

Product datasheet for **MR230924**

Mapk8ip1 (NM_001202445) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8ip1 (NM_001202445) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk8ip1
Synonyms:	IB1; JIP-1; Jip1; mjip-2a; Prkm8ip; Skip
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230924 representing NM_001202445
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCTGGTACTGAAGATGGATTCGAGCCCAGACAATGACAGCTGGTTGGAGGATCAGTGGGAGCACT
 GGCTCACCCATGACATCAGCCTGGAGGAGTTTGAGGATGAAGACCTTTCGGAGATCACTGACGAGTGTGG
 CATCAGCCTGCAGTGCAAAGACACCCTGTCTCTCCGGCCCCCGCGCGCCGGGCTGCTGTCTGCGGGTAGC
 AGCGGCAGCGCGGGGAGCCGGCTGCAGGCGGAGATGCTGCAGATGGACCTGATCGACGCGGCAGGTGACA
 CTCGGGGCGCGAGGACGACGAGGAGGAGGAGGACGACGAGCTCGCTGCCAACGACCAGGAGTGGGGCC
 TCCCAAAGCGGAGTCCAACCAGGATCCGGCGCCTCGCAGCCAGGGCCAGGGCCCCGGGCACAGGCAGCGGA
 GACACCTACCGACCCAAGAGGCCTACCACGCTCAACCTTTCCCGCAGGTGCCGGGTCTCAGGACACGC
 TGAATAATAACTCTTTAGGCAAAAAGCACAGTTGGCAGGACCGTGTGTCTCGATCATCTCCCTCTGAA
 GACAGGAGAACAGACGCCTCCACATGAACACATCTGCCTGAGTGTGAGCTGCCACCCAGGGCAGTCTCT
 GTTCCACCCAGGACCGCGGCACTTCCACCGACAGCCCTTGTCCGCGAAGTGCAGCCACCCAGATGGCAC
 CTCCAAGCGGTCCCCCTGCCACTGCGCCTGGTGGCCGGGGCCACTCCCATCGAGACCGAATCCACTACCA
 GGCAGATGTGCGGCTCGAGGCGACTGAGGAGATCTACCTGACCCAGTGCAGAGGCCCCAGACCCTGCA
 GAACCCACCTCCACCTTCATGCCACCCAGGAGAGCCGGATGTCAGTTAGCTCCGATCCAGACCCTGCCG
 CTTACTCTGTAAGTGGGGGGCGGCCACACCCCTCCATCAGTGAAGAGGATGAGGGCTTCGACTGCCTGTC
 ATCCCCAGAGCGAGCTGAGCCACCAGGTGGAGGGTGGCGGGGAAGCCTCGGGGAGCCACCACCGCCTCCA
 CGGGCCTCACTGAGCTCGACACCAGCGCACTGTCTACGACTCGGTCAAGTACACACTGGTGGTGGATG
 AACATGCCAGCTTGGATTGGTGGAGCCTGCGGCCGTGCTTTGGAGATTACAGTGACGAAAGCGACTCTGC
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 GAAGATGAACTTGGAGTGGAAAGTGGATGACCCCTGCTGGTGGAGCTGCAGGCAGAAGACTATTGGTATG
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 GCCGGCTCACCGTGCACCTTAACCCGCCCTCCAGCTGTGCTCCTTGAGATCAGTGTGAGGGGTGTCAAGAT
 AGGCGTCAAAGCTGATGATGCTCTGGAGGCCAAGGGAAATAAATGTAGCCACTTCTTCCAGCTAAAGAAC
 ATCTCTTTCTGTGGATACCATCCAAAGAATAACAAGTACTTTGGGTTTATCACTAAGCACCTGTGACC
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 ATTTACAGCAGTTCTACAAGCAGTTTGTGGAGTATACCTGTCTACAGAAGATATCTACTTGGAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230924 representing NM_001202445
 Red=Cloning site Green=Tags(s)

