

Product datasheet for **MG218047**

Puf60 (NM_028364) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Puf60 (NM_028364) 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:

>MG218047 representing NM_028364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGACGGCGACTATAGCTCTCCAGGTCAATGGCCAACAAGGAGGAGGGTTCGGAGCCAGCAGCAGCGG
 CTGCAGCGCGCGCGCGCAGTGGTGGCAGCAGGAGACAAATGGAAACCTCCACAGGGCAGAGAATCCAT
 CAAGATGGAAAATGGACAAAGCAGAGCACCAAGCTGGGGCTGCCTCCCTGACGCCGAGCAGCAGGAG
 GCCCTCCAGAAGGCCAAGAAATATGCAATGGAGCAGAGCATCAAGAGTGTGCTGGTGAACAGACCATCG
 CGCACCAGCAGCAGCAGCTCACCAACCTGCAGATGGCAGCAGTGACAATGGGCTTTGGAGATCCTCTCTC
 ACCTTTGCAATCGATGGCAGCTCAACGGCAGCGGGCACTGGCTATCATGTGCCGGGTCTATGTGGCTCC
 ATCTACTATGAGCTGGGAGAAGACTATTGCCAGGCCCTTTGCTCCCTTTGGCCCCATCAAGAGCATTG
 ATATGTCCTGGGACTCCGTTACCATGAAGCATAAGGGCTTTGCCTTCGTGGAGTACGAGGTCCCAGAAGC
 TGCGCAGCTCGCTTTGGAGCAGATGAACCTGTGATGCTTGGGGCAGGAACATCAAGGTGGGAAGACCC
 AGCAACATTGGACAAGCCCAACCCATCATAGATCAGCTGGCTGAGGAAGCTAGGGCTTTCAACCGAATAT
 ATGTGGCCTCTGTACATCAAGACCTGTCTGATGATGACATCAAGAGTGTATTTGAAGCCTTTGGCAAGAT
 CAAGTCTTGTACGCTGGCCCCGGGACCCACAACCTGGCAAGCACAAGGGCTATGGTTTTATCGAATATGAG
 AAGGCCAGTCTGCCAGGATGCTGTGCTCCATGAACCTCTTTGATCTGGGTGGCCAGTACTTGAGGG
 TGGGCAAGGCCGTACACCCCCCATGCCCTGTAACACCTGCCACGCTGGAGGTCTCCCGCTGCTGC
 TGCTGTGGCCGACGTGCAGCCACGGCCAAGATTACAGCTCAGGAAGCAGTGGCTGGAGCAGCAGTGTG
 GGTACTTTAGCCACACAGGACTAGTGTCCCAGCACTGACACTGGCCAGCCCTTAGGGGCCCTACCCC
 AGGCTGTATGGCTGCCAGGCCCTGGAGTCAACAGGTGTGACACCAGCCCGCCCTCTATTCCGGT
 CACCATCCCTCTGTGGGAGTAGTGAACCCATTCTCGCCAGCCGCAACGTTGGGTCTGTTGGAGCCC
 AAGAAGGAGAAGGAAGAGGAGGAGCTGTTTCTGAGTCAGAACGCCAGAGATGTTGAGTGAAGCAGGAGC
 ACATGAGCATCTCGGGCAGCAGTCTCGCCACATGGTCATGCAAAAGCTACTCAGAAAACAGGAGTCTAC
 AGTGATGGTTCTCCGAAACATGGTGGACCCCAAGGACATCGATGACGACCTGGAGGGAGAGGTGACAGAG
 GAGTGTGGCAAATTTGGTGTGTGAACCGGTCATTATCTATCAAGAAAAACAGGGCGAAGGAAGATG
 CAGAAATCATCGTCAAGATTTTTGTGGAATTCCTCATGGCCTCAGAGACTCACAAGGCCATCCAGGCCCT
 CAATGGGCGCTGGTTTGGTGGTCGAAGGTGGTGGCTGAAGTGTATGACCAGGAGCGTTTTGATAACAGC
 GACCTCTCCGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218047 representing NM_028364
 Red=Cloning site Green=Tags(s)

MATATIALQVNGQQGGSEPAAAAAAAAAAVVAAGDKWKPPQGTESIKMENGQSTGTKLGLPPLTPEQQE
 ALQKAKKYAMEQSIKSVLVKQTI AHQQQLTNLQMAAVTMGFDPPLSPLQSMQAQRQRALAIMCRVYVGS
 IYYELGEDTIRQAFAPFGPIKSIDMSWDSVTMKHKGFVVEYEVPEAAQLALEQMNSVMLGGRNIKVGRP
 SNIGQAQPIIDQLAEERAFNRIYVASVHQDLSDDDIKSVFEAFGKIKSCTLRDPTTGKHKGYGFI EYE
 KAQSSQDAVSSMNLFDLGGQYLRVGKAVTPMPLLTPATPGGLPPAAVAAAAATAKITAQEAVAGAAVL
 GTLATPGLVSPALTLAQPLGALPQAVMAAQAPGVITGVTPARPPIPVTIPSVGVVNPILASPTLGLLEP
 KKEKEEELFPESERPEMLSEQEHMSISGSSARHVMQKLLRKQESTVMVLRNMVDPKDIDDDLEGEVTE
 ECGKFGAVNRVIIYQEKQEEEDA EIIVKIFVEFSMASETHKAIQALNGRWFGRKVVAEVYDQERFDNS
 DLSA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_028364

ORF Size: 1692 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_028364.2](#), [NP_082640.2](#)

RefSeq Size: 1929 bp

RefSeq ORF: 1695 bp

Locus ID: 67959

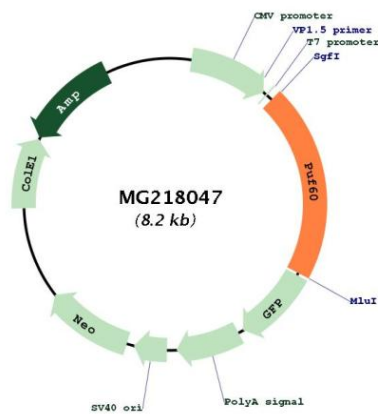
UniProt ID: [Q3UEB3](#)

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 MG218047