

Product datasheet for **MR226852**

Mapk8ip1 (NM_011162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8ip1 (NM_011162) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk8ip1
Synonyms:	IB1; JIP-1; Jip1; mjip-2a; Prkm8ip; Skip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226852 representing NM_011162
 Red=Cloning site Blue=ORF Green=Tags(s)

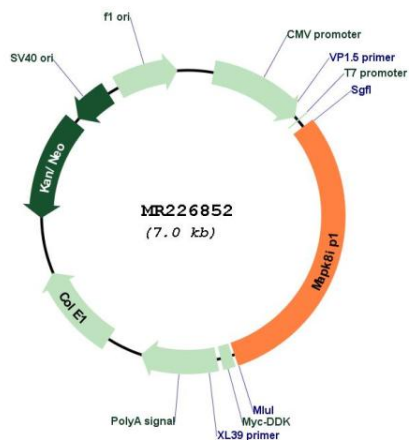
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCGAGAGAGCGGCCCTGGGCGGGGGCGCCGCTCCCCACGGCCGCTTCCCCATTCTGGGAC
 TGCACATCGCGTCGCCTCCCAATTTAGGCTCACCCATGACATCAGCCTGGAGGAGTTTGAGGATGAAGA
 CCTTTCGGAGATCACTGACGAGTGTGGCATCAGCCTGCAGTGCAAAGACACCCTGTCTCTCCGGCCCCG
 CGCGCCGGGTGCTGTCTGCGGGTAGCAGCGGCAGCGCGGGGAGCCGGCTGCAGGCGGAGATGCTGCAGA
 TGGACCTGATCGACGCGGAGGTGACACTCCGGGCGCCGAGGACGACGAGGAGGAGGAGGACGACGAGCT
 CGCTGCCAACGACCAGGAGTGGGGCTCCAAAGCGGAGTCCAACCAGGATCCGGCGCTCGCAGCCAG
 GGCCAGGGCCCGGCACAGGCAGCGGAGACACCTACCGACCCAAGAGGCCACCACGCTCAACCTTTTCC
 CGCAGGTGCCGGTCTCAGGACAGCTGAATAATAACTTTTAGGCAAAAAGCACAGTTGGCAGGACCG
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 GCCGAAGTGCAGCCACCCAGATGGCACCTCCAAGCGGTCCCCCTGCCACTGCGCCTGGTGCCGGGGCCA
 CTCCCATCGAGACCGAATCCACTACCAGGCAGATGTGCGGCTCGAGGCGACTGAGGAGATCTACCTGACC
 CCAGTGCAGAGGCCCCAGACCTGCAGAACCCACCTCCACCTTCATGCCACCCACGGAGAGCCGGATGT
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 AGAGGATGAGGGCTTTCGACTGCCTGTATCCCCAGAGCGAGCTGAGCCACCAGGTGGAGGGTGGCGGGGA
 AGCCTCGGGGAGCCACCACCGCTCCACGGGCTCACTGAGCTCGGACACCAGCGCACTGTCTACGACT
 CGGTACAGTACACACTGGTGGTGGATGAACATGCCAGCTTGGATTGGTGAGCCTGCGGCGGTCTTTGG
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 TCAGCCATTGGTGAGGAGTATGAGGAGGCCCTCAGCCCGGCCTCCACCTGCCTCTCAGAGGACTCCA
 CCCCAGATGAGCCTGATGTCACCTTCTCTAAGAAGTTTCTGAATGTCTTCATGAGTGCCGCTCTCGTTC
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 GCTATATTCAGGTTTGTGCCTCGGCATGAAGATGAACTTGAAGTGGAGTGGATGACCCCTGCTGGTGG
 AGCTGCAGGCAGAAGACTATTGGTATGAGGCCTATAACATGCGCACCGGAGCCCGGGGTCTTCCCTGC
 TACTATGCCATTGAGGTCACCAAGGAGCCTGAGCACATGGCAGCCCTTGCCAAAACAGCGACTGGATT
 GACCAGTCCGGGTGAAGTTCCTGGGTCTGTCCAGTTCCTTATCACAAGGGCAATGATGTCCTCTGTG
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 TGAGATCAGTGTGAGGGGTGTAAGATAGGCGTCAAAGCTGATGATGCTCTGGAGCCAAGGAAATAAA
 TGTAGCCACTTCTCCAGCTAAAGAATCTCTTTCTGTGGATACCATCCAAAGAATAACAAGTACTTTG
 GGTTTATCACTAAGCACCTGCTGACCACCGTTTGCCTGCCATGCTTTGTGTCTGAAGATCCACCAA
 AGCCCTGGCGGAGTCTGTGGGCGTGCATTTACAGCAGTTCTACAAGCAGTTTGTGGAGTATACCTGTCT
 ACAGAAGATATCTACTTGGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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>NM_011162.5</u> , <u>NP_035292.2</u>
RefSeq Size:	2954 bp
RefSeq ORF:	2124 bp
Locus ID:	19099
UniProt ID:	<u>Q9WVI9</u>
Cytogenetics:	2 E1
MW:	77.3 kDa
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>

Product images:



Circular map for MR226852