

Product datasheet for **MR209845**

Pus7 (NM_178403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pus7 (NM_178403) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pus7
Synonyms:	C330017115Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR209845 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAATGACAAGCACGTCCCTGAAACGTGGGTGCCTTGTGTGGAAGATAATGACAGTGTGACCCAC
ACGACGAAACAAAGAAACAGAAGGTGTCCGAGGGCTGTCTGACCAGCAGTCAGGATGGGGTAGAGAATGA
CGGTCTACACCGCAGTGAGAACGAGCCTGGGCCTCCAGAAGCTGAAAGCACCGTAAAGATGACGAGAAT
TCCAGCGCTCAGGTGCAAGAGGAAGAGGAGGAGGAGGAGGAAGACGGCCTTTCAGAAGCAGGGGAAG
AGGAAGAAGCAGAGAGTTTTGCAGACATGATGAAACATGGGCTCACAGAACTTGATGTGGGCATCTGCAA
GTTCTGTGAGTTCCCATCATGGCTTCTCAGGGATCTTAAAGAAAGATACTCTGACTTTGTCGTTCCAGAA
ATCGGGAAAGATGGACGGATCAGCCATTTGGATGACTTATCTGTTCCGGTGGACGAAGAGGACCCTCCAG
AAGACGCTCTCACTGTCTTGACAGCTGAGGACAGGCAGCAGTTGGAGGAGCTCCAGCTTTTCAAAAATAA
AGAAACCAAGTGTGCCATCGAGGTCAATGAGGACACCAAGAGAAGCGAACAGTCATCCATCAAGCCATT
AAATCTCTCTCCAGGACTAGAGACAAAGACAGAGGATAGAGAGGGGCGGAAATACATCGTAGCCTACC
ATGCAGCTGGCAAAAAGGCTTTGGCAAATCCAAGAAAACATTCTTGCCAAAATCCCGGGGAAGTACTG
CCATTTTGTCTCTACAAGGAAAACAAAGACACCATGGATGCCATCAATGTTCTATCCAAGTACCTGCGG
GTAAGGCCAAACATATTCTCCTATATGGGAACCAAGACAAAAGGGCAATCACAGTCCAGGAGATTGCTG
TTCTCAAATAAGTGCACAAAGACTTGCCACCTCAATAAGTGCCTGATGAACCTGAAGCTCGGGAATTT
CAGCTATCAGAAAACCCCTCTGAAGTTAGGAGCACTCCAAGGAAACCACTTCACTGTTGTTCTCAGGAAT
ATAACAGGAAGTATGAGCAGGTGCAGCAAGCCATGCAGTCTCTGAGGGAGACCGGCTTCATTAAGTACT
ATGGCATGCAAAGGTTCCGGACCAAGCTGTTCCAACGTACCAGGTTGGAAGAGCAATTCACAGAATTC
CTGGACAGAAGTCATGGATTTAATACTGAAACCCGTTCTGGAGCTGAGAAGGGTTACTTGGTGAATGC
AGAGAAGAATGGGCCAAGACCAAGACCCAGCCTCTGCTCTCAAAAAGCTGCCCGTCAAAAAGGTGTGTGG
AAGGGCAGCTGCTCCGAGGACTTCCAGATATGGAATGAAGAATATAGTCTCTGCATTTGGCATAATTCC
AAGAAACAATCGTTAATGTACATCCACAGTTATCAGAGCTATGTGTGGAACACCATGGTGGAGCAGAAGA
ATTGAGGAGTACGGGCTGAGGCCTGTGCCCGGGACCTTGTCTCAAAGGAGCCACGCCACCTACATTG
AGGAAGATGACGTTGACAACACTCCATCCACGATGTGGTATGCCTTTGCTGGGTTTGTATGTTATCTA
CCCCAAGCATAAAATCAGTGAGGCCTACAGGGAAATGCTTGTCTGCAGACAACCTTGATATTGACAACATG
AGACACAGATTGAGATTACTCCTTATCGGGGCCTACAGAAGGATCATCATCAGGCCTCAGAGCGTCA
