

Product datasheet for **MG222796**

Pus1 (NM_001025561) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pus1 (NM_001025561) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pus1
Synonyms: A730013B20Rik; MPUS1; mPus1p
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222796 representing NM_001025561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTTCCCCCGCTGTGGGCCGCACTGCTGAGAACTGGGGACGGTGGACGGCGGCCAGGCCCGC
 GCGTGCCCGCCTGCCGCTATGGCTGGAACAAGGTGCCACCAGCGCTGGCCTCACACCAACCGGACAG
 GAAGGGCCGAGGTGGCTGGGTCTGGGAGGAGACGGAGCATCCTGCAAAGAGGGTCAAGGGCGCGGAGGAT
 GAAGAGCCCCACGCAAGCTGCCAAAGCGAAAAATTGTGCTGCTCATGGCCTACTCGGGCAAGGGCTACC
 ACGGCATGCAGAGGAATCTGGGGTCTCCAGTTCAGGACCATCGAAGATGACTTGGTATCGGCCTTAGT
 CCAGGCAGGTTGTATCCCTGAAAACCATGGCACAGATATGAGGAAGATGTCTTCCAGCGGTGTGCTCGA
 ACAGACAAGCCTTTGAGGACCTCTGCCTGCTTTTGCCTGTACACTGGCTTCTCTTCCACTGGGGTGTGT
 CTGCAGCAGGGCAGGTGGTATCCCTAAAGGTGTGGCTGATTGATGACATTCTGGACAAGATCAACAGCCA
 CCTTCCATCCCACATTCCGATTCTGGGATTGAAGAGGGTACAGGCGGGTTCAACTCCAAGAACAAGTGT
 GACGCCAGGACCTACTGCTACATGCTGCCACCTTTGCCCTTGTCTACAAGGACCGGGATGTACAGGACG
 AGAGCTATCGCCTGAGTGCAGAGACCTGCAGCAGGTCAACCGCCTTCTGGCCTGCTACAAAGGCACCCA
 TAACCTCCATAACTTCACCTCGCAGAAGGGCCCAAGAGAGCCCAGTGCCGCGCCGTACATTCTGGAGATG
 TACTGCGAAGAGCCCTTCGTACGTGAGGGCTGGAGTTTGTGTGATCAAGGTGAAGGGCCAGACTTCA
 TGATGCACCAGATCCGGAAGATGGTTGGCCTGGTGGTAGCCATTGTGAAGGGTTATGCCCTGAGAGTGT
 CCTGGAGCGCAGCTGGGAGAGGAGAAGGTGGATGTGCCAAGGCACCCGGGCTTGGCTTAGTCCTGGAG
 AGGGTTCACTTTGAAAAGTACAATCAACGCTTTGGCGGTGACGGGCTGCATGAGCCCTGGACTGGACGC
 AGGAGGAAGGGAAGGTGACTGCTTTCAAGGAGCAGTACATTTACCTACCATTGTCAGCACTGAGCGGGA
 TGAGCGGTCCATGGCCAGTGGCTCAATACTTTGCCGATCCACAACCTCAGTGGCACTGCACTTGGAGCG
 GCTGACACAGGTGCCAAGTCCCGAGTTCCTGGAGGGCAGTGAAGGGGATGGAGACTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222796 representing NM_001025561
 Red=Cloning site Green=Tags(s)

MGFPRLWAALLRNWGRWTARPGPRVPLPPMAGNKVPPALASHQPDRKGRGGWVWEETEHPAKRVKGGED
 EEPRLKPKRKIVLLMAYSGKGYHGMQRNLGSSQFRTIEDDLVSALVQAGCIPENHGTDMRKMSFQRCAR
 TDKPLRTSACFCLYTGF LFHWGVSAAAGQVVSLKVWLIDDILDKINSHLP SHIRILGLKRVTGGFNSKNKC
 DARTYCYMLPTFAFAHKDRDQDESYRLSAETLQQVNRLLACYKGTNHNFTSQKGPREPSARRYILEM
 YCEEPFVREGLEFAVIKVKGQSFMMHQIRKMGVLYVAIVKGYAPESVLER SWGEEKVDVPKAPGLGLVLE
 RVHFEKYNQRFGGDGLHEPLDWTQEKGVTAFKEQYIYPTIVSTERDERSMAQWLNTLPIHNFSGTALGA
 ADTGAKVPSLEGSEGDGDTD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001025561

ORF Size: 1323 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001025561.3](#), [NP_001020732.1](#)

RefSeq Size: 1868 bp

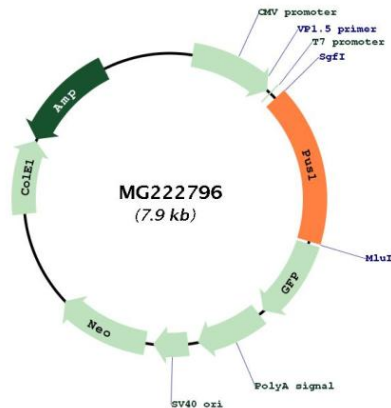
RefSeq ORF: 1326 bp

Locus ID: 56361

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]

Product images:



Circular map for MG222796