

Product datasheet for **MR214471**

Irf2bp2 (NM_001164598) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irf2bp2 (NM_001164598) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irf2bp2
Synonyms:	E130305N23Rik; IRF-2BP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR214471 representing NM_001164598
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGCGCGGTGGCGGTGGCGGCCCTCTCGGCCAGTCGTGCTATCTGTGTGACCTGCCCCGCA
 TGCCTTGGGCCATGATCTGGGACTTCACGGAGCCCGTGTGCCGCGCTGCGTCAACTACGAGGGAGCCGA
 CCGCGTGGAGTTCGTATCGAGACGGCCGCGCAGCTGAAGCGTGTACGCGCTGCTCCCGAGGGCCGC
 TCCCGACCGGTGCACAGCCGCGAGCCGCAAGCCACGCCACTGTGGCCAAGGACCTACTGCTGCAGC
 CGCCGCCGAGCTGGGCCACGGGGCGCGAGGCCGCGCGCTCAGGCTATGGAGCGCTACCGCTGGC
 GCCGATCGTCCCCGCGCTGGCTCCGACTTCAGCACGCGTGCGGGTGCAGGCCTCCACAGTCGGCC
 GCGCAGCAGTCCGCGCCGCGAACGGCATCCTGGTGCCCAACGGGTTCTCCAACTGGAGGAGCCGCCG
 AGCTGAATCGCCAGAGCCGAACCTCGGCGTGCACACGCCGTTCCGCCACTCTGGTGCCTCTGGTCAA
 CGGTTCTGCCGCGCTGGGTTGAGCGGCCGTGCTGCGGCCACACTGGCCGCGGTGAGCGGAACACGGGC
 CTGGGAGCTCAGCCCGCGAGTTGGGCACCCACAAACGCCCGCGCTCTGTGTCGAGCGCGCGCGGAGC
 ACGAGGCGCGGAGCCGAGCAAGGAGAAGGCGCAGCCCGCGCACCGGAGTCCGGCCGACAGCTTATCCAG
 CGCGGCCGGGGCCAGCGAGCTGAGCGCCGAGGTGCAGGCAAAGGCCGCGCGCCGGGAGCAGGACTGG
 GCCAGCAGGCCTAAGACGGTGCGGGACACGCTCCTGGCGTGCACCAGCAGGCCACTCGGGGCCCTTCG
 AGAGCAAGTTCAAGAAGGAGCCGGCTCTGACTGCAGCAGGCAGGTTGTTGGGTTTCGAGGCCAACGGGC
 CAACGGGTCTAAGCAGTTGCAAGGACAGCAAGGAAAAGGAAAGCCTCCCGAAGCCGAAGGGGAAGTC
 GGGCCCCCTAAGATCAATGGTGAGACACAGCCTTGGCTGTCCACTTCCACAGAAGGGCTCAAGATCCCCA
 TCACCCCTACATCCTCTTTGTGTCTCCACACCCCTACTGCCTCTCTCATTCCAACCGGACACACC
 GGCTGAAGCGGCCGAGAATGGCCAGTCCCAATGGCAGCCCTGATTTTAGTAGCAGACAATGCCGGGGGC
 AGTCACGCCTCAAAGATGCCACCCAGGTTCACTCCACCACCAGGAGGAACAGCAGCAGCCCGCCCTCTC
 CCTCTCTATGAACAAAGAAGGCTTGGCCCCAGAGAGGTGGGGGCCAGGCCACCGGCAGCACCAGGAG
 ACTGGAGCCGGTGCACCCTGCCAGCTCCAGACTCCTCTCTGGCAGCCAGCGCCCCCTGTGCTGCACC
 CTCTGCCACGAGCGGCTGGAGGATACTCACTTTGTGCACTGCCGCTGTGCTTTCGCACAAGTTCTGTT
 TCCCTTGTCCAGACAAAGCATTAAACAGCAGGGCGCTAGCGGAGAGGTCTATTGCCAAGTGGAGAGAA
 GTGTCCTCTGGTGGGCTCAATGTCCCCTGGGCCTTCATGCAAGGAGAGATTGCTACCATCCTCGCCGA
 GATGTGAAAGTGAAGAAGGAGAGAGACTCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>MR214471 representing NM_001164598
 Red=Cloning site Green=Tags(s)

