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Product datasheet for MR216560

Puf60 (NM_001164600) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Puf60 (NM_001164600) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Puf60
Synonyms:	2410104I19Rik; 2810454F19Rik; SIAHBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR216560 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAAATGGACAAAGCACAGGCACCAAGCTGGGGCTGCCTCCCCTGACGCCCGAGCAGCAGGAGGCCC
TCCAGAAGGCCAAGAAATATGCAATGGAGCAGAGCATCAAGAGTGTGCTGGTGAAACAGACCATCGCGCA
CCAGCAGCAGCAGCTCACCAACCTGCAGATGGCAGCTCAACGGCAGCGGGCACTGGCTATCATGTGCCGG
GTCTATGTGGGCTCCATCTACTATGAGCTGGGAGAAGACACTATTCGCCAGGCCTTTGCTCCCTTTGGCC
CCATCAAGAGCATTGATATGTCCTGGGACTCCGTTACCATGAAGCATAAGGGCTTTGCCTTCGTGGAGTA
CGAGGTCCCAGAAGCTGCGCAGCTCGCTTTGGAGCAGATGAACTCTGTGATGCTTGGGGGCAGGAACATC
AAGGTGGGAAGACCCAGCAACATTGGACAAGCCCAACCCATCATAGATCAGCTGGCTGAGGAAGCTAGGG
CTTTCAACCGAATATATGTGGCCTCTGTACATCAAGACCTGTCTGATGATGACATCAAGAGTGTATTTGA
AGCCTTTGGCAAGATCAAGTCTTGTACGCTGGCCCGGGACCCCACAACTGGCAAGCACAAGGGCTATGGT
TTTATCGAATATGAGAAGGCCCAGTCGTCCCAGGATGCTGTGTCCTCCATGAACCTCTTTGATCTGGGTG
GCCAGTACTTGAGGGTGGGCAAGGCCGTCACACCCCCCATGCCCCTGCTAACACCTGCCACGCCTGGAGG
TCTCCCGCCTGCTGCTGCTGTGGCCGCAGCTGCAGCCACGGCCAAGATTACAGCTCAGGAAGCAGTGGCT
GGAGCAGCAGTGCTGGGTACTTTAGCCACACCAGGACTAGTGTCCCCAGCACTGACACTGGCCCAGCCCT
TAGGGGCCCTACCCCAGGCTGTCATGGCTGCCCAGGCCCCTGGAGTCATCACAGGTGTGACACCAGCCCG
CCCTCCTATTCCGGTCACCATCCCCTCTGTGGGAGTAGTGAACCCCATTCTCGCCAGCCCGCCAACGTTG
GGTCTGTTGGAGCCCAAGAAGGAGAAGGAAGAGGAGGAGCTGTTTCCTGAGTCAGAACGGCCAGAGATGT
TGAGTGAGCAGGAGCACATGAGCATCTCGGGCAGCAGTGCTCGCCACATGGTCATGCAAAAGCTACTCAG
AAAACAGGAGTCTACAGTGATGGTTCTCCGAAACATGGTGGACCCCAAGGACATCGATGACGACCTGGAG
GGAGAGGTGACAGAGGAGTGTGGCAAATTTGGTGCTGTGAACCGGGTCATTATCTATCAAGAAAAACAGG
GCGAAGAGGAAGATGCAGAAATCATCGTCAAGATTTTTGTGGAATTCTCCATGGCCTCAGAGACTCACAA
GGCCATCCAGGCCCTCAATGGGCGCTGGTTTGGTGGTCGCAAGGTGGTGGCTGAAGTGTATGACCAGGAG
CGTTTTGATAACAGCGACCTCTCCGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216560 protein sequence
Red=Cloning site Green=Tags(s)

MENGQSTGTKLGLPPLTPEQQEALQKAKKYAMEQSIKSVLVKQTIAHQQQQLTNLQMAAQRQRALAIMCR
VYVGSIYYELGEDTIRQAFAPFGPIKSIDMSWDSVTMKHKGFAFVEYEVPEAAQLALEQMNSVMLGGRNI
KVGRPSNIGQAQPIIDQLAEEARAFNRIYVASVHQDLSDDDIKSVFEAFGKIKSCTLARDPTTGKHKGYG
FIEYEKAQSSQDAVSSMNLFDLGGQYLRVGKAVTPPMPLLTPATPGGLPPAAAVAAAAATAKITAQEAVA
GAAVLGTLATPGLVSPALTLAQPLGALPQAVMAAQAPGVITGVTPARPPIPVTIPSVGVVNPILASPPTL
GLLEPKKEKEEEELFPESERPEMLSEQEHMSISGSSARHMVMQKLLRKQESTVMVLRNMVDPKDIDDDLE
GEVTEECGKFGAVNRVIIYQEKQGEEEDAEIIVKIFVEFSMASETHKAIQALNGRWFGGRKVVAEVYDQE
RFDNSDLSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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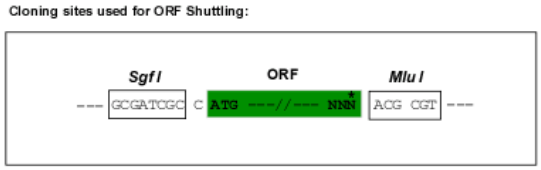
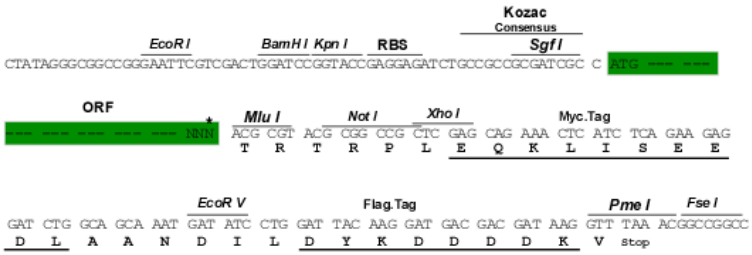
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN:	NM_001164600
ORF Size:	1500 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_001164600.1, NP_001158072.1
RefSeq Size:	1848 bp
RefSeq ORF:	1500 bp
Locus ID:	67959
UniProt ID:	Q3UEB3
Cytogenetics:	15 D3

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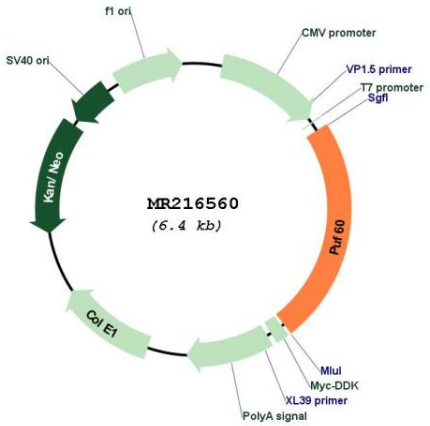
MW: 54 kDa

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-TFIIH basal transcription factor. Acts as a transcriptional repressor through the core-TFIIH 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 MR216560

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