

Product datasheet for **MR206726**

Pus1 (NM_001025562) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pus1 (NM_001025562) 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:

>MR206726 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTTCCCCGCCTGTGGCCGCACTGCTGAGAACTGGGGACGGTGGACGGCGGCCAGGCCCGC
 GGGTGCCCGCCTGCCGCTATGGCTGGAAACAAGGTGCCACCAGCGCTGGCCTCACACCAACCGGACAG
 GAAGGGCCGAGGTGGCTGGTCTGGGAGGAGACGGAGCATCCTGCAAAGAGGGTCAAGGGCGCGAGGAT
 GAAGAGCCCCACGCAAGCTGCCAAAGCGAAAAATTGTGCTGCTCATGGCCTACTCGGGCAAGGGTACC
 ACGGCATGCAGAGGAATCTGGGGTCTCCAGTTCAGGACCATCGAAGATGACTTGGTATCGGCCTTAGT
 CCAGGCAGTTGTATCCCTGAAAACCATGGCACAGATATGAGGAAGATGTCCTTCCAGCGGTGTGCTCGA
 ACAGACAAGGGTGTGCTGCAGCAGGGCAGGTGGTATCCCTAAAGGTGTGGCTGATTGATGACATTCTGG
 ACAAGATCAACAGCCACCTTCCATCCCACATTCGGATTCTGGGATTGAAGAGGGTACAGGCGGGTCAA
 CTCCAAGAACAAGTGTGACGCCAGGACCTACTGCTACATGCTGCCACCTTTGCCTTTGCTCACAAGGAC
 CGGGATGTACAGGACGAGAGCTATCGCCTGAGTGCAGAGACCCTGCAGCAGGTCAACCGCCTTCTGGCCT
 GCTACAAAGGCACCCATAACTTCCATAACTTCACCTCGCAGAAGGGCCCAAGAGAGCCCAGTGGCGGCCG
 CTACATTCTGGAGATGTACTGCGAAGAGCCCTTCGTACGTGAGGGCCTGGAGTTTGTGTGATCAAGGTG
 AAGGGCCAGAGCTTATGATGCACCAGATCCGGAAGATGGTTGGCCTGGTGGTAGCCATTGTGAAGGGTT
 ATGCCCTGAGAGTGTCTGGAGCGCAGCTGGGGAGAGGAGAAGGTGGATGTGCCAAGGCACCCGGGCT
 TGGCTTAGTCTGGAGAGGGTTCACCTTGAAGTACAATCAACGCTTTGGCGGTGACGGGCTGCATGAG
 CCCCTGGACTGGACGCAGGAGGAAGGAAGGTGACTGCTTCAAGGAGCAGTACATTTACCTACCATGG
 TCAGCACTGAGCGGGATGAGCGGTCCATGGCCAGTGGCTCAATACTTTGCCGATCCACAACCTTCAGTGG
 CACTGCACCTGGAGCGGCTGACACAGGTGCCAAGTCCCAGTCCCTGGAGGGCAGTGAAGGGGATGGA
 GACTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206726 protein sequence
 Red=Cloning site Green=Tags(s)

MGFPRLWAALLRNWGRWTARPGPRVPLPPMAGNKVPPALASHQPDRKGRGGWWEETEHPAKRVKGGED
 EEPRLPKRKIVLLMAYSGKGYHGMQRNLGSSQFRTIEDDLVSALVQAGCIPENHGTDMRKMSFQRCAR
 TDKGVSAAGQVSLKVWLIDDILDKINSHLPSHIRILGLKRVTTGGFNSKNKCDARTYCYMLPTFAFAHKD
 RDVQDESYRLSAETLQQVNRLACYKGFHNFHFTSQKGPREPSARRYILEMYCEEPFVREGLEFAVIKV
 KGQSFMMHQIRKVMGLVVAIVKGYAPESVLEERSWGEKVDVVPKAPGLGLVLERVHFEKYNQRFGGDGLHE
 PLDWTQEEGKVTAFKEQYIYPTIVSTERDERSMAQWLNTLPIHNFSGTALGAADTGAKVPSLEGSEGDG
 DTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001025562

ORF Size: 1272 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 Size: 1535 bp

RefSeq ORF: 1182 bp

Locus ID: 56361

UniProt ID: [Q9WU56](#)

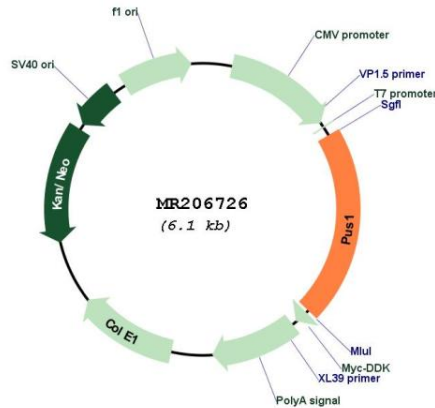
Cytogenetics: 5 F

MW: 47.5 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 MR206726