

Product datasheet for **RG201648**

PUS3 (NM_031307) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUS3 (NM_031307) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PUS3
Synonyms:	2610020J05Rik; FKSG32; MRT55; NEDMIGS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201648 representing NM_031307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCTGATAATGACACAGACAGAAACCAGACTGAGAAGCTCCTAAAAAGAGTACGAGAAGTGGAGCAAG
 AGGTGCAAAAGACTTAAAAAGGAACAGGCCAAAAATAAGGAGGACTCAAACATTAGAGAAAATTCATCAGG
 AGCTGGAAAACTAAGCGTGCATTTGATTTCAAGTCTCATGGCCGAAGACACGTAGCCCTAAGAATAGCC
 TATATGGGCTGGGGATACCAGGGCTTTGCTAGTCAGGAAAACACAAATAATACCATTGAAGAGAACTGT
 TTGAAGCTCTAACCAAGACTCGACTAGTAGAAAGCAGACAGACATCCAATATCACCGATGTGGGAGAAC
 AGATAAAGGAGTTAGTGCCTTTGGACAGGTGATCTCACTTGACCTTCGCTCTCAGTTTCCAAGGGGAGG
 GATTCCGAGGACTTTAATGTAAGAGAGGAGGCTAATGCTGCTGCTGAAGAGATCCGTTATACCCACATTC
 TCAATCGGGTACTCCCTCCAGACATCCGTATATTGGCCTGGGCCCTGTAGAACCAAGCTTCAGTGCTAG
 GTTCAGCTGCCTTGAGCGGACTTACCGCTATTTTTCCCTCGTGTGATTTAGATATTGTAACCATGGAT
 TATGCAGCTCAGAAGTATGTTGGCACCCATGATTTCAAGAACTTGTGTAATGATGTAGCCAACGGTG
 TGATTAATTTTCAGAGGACTATTCTATCTGCTCAAGTACAGCTAGTGGGCCAGAGCCAGGTGAGGGGAG
 ATGGCAAGAACCTTTCCAGTTATGTCAAGTTGAAGTACTGGCCAGGCATTCTTTATCATCAAGTCCGA
 TGTATGATGGCTATCCTCTTTCTGATTGGCCAAGGAATGGAGAAGCCAGAGATTATTGATGAGCTGCTGA
 ATATAGAGAAAAATCCCCAAAGCCTCAATATAGTATGGCTGTAGAATTTCTCTAGTCTTATATGACTG
 TAAGTTTGAAAATGTCAAGTGGATCTATGACCAGGAGGCTCAGGAGTTCAATATTACCCACCTACAACAA
 CTGTGGGCTAATCATGCTGTCAAACTCACATGTTGTATAGTATGCTACAAGGACTGGACACTGTTCCAG
 TACCCTGTGGAATAGGACCAAGATGGATGGAATGACAGAATGGGGAATGTTAAGCCCTCTGTCAATAA
 GCAGACCAAGTGCCTTTGTAGAAGGAGTGAAGATGCGCACATATAAGCCCTCATGGACCGTCTCTAAATGC
 CAAGGACTGGAATCCCGGATCCAGCATTTTGTACGTAGGGGACGAATTGAGCACCCACATTTATTCCATG
 AGGAAGAAACAAAGCCAAAGGACTGTAAATGACACACTAGAGGAAGACAATACTAATTTGGAGACACC
 AACGAAGAGGGTCTGTGTGACACAGAAATTAAGCATCATT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201648 representing NM_031307
 Red=Cloning site Green=Tags(s)

MADNDTDRNQTEKLLKRVRELEQEVQRLKKEQAKNKEDSNIRENSSGAGTKRAFDFSAHGRRHVALRIA
 YMGWGYQGFASQENTNNTIEEKLFEALTKTRLVESRQTSNYHRCGRDVGVSFAFGQVSLDLRSQFPRGR
 DSEDFNVKEEANAEEIERYTHILNRVLPDIRILAWAPVEPSFSARFSCLERTYRYFFPRADLDIVTMD
 YAAQKYVGTHDFRNLCKMDVANGVINFRITLSAQVQLVGQSPGEGRWQEPFQLCQFEVTGQAFLYHQVR
 CMMAILFLIGQMEKPEIIDELLNIEKNPQKPYSMAVEFPLVLYDCKFENVKWIYDQEAQEFNITHLQQ
 LWANHAVKTHMLYSMLQGLDTPVPCGIGPKMDGMEWGNVPSVIKQTSFAFVEGVKMRITYKPLMDRPKC
 QGLESRIQHVFRRGRIEHPHLFHEEETKAKRDCNDTLEEDNTNLETPTKRVCVDTEIKSII

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_031307.2](#), [NP_112597.2](#)

RefSeq Size: 1851 bp

RefSeq ORF: 1446 bp

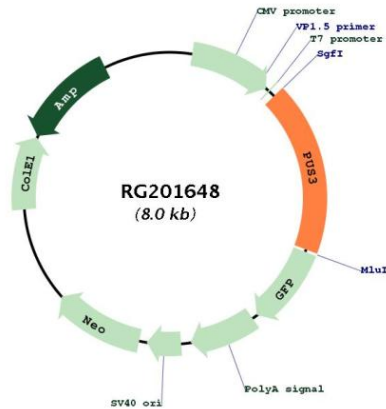
Locus ID: 83480

UniProt ID: [Q9BZE2](#)

Cytogenetics: 11q24.2

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 RG201648