MQLVLKMDSSPDNDSWLEDQWEHWLTHDISLEEFEDLSEITDECGISLQCKDTLSLRPPRAGLLSAGS
 SGSAGSRLQAEMLQMDLIDAAGDTPGAEDDEEEEDDELAQRPGVGPPEAKESNQDPAPRSQGGPGTGSG
 DTYRPKRPTTLNLFQVPRSQDTLNNNSLGGKHSWQDRVSRSSSPLKTGEQTPPHEHICLSDELPPQGSP
 VPTQDRGTSTDSPCRRAATQMAPPSPGPATAPGGRGHSHRDRIHYQADVRLATEEIIYLTPVQRPPDPA
 EPTSTFMPPTESRMSVSSDPDPAAYSVTAGRPHPSISEEDEGFDCLSSPERAEPGGGWRGSLGEP PPPP
 RASLSSDTSALSYDSVKYTLVVDEHAQLELVSLRPCFGDYSDSDSATVYDNCASASSPYESAIGEEYEE
 APQPRPTCLSEDSTPDEPDVHFSKKFLNVFMSGRSRSSSAESFGLFSCVINGEEHEQTHRAIFRFVPRH
 EDELELEVDDPLLVELQAEDYWEAYNMRTGARGVFPAYYAEVTKPEPHMAALAKNSDWIDQFRVKFLG
 SVQVPYHKGNVDLCAAMQKIATRRRLTVHFNPPSSCVLEISVRGVKIGVKADDALEAKGNKCSHFFQLKN
 ISFCGYHPKNNKYFGFITKHPADHRFACHVVFVSEDSTKALAESVGRAFQQFYKQFVEYTCPTEDIYLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

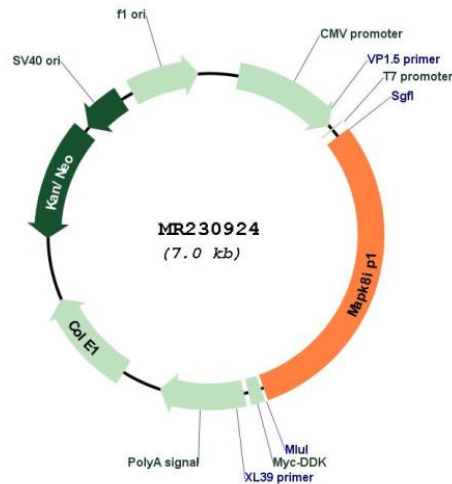
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001202445

ORF Size: 2094 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: [NM_001202445.1](#), [NP_001189374.1](#)

RefSeq Size: 3246 bp

RefSeq ORF: 2097 bp

Locus ID: 19099

Cytogenetics: 2 E1

MW: 77.5 kDa

Gene Summary: The JNK-interacting protein (JIP) group of scaffold proteins selectively mediates JNK signaling by aggregating specific components of the MAPK cascade to form a functional JNK signaling module. Required for JNK activation in response to excitotoxic stress. Cytoplasmic MAPK8IP1 causes inhibition of JNK-regulated activity by retaining JNK in the cytoplasm and thus inhibiting the JNK phosphorylation of c-Jun. May also participate in ApoER2-specific reelin signaling. Directly, or indirectly, regulates GLUT2 gene expression and beta-cell function. Appears to have a role in cell signaling in mature and developing nerve terminals. May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins. Functions as an anti-apoptotic protein and whose level seems to influence the beta-cell death or survival response (By similarity). Acts as a scaffold protein that coordinates with SH3RF1 in organizing different components of the JNK pathway, including RAC1 or RAC2, MAP3K11/MLK3 or MAP3K7/TAK1, MAP2K7/MKK7, MAPK8/JNK1 and/or MAPK9/JNK2 into a functional multiprotein complex to ensure the effective activation of the JNK signaling pathway. Regulates the activation of MAPK8/JNK1 and differentiation of CD8(+) T-cells (PubMed:23963642).[UniProtKB/Swiss-Prot Function]