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Product datasheet for MC220748

Mapk8ip1 (NM_011162) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8ip1 (NM_011162) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>MC220748 representing NM_011162
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCGAGAGAGCGGCCTGGGCGGGGGCGCCGCGTCCCCACCGGCCGCTTCCCCATTCCTGGGAC
TGCACATCGCGTCGCCTCCCAATTTCAGGCTCACCCATGACATCAGCCTGGAGGAGTTTGAGGATGAAGA
CCTTTCGGAGATCACTGACGAGTGTGGCATCAGCCTGCAGTGCAAAGACACCCTGTCTCTCCGGCCCCCG
CGCGCCGGGCTGCTGTCTGCGGGTAGCAGCGGCAGCGCGGGGAGCCGGCTGCAGGCGGAGATGCTGCAGA
TGGACCTGATCGACGCGGCAGGTGACACTCCGGGCGCCGAGGACGACGAGGAGGAGGAGGACGACGAGCT
CGCTGCCCAACGACCAGGAGTGGGGCCTCCCAAAGCGGAGTCCAACCAGGATCCGGCGCCTCGCAGCCAG
GGCCAGGGCCCGGGCACAGGCAGCGGAGACACCTACCGACCCAAGAGGCCTACCACGCTCAACCTTTTCC
CGCAGGTGCCGCGGTCTCAGGACACGCTGAATAATAACTCTTTAGGCAAAAAGCACAGTTGGCAGGACCG
TGTGTCTCGATCATCCTCCCCTCTGAAGACAGGAGAACAGACGCCTCCACATGAACACATCTGCCTGAGT
GATGAGCTGCCACCCCAGGGCAGTCCTGTTCCCACCCAGGACCGCGGCACTTCCACCGACAGCCCTTGTC
GCCGAAGTGCAGCCACCCAGATGGCACCTCCAAGCGGTCCCCCTGCCACTGCGCCTGGTGGCCGGGGCCA
CTCCCATCGAGACCGAATCCACTACCAGGCAGATGTGCGGCTCGAGGCGACTGAGGAGATCTACCTGACC
CCAGTGCAGAGGCCCCCAGACCCTGCAGAACCCACCTCCACCTTCATGCCACCCACGGAGAGCCGGATGT
CAGTTAGCTCCGATCCAGACCCTGCCGCTTACTCTGTAACTGCGGGGCGGCCACACCCCTCCATCAGTGA
AGAGGATGAGGGCTTCGACTGCCTGTCATCCCCAGAGCGAGCTGAGCCACCAGGTGGAGGGTGGCGGGGA
AGCCTCGGGGAGCCACCACCGCCTCCACGGGCCTCACTGAGCTCGGACACCAGCGCACTGTCCTACGACT
CGGTCAAGTACACACTGGTGGTGGATGAACATGCCCAGCTTGAGTTGGTGAGCCTGCGGCCGTGCTTTGG
AGATTACAGTGACGAAAGCGACTCTGCCACTGTCTATGACAACTGTGCCTCTGCCTCCTCGCCCTACGAG
TCAGCCATTGGTGAGGAGTATGAGGAGGCCCCTCAGCCCCGGCCTCCCACCTGCCTCTCAGAGGACTCCA
CCCCGGATGAGCCTGATGTCCACTTCTCTAAGAAGTTTCTGAATGTCTTCATGAGTGGCCGCTCTCGTTC
CTCCAGTGCTGAGTCCTTTGGGCTGTTCTCCTGCGTCATCAATGGGGAGGAGCATGAGCAAACCCATCGG
GCTATATTCAGGTTTGTGCCTCGGCATGAAGATGAACTTGAGCTGGAAGTGGATGACCCCCTGCTGGTGG
AGCTGCAGGCAGAAGACTATTGGTATGAGGCCTATAACATGCGCACCGGAGCCCGCGGGGTCTTCCCTGC
CTACTATGCCATTGAGGTCACCAAGGAGCCTGAGCACATGGCAGCCCTTGCCAAAAACAGCGACTGGATT
GACCAGTTCCGGGTGAAGTTCCTGGGGTCTGTCCAGGTTCCTTATCACAAGGGCAATGATGTCCTCTGTG
CTGCTATGCAAAAGATCGCCACCACCCGCCGGCTCACCGTGCACTTTAACCCGCCCTCCAGCTGTGTCCT
TGAGATCAGTGTCAGGGGTGTCAAGATAGGCGTCAAAGCTGATGATGCTCTGGAGGCCAAGGGAAATAAA
TGTAGCCACTTCTTCCAGCTAAAGAACATCTCTTTCTGTGGATACCATCCAAAGAATAACAAGTACTTTG
GGTTTATCACTAAGCACCCTGCTGACCACCGGTTTGCCTGCCATGTCTTTGTGTCTGAAGATTCCACCAA
AGCCCTGGCGGAGTCTGTGGGGCGTGCATTTCAGCAGTTCTACAAGCAGTTTGTGGAGTATACCTGTCCT
ACAGAAGATATCTACTTGGAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011162

Insert Size: 2124 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:	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_011162.5, NP_035292.2
RefSeq Size:	2954 bp
RefSeq ORF:	2124 bp
Locus ID:	19099
UniProt ID:	Q9WVI9
Cytogenetics:	2 E1
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] Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.