GCTGGGAAGTTGTTGCATATGATGATCCTAAAATTCACCTTTTCAACACGGATGTGGACAACCTCGAGGG
GAAACCACCACAGTGTGCTTCTGAAGGCAATACAGGGCTCTGAAGATGGACTTTTCTCTTCTCCT
TCTACTTACGCCACCATGGCCATTTCGAGAAGTGCTCAAAATGGACACCAGCATCAAGAACCAGACCCAGC
TAAATACGAGCTGGCTGCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209845 protein sequence
Red=Cloning site Green=Tags(s)

```
MEMTSTSLKRGCLVVEDNDSVTPHDETKKQKVSEGLTSSQDGVENDGLHRSENEPGPPEAESTVKDDEN
SSAQVQEEEEEEEEEDGLSEAGEEEEEAEFADMMKHGL TELDVGICKFVSSHGFSGILKERYSDFFVHE
IGKDGRISHLDDL SVPVDEEDPPEDAL TVLTAEDRQQLLEELQLFKNKETSV AIEVIEDTKEKRTVIHQAI
KSLFPGLETKTEDREGRKYIVAYHAAGKKALANPRKHSWPKSRGSYCHFVLYKENKDTMDAINVLSKYLR
VKPNIFSYMGTDKRAITVQEIAVLKISAQRLAHLNKCLMNLKLGNF SYQKTPCLK GALQGNHFTVVLRN
ITGTDEQVQAMQSLRETGF INYYGMQRF GTTAVPTYQVGRAILQNSWTEVMDL I LKPRSGAEKGYLVKC
REEWAKTKDPASALKKLPVKRCVEGQLLRGL SRYGMKNI VSAFGIIPRNNRLMYIHSYQSYVWNTMVSRR
IEEYGLRPVPGDLVLKGATPTYIEEDVDNYSIHDVVMPLPGFDVIYPKHKISEAYREMLAADNLDIDNM
RHTIRDYSLSGAYRRIIIRPQSVSWEVVAYDDPKIPLFNTDVDNLEGGPPPVFASEGKYRALKMDFSLPP
STYATMAIREVLKMDTSIKNQTLNTSWLR
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_178403

ORF Size: 1983 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_178403.3](#), [NM_178403.4](#), [NM_178403.5](#), [NP_848490.2](#)

RefSeq Size: 3907 bp

RefSeq ORF: 1983 bp

Locus ID: 78697

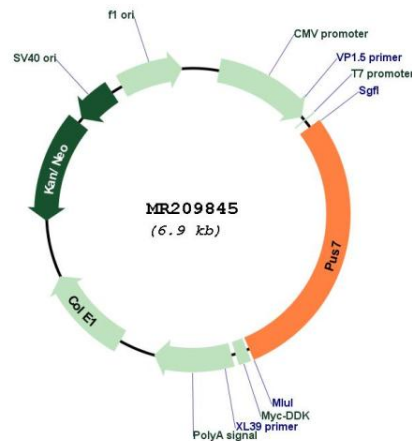
UniProt ID: [Q91VU7](#)

Cytogenetics: 5 A3

MW: 74.8 kDa

Gene Summary: Pseudouridylate synthase that catalyzes pseudouridylation of RNAs. Acts as a regulator of protein synthesis in embryonic stem cells by mediating pseudouridylation of RNA fragments derived from tRNAs (tRFs): pseudouridylated tRFs inhibit translation by targeting the translation initiation complex. Also catalyzes pseudouridylation of mRNAs: mediates pseudouridylation of mRNAs with the consensus sequence 5'-UGUAG-3'. In addition to mRNAs and tRNAs, binds other types of RNAs, such as snRNAs, Y RNAs and vault RNAs, suggesting that it can catalyze pseudouridylation of many RNA types.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209845