTGCTCATGGCCTACTCGGGCAAGGGCTACCACGGCATGCAGAGGAATCTG
 GGGTCTCCCAAGTTCAGGACCATCGAAGATGACTTGGTATCGGCCTTAGTCCAGGCAGGTTGTATCCCTG
 AAAACCATGGCACAGATATGAGGAAGATGTCTTCCAGCGGTGTGCTCGAACAGACAAGGTTGTGTCTGC
 AGCAGGGCAGGTGGTATCCCTAAAGGTGTGGCTGATTGATGACATTCTGGACAAGATCAACAGCCACCTT
 CCATCCCACATTCGGATTCTGGGATTGAAGAGGGTACAGGGCGGTTCAACTCCAAGAACAAGTGTGACG
 CCAGGACCTACTGCTACATGCTGCCACCTTGCCTTGTCTACAAGGACCGGGATGTACAGGACGAGAG
 CTATCGCCTGAGTGCAGAGACCTGCAGCAGGTCAACCGCCTTCTGGCCTGCTACAAAGGCACCCATAAC
 TTCCATAACTTCACCTCGCAGAAGGGCCCAAGAGAGCCAGTGCAGCGCCGCTACATTCTGGAGATGTACT
 GCGAAGAGCCCTTCGTACGTGAGGGCCTGGAGTTTGTGTGATCAAGGTGAAGGGCCAGAGCTTTCATGAT
 GCACCAGATCCGGAAGATGGTTGGCCTGGTGGTAGCCATTGTGAAGGGTTATGCCCTGAGAGTGTCTGT
 GAGCGCAGCTGGGAGAGGAGAAGGTGGATGTGCCAAGGCACCCGGGCTTGGCTTAGTCCCTGGAGAGGG
 TTCACCTTTGAAAAGTACAATCAACGCTTTGGCGGTGACGGGCTGCATGAGCCCCTGGACTGGACGCAGGA
 GGAAGGGAAGGTGACTGCTTTCAAGGAGCAGTACATTTACCCTACCATTGTGAGCACTGAGCGGGATGAG
 CGGTCCATGGCCAGTGGCTCAATACTTTGCCGATCCACAACCTCAGTGGCACTGCACCTGGAGCGGCTG
 ACACAGGTGCCAAGGTCCCAAGTTCCTGGAGGGCAGTGAAGGGGATGGAGACACTGAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul



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ACCN:	NM_001025562
Insert Size:	1182 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).
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_001025562.2, NP_001020733.1</u>
RefSeq Size:	1535 bp
RefSeq ORF:	1182 bp
Locus ID:	56361
UniProt ID:	<u>Q9WU56</u>
Cytogenetics:	5 F
Gene Summary:	Converts specific uridines to PSI in a number of tRNA substrates. Acts on positions 27/28 in the anticodon stem and also positions 34 and 36 in the anticodon of an intron containing tRNA (PubMed:10094309). Involved in regulation of nuclear receptor activity possibly through pseudouridylation of SRA1 RNA (PubMed:15327771). Isoforms 3 and 4 do not form pseudouridine when expressed in vitro (PubMed:11085940).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) uses an alternate splice site in the 5' UTR and 5' coding region and lacks an in-frame segment in the coding region, as compared to variant 1. These differences cause translation initiation at a downstream AUG and an encoded protein (isoform 3) that is shorter than isoform 1. Variants 3 and 6 both encode the same isoform (3).