

Product datasheet for **RR204099**

Pus1 (NM_001025563) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pus1 (NM_001025563) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pus1
Synonyms:	MGC112655
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR204099 representing NM_001025563
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCTTCCCCGCCTGTGGCCGCACTGCTGAGAGCCTGGGGACGGTGGACGGCGGCCAGGCCCGC
 GCGTGCCCGCCTGCCGCTATGGCTGGAAACAAGGTGCCACCAGCGCTGCCCTCACACCAGCCGGACAG
 GAAGGGCCGAGGTGGCTGGGTTTGGGAGGAGACGGAGCATCCTGCCAAGAGGGTCAAGGGCGGTGAGGAT
 GAAGAGCCTCCACGCAAGCTGCCAAAGCGCAAAATTGTGCTGCTCATGGCCTACTCCGGCAAGGGCTACC
 ACGGCATGCAGAGGAATCTGGGGTCTCCAGTTCAGGACCATCGAAGATGACTTGGTATCTGCCTTAGT
 CCAGGCAGGTTGTATCCCTGAAAACCATGGCACAGATATGAGGAAGATGTCTTCCAGCGATGTGCTCGC
 ACAGACAAGGGTGTGTCTGCAGCTGGCAGGTGGTATCCCTAAGGTGTGGCTAATTGATGACATCTGG
 ACAAGATCAACAGCCACCTTCCATCCCATTTCGGATTCTGGGACTGAAGAGGGTACAGGTGGGTTCAA
 CTCCAAGAACAAGTGTGACGCCAGGACCTATTGCTACATGCTACCTACCTTTGCCTTTGCTCATAAGGAC
 CGGGATGTACAGGATGAGAGCTATCGCCTAAGTGCAGAGACCCTGCAGCAGGTCAACCGGCTTCTGGGCT
 GCTACAAAGGCACGCATAACTTCCATAACTTCACATCACAGAAGGGGCCGAGAGCCTAGTGCACGCCG
 CTACATTCTGGAGATGTACTGCGAGGAGCCCTTTGTTCCGGAGGGCCTGGAGTTTGTGTGATCAAGGTG
 AAGGGCCAGAGCTTATGATGCACCAGATCCGGAAGATGGTTGGCCTGGTGGTAGCCATTGTCAAGGGTT
 ATGCCCTGAGAGTGTCTGGAGCGAAGTTGGGGTGGAGGAGAAGGTGGATGTGCCAAGGCACCAGGGCT
 TGGCTTAGTCTGGAGAGGGTCACTTTGAGAAGTACAATCAACGCTTTGGCAGTGACGGGCTGCATGAG
 CCCCTGGACTGGGCACAGGAGGAAGGGAAGGTGACTGCTTTCAAGGAGCAATACATCTACCTACCATGG
 TCAGCACTGAGCGGGATGAGCGGTCCATGGCCAGTGGCTTAACACTTTGCCGATCCACAACCTTCAGTGG
 CACTGCACCTGGAGCGGATGACACAGGTGCCAAGTCCCAGCTCCCTGGAGGGCAGTGAAGGGGATGGA
 GACTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204099 representing NM_001025563
 Red=Cloning site Green=Tags(s)

MGFPRLWAALLRAWGRWTARPGPRVPLPPMAGNKVPPALPSHQPDRKGRGGWWEETEHPAKRVKGGED
 EEPRLPKRKIVLLMAYSGKGYHGMQRNLGSSQFRTIEDDLVSALVQAGCIPENHGTDMRKMSFQRCAR
 TDKGVSAAGQVSLKVLIDDLKINSHLPSHIRILGLKRVTTGGFNSKNKCDARTYCYMLPTFAFAHKD
 RDVQDESYRLSAETLQQVNRLGKYKGFHNFHFTSQKGPREPSARRYILEMYCEEPFVREGLEFAVIKV
 KGQSFMMHQIRKVMGLVVAIVKGYAPESVLEERSWGEKVDVVPKAPGLGLVLERVHFEKYNQRFSDGLHE
 PLDWAQEEGKVTAFKEQYIYPTIVSTERDERSMAQWLNTLPIHNFSGTALGADDTGAKVPSLEGSEGDG
 DTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001025563

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_001025563.1](#), [NP_001020734.1](#)

RefSeq Size: 1809 bp

RefSeq ORF: 1272 bp

Locus ID: 304567

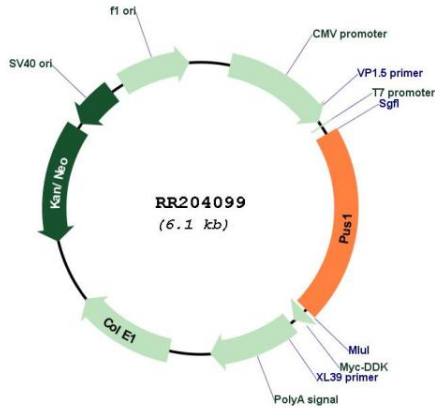
UniProt ID: [Q4KM92](#)

Cytogenetics: 12q16

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. Involved in regulation of nuclear receptor activity through pseudouridylation of SRA1 RNA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR204099