

Product datasheet for **SC120726**

PUS10 (NM_144709) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUS10 (NM_144709) Human Untagged Clone
Tag:	Tag Free
Symbol:	PUS10
Synonyms:	CCDC139; DOBI; Hup10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120726 sequence for NM_144709 edited (data generated by NextGen Sequencing)

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ATGTTCCCACTGACTGAGGAAAACAAGCATGTGGCCAGTTGTTGCTCAATACTGGTACT
TGTCAGATGTATCTTCAGATTCTGTGGTGTGGATTTTCATGCACCTTACAACTTCCA
TACAAGGAGTTGCTCAATGAAGTACAGAAATTTCTGGAACTGAAAAAGATGAATTAATT
TTGGAAGTTATGAACCCACCTCCCAAGAAATTCGACTGCAAGAACTGGAAGATAGTATT
GATAATCTAAGTCAAAATGGAGAGGGAAGGATCTCTGTTAGTCATGTTGGAAGCACTGCT
TCCAAGAACTCAAAATTTAAATGTATGTAATGTATGCCTAGGAATTCTTCAAGAATTCGT
GAGAAAGATTTTCATTAATAAGGTGTGCCAAAAGGTTGAGGCCTCTGGGTTGAATTCACC
AGCTTGGTATTTTCAGTCTCCTTCCCACCACAACCTATCTGTAAGAGAGCATGCTGCATGG
TTGCTGGTAAAACAGGAAATGGGAAAGCAGAGTCTGTCGCTGGGAAGAGATGATATAGTT
CAGCTAAAAGAAGCCTACAAATGGATAACTCACCCCTGTTTTCAGAGGAACTGGGTGTT
CCCATTGATGGAAGAGCTTGTGTTGAAGTGAGTGTGGTCTTTGCTCACCCAGAAACAGTT
GAGGATTGCCACTTCTAGCTGCGATATGCCAGATTGTTTTAAGCCAGCCAAAAACAAA
CAGTCTGTATTCTAGTAATGGCAGTTATGAAAGCCTTGAATAAGATAAAGGAAGAGGAT
TTCTTAAAGCAGTTTCTTGTCTCCAACTCACCAAAGGCTGTATGCGCTGTTCTTGAA
ATTGAATGTGCTCATGGTGTGTTTTGTGGCTGGGAGATATAATAAATACTCCAGGAAT
CTACCACAACTCCTTGGATAATTGATGGAGAAAGGAAGCTGGAATCTTCAGTGGAGAA
TTAATTTTCAGATCATCTGTTGGCAGTATTTAAGCAGAGAGTTTTAATTTTTCATCCTCT
GGAAGAGAAGATGTAGATGTGAGAACATTAGGAAATGGAAGGCCCTTTGCAATTGAGCTG
GTGAATCCTCATAGAGTACATTTCACTTCAAGAAATTAAGGAACCTCAGCAGAAAATT
AATAACTCATCTAACAAATCCAAGTACGTGACTTGCAGCTTGTCAAGAGAGGCAATA
GGACATATGAAAGAAGGTGAAGAAGAAAGACAAAGACCTACAGTGCCTTAATTTGGACA
AATAAAGCGATACAGAAGAAAGACATTGAATTCCTAAATGACATAAAGGACTTAAAGATC
GACCAGAAAACACCTTTGCGCGTCCTTACCAGAGGCCCTGGCTGTGCGAGCTCGCGTC
ATTCACCTCATGGAGACACAGTACGTGGATGAGCACCCTTCCGCTCCACTTGAAAACT
CAGGCTGGCACCTACATTAAGAGTTTGTACATGGAGACTTCGGGAGAACCAAGCCAAAC
ATTGGGTCCTGATGAATGTGACTGCAGACATTCTGGAGCTGGATGTTGAGTCTGTAGAT
GTTGACTGGCCACCTGCTCTGGATGACTAG
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Clone variation with respect to NM_144709.2
1317 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_144709 unedited

