

## Product datasheet for **MG218937**

### **Puf60 (NM\_133691) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Puf60 (NM_133691) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Puf60
Synonyms:	2410104I19Rik; 2810454F19Rik; SIAHBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218937 representing NM\_133691  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGACGGCGACTATAGCTCTCCAGGTCAATGGCCAACAAGGAGGAGGGTTCGGAGCCAGCAGCAGCGG  
 CTGCAGCGCGCGCGCGCAGTGGTGGCAGCAGGAGACAAATGGAAACCTCCACAGGGCACAGAATCCAT  
 CAAGATGGAAAATGGACAAAGCACAGGCACCAAGCTGGGGCTGCCTCCCTGACGCCGAGCAGCAGGAG  
 GCCCTCCAGAAGGCCAAGAAATATGCAATGGAGCAGAGCATCAAGAGTGTGCTGGTGAACAGACCATCG  
 CGCACCAGCAGCAGCAGCTCACCAACTGCAGATGGCAGCTCAACGGCAGCGGGCACTGGCTATCATGTG  
 CCGGGTCTATGTGGGCTCCATCTACTATGAGCTGGGAGAAGACACTATTCGCCAGGCCTTTGCTCCCTTT  
 GGCCCATCAAGAGCATTGATATGCTCTGGGACTCCGTTACCATGAAGCATAAGGGCTTTGCCTTCGTGG  
 AGTACGAGGTCCCAGAAGCTGCGCAGCTCGCTTTGGAGCAGATGAACTCTGTGATGCTTGGGGCAGGAA  
 CATCAAGGTGGGAAGACCCAGCAACATTGGACAAGCCCAACCCATCATAGATCAGCTGGCTGAGGAAGCT  
 AGGGCTTTCAACCGAATATATGTGGCCTCTGTACATCAAGACCTGTCTGATGATGACATCAAGAGTGTAT  
 TTGAAGCCTTTGGCAAGATCAAGTCTTGTACGCTGGCCCGGGACCCACAACCTGGCAAGCACAAGGGCTA  
 TGGTTTTATCGAATATGAGAAGGCCAGTCTGCCAGGATGCTGTGCTCCTCCATGAACCTCTTTGATCTG  
 GGTGGCCAGTACTTGAGGGTGGGCAAGGCCGTACACCCCCCATGCCCTGCTAACACCTGCCACGCCTG  
 GAGGTCTCCCGCTGCTGCTGTGGCCGAGCTGCAGCCACGGCCAAGATTACAGTCAAGGAGCAGT  
 GGCTGGAGCAGCAGTGTGGTACTTTAGCCACACCAGGACTAGTGTCCCAGCACTGACACTGGCCAG  
 CCCTTAGGGGCCATCCCAAGGCTGTATGGCTGCCAGGCCCTGGAGTCAACAGGTGTGACACCCAG  
 CCGCCCTCCTATTCCGGTCAACATCCCTCTGTGGGAGTGTGAAACCCATTCTCGCCAGCCGCCAAC  
 GTTGGGTCTGTTGGAGCCCAAGAAGGAGAAGGAAGAGGAGGAGCTGTTTCTGAGTCAGAACCGCCAGAG  
 ATGTTGAGTGAGCAGGAGCAGTGTGAGTCTCGGGCAGCAGTGTGCTGCCACATGGTCATGCAAAAAGCTAC  
 TCAGAAAAAGGAGTCTACAGTGTGGTCTCCGAAACATGGTGGACCCCAAGGACATCGATGACGACCT  
 GGAGGGAGAGGTGACAGAGGAGTGTGGCAAATTTGGTGTGTGAACCGGGTCAATTCTATCAAGAAAAA  
 CAGGGCGAAGAGGAAGATGCAGAAATCATCGTCAAGATTTTTGTGGAATTCTCCATGGCCTCAGAGACTC  
 ACAAGGCCATCCAGGCCCTCAATGGGCGCTGGTTTGGTGGTCGCAAGGTGGTGGCTGAAGTGTATGACCA  
 GGAGCGTTTTGATAACAGCGACCTCTCCGCG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG218937 representing NM\_133691  
 Red=Cloning site Green=Tags(s)

MATATIALQVNGQQGGGSEPAAAAAAAAAAVVAAGDKWKPPQGTESEIKMENGQSTGTKLGLPPLTPEQQE  
 ALQKAKKYAMEQSIKSVLVKQTIHQQQQLTNLQMAAQRQALAIMCRVYVGSIIYYELGEDTIRQAFAPF  
 GPIKSIDMSWDSVTMKHKGFVFEYEVPEAAQLALEQMNSVMLGGRNIKVGRPSNIGQAQPIIDQLAEEA  
 RAFNRIYVASVHQDLSDDDIKSVFEAFGKIKSCTLARDPTTGKHKGYGFIYEKAQSSQDAVSSMNLFDL  
 GGQYLRVKGAVTPPMPPLTPATPGGLPPAAVAAAAATAKITAQEAVAGA AVLGLATPGLVSPALTLAQ  
 PLGALPQAVMAAQAPGVITGVTPARPPIPVTIPSVGVVNPILASPPTLGLLEPKKEKEEELFPESERPE  
 MLSEQEHMSISGSSARHMVMQKLLRKQESTVMVLRNMVDPKDIDDDLEGEVTEECGKFGAVNRVIIYQEK  
 QGEEEDAIEIVKIFVEFSMASETHKAIQALNGRWFGGRKVVAAEVYDQERFDNSDLA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_133691

**ORF Size:** 1641 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\\_133691.5](#), [NP\\_598452.2](#)

**RefSeq Size:** 1878 bp

**RefSeq ORF:** 1644 bp

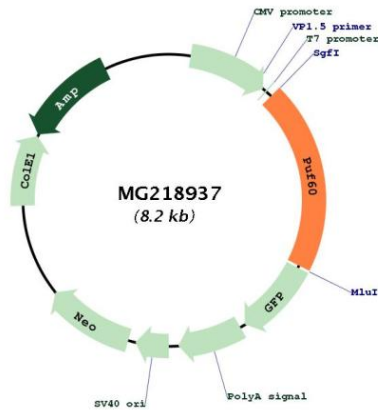
**Locus ID:** 67959

**UniProt ID:** [Q3UEB3](#)

**Cytogenetics:** 15 D3

**Gene Summary:** DNA- and RNA-binding protein, involved in several nuclear processes such as pre-mRNA splicing, apoptosis and transcription regulation. In association with FUBP1 regulates MYC transcription at the P2 promoter through the core-TFIID basal transcription factor. Acts as a transcriptional repressor through the core-TFIID basal transcription factor. Represses FUBP1-induced transcriptional activation but not basal transcription. Decreases ERCC3 helicase activity. Is also involved in pre-mRNA splicing. Promotes splicing of an intron with weak 3'-splice site and pyrimidine tract in a cooperative manner with U2AF2. Involved in apoptosis induction when overexpressed in HeLa cells. Modulates alternative splicing of several mRNAs. Binds to relaxed DNA of active promoter regions. Binds to the pyrimidine tract and 3'-splice site regions of pre-mRNA; binding is enhanced in presence of U2AF2. Binds to Y5 RNA in association with TROVE2. Binds to poly(U) RNA (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG218937