

Product datasheet for **MG226852**

Mapk8ip1 (NM_011162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8ip1 (NM_011162) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mapk8ip1
Synonyms:	IB1; JIP-1; Jip1; mjip-2a; Prkm8ip; Skip
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG226852 representing NM_011162
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGAGCGAGAGAGCGGCCTGGGCGGGGCGCCGCTCCCCACGGCCGCTTCCCCATTCTGGGAC
TGCACATCGCGTCGCCTCCAATTTAGGCTCACCCATGACATCAGCCTGGAGGAGTTTGGAGATGAAGA
CCTTTTCGGAGATCACTGACGAGTGTGGCATCAGCCTGCAGTGCAAAGACACCCTGTCTCTCCGGCCCCG
CGCGCCGGGTGCTGTCTGCGGGTAGCAGCGGCAGCGCGGGGAGCCGGCTGCAGGCGGAGATGCTGCAGA
TGGACCTGATCGACGCGGAGGTGACACTCCGGGCGCCGAGGACGACGAGGAGGAGGