

Product datasheet for **MR222787**

Pus1 (NM_019700) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pus1 (NM_019700) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pus1
Synonyms:	A730013B20Rik; MPUS1; mPus1p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222787 representing NM_019700
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTTCCCCCGCTGTGGCCGCACTGCTGAGAACTGGGGACGGTGGACGGCGGCCAGGCCCGC
 GGGTGCCCGCCTGCCGCTATGGCTGGAAACAAGGTGCCACCAGCGCTGGCCTCACACCAACCGGACAG
 GAAGGGCCGAGGTGGCTGGTCTGGGAGGAGACGGAGCATCCTGCAAAGAGGGTCAAGGGCGCGAGGAT
 GAAGAGCCCCACGCAAGCTGCCAAAGCGAAAAATTGTGCTGCTCATGGCCTACTCGGGCAAGGGTACC
 ACGGCATGCAGAGGAATCTGGGGTCTCCAGTTCAGGACCATCGAAGATGACTTGGTATCGGCCTTAGT
 CCAGGCAGTTGTATCCCTGAAAACCATGGCACAGATATGAGGAAGATGTCCTTCCAGCGGTGTGCTCGA
 ACAGACAAGGGTGTGCTGCAGCAGGGCAGGTGGTATCCCTAAAGGTGTGGCTGATTGATGACATTCTGG
 ACAAGATCAACAGCCACCTTCCATCCCACATTCGGATTCTGGGATTGAAGAGGGTACAGGCGGGTCAA
 CTCCAAGAACAAGTGTGACGCCAGGACCTACTGCTACATGCTGCCACCTTTGCCTTTGCTCACAAGGAC
 CGGGATGTACAGGACGAGAGCTATCGCCTGAGTGCAGAGACCCTGCAGCAGGTCAACCGCCTTCTGGCCT
 GCTACAAAGGCACCCATAACTTCCATAACTTCACCTCGCAGAAGGGCCCAAGAGAGCCAGTGGCGGCCG
 CTACATTCTGGAGATGTACTGCGAAGAGCCCTTCGTACGTGAGGGCCTGGAGTTTGTGTGATCAAGGTG
 AAGGGCCAGAGCTTATGATGCACCAGATCCGGAAGATGGTTGGCCTGGTGGTAGCCATTGTGAAGGGTT
 ATGCCCTGAGAGTGTCTGGAGCGCAGCTGGGGAGAGGAGAAGGTGGATGTGCCAAGGCACCCGGGCT
 TGGCTTAGTCTGGAGAGGGTTCACCTTGAAGTACAATCAACGCTTTGGCGGTGACGGGCTGCATGAG
 CCCCTGGACTGGACGCAGGAGGAAGGGAAGGTGACTGCTTCAAGGAGCAGTACATTTACCTACCATGG
 TCAGCACTGAGCGGGATGAGCGGTCCATGGCCAGTGGCTCAATACTTTGCCGATCCACAACCTTCAGTGG
 CACTGCACCTGGAGCGGCTGACACAGGTGCCAAGTCCCAGTTCCTTGGAGGGCAGTGAAGGGGATGGA
 GACTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222787 representing NM_019700
 Red=Cloning site Green=Tags(s)

MGFPRLWAALLRNWGRWTARPGPRVPLPPMAGNKVPPALASHQPDRKGRGGWWEETEHPAKRVKGGED
 EEPRLPKRKIVLLMAYSGKGYHGMQRNLGSSQFRTIEDDLVSALVQAGCIPENHGTDMRKMSFQRCAR
 TDKGVSAAGQVSLKVLIDDLKINSHLPSHIRILGLKRVTTGGFNSKNKCDARTYCYMLPTFAFAHKD
 RDVQDESYRLSAETLQQVNRLACYKGTNHFHNFSTQKGPREPSARRYILEMYCEEPFVREGLEFAVIKV
 KGQSFMMHQIRKVMVGLVVAIVKGYAPESVLEERSWGEKVDVVPKAPGLGLVLERVHFEKYNQRFGGDLHE
 PLDWTQEEGKVTAFKEQYIYPTIVSTERDERSMAQWLNTLPIHNFSGTALGAADTGAKVPSLEGSEGDG
 DTD

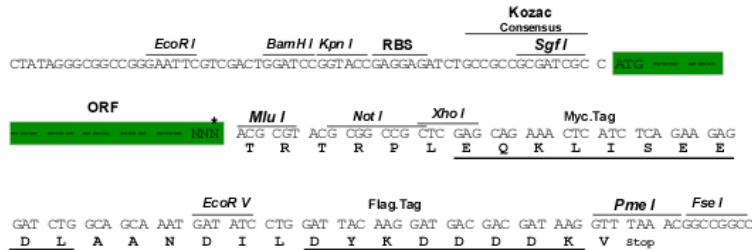
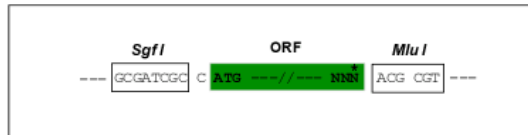
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_019700

ORF Size: 1269 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_019700.4](#), [NP_062674.2](#)
RefSeq Size: 1838 bp

RefSeq ORF: 1272 bp

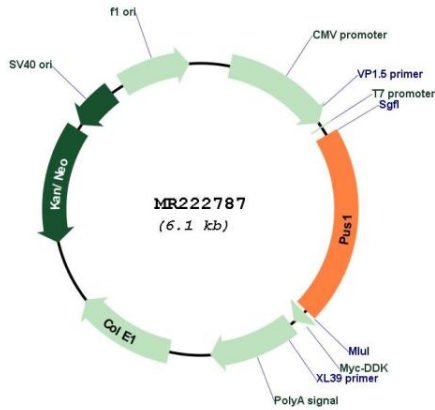
Locus ID: 56361

UniProt ID: [Q9WU56](#)
Cytogenetics: 5 F

MW: 48 kDa

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 MR222787