

## Product datasheet for **RC201648**

### **PUS3 (NM\_031307) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PUS3 (NM_031307) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PUS3
Synonyms:	2610020J05Rik; FKSG32; MRT55; NEDMIGS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201648 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGATAATGACACAGACAGAAACCAGACTGAGAAGCTCCTAAAAAGAGTACGAGAAGCTGGAGCAAG  
 AGGTGCAAAGACTTAAAAAGGAACAGGCCAAAAATAAGGAGGACTCAAACATTAGAGAAAATTCATCAGG  
 AGCTGGAAAAACTAAGCGTGCATTTTGATTTTCAGTCTCATGGCCGAAGACACGTAGCCCTAAGAATAGCC  
 TATATGGGCTGGGGATACCAGGGCTTTGCTAGTCAGGAAAACACAAATAACCATTGAAGAGAACTGT  
 TTGAAGCTCTAACCAAGACTCGACTAGTAGAAAGCAGACAGACATCCAACATCACCGATGTGGGAGAAC  
 AGATAAAGGAGTTAGTGCCTTTGGACAGGTGATCTCACTTGACCTTCGCTCTCAGTTTCCAAGGGGAGG  
 GATTCCGAGGACTTTAATGTAAGAGAGGAGGCTAATGCTGCTGTAAGAGATCCGTTATACCCACATTC  
 TCAATCGGGTACTCCCTCCAGACATCCGTATATTGGCCTGGGCCCTGTAGAACCAAGCTTCAGTGTAG  
 GTTCAGCTGCCTTGAGCGGACTTACCGCTATTTTTCCCTCGTGTGATTTAGATATTGTAACCATGGAT  
 TATGCAGCTCAGAAGTATGTTGGCACCCATGATTTTCAGGAACCTGTGTAATGGATGTAGCCAACGGTG  
 TGATTAATTTTCAGAGGACTATTCTATCTGCTCAAGTACAGCTAGTGGGCCAGAGCCAGGTGAGGGGAG  
 ATGGCAAGAACCTTTCCAGTTATGTGCTGTTGAAGTACTGGCCAGGCATTCTTTATCATCAAGTCCGA  
 TGTATGATGGCTATCCTCTTTCTGATTGGCCAAGGAATGGAGAAGCCAGAGATTATTGATGAGCTGCTGA  
 ATATAGAGAAAAATCCCCAAAAGCCTCAATATAGTATGGCTGTAGAATTCCTCTAGTCTTATATGACTG  
 TAAGTTTGAAAATGTCAAGTGGATCTATGACCAGGAGGCTCAGGAGTTCAATATTACCCACCTACAACAA  
 CTGTGGGCTAATCATGCTGTCAAACCTACATGTTGTATAGTATGCTACAAGGACTGGACACTGTTCAG  
 TACCCTGTGGAATAGGACCAAAGATGGATGGAATGACAGAATGGGAAAATGTTAAGCCCTCTGATAAAA  
 GCAGACCAGTGCCTTTGTAGAAGGAGTGAAGATGCGCACATATAAGCCCTCATGGACCGTCTAAATGC  
 CAAGGACTGGAATCCCGGATCCAGCATTGTGTACGTAGGGGACGAATTGAGCACCCACATTTATTCCATG  
 AGGAAGAAAACAAAAGCCAAAAGGACTGTAAATGACACACTAGAGGAAGACAATACTAATTTGGAGACACC  
 AACGAAGAGGGTCTGTGTTGACACAGAAATTAAGCATCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201648 protein sequence  
 Red=Cloning site Green=Tags(s)

MADNDTDRNQTEKLLKRVRELEQEVQRLKKEQAKNKEDSNIRENSSGAGTKRAFDFSAHGRRHVALRIA  
 YMGWYQGFASQENTNNTIEEKLFEALTKTRLVESRQTSNYHRCGRDVKGVSAFGQVVISLDLRSQFPRGR  
 DSEDFNVKEEANAEEERYTHILNRVLPDIRILAWAPVEPSFSARFSCLERTYRFFPRADLDIVTMD  
 YAAQKYVGTDFRNLCKMDVANGVINFRQRTILSAQVQLVGQSPGEGRWQEPFQLCQFEVGTQAFLYHQVR  
 CMMAILFLIGQMEKPEIIDE LLNIEKNPQKPQYSMAVEFPLVLYDCKFENVKWIYDQEAQEFNITHLQQ  
 LWANHAVKTHMLYSMLQGLDTPVPCGIGPKMDGMTWGNVVKPSVIKQTSFAFVEGVKMRITYKPLMDRPKC  
 QGLESRIQHFVRRGRIEHPHLFHEEETKAKRDCNDTLEEDNTNLETPTKRVVDTEIKSII

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6788\\_d05.zip](https://cdn.origene.com/chromatograms/mk6788_d05.zip)

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_031307

ORF Size: 1443 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_031307.2](#), [NP\\_112597.2](#)

RefSeq Size: 1862 bp

RefSeq ORF: 1446 bp

Locus ID: 83480

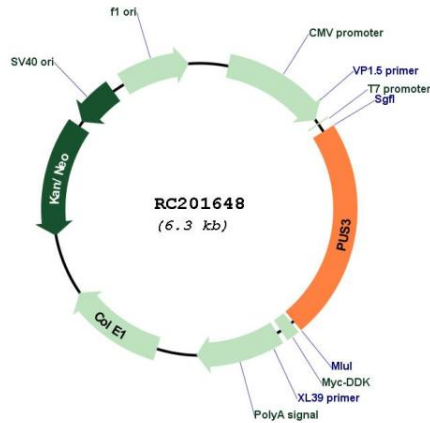
UniProt ID: [Q9BZE2](#)

Cytogenetics: 11q24.2

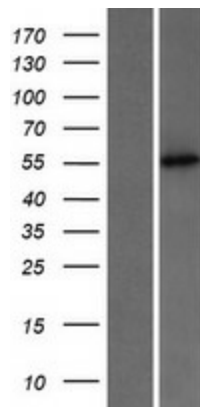
MW: 55.6 kDa

**Gene Summary:** The protein encoded by this gene catalyzes the formation of tRNA pseudouridine from tRNA uridine at position 39 in the anticodon stem and loop of transfer RNAs. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]

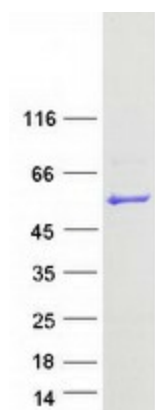
**Product images:**



Circular map for RC201648



Western blot validation of overexpression lysate (Cat# [LY410557]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201648 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PUS3 protein (Cat# [TP301648]). The protein was produced from HEK293T cells transfected with PUS3 cDNA clone (Cat# RC201648) using MegaTran 2.0 (Cat# [TT210002]).