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ATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCTTTGTTAGCAA
AGGAGGGTTATAATTATCAATATGTTCCCACTGACTGAGGAAAACAAGCATGTGGCCCA
GTTGTTGCTCAATACTGGTACTGTCCAAGATGTATCTTCAGATTCTGTGGTGTGGATTT
TCATGCACCTTACAACTTCCATACAAGGAGTTGCTCAATGAAGTACAGAAATTTCTGGA
AACTGAAAAAGATGAATTAATTTTGAAGTTATGAACCCACCTCCCAAGAAAATTCGACT
GCAAGAACTGGAAGATAGTATTGATAATCTAAGTCAAAATGGAGAGGGAAGGATCTCTGT
TAGTCATGTTGGAAGCACTGCTTCCAAGAACTCAAATTTAAATGTATGTAATGTATGCCT
AGGAATTTCTCAAGAATCTGTGAGAAAGATTTTCAATAAAAGGTGTGCCAAAAGTTGA
GGCCTCTGGGTTTGAATTCACCAGCTTGGTATTTTCAGTCTCCTTCCCACCACAACATC
TGTAAGAGAGCATGCTGCATGGTGTGGTAAAACAGGAAATGGGAAAGCAGAGTCTGTC
GCTGGGAAAGAGATGATATAGTTCAAGTAAAAGAAGCCTACAAATGGATAACTCACCCCT
GTTTTTCAGAGGAACTGGGTGTTCCATTGATGGAAGAGCTTGTTTGAAGTGAGTGTGGT
CTTTGCTCACCCAGAAAACAGTTGAGATTGCCACTTCTAGCTGCGATATGCCAGATTG
TTNTAAGCCAGCCAAAAACAACAGTCTGTATTCTAGTAATGGCAGTATGAAAGCCCTG
TATAAGATAAAGAAGAAGATTNCCTTAGCAGTTTCTGTCTCCTCAACTCACAAGCTGTT
GCA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_144709 unedited <pre> GTACACTATGNNACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTT AACTATATAAGATTGTATTAAATAGTCTTGGGCTATTTTTTGGTAAGCTCTTGATTGG TAACTACATTCCAAAAGTTAATTATCAGTTACATGAGTTTAAATGGCATCCATAGCTGCC CCTTCACACAAACAGGTGCTCAGTAATAGGGCTTATTAGAAAGACCCTAGAAACCAAGAA ACTTCAGTTCTAGTCCTCAATATAGAAGTAGCTAACAATTTTGGATAAGTCATTTAACTT CTAGTCTTTGGTTCCATATTTATAAAATGGAGACAATATCCTATCTACTTTAATAAGGT ATTATTAATAATGTTTATAATTGGATAATATATTGAAGCATTCTGAAATAATACCAGTTCC TCTTTGTTTAGCAATCTCAATTTTTCAAATTTCTTAACCCTGGGATTGAAGTTATTAAGG CACTTGTTTCTCCTTATTTAAAAGATTTATGAAAGGCTCCTACCATGGCATGCCTTGGCT CCTACGGTTTTACTTTCCCTCCACAGGAAACCTATATTGACAATTTTAGATTGTCAAAAT TCTTTCTTAATGAAAGTATTAATGAGAATTATTTCAATTTTATAGTTTGGTTAAGATT ATGACAAATCACAGCCAAAAGAACTTCATTGGTAATAGCTTGTGGAGGCTTCTGGGGA AAATAATGATGTCAGATTTGCATTTGCAATCTTAGACTATTATAGGATATTATGCTGCAT AAATCTAGATATAACTTTTATTCAGATAATTTACAAAAATTAGAACATGATTTTAAAGGT GGTATATCTCTTGTGGAGGAAATCTTGCTGAAATACAGCTTCTTAGGTTACAGAGAATG TGTCCTGTTTGGCACCTCTCTAATGAAAGAATTANGAGAATATT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_144709
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_144709.1</u> , <u>NP_653310.1</u>
RefSeq Size:	2097 bp
RefSeq ORF:	1590 bp
Locus ID:	150962
UniProt ID:	<u>Q3MIT2</u>
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]