

## Product datasheet for **RC203454**

### PUF60 (NM\_014281) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PUF60 (NM_014281) 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)



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**ORF Nucleotide Sequence:**

>RC203454 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACGGCGACCATAGCTCTCCAGGTCAATGGCCAGCAAGGAGGGGGTCCGAGCCGGCGCGCGCG  
 CGGCAGTGGTGGCAGCGGAGACAAATGGAAACCTCCACAGGGCAGACTCCATCAAGATGGAGAACGG  
 GCAGAGCACAGCCGCAAGCTGGGGCTGCCTCCCTGACGCCGAGCAGCAGGAGGCCCTTCAGAAGGCC  
 AAGAAGTACGCCATGGAGCAGAGCATCAAGAGTGTGCTGGTGAAGCAGACCATCGCGACCAGCAGCAGC  
 AGCTCACCAACCTGCAGATGGCGGCTCAGCGGCAGCGGGCTGGCCATCATGTGCCGCTACTGTGGG  
 CTCTATCTACTATGAGCTGGGGGAGGACACCATCCGCCAGGCCTTTGCCCTTTGGCCCATCAAGAGC  
 ATCGACATGTCTGGGACTCCGTACCATGAAGCACAAGGGCTTTCCTTCGTGGAGTATGAGGTCCCCG  
 AAGCTGCACAGCTGGCCTTGAGCAGATGAAGTGGTGTGCTGGGGGGCAGGAACATCAAGGTGGCGAG  
 ACCCAGCAACATAGGGCAGGCCAGCCATCATAGACCAGTTGGTGTGAGGAGGCACGGGCCCTTCAACCGC  
 ATCTACGTGGCCTCTGTGCACCAGGACCTCTCAGACGATGACATCAAGAGCGTGTTCGAGGCCTTTGGCA  
 AGATCAAGTCTGCACACTGGCCCGGGACCCACAACCTGGCAAGCACAAGGGCTACGGCTTCATTGAGTA  
 CGAGAAGGCCAGTGTGCCAAGATGCTGTGTCTTCCATGAACCTCTTTGACCTGGGTGGCCAGTACTTG  
 CGGGTGGGCAAGGCTGTACACCCGCCATGCCCTACTCACACCAGCCACGCCTGGAGGCCTCCACCTG  
 CCGCTGCTGTGGCAGTGTGCAGCCACTGCCAAGATCACAGCTCAGGAAGCAGTGGCCGGAGCAGCGGT  
 GCTGGGTACCTGGGCACACCTGGACTGGTGTCCCAGCACTGACCTGGCCAGCCCTGGGCACCTTTG  
 CCCCAGGCTGTCACTGGCTGCCAGGCACCTGGAGTCATCACAGGTGTGACCCAGCCCTCTCTATCC  
 CGGTACCATCCCCTCGTGGGAGTGGTGAACCCCATCCTGGCCAGCCCTCAACGCTGGTCTCCTGGA  
 GCCAAGAAGGAGAAGGAAGAAGAGAGGAGCTGTTTCCCGAGTCAGAGCGGCCAGAGATGCTGAGCGAGCAG  
 GAGCACATGAGCATCTCGGGCAGTAGCGCCGACACATGGTGTGACAGAAGCTGCTCCGCAAGCAGGAGT  
 CTACAGTGTGGTCTGCGCAACATGGTGGACCCCAAGGACATCGATGATGACCTGGAAGGGGAGGTGAC  
 AGAGGAGTGTGGCAAGTTCGGGGCCGTGAACCGCGTCATCATCTACCAAGAGAAACAAGGCGAGGAGGAG  
 GATGCAGAAATCATTGTCAAGATCTTTGTGGAGTTTTCCATAGCCTCTGAGACTCATAAGGCCATCCAGG  
 CCCTCAATGGCCGCTGGTTTGTGGCCGAAGGTGGTGGTGAAGTGTACGACCAGGAGCGTTTTGATAA  
 CAGTGACCTCTGCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC203454 protein sequence  
 Red=Cloning site Green=Tags(s)

MATATIALQVNGQGGSEPAVVAAAGDKWPPQGTDSIKMENGQSTAAKGLPPLTPEQQEALQKA  
 KKYAMEQSIKSVLVKQIAHQQQQLTNLQMAAQRQRALAIMCRVYVGSIIYELGEDTIRQAFAPFGPIKS  
 IDMSWDSVTMKHKGFVFEYEVPEAAQLALEQMNSVMLGGRNIKVGRPSNIGQAQPIIDQLAEEARAFNR  
 IYVASVHQDLSDDDIKSVFEAFGKIKSCTLARDPTTGKHKGYGFIEYEKAQSSQDAVSSMNLFDLGGQYL  
 RVGKAVTPPMPLLTPATPGGLPPAAAVAAAAATAKITAQEAVAGAAVLGTLGTPGLVSPALTLAQLGTL  
 PQAVMQAAPGVITGVTPARPPIPVTIPSVGVNPIILASPPTLGLLEPKKEKEEEELFPESERPEMLSEQ  
 EHMSISGSSARHMVMQKLLRKQESTVMVLRNMVDPKIDDDLEGEVTEECGKFGAVNRVIIYQEKQGEE  
 DAEIIVKIFVEFSIASETHKAIQALNGRWFAGRKVVAEYVDQERFDNSDLA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6414\\_e04.zip](https://cdn.origene.com/chromatograms/mk6414_e04.zip)

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_014281

ORF Size: 1626 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\\_014281.5](#)

RefSeq Size: 1897 bp

RefSeq ORF: 1629 bp

Locus ID: 22827

UniProt ID: [Q9UHX1](#)

**Cytogenetics:** 8q24.3

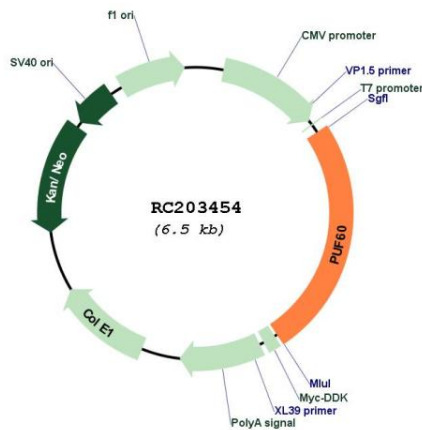
**Domains:** RRM, RRM\_1

**Protein Pathways:** Spliceosome

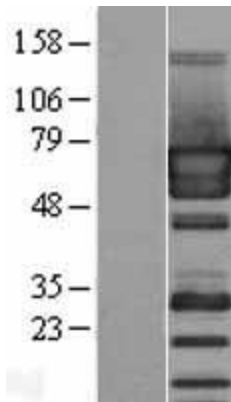
**MW:** 58.2 kDa

**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-TFIIH basal transcription factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012]

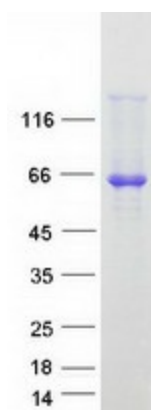
**Product images:**



Circular map for RC203454



Western blot validation of overexpression lysate (Cat# [LY415385]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203454 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PUF60 protein (Cat# [TP303454]). The protein was produced from HEK293T cells transfected with PUF60 cDNA clone (Cat# RC203454) using MegaTran 2.0 (Cat# [TT210002]).