

Product datasheet for **RC223492**

PUF60 (NM_078480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUF60 (NM_078480) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PUF60
Synonyms:	FIR; RoBPI; SIAHBP1; VRJS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC223492 representing NM_078480.
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCGACGGCGACCATAGCTCTCGTCAATGGCCAGCAAGGAGGGGGTCCGAGCCGGCGCGCGCGGCG
GCAGTGGTGGCAGCGGGAGACAAATGAAACCTCCACAGGGCACAGACTCCATCAAGATGGAGAACGGG
CAGAGCACAGCCCAAGCTGGGGCTGCCTCCCTGACGCCGAGCAGCAGGAGGCCCTTCAAGAAGGCC
AAGAAGTACGCCATGGAGCAGAGCATCAAGAGTGTGCTGGTGAAGCAGACCATCGCGCACCAGCAGCAG
CAGCTACCAACCTGCAGATGGCAGCAGTACAATGGGCTTTGGAGATCCTCTCTCACCTTTGCAATCG
ATGGCGGCTCAGCGGCAGCGGGCTGGCCATCATGTGCCGCTCTACGTGGGCTCTATCTACTATGAG
CTGGGGGAGGACACCATCCGCCAGGCTTTGCCCTTTGGCCCCATCAAGAGCATCGACATGTCCTGG
GACTCCGTACCATGAAGCACAAGGGCTTTGCCTTCGTGGAGTATGAGGTCCCCAAGCTGCACAGCTG
GCCTTGGAGCAGATGAAGTGGTGTGCTGGGGGAGGAAACATCAAGGTGGCAGACCCAGCAACATA
GGCAGGCCAGCCCATCATAGACCAGTTGGCTGAGGAGGCACGGCCTTCAACCGCATCTACGTGGCC
TCTGTGACCAGGACCTCTCAGACGATGACATCAAGAGCGTGTGGAGGCCCTTGGCAAGATCAAGTCC
TGCACACTGGCCCGGACCCACAACCTGGCAAGCACAAGGGCTACGGCTTCATTGAGTACGAGAAGGCC
CAGTCTGCCAAGATGCTGTGTCTTCCATGAACCTCTTTGACCTGGGTGGCCAGTACTTGGCGGTGGGC
AAGGCTGTACACCGCCCATGCCCTACTCACACCAGCCACGCCTGGAGGCTCCACCTGCCGCTGCT
GTGGCAGCTGCTGCAGCCACTGCCAAGATCACAGCTCAGGAAGCAGTGGCCGGAGCAGCGGTGCTGGT
ACCCTGGGCACACCTGGACTGGTGTCCCGAGCTGACCTGGCCAGCCCTGGGCACTTTGCCCCAG
GCTGTCTGGCTGCCAGGCACCTGGAGTATCACAGGTGTGACCCAGCCCGTCTCTATCCCGGTC
ACCATCCCTCGTGGGAGTGGTGAACCCATCCTGCCAGCCCTCCAACGCTGGTCTCCTGGAGGCC
AAGAAGGAGAAGGAAGAAGAGGAGCTGTTCCCGAGTCAGAGCGCCAGAGATGCTGAGCGAGCAGGAG
CACATGAGCATCTCGGGCAGTAGCGCCGACACATGGTGTGAGAAAGTCTCCGCAAGCAGGAGTCT
ACAGTGTGGTTCTGCGCAACATGGTGGACCCCAAGGACATCGATGATGACCTGGAAGGGGAGGTGACA
GAGGAGTGTGCAAGTTCGGGGCCGTGAACCGCTCATCATCTACCAAGAGAAACAAGGCAGGAGGAG
GATGCAGAAATCATTGTCAAGATCTTTGTGGATTTTCCATAGCCTCTGAGACTCATAAGCCATCCAG
GCCCTCAATGGCCGCTGGTTTGTGGCCGAAGGTGGTGGCTGAAGTGTACGACCAGGAGCGTTTGTAT
AACAGTGACCTCTCTGCG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Protein Sequence:

>Peptide sequence encoded by RC223492
 Blue=ORF Red=Cloning site Green=Tag(s)

```

MATATIALVNGQQGGSEPA AAAAVVAAGDKWKPPQGTDSIKMENGQSTAAKLG LPLTPEQQEALQKA
KKYAMEQSIKSVLVKQTI AHQQQLTNLQMAAVTMGFGDPLSPLQSM AQRQRALAIMCRVYVGSIIYYE
LGEDTIRQAFAPFGPIKSIDMSWDSVTMKHKGFAFVEYEVPEAAQLALEQMNSVMLGGRNIKVGRPSNI
GQAQPIIDQLAEERAFNR IYVASVHQDLSDDIKSVFEAFGKIKSCTLRDPTTGKHKGYGFIYEKA
QSSQDAVSSMNLFDLGGQYLRV GKAVTPPMP LTPATPGLPPAAAVAAAAATAKITAQEAVAGA AVLG
TLGTPGLVSPALTLAQPLGTL PQA VMAA QAPG VITGVTPARPPIPVTIP SVGVNPI LASPPTLGLLEP
KKEKEEEELFPESERPEML SEQE HMSISGSSARHVMQKLLRKQESTVMVLRNMVDPKIDDDLEGEVT
EECGKFGAVNRV IYQEKQGE EDAEIIVKIFVEFSIASETHKAIQALNGRWFAGRKVVAEYVDQERFD
NSDLSA
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
  
```

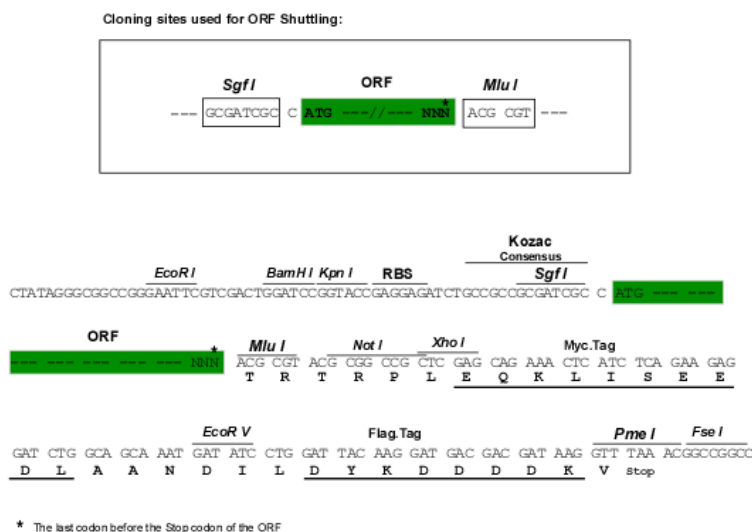
Recombinant protein using RC223492 also available, [TP323492](#)

Chromatograms:

https://cdn.origene.com/chromatograms/mk6484_g05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_078480

ORF Size: 1674 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 Size: 1946 bp

RefSeq ORF: 1680 bp

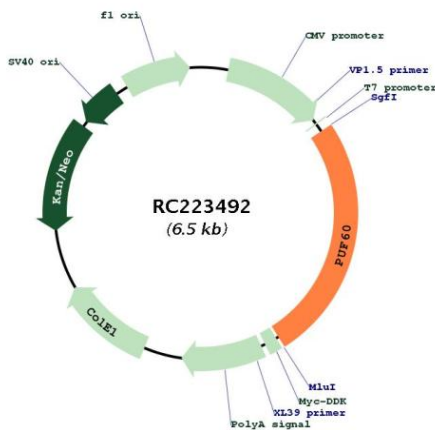
Locus ID: 22827

UniProt ID: [Q9UHX1](#)

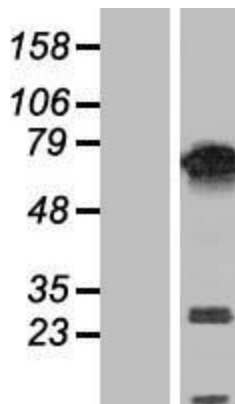
Cytogenetics: 8q24.3
Domains: RRM, RRM_1
Protein Pathways: Spliceosome
MW: 59.7 kDa

Gene Summary: This gene encodes a nucleic acid-binding protein that plays a role in a variety of nuclear processes, including pre-mRNA splicing and transcriptional regulation. The encoded protein forms a complex with the far upstream DNA element (FUSE) and FUSE-binding protein at the myelocytomatosis oncogene (MYC) promoter. This complex represses MYC transcription through the core-TFIID basal transcription factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012]

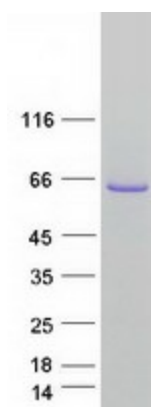
Product images:



Circular map for RC223492



Western blot validation of overexpression lysate (Cat# [LY409189]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223492 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PUF60 protein (Cat# [TP323492]). The protein was produced from HEK293T cells transfected with PUF60 cDNA clone (Cat# RC223492) using MegaTran 2.0 (Cat# [TT210002]).