

Product datasheet for **RG209734**

JIP1 (MAPK8IP1) (NM_005456) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	JIP1 (MAPK8IP1) (NM_005456) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	JIP1
Synonyms:	IB1; JIP-1; JIP1; PRKM8IP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG209734 representing NM_005456
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGGAGCGAGAAAGCGGCGCCTGGGAGGGGGGCCGCTCCCCGCCGCCGCTCCCCGTTCTTGG
 GGCTGCACATCGCTTCGCCTCCCAATTTAGGCTCACCATGACATCAGCCTGGAGGAGTTTGAGGATGA
 AGACCTCTCGGAGATCACTGATGAGTGTGGCATCAGCTTACAGTGCAAAGACACCCTGCTCTACGGCCC
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 TGGACCTGATCGACGCGACGGGGACACTCCCGGGGCCGAGGACGACGAGGAGGACGACGAGGAGCG
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 ACAAGTACTTTGGGTTTCATACCAAGCACCCGCCGACAACCGGTTTGCTGCCACGTCTTTGTGTCTGA
 AGACTCCACCAAGCCCTGGCAGAGTCCGTGGGAGAGCATTCCAGCAGTTCTACAAGCAGTTTGTGGAG
 TACACCTGCCCCACAGAAGATATCTACCTGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209734 representing NM_005456
 Red=Cloning site Green=Tags(s)

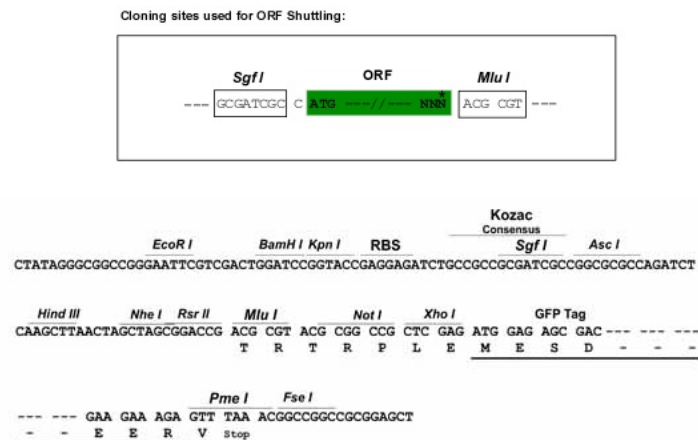
MAERESGGLGGGAASPPAASPFLGLHIASPPNFRLTHDISLEEFEDDLSEITDECGISLQCKDTLSLRP
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 SDWVDQFRVKFLGSVQVPHKGNVLCAMQKIATTRRLTVHFNPPSSCVLEINVRGVKIGVKADDSQEA
 KGNKCSHFFQLKNISFCGYHPKNNKYFGFITKHPADNRFACHVFVSEDSTKALAESVGRAFQQFYKQFVE
 YTCPTEDIYLE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_005456

ORF Size: 2133 bp

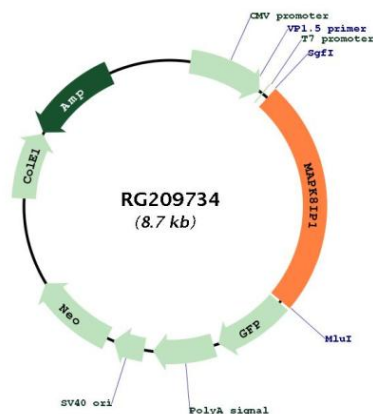
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_005456.2, NP_005447.1</u>
RefSeq Size:	3079 bp
RefSeq ORF:	2136 bp
Locus ID:	9479
UniProt ID:	<u>Q9UQF2</u>
Cytogenetics:	11p11.2
Protein Families:	Druggable Genome
Protein Pathways:	MAPK signaling pathway
Gene Summary:	This gene encodes a regulator of the pancreatic beta-cell function. It is highly similar to JIP-1, a mouse protein known to be a regulator of c-Jun amino-terminal kinase (Mapk8). This protein has been shown to prevent MAPK8 mediated activation of transcription factors, and to decrease IL-1 beta and MAP kinase kinase 1 (MEKK1) induced apoptosis in pancreatic beta cells. This protein also functions as a DNA-binding transactivator of the glucose transporter GLUT2. RE1-silencing transcription factor (REST) is reported to repress the expression of this gene in insulin-secreting beta cells. This gene is found to be mutated in a type 2 diabetes family, and thus is thought to be a susceptibility gene for type 2 diabetes. [provided by RefSeq, May 2011]

Product images:



Circular map for RG209734