

Product datasheet for **RC210979**

PUS10 (NM_144709) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUS10 (NM_144709) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PUS10
Synonyms:	CCDC139; DOBI; Hup10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210979 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCCCACTGACTGAGAAAACAAGCATGTGGCCAGTTGTTGCTCAATACTGGTACTTGTCCAAGAT
 GTATCTTCAGATTCTGTGGTGTGGATTTTCATGCACCTTACAACTTCCATACAAGGAGTTGCTCAATGA
 ACTACAGAAATTTCTGAAACTGAAAAAGATGAATTAATTTTGGAAAGTTATGAACCCACCTCCCAAGAAA
 ATTCGACTGCAAGAACTGGAAGATAGTATTGATAATCTAAGTCAAAATGGAGAGGGAAGGATCTCTGTTA
 GTCATGTTGGAAGCACTGCTTCCAAGAACTCAAATTTAAATGTATGTAATGTATGCCTAGGAATCTTCA
 AGAATTCTGTGAGAAAGATTTTCATTA AAAAGGTGTGCCAAAAGGTTGAGGCCTCTGGGTTTGAATCACC
 AGCTTGGTATTTTCAGTCTCCTCCACCACAACATCTGTAAGAGAGCATGCTGCATGGTTGCTGGTAA
 AACAGGAAATGGGAAAGCAGAGTCTGTCGCTGGGAAGAGATGATATAGTTCAGCTAAAAGAAGCCTACAA
 ATGGATAACTCACCCCTGTTTTTCAGAGGAACTGGGTGTCCCATTGATGAAAGAGCTTGTTTGAAGTG
 AGTGTGGTCTTTGCTCACCCAGAAACAGTTGAGGATTGCCACTTCTAGCTGCGATATGCCAGATTGTT
 TTAAGCCAGCCAAAAACAACAGTCTGTATTCACTAGAATGGCAGTTATGAAAGCCTTGAATAAGATAAA
 GGAAGAGGATTTCTTAAGCAGTTTCTTGTCTCCAACTCACCAAAGGCTGTATGCGCTGTTCTTGAA
 ATTGAATGTGCTCATGGTGTGTTTTGTGGCTGGGAGATATAATAAATACTCCAGGAATCTACCACAAA
 CTCCTTGGATAATTGATGGAGAAAGGAGCTGGAATCTTCAGTGGAGAATTAATTTTCAGATCATCTGTT
 GGCAGTATTTAAGCAGAGAGTTTTAATTTTCATCCTCTGGAAGAGAAGATGTAGATGTGAGAACATTA
 GGAATGGAAAGGCCCTTTGCAATTGAGCTGGTGAATCCTCATAGAGTACATTTCACTTACAAGAAATTA
 AGAACTTCAGCAGAAAATTAATAACTCATCTAACAAAATCCAAGTACGTGACTTGCAGCTTGTCAACA
 AGAGGCAATAGGACATATGAAAGAAGGTGAAGAAGAAAAGACAAAAGACCTACAGTGCCTTAATTTGGACA
 AATAAAGCGATACAGAAGAAAGACATTGAATTCCTAAATGACATAAAGGACTTAAAAATCGACCAGAAAA
 CACCTTTGCGCGTCTTCCACGAAGGCCCTGGCTGTGCGAGCTCGCGTCATTCATTCATGGAGACACA
 GTACGTGGATGAGCACCCTTCCGCTCCACTGAAAACCTCAGGCTGGCACCTACATTAAGAGTTTGTA
 CATGGAGACTTCGGGAGAACCAAGCCAAACATTGGGTCCCTGATGAATGTGACTGCAGACATTCTGGAGC
 TGGATGTTGAGTCTGTAGATGTTGACTGGCCACCTGCTCTGGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210979 protein sequence
 Red=Cloning site Green=Tags(s)

MFPLTEENKHVAQLLLNTGTCPRCIFRFGVDFHAPYKLPYKELLNELQKFLTEKDELILEVMNPPPKK
 IRLQELEDSDNLSQNGEGRISVSHVGSTASKNSNLNVCNVCLGILQEFCEKDFIKKVCQKVEASGFEFT
 SLVFSVSPFPQLSVREHAALLVKQEMGKQSLSLGRDDIVQLKEAYKWITHPLFSEELGVPIDGKSLFEV
 SVVFAHPETVEDCHFLAAICPDCFPAKKNQSVFTRMAVMKALNKIKEEDFLKQFPCPPNSPKAVCAVLE
 IECAHGAVFVAGRYNKYSRNLPTQPIIDGERKLESSVEELISDHLLAVFKAESFNFSGREDVDVRTL
 GNGRPF AIELVNPHRVHFTSQEIKELQQKINNSSNKIQVRDLQLVTREAI GHMKEGEEETKTYSALIWT
 NKAIQKKDIEFLNDIKDLKIDQKTPRLVLRPLAVRARVIHFMETQYVDEHHFRLHLKTQAGTYIKEFV
 HGDFGRTPNIGSLMNVADILELDVESVDVDWPPALDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6591_e11.zip

Restriction Sites:

Sgfl-Mlul

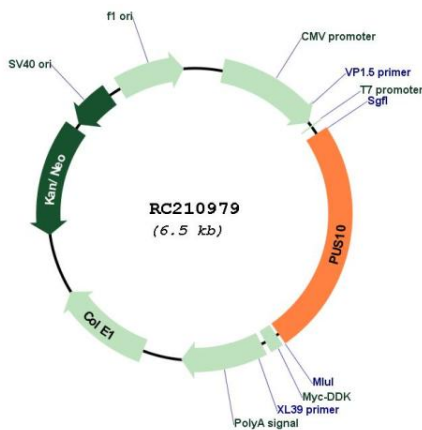
UniProt ID: [Q3MIT2](#)

Cytogenetics: 2p16.1-p15

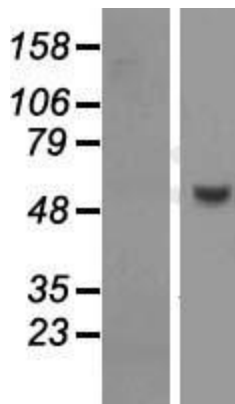
MW: 60.2 kDa

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]

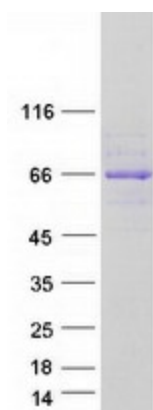
Product images:



Circular map for RC210979



Western blot validation of overexpression lysate (Cat# [LY408160]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210979 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PUS10 protein (Cat# [TP310979]). The protein was produced from HEK293T cells transfected with PUS10 cDNA clone (Cat# RC210979) using MegaTran 2.0 (Cat# [TT210002]).