

Product datasheet for **RG210979**

PUS10 (NM_144709) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUS10 (NM_144709) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PUS10
Synonyms:	CCDC139; DOBI; Hup10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG210979 representing NM_144709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCCACTGACTGAGGAAAACAAGCATGTGGCCAGTTGTTGCTCAATACTGGTACTTGTCCAAGAT
 GTATCTTCAGATTCTGTGGTGTGGATTTTCATGCACCTTACAACTTCCATACAAGGAGTTGCTCAATGA
 ACTACAGAAATTTCTGGAACTGAAAAAGATGAATTAATTTTGGAGTTATGAACCCACCTCCCAAGAAA
 ATTCGACTGCAAGAACTGGAAGATAGTATTGATAATCTAAGTCAAAATGGAGAGGGAAGGATCTCTGTTA
 GTCATGTTGGAAGCACTGCTTCCAAGAACTCAAATTTAAATGTATGTAATGTATGCCTAGGAATCTTCA
 AGAATTCTGTGAGAAAGATTTTCAATAAAAGGTGTGCCAAAAGGTTGAGGCCTCTGGGTTTGAATTCACC
 AGCTTGGTATTTTCAGTCTCCTTCCACCACAACATCTGTAAGAGAGCATGCTGCATGGTTGCTGGTAA
 AACAGGAAATGGGAAAGCAGAGTCTGCTGCTGGGAAGAGATGATATAGTTCAGCTAAAAGAAGCCTACAA
 ATGGATAACTCACCCCTGTTTTTCAGAGGAACTGGGTGTTCCCATTTGATGAAAGAGCTTGTGTTGAAGTG
 AGTGTGGTCTTTGCTCACCCAGAAACAGTTGAGGATTGCCACTTCCTAGCTGCGATATGCCAGATTGTT
 TTAAGCCAGCCAAAAACAACAGTCTGTATTCACTAGAAATGGCAGTTATGAAAGCCTTGAATAAGATAAA
 GGAAGAGGATTTCTTAAGCAGTTTCTTGTCTCCAACTCACCAAAGGCTGTATGCGCTGTTCTTGAA
 ATTGAATGTGCTCATGGTGTGTTTTGTGGCTGGGAGATATAATAAATACTCCAGGAATCTACCACAAA
 CTCCTTGGAATAATTGATGGAGAAAGGAAGCTGGAATCTTCAGTGGAGAATTAATTTTCAGATCATCTGTT
 GGCAGTATTTAAGCAGAGAGTTTTAATTTTCATCCTCTGGAAGAGAAGATGTAGATGTGAGAACATTA
 GGAATGGAAGGCCCTTTGCAATTGAGCTGGTGAATCCTCATAGAGTACATTTCACTTACAAGAAATTA
 AGGAATTCAGCAGAAAATTAATAACTCATCTAACAAAATCCAAGTACGTGACTTGCAGCTTGTACAAG
 AGAGGCAATAGGACATATGAAAGAAGGTGAAGAAGAAAAGACAAAGACCTACAGTGCCTTAATTTGGACA
 AATAAAGCGATACAGAAGAAAGACATTGAATTCCTAAATGACATAAAGGACTTAAAAATCGACCAGAAAA
 CACCTTTGCGCGTCCTTACCAGAGGCCCTGGCTGTGCGAGCTCGCGTCATTCACTTTCATGGAGACACA
 GTACGTGGATGAGCACCCTTCCGCTCCACTTGAAAACCTCAGGCTGGCACCTACATTAAAGAGTTTGTA
 CATGGAGACTTCGGGAGAACCAAGCCAAACATTGGGTCCCTGATGAATGTGACTGCAGACATTCTGGAGC
 TGGATGTTGAGTCTGTAGATGTTGACTGGCCACCTGCTCTGGATGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG210979 representing NM_144709
 Red=Cloning site Green=Tags(s)

MFPLTEENKHVAQLLLNTGTCPRCIFRFGVDFHAPYKLPYKELLNELQKFLETEKDELILEVMNPPPKK
 IRLQELEDSDNLSQNGEGRISVSHVGSTASKNSNLNVCNVCLGILQEFCEKDFIKKVCQKVEASGFET
 SLVFSVSFPPQLSVREHAALLVKQEMGKQSLSLGRDDIVQLKEAYKWITHPLFSEELGVPIDGKSLFEV
 SVVFAHPETVEDCHFLAAICPDCFKPAKNKQSVFTRMAVMKALNKIKEEDFLKQFPCPPNSPKAVCAVLE
 IECAHGAVFVAGRYNKYSRNLPTPWIIDGERKLESSVEELISDHLLAVFKAESFNFSSSGREDVDVRTL
 GNGRPFPIELVNPHRVHFTSQEIKELQQKINNSSNKIQVRDLQLVTREIGHMKEGEEETKTYSALIWT
 NKAIQKKDIEFLNDIKDLKIDQKTPRLVLRPLAVRARVIHFMETQYVDEHHFRLHLKTQAGTYIKEFV
 HGDFGRTPKNIGSLMNVTDILELDVESVDVDWPPALDD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_144709

ORF Size: 1587 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_144709.4](#)

RefSeq Size: 2097 bp

RefSeq ORF: 1590 bp

Locus ID: 150962

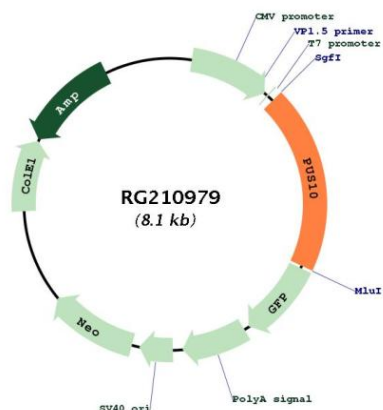
UniProt ID: [Q3MIT2](#)

Cytogenetics: 2p16.1-p15

Gene Summary:

Pseudouridination, the isomerization of uridine to pseudouridine, is the most common posttranscriptional nucleotide modification found in RNA and is essential for biologic functions such as spliceosome biogenesis. Pseudouridylate synthases, such as PUS10, catalyze pseudouridination of structural RNAs, including transfer, ribosomal, and splicing RNAs. These enzymes also act as RNA chaperones, facilitating the correct folding and assembly of tRNAs (McCleverty et al., 2007 [PubMed 17900615]).[supplied by OMIM, May 2009]

Product images:



Circular map for RG210979