

Product datasheet for **MC220692**

Mapk8ip1 (BC072578) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8ip1 (BC072578) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mapk8ip1
Synonyms:	JIP-1, IB1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC072578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAGCTGGTACTGAAGATGGATTCGAGCCCAGACAATGACAGCTGGTTGGAGGATCAGTGGGAGCACT
 GGCTCACCCATGACATCAGCCTGGAGGAGTTTGAGGATGAAGACCTTTCGGAGATCACTGACGAGTGTGG
 CATCAGCCTGCAGTGCAAAGACACCCTGTCTCTCCGGCCCCCGCGCGCCGGGCTGCTGTCTGCGGGTAGC
 AGCGGCAGCGCGGGGAGCCGGCTGCAGGCGGAGATGCTGCAGATGGACCTGATCGACGCGGCAGGTGACA
 TTCCGGGCGCCGAGGACGACGAGGAGGAGGAGGACGACGAGCTCGCTGCCAACGACCAGGAGTGGGGCC
 TCCCAAAGCGGAGTCCAACCAGGATCCGGCGCCTCGCAGCCAGGGCCAGGGCCCCGGGCACAGGCAGCGGA
 GACACCTACCGACCCAAGAGGCCTACCACGCTCAACCTTTCCCGCAGGTGCCGGGTCTCAGGACACGC
 TGAATAATAACTCTTTAGCAAAAAGCACAGTTGGCAGGACCGTGTGTCTCGATCATCTCCCCTCTGAA
 GACAGGAGAACAGACGCCTCCACATGAACACATCTGCCTGAGTGTGAGCTGCCACCCAGGGCAGTCTCT
 GTTCCACCCAGGACCGCGGCACCTTCCACCGACAGCCCTTGTCCGGAAGTGCAGCCACCCAGATGGCAC
 CTCCAAGCGGTCCCCCTGCCACTGCGCCTGGTGGCCGGGGCCACTCCCATCGAGACCGAATCCACTACCA
 GGCAGATGTGCGGCTCGAGGCGACTGAGGAGATCTACCTGACCCAGTGCAGAGGCCCCAGACCCTGCA
 GAACCCACCTCCACCTTCATGCCACCCAGGAGCCGGATGTCAGTTAGCTCCGATCCAGACCCTGCCG
 CTTACTCTGTAAGTGGGGGCGGCCACACCCCTCCATCAGTGAAGAGGATGAGGGCTTCGACTGCCTGTC
 ATCCCCAGAGCGAGCTGAGCCACAGGTGGAGGGTGGCGGGGAAGCCTCGGGGAGCCACCACCGCCTCCA
 CGGGCCTCACTGAGCTCGGACACCAGCGCACTGTCTACGACTCGGTCAAGTACACACTGGTGGTGGATG
 AACATGCCAGCTTGAGTTGGTGAAGCTGCGGCCGTGCTTTGGAGATTACAGTGACGAAAGCGACTCTGC
 CACTGTCTATGACAACTGTGCCTCTGCCTCCTCGCCCTACGAGTACGCCATTGGTGAGGAGTATGAGGAG
 GCCCCTCAGCCCCGCGCTCCACCTGCCTCTCAGAGGACTCCACCCGGATGAGCCTGATGTCCACTTCT
 CTAAGAAGTTTCTGAATGTCTTCATGAGTGGCCGCTCTCGTTCTCCAGTGTGAGTCTTTGGGCTGTT
 CTCCTGCGTCATCAATGGGGAGGAGCATGAGCAAACCCATCGGGCTATATTCAGGTTTGTGCCTCGGCAT
 GAAGATGAACTTGAGCTGGAAGTGGATGACCCCTGCTGGTGGAGCTGCAGGCAGAAGACTATTGGTATG
 AGGCCTATAACATGCGCACCGGAGCCCGCGGGGTCTTCCCTGCCTACTATGCCATTGAGGTACCAAAGGA
 GCCTGAGCACATGGCAGCCCTTGCCAAAACAGCGACTGGATTGACCAGTTCGGGTGAAGTTCTGGGG
 TCTGTCCAGTTCTTATCACAAGGGCAATGATGTCCTCTGTGCTGCTATGCAAAAGATCGCCACCACCC
 GCCGGCTCACCGTGCACCTTAACCCGCCCTCCAGCTGTGCTTGTGAGATCAGTGTGAGGGGTGTCAAGAT
 AGGCGTCAAAGCTGATGATGCTCTGGAGGCCAAGGGAAATAAATGTAGCCACTTCTTCCAGCTAAAGAAC
 ATCTCTTTCTGTGGATACCATCCAAAGAATAACAAGTACTTTGGGTTTATCACTAAGCACCTGTGACC
 ACCGGTTTGCCTGCCATGTCTTTGTGTCTGAAGATTCCACCAAAGCCCTGGCGGAGTCTGTGGGGCGTGC
 ATTTACAGCAGTTCTACAAGCAGTTTGTGGAGTATACCTGTCTACAGAAGATATCTACTTGGAGTAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC072578

Insert Size: 2097 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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>BC072578</u> , <u>AAH72578</u>
RefSeq Size:	3138 bp
RefSeq ORF:	2096 bp
Locus ID:	19099
Cytogenetics:	2 E1
Gene Summary:	<p>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]</p>