

Product datasheet for **RG221020**

IRAK1BP1 (NM_001010844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IRAK1BP1 (NM_001010844) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRAK1BP1
Synonyms:	AIP70; SIMPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221020 representing NM_001010844 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCTGCAAAGACCCCTCCGACCCGAGTGTTCTGTGGAAGTGGTCCCTGGGCTGACCGGAGCCGGG
 AGAACAACTGGCCTCAGGGAGAGAGACGCTACCGGGCTTACGCCACCCCTCTCCTCAACACAAGCCCA
 AACTGCTACCCGCGAGGTGCAAGTAAGCGGCACCTCAGAAGTGTCTGCGGGCCCTGACCGGGCGCAGGTG
 GTGGTGCAGTGAGCAGCACCAAGGAGGCGGCAGCCGAGGCCAAAAGAGCGTTTGTGCGCGTCTAGATT
 ACATCACGCAGAGCCTCCAGCAGCAGGGCGTGCAGGCGGAAAATATAACTGTGACAAAGGATTTTAGGAG
 AGTGGAAGAAATGCTTATCATGGAAGCAGAGGTCTGCATTACATTTACTGAATTTGGAAAAATGCAAAAT
 ATTTGTAACCTTTCTTGTGAAAAGCTAGATAGCTCTGTTGTCATCAGCCACCCAGTTCTATCATACTC
 CAGGTTCTGTTGAGAATCTTCGACGGCAAGCCTGTCTTGTGCTGTTGAGAATGCGTGGCGCAAAGCTCA
 AGAAGTCTGTAACCTTGTGGCCAAACCTTAGGAAAACCTTTACTAATCAAGAAGAAGAAACAAAAGAA
 TGGGAAGGCCAAATAGATGATCACCAGTCATCCAGACTCTCAAGTTCATTAAGTGTACAACAAAAATCA
 AAAGTGCAACAATACATGCTGCTTCAAAAGTATTTATAACTTTTGAGGTAAGGGAAAAGAGAAGAGAAA
 AAAGCACCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG221020 representing NM_001010844
Red=Cloning site Green=Tags(s)

MSLQKTPPTRVFVELVPWADRSRENNLASGRETLPGLRHPLSSTQAQTATREVQVSGTSEVSAGPDRAQV
VVRVSSTKEAAAEAKKSVCRRLDYITQSLQQQGVQAENITVTKDFRRVENAYHMEAEVCITFTEFGKMQN
ICNFLVEKLDSSVVISPPQFYHTPGSVENLRRQACLVAVENAWRKAQEVNVLVGQTLGKPLLIKEETKE
WEGQIDDHQSSRLSSSLTVQQIKSATIHAASKVFITFEVKGKEKRKKHL

TRTRPLE – GFP Tag – V

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_001010844.1](#), [NP_001010844.1](#)

RefSeq Size: 1157 bp

RefSeq ORF: 783 bp

Locus ID: 134728

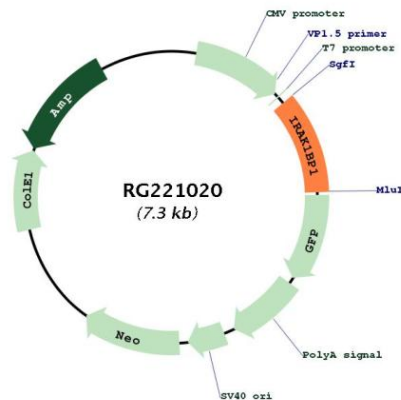
UniProt ID: [Q5VWH5](#)

Cytogenetics: 6q14.1

Protein Families: Druggable Genome

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 RG221020