

Product datasheet for **MR218047**

Puf60 (NM_028364) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Puf60 (NM_028364) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Puf60
Synonyms:	2410104I19Rik; 2810454F19Rik; SIAHBP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR218047 representing NM_028364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGACGGCGACTATAGCTCTCCAGGTCAATGGCCAACAAGGAGGAGGGTTCGGAGCCAGCAGCAGCGG
 CTGCAGCGCGCGCGCGCAGTGGTGGCAGCAGGAGACAAATGGAAACCTCCACAGGGCAGAGAATCCAT
 CAAGATGGAAAATGGACAAAGCAGAGCACCAAGCTGGGGCTGCCTCCCTGACGCCGAGCAGCAGGAG
 GCCCTCCAGAAGGCCAAGAAATATGCAATGGAGCAGAGCATCAAGAGTGTGCTGGTAAACAGACCATCG
 CGCACCAGCAGCAGCAGCTACCAACCTGCAGATGGCAGCAGTGACAATGGGCTTTGGAGATCCTCTCTC
 ACCTTTGCAATCGATGGCAGCTCAACGGCAGCGGGCACTGGCTATCATGTGCCGGGTCTATGTGGCTCC
 ATCTACTATGAGCTGGGAGAAGACTATTGCCAGGCCCTTGTCCCTTTGGCCCCATCAAGAGCATTG
 ATATGTCCTGGGACTCCGTTACCATGAAGCATAAGGGCTTGCCTTCGTGGAGTACGAGGTCCCAGAAGC
 TGCGCAGCTCGCTTTGGAGCAGATGAACCTGTGATGCTTGGGGCAGGAACATCAAGGTGGGAAGACCC
 AGCAACATTGGACAAGCCCAACCCATCATAGATCAGCTGGCTGAGGAAGCTAGGGCTTTCAACCGAATAT
 ATGTGGCCTCTGTACATCAAGACCTGTCTGATGATGACATCAAGAGTGTATTTGAAGCCTTTGGCAAGAT
 CAAGTCTTGTACGCTGGCCCCGGGACCCACAACCTGGCAAGCACAAGGGCTATGGTTTTATCGAATATGAG
 AAGGCCAGTCTGCCAGGATGCTGTGCTCCATGAACCTCTTGTATCTGGTGGCCAGTACTTGGAGG
 TGGGCAAGGCCGTACACCCCCCATGCCCTGTAACACCTGCCACGCTGGAGGTCTCCCGCTGCTGC
 TGCTGTGGCCGACGCTGCAGCCACGGCCAAGATTACAGCTCAGGAAGCAGTGGCTGGAGCAGCAGTGTG
 GGTACTTTAGCCACACCAGGACTAGTGTCCCAGCACTGACACTGGCCAGCCCTTAGGGGCCCTACCCC
 AGGCTGTATGGCTGCCAGGCCCTGGAGTCAACAGGTGTGACACCAGCCCGCCCTTATTCGGGT
 CACCATCCCTCTGTGGGAGTAGTGAACCCATTCTCGCCAGCCCGCAACGTTGGGTCTGTTGGAGCCC
 AAGAAGGAGAAGGAAGAGGAGGAGCTGTTTCTGAGTCAGAACGCCAGAGATGTTGAGTGAAGCAGGAGC
 ACATGAGCATCTCGGGCAGCAGTCTCGCCACATGGTCATGCAAAAGCTACTCAGAAAACAGGAGTCTAC
 AGTGATGGTTCTCCGAAACATGGTGGACCCCAAGGACATCGATGACGACCTGGAGGGAGAGGTGACAGAG
 GAGTGTGGCAAATTTGGTGTGTGAACCGGTCATTATCTATCAAGAAAAACAGGGCGAAGAGGAAGATG
 CAGAAATCATCGTCAAGATTTTGTGGAATTCCTCATGGCCTCAGAGACTCACAAGGCCATCCAGGCCCT
 CAATGGGCGCTGGTTTGGTGGTGCAGAGGTGGTGGCTGAAGTGTATGACCAGGAGCGTTTGATAACAGC
 GACCTCTCCGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218047 representing NM_028364
 Red=Cloning site Green=Tags(s)

MATATIALQVNGQQGGGSEPAAAAAAAAAAVVAAGDKWKPPQGTESIKMENGQSTGTKLGLPPLTPEQQE
 ALQKAKKYAMEQSIKSVLVKQTIHQQQQLTNLQMAAVTMGFGDPLSPLQSMAAQRQRALAIMCRVYVGS
 IYYELGEDTIRQAFAPFGPIKSIDMSWDSVTMKHKGFAFVEYEVPEAAQLALEQMNSVMLGGRNIKVGRP
 SNIGQAQPIIDQLAEEARAFNRIYVASVHQDLSDDDIKSVFEAFGKIKSCTLRDPTTGKHKGYGFIEYE
 KAQSSQDAVSSMNLFDLGGQYLRVGVKAVTPPMLLTPATPGGLPAAAVAAAAATAKITAQEAVAGAAVL
 GTLATPGLVSPALTLAQPLGALPQAVMAAQAPGVITGVTPARPPIPVTIPSVGVVNPILASPPTLGLLEP
 KKEKEEEELFPESERPEMLSEQEHMSISGSSARHVMQKLLRKQESTVMVLRNMVDPKIDDDLEGEVTE
 ECGKFGAVNRVIIYQEKQGEEDAIEIVKIFVEFSMASETHKAIQALNGRWFGRKVVAAEVYDQERFDNS
 DLSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

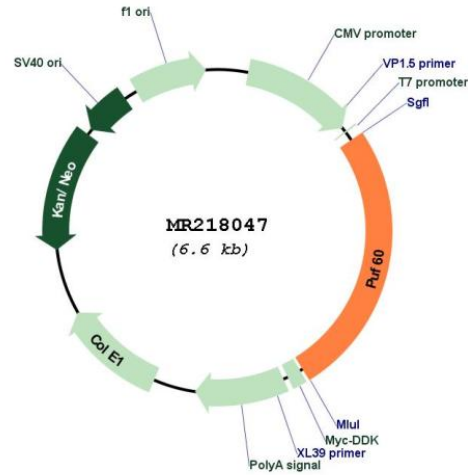
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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:	<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_028364.2 , NP_082640.2
RefSeq Size:	1929 bp
RefSeq ORF:	1695 bp
Locus ID:	67959
UniProt ID:	Q3UEB3
Cytogenetics:	15 D3
MW:	60.7 kDa
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]