

## Product datasheet for **MC228637**

### Mapk8ip1 (NM\_001202446) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8ip1 (NM_001202446) Mouse Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >MC228637 representing NM\_001202446  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCACTGGTACTGAAGATGGATTCGAGCCAGACAATGACAGCTGGTTGGAGGATCAGTGGGAGCACT  
 GGCTCACCCATGACATCAGCCTGGAGGAGTTGAGGATGAAGACCTTTCGAGATCACTGACGAGTGTGG  
 CATCAGCCTGCAGTGCAAAGACACCCTGTCTCTCCGGATGGACCTGATCGACGCGCAGGTGACACTCCG  
 GGCGCCGAGGACGACGAGGAGGAGGAGGACGACGAGCTCGCTGCCAACGACCAGGAGTGGGGCCTCCCA  
 AAGCGGAGTCCAACCAGGATCCGGCGCCTCGCAGCCAGGCGCCAGGGCCCGGGCACAGGCAGCGGAGACAC  
 CTACCGACCCAAGAGGCCTACCACGCTCAACCTTTTCCCGCAGGTGCCGCGTCTCAGGACACGCTGAAT  
 AATAACTCTTTAGCAAAAAGCACAGTTGGCAGGACCGTGTGTCTCGATCATCTCCCCTCTGAAGACAG  
 GAGAACAGACGCCTCCACATGAACACATCTGCCTGAGTGTGAGCTGCCACCCAGGGCAGTCTGTTC  
 CACCCAGGACCGGGCACTTCCACCGACAGCCCTTGTCCGGAAGTGCAGCCACCCAGATGGCACCTCCA  
 AGCGGTCCCCCTGCCACTGCGCCTGGTGGCCGGGGCCACTCCCATCGAGACCGAATCCACTACCAGGCAG  
 ATGTGCGGCTCGAGGCGACTGAGGAGATCTACCTGACCCAGTGCAGAGGCCCCAGACCTGCAGAACC  
 CACCTCCACCTTCATGCCACCCACGGAGAGCCGGATGTGAGTTAGCTCCGATCCAGACCCCTGCCGTTAC  
 TCTGTAAGTGGGGGGCGCCACACCCCTCCATCAGTGAAGAGGATGAGGGCTTCGACTGCCTGTCATCCC  
 CAGAGCGAGCTGAGCCACCAGGTGGAGGGTGGCGGGGAAGCCTCGGGGAGCCACCACCGCCTCCACGGGC  
 CTCACTGAGCTCGGACACCAGCGCACTGTCTACGACTCGGTCAAGTACACACTGGTGGTGGATGAACAT  
 GCCCAGCTTGAGTTGGTGGCTGCGGCCGTGCTTTGGAGATTACAGTGACGAAAGCGACTCTGCCACTG  
 TCTATGACAACGTGCCCTGCTCCTCGCCCTACGAGTCAGCCATTGGTGGAGAGTATGAGGAGGCCCC  
 TCAGCCCCGGCCTCCACCTGCCTCTCAGAGGACTCCACCCGGATGAGCCTGATGCCACTTCTCTAAG  
 AAGTTTCTGAATGTCTTCATGAGTGGCCCTCTCGTTCCTCCAGTGTGAGTCTTTGGGCTGTTCTCCT  
 GCGTCATCAATGGGGAGGAGCATGAGCAAACCCATCGGGCTATATTCAGGTTTGTGCTCGGCATGAAGA  
 TGAAGTTGAGCTGGAAGTGGATGACCCCTGCTGGTGGAGCTGCAGGCAGAAGACTATTGGTATGAGGCC  
 TATAACATGCGCACCGGAGCCCGGGGTCTTCCCTGCCTACTATGCCATTGAGGTACCAAGGAGCCTG  
 AGCACATGGCAGCCCTTGCCAAAACAGCGACTGGATTGACCAGTTCGGGTGAAGTTCTGGGGTCTGT  
 CCAGTTCTTTATCACAAGGGCAATGATGCTCTGTGCTGCTATGCAAAGATCGCCACCACCCCGCGG  
 CTCACCGTGCACCTTAACCCGCCCTCCAGCTGTGCTCCTGAGATCAGTGTGAGGGGTGTCAAGATAGGCG  
 TCAAAGCTGATGATGCTCTGGAGCCAAGGAAATAAATGTAGCCACTTCTCCAGCTAAAGAACATCTC  
 TTTCTGTGGATACCATCAAAGAATAACAAGTACTTTGGGTTTACTAAGCACCTGTGACCACCGG  
 TTTGCCTGCCATGCTTTGTGTCTGAAGATTCCACCAAAGCCCTGGCGGAGTCTGTGGGGCGTGCAATTC  
 AGCAGTTCTACAAGCAGTTTGTGGAGTATACCTGTCTACAGAAGATATCTACTTGGAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001202446

**Insert Size:** 2022 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).

**OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001202446.1, NP_001189375.1</u>
<b>RefSeq Size:</b>	3171 bp
<b>RefSeq ORF:</b>	2022 bp
<b>Locus ID:</b>	19099
<b>Cytogenetics:</b>	2 E1
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus and lacks an alternate internal segment compared to isoform 1.</p>