MAAAVAVAAASRRQSCYLCDLPRMPWAMIWDFTEPVCRCVNYEGADRVFVIETARQLKRAHGCPEGR
 SPTGAQPAAPKPPPLSAKDLLLQPPPQLGHAGAEAAQAAMERYPLAPDRAPRLASDFSTRAGAGLPQSA
 AQQSAPANGILVPNGFSKLEEPPELNRRQSPNRRRAHAVPPTLVPLVNGSAALGLSGRAAATLAAVSGTPG
 LGAQPAELGTHKRPASVSSAAAEHEAREPSKEKAQPAHRSPADSLSSAAGASELSAEGAGKGRAPGEQDW
 ASRPKTVRDTLLALHQHGHSGPFESKFKEPALTAAGRLLGFEANGANGSKAVARTARKRKPSPEPEGEV
 GPPKINGETQPWLSTSTGLKIPITPTSSFVSPPPPTASPHSNRTTPEAAQNGQSPMAALILVADNAGG
 SHASKDATQVHSTTRRNSSPPSPSSMNQRRLLGPREVGGQATGSTGGLPVHPASLPDSSLAASAPLCCT
 LCHERLEDTHFVQCPSVPSHKFCFPCSRQSIKQQGASGEVYCPSEKCLPLVGSNPWAFMQGEIATILAG
 DVKVKKERDS

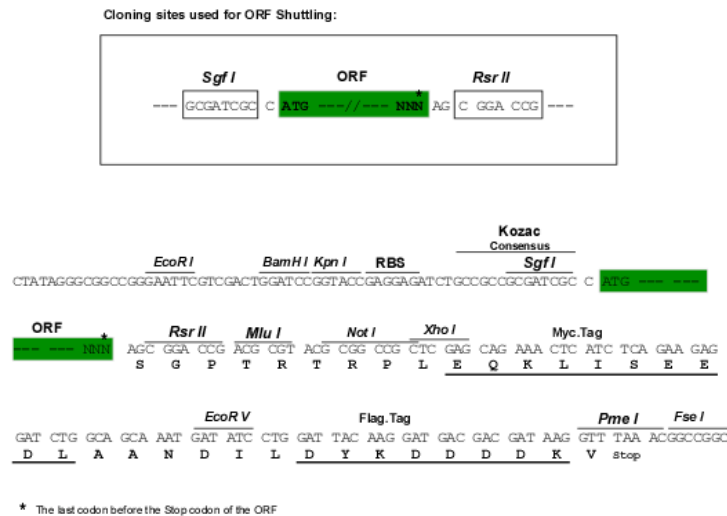
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9046_e07.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001164598

ORF Size: 1710 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001164598.2](#)

RefSeq Size: 4530 bp

RefSeq ORF: 1713 bp

Locus ID: 270110

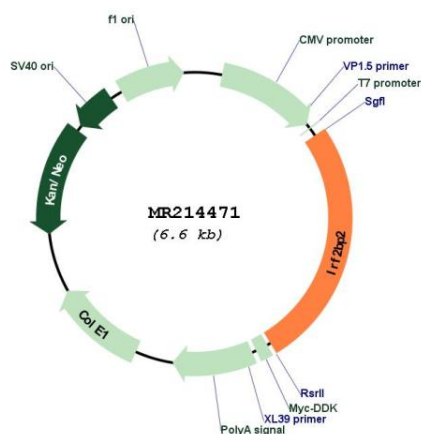
UniProt ID: [E9Q1P8](#)

Cytogenetics: 8 E2

MW: 59.7 kDa

Gene Summary: Acts as a transcriptional corepressor in a IRF2-dependent manner, this repression is not mediated by histone deacetylase activities. Represses the NFAT1-dependent transactivation of NFAT-responsive promoters. Acts as a coactivator of VEGFA expression in cardiac and skeletal muscles. Plays a role in immature B-cell differentiation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214471