

Product datasheet for **MG214471**

Irf2bp2 (NM_001164598) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irf2bp2 (NM_001164598) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Irf2bp2
Synonyms:	E130305N23Rik; IRF-2BP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG214471 representing NM_001164598
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCGCGGTGGCGGTGGCGGCCCTCTCGGCCAGTCGTGCTATCTGTGTGACCTGCCCCGCA
 TGCCTTGGGCGATGATCTGGGACTTCACGAGCCCGTGTGCCGCGCTGCGTCAACTACGAGGGAGCCGA
 CCGCGTGGAGTTCGTATCGAGACGGCCGCGCAGCTGAAGCGTGTACGCGCTGTTCCCGAGGGCCGC
 TCCCCGACCGGTGCACAGCCGCGAGCCGCAAGCCACGCCACTGTGGCCAAGGACCTACTGCTGCAGC
 CGCCGCCGCGAGCTGGGCCACGGGGCGCGAGGCCGCGCGCTCAGGCTATGGAGCGCTACCGCTGGC
 GCCGGATCGTCCCCGCGCTGGCTCCGACTTCAGCACGCGTGCGGGTGCAGGCCTCCACAGTCGGCC
 GCGCAGCAGTCCGCGCCGCGAACGGCATCCTGGTGCCCAACGGGTTCTCCAACTGGAGGAGCCGCCG
 AGCTGAATCGCCAGAGCCGAACCTCGGCGTGCACACGCCGTTCCGCCACTCTGGTGCCTCTGGTCAA
 CGGTTCTGCCGCGCTGGGTTGAGCGGCCGTGCTGCGGCCACACTGGCCGCGGTGAGCGGAACACCGGGC
 CTGGGAGCTCAGCCCGCGAGTTGGGCACCCACAAACGCCCGCGCTCTGTGTCGAGCGCGCGCGGAGC
 ACGAGGCGCGGAGCCGAGCAAGGAGAAGGCGCAGCCCGCGCACCGGAGTCCGGCCGACAGCTTATCCAG
 CGCGGCCGGGGCAGCGAGCTGAGCGCCGAGGTGCAGGCAAAGGCCGCGCGCCCGGGGAGCAGGACTGG
 GCCAGCAGGCCTAAGACGGTGCGGGACACGCTCCTGGCGCTGCACCAGCACGGCCACTCGGGGCCCTTCG
 AGAGCAAGTTCAAGAAGGAGCCGGCTCTGACTGCAGCAGGCAGTTGTTGGGTTTCGAGGCCAACGGGGC
 CAACGGGTCTAAGCAGTTGCAAGGACAGCAAGGAAAAGGAAGCCTTCCCAGAACCAGGAGGGGAAGTC
 GGGCCCCCTAAGATCAATGGTGAGACACAGCCTTGGCTGTCCACTTCCACAGAAGGGCTCAAGATCCCCA
 TACCCCTACATCCTCTTTGTGTCTCCACCACCCCTACTGCCTCTCCTATTCCAACCGGACCACACC
 GCCTGAAGCGGCCGAGAATGGCCAGTCCCAATGGCAGCCCTGATTTTAGTAGCAGACAATGCCGGGGGC
 AGTCACGCCTCAAAGATGCCACCCAGGTTCACTCCACCACCAGGAGGAACAGCAGCAGCCGCCCTCTC
 CCTCCTCTATGAACCAAAGAAGGCTTGGCCCCAGAGAGGTGGGGGGCAGGCCACCGGCAGCACCGGAGG
 ACTGGAGCCGGTGCACCCTGCCAGCTCCAGACTCCTCTCTGGCAGCCAGCGCCCCCTGTGCTGCACC
 CTCTGCCACGAGCGGCTGGAGGATACTCACTTTGTGCACTGCCGCTGTGCTCCTTCGCACAAGTTCTGTT
 TCCCTTGTCTCAGACAAAGCATTAAACAGCAGGGCGCTAGCGGAGAGGTCTATTGCCAAGTGGAGAGAA
 GTGTCCTCTGGTGGGCTCAATGTCCCCTGGGCCTTCATGCAAGGAGAGATTGCTACCATCCTCGCCGGA
 GATGTGAAAGTGAAGAAGGAGAGAGACTCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

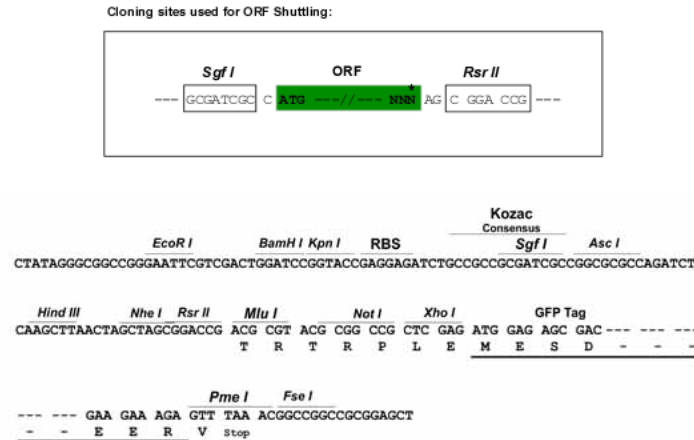
>MG214471 representing NM_001164598
 Red=Cloning site Green=Tags(s)

MAAAVAVAAASRRQSCYLCDLPRMPWAMIWDFTEPVCRGCVNYEGADRVEFVIETARQLKRAHGCPEGR
 SPTGAQPAAAKPPPLSAKDLLLLQPPQLGHAGAEARAQAMERYPLAPDRAPRLASDFSTRAGAGLPQSA
 AQQSAPANGILVPNGFSKLEEPPELNRRQSPNPRRAHAVPPTLVPLVNGSAALGLSGRAAATLAAVSGTPG
 LGAQPAELGTHKRPASVSSAAAEHEAREPSKEKAQPAHRSPADLSAAGASELSAEGAGKGRAPGEQDW
 ASRPKTVRDTLLALHQHGHSGPFESKFKEPALTAAGRLLGFEANGANGSKAVARTARKRKPSPEPEGEV
 GPPKINGETQPWLSTTEGLKIPITPTSSFVSPPPPTASPHSNRTTPPEAAQNGQSPMAALILVADNAGG
 SHASKDATQVHSTTRNSSPPSPSSMNQRRLGPREVGGQATGSTGGLPVHPASLPDSSLAASAPLCCT
 LCHERLEDTHFVQCPSVPSHKFCFPCSRQSIKQGASGEVYCPSGEKCLPVGSNPWAFMQGEIATILAG
 DVKVKKERDS

SGP**TRTRRLE** - GFP Tag - V

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

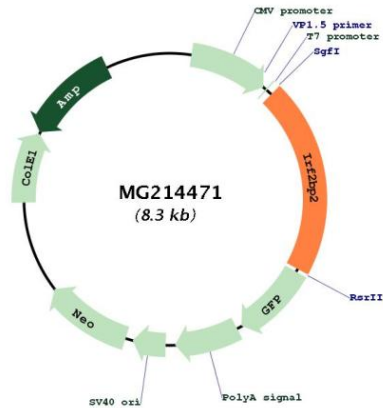
Locus ID: 270110

UniProt ID: [E9Q1P8](#)

Cytogenetics: 8 E2

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 MG214471