

Product datasheet for **RG223492**

PUF60 (NM_078480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PUF60 (NM_078480) 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:

>RG223492 representing NM_078480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACGGCGACCATAGCTCTCCAGGTCAATGGCCAGCAAGGAGGGGGTCCGAGCCGGCGCGCGCG
 CGGCAGTGGTGGCAGCGGAGACAAATGGAACCTCCACAGGGCAGACTCCATCAAGATGGAGAACGG
 GCAGAGCACAGCCGCAAGCTGGGGCTGCCTCCCTGACGCCGAGCAGCAGGAGGCCCTTCAGAAGGCC
 AAGAAGTACGCCATGGAGCAGAGCATCAAGAGTGTGCTGGTGAAGCAGACCATCGCGACCAGCAGCAGC
 AGCTCACCAACCTGCAGATGGCAGCAGTGACAATGGGCTTTGGAGATCCTCTCACCTTTGCAATCGAT
 GGCGGCTCAGCGGCAGCGGGCGCTGGCCATCATGTGCCGCTCTACGTGGGCTCTATCTACTATGAGCTG
 GGGGAGGACACCATCCGCCAGGCCCTTTGCCCTTTGGCCCCATCAAGAGCATCGACATGCTCTGGGACT
 CCGTACCATGAAGCACAAAGGGCTTTGCCTTCGTGGAGTATGAGGTCCCCAAGCTGCACAGCTGGCCTT
 GGAGCAGATGAACTCGGTGATGTGGGGGCGAGAACATCAAGGTGGCAGACCCAGCAACATAGGGCAG
 GCCAGCCATCATAGACCAGTTGGCTGAGGAGGCACGGGCCCTCAACCCGATCTACGTGGCCTCTGTGC
 ACCAGGACCTCTCAGACGATGACATCAAGAGCGTGTGGAGGCCCTTTGGCAAGATCAAGTCTGCACACT
 GGCCCGGGACCCACAACCTGGCAAGCACAGGGCTACGGCTTCATTGAGTACGAGAAGGCCAGTCGTCC
 CAAGATGCTGTGCTTCCATGAACCTCTTTGACCTGGGTGGCCAGTACTTGCGGTGGGCAAGGCTGTCA
 CACCGCCCATGCCCTACTCACACCAGCCACGCCTGGAGGCCCTCCACCTGCCGTGCTGTGGCAGCTGC
 TGCAGCCACTGCCAAGATCACAGCTCAGGAAGCAGTGGCCGGAGCAGCGGTGCTGGTACCCTGGGCACA
 CCTGGACTGGTGTCCCCAGCAGTACCCTGGCCAGCCCTGGGCACTTTGCCCCAGGCTGTATGGCTG
 CCCAGGCACCTGGAGTCATCACAGGTGTGACCCAGCCCGTCTCTATCCCGGTACCATCCCTCGGT
 GGGAGTGGTGAACCCATCCTGGCCAGCCCTCCAACGCTGGGTCTCCTGGAGCCCAAGAAGGAGAAGGAA
 GAAGAGGAGCTGTTTCCCGAGTCAGAGCGGCCAGAGATGCTGAGCGAGCAGGAGCACATGAGCATCTCGG
 GCAGTAGCGCCGACACATGGTATGCAGAAGCTGCTCCGCAAGCAGGAGTCTACAGTATGTTTCTGCG
 CAACATGGTGGACCCCAAGGACATCGATGATGACCTGGAAGGGGAGGTGACAGAGGAGTGTGGCAAGTTC
 GGGGCCGTGAACCGCTCATCATCTACCAAGAGAAACAAGGCGAGGAGGAGGATGCAGAAATCATTGTCA
 AGATCTTTGTGGAGTTTTCCATAGCCTCTGAGACTCATAAGGCCATCCAGGCCCTCAATGGCCGCTGTT
 TGCTGGCCGAAGGTGGTGGCTGAAGTGTACGACCAGGAGCGTTTTGATAACAGTGACCTCTCTGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223492 representing NM_078480
 Red=Cloning site Green=Tags(s)

MATATIALQVNGQQGGSEPA AAAA AVVAAGDKWKPPQGTDSIKMENGQSTAAKLG LPLTPEQQEALQKA
 KKYAMEQSIKSVLVKQ TIAHQQLNLQMAAVTMGFGDPLSPLQSM AQRQRALAIMCRVYVGSIIYYEL
 GEDTIRQAFAPFGPIKSIDMSWDSVTMKHKGF AFVEYEVPEAAQLALEQMNSVMLGGRNIKVGRPSNIGQ
 AQP I IDQLAEEARAFNRIYVASVHQDLSDDDIKSVFEAFGKIKSCTLRDPTTGKHKGYGFI EYEKAQSS
 QDAVSSMNLFDLGGQYL RVGKAVTPMPLLTPATPGGLP PAAAVAAAAATAKITAQEAVAGAAVLGTLGT
 PGLVSPALTLAQPLGTL PQA VMAAQAPGVTGVT PARPPIPVTIP SVGVVNPILASPTLGLLEPKKEKE
 EEELFPESERPEMLSEQEHMSISGSSARHVMQKLLRKQESTVMVLRNMVDPKIDDDLEGEVTEECGKF
 GAVNRV I IYQEKQGEEDA E I I V K I F V E F S I A S E T H K A I Q A L N G R W F A G R K V V A E V Y D Q E R F D N S D L S A

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_078480
ORF Size:	1677 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:	<ol style="list-style-type: none">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_078480.3
RefSeq Size:	1946 bp
RefSeq ORF:	1680 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]