

Product datasheet for RC221020

IRAK1BP1 (NM_001010844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAK1BP1 (NM_001010844) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IRAK1BP1
Synonyms:	AIP70; SIMPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221020 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCTCTGCAAAAGACCCCTCCGACCCGAGTGTTCTGTGGAAGTGGTCCCTGGGCTGACCGGAGCCGGG
 AGAACAACTGGCCTCAGGGAGAGAGACGCTACCGGGCTTACGCCACCCCTCTCCTCAACACAAGCCCA
 AACTGCTACCCGCGAGGTGCAAGTAAGCGGCACCTCAGAAGTGTCTGCGGGCCCTGACCGGGCGCAGGTG
 GTGGTGCAGTGAGCAGCACCAAGGAGGCGGCAGCCGAGGCCAAAAGAGCGTTTGTGCGCGTCTAGATT
 ACATCACGCAGAGCCTCCAGCAGCAGGGCGTGCAGGCGGAAAATATAACTGTGACAAAGGATTTTAGGAG
 AGTGGAAGTGTATATCATGGAAGCAGAGGTCTGCATTACATTTACTGAATTTGGAAAAATGCAAAAT
 ATTTGTAACCTTTCTTGTGAAAAGCTAGATAGCTCTGTTGTCATCAGCCACCCAGTTCTATCATACTC
 CAGGTTCTGTTGAGAATCTTCGACGGCAAGCCTGTCTTGTGCTGTTGAGAATGCGTGGCGCAAAGCTCA
 AGAAGTCTGTAACCTTGTGGCCAAACCTTAGGAAAACCTTTACTAATCAAGAAGAAGAAACAAAAGAA
 TGGGAAGGCCAAATAGATGATCACCAGTCATCCAGACTCTCAAGTTCATTAAGTGTACAACAAAAATCA
 AAAGTGCAACAATACATGCTGCTTCAAAAGTATTTATAACTTTTGAGGTAAGGGAAAAGAGAAGAGAAA
 AAAGCACCTT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC221020 protein sequence
 Red=Cloning site Green=Tags(s)

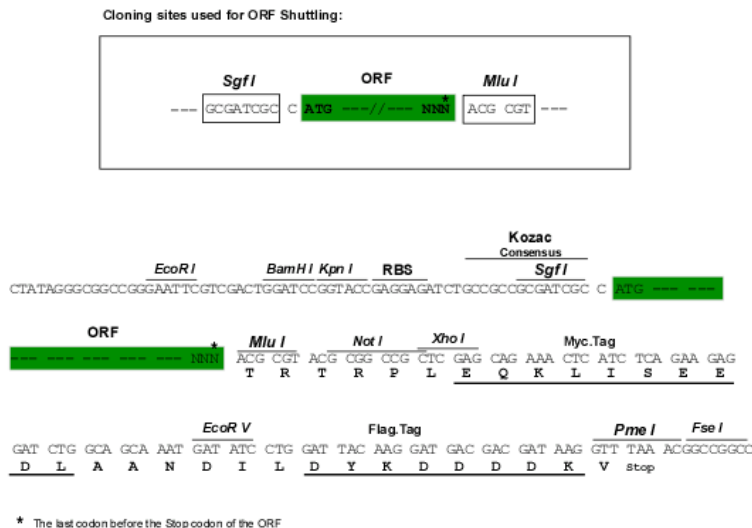
MSLQKTPPTRVFVELVPWADRSRENNLASGRETLPLRHPLSSTQAQTATREVQVSGTSEVSAGPDRAQV
 VVRVSSTKEAAAEAKKSVCRRLDYITQSLQQQGVQAENITVTKDFRRVENAYHMEAEVCITFTEFGKMQN
 ICNFLVEKLDSSVVISPPQFYHTPGSVENLRRQACLVAVENAWRKAQEVNVLVGQTLGKPLLIKEETKE
 WEGQIDDHQSSRLSSSLTVQQIKSATIHAASKVFITFEVKGKEKRKKHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6460_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001010844

ORF Size: 780 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_001010844.4

RefSeq Size: 3464 bp

RefSeq ORF: 783 bp

Locus ID: 134728

UniProt ID: Q5VWH5

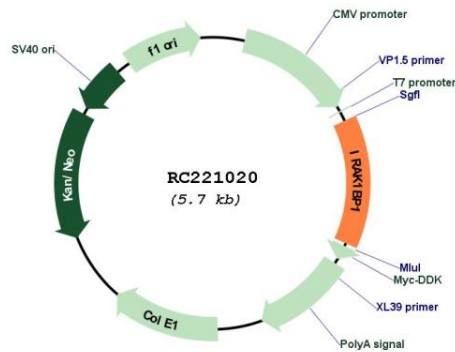
Cytogenetics: 6q14.1

Protein Families: Druggable Genome

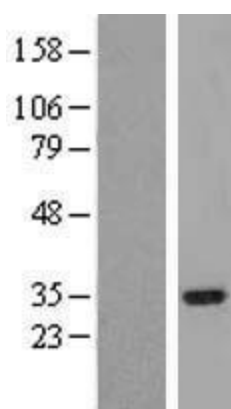
MW: 29.1 kDa

Gene Summary: Component of the IRAK1-dependent TNFRSF1A signaling pathway that leads to NF-kappa-B activation and is required for cell survival. Acts by enhancing RELA transcriptional activity (By similarity).[UniProtKB/Swiss-Prot Function]

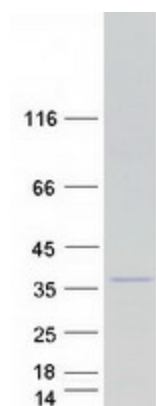
Product images:



Circular map for RC221020



Western blot validation of overexpression lysate (Cat# [LY423178]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221020 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IRAK1BP1 protein (Cat# [TP321020]). The protein was produced from HEK293T cells transfected with IRAK1BP1 cDNA clone (Cat# RC221020) using MegaTran 2.0 (Cat# [TT210002]).