

## Product datasheet for **RG203454**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PUF60 (NM_014281) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PUF60
Synonyms:	FIR; RoBPI; SIAHBP1; VRJS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203454 representing NM\_014281  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACGGCGACCATAGCTCTCCAGGTCAATGGCCAGCAAGGAGGGGGTCCGAGCCGGCGCGCGCG  
 CGGCAGTGGTGGCAGCGGAGACAAATGGAAACCTCCACAGGGCACAGACTCCATCAAGATGGAGAACGG  
 GCAGAGCACAGCCGCAAGCTGGGGCTGCCTCCCTGACGCCGAGCAGCAGGAGGCCCTTCAGAAGGCC  
 AAGAAGTACGCCATGGAGCAGAGCATCAAGAGTGTGCTGGTGAAGCAGACCATCGCGCACCAGCAGCAGC  
 AGCTCACCAACCTGCAGATGGCGGCTCAGCGGCAGCGGGCGTGGCCATCATGTGCCGCTCTACGTGGG  
 CTCTATCTACTATGAGCTGGGGGAGGACACCATCCGCCAGGCCTTTGCCCTTTGGCCCATCAAGAGC  
 ATCGACATGTCTGGGACTCCGTACCATGAAGCACAAGGGCTTTCCTTCGTGGAGTATGAGGTCCCCG  
 AAGCTGCACAGCTGGCCTTGAGCAGATGAAGTGGTGTGCTGGGGGGCAGGAACATCAAGGTGGGCAG  
 ACCCAGCAACATAGGGCAGGCCAGCCATCATAGACCAGTTGGCTGAGGAGGCACGGGCCCTTCAACCGC  
 ATCTACGTGGCCTCTGTGCCACCAGGACCTCTCAGACGATGACATCAAGAGCGTGTTCGAGGCCTTTGGCA  
 AGATCAAGTCTGCACACTGGCCCGGGACCCACAACCTGGCAAGCACAAGGGCTACGGCTTCATTGAGTA  
 CGAGAAGGCCAGTCTGCCAAGATGCTGTGTCTTCCATGAACCTCTTTGACCTGGGTGGCCAGTACTTG  
 CGGGTGGGCAAGGCTGTACACCCGCCATGCCCTACTCACACCAGCCACGCCTGGAGGCCTCCACCTG  
 CCGCTGCTGTGGCAGTGTCTGCAGCCACTGCCAAGATCACAGCTCAGGAAGCAGTGGCCGGAGCAGCGGT  
 GCTGGGTACCTGGGCACACCTGGACTGGTGTCCCAGCACTGACCCTGGCCAGCCCTGGGCACCTTTG  
 CCCAGGCTGTCACTGGCTGCCAGGCACCTGGAGTCAACAGGTGTGACCCAGCCCTGCTCCTCAATCC  
 GGTCACCATCCCCTCGTGGGAGTGGTGAACCCCATCCTGGCCAGCCCTCAACGCTGGGTCTCCTGGA  
 GCCAAGAAGGAGAAGGAAGAAGAGAGAGCTGTTCCCGAGTCAGAGCGGCCAGAGATGCTGAGCGAGCAG  
 GAGCACATGAGCATCTCGGGCAGTAGCGCCGACACATGGTGTGAGAGAGTGTCTCCGCAAGCAGGAGT  
 CTACAGTGTGGTCTGCGCAACATGGTGGACCCCAAGGACATCGATGATGACCTGGAAGGGGAGGTGAC  
 AGAGGAGTGTGGCAAGTTCGGGGCCGTGAACCGCGTCATCATCTACCAAGAGAAACAAGGCGAGGAGGAG  
 GATGCAGAAATCATTGTCAAGATCTTTGTGGAGTTTTCCATAGCCTCTGAGACTCATAAGGCCATCCAGG  
 CCCTCAATGGCCGCTGGTTTGTGGCCGAAGGTGGTGGCTGAAGTGTACGACCAGGAGCGTTTTGATAA  
 CAGTGACCTCTCTGCG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

**Protein Sequence:**

>RG203454 representing NM\_014281  
 Red=Cloning site Green=Tags(s)

MATATIALQVNGQQGGGSEPAATAAVVAAGDKWKPPQGTDSIKMENGQSTAAKLGPLPPLTPEQQEALQKA  
 KKYAMEQSIKSVLVKQTI AHQQQLTNLQMAAQRORALAIMCRVYVGSIIYELGEDTIRQAFAPFGPIKS  
 IDMSWDSVTMKHKGF AFVEYEVPEAAQLALEQMNSVMLGGRNIKVGRPSNIGQAQPIIDQLAEEARAFNR  
 IYVASVHQDLSDDDIKSVFEAFGKIKSCTLARDPTTGKHKGYGFI EYEKAQSSQDAVSSMNLFDLGGQYL  
 RVGKAVTPPMLLTPATPGGLPPAAAVAAAAATAKITAQEAVAGAAVLGTLGTPGLVSPALTLAQLPLGTL  
 PQAVMAAQAPGVITGVTPARPPIPVTIPSVGVNPIILASPTLGLLEPKKEKEEEELFPESERPEMLSEQ  
 EHMSISGSSARHMVMQKLLRKQESTVMVLRNMVDPKIDDDLEGEVTEECGKFGAVNRVIIYQEKQGEE  
 DAEIIVKIFVEFSIASETHKAIQALNGRWFAGRKVVAEVDQERFDNSDLSA

**TRTRPLE - GFP Tag - V**

**Restriction Sites:**

Sgfl-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:** 1853 bp

**RefSeq ORF:** 1629 bp

**Locus ID:** 22827

**UniProt ID:** [Q9UHX1](#)

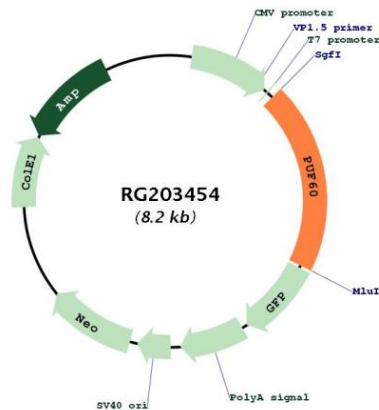
**Cytogenetics:** 8q24.3

**Domains:** RRM, RRM\_1

**Protein Pathways:** Spliceosome

**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 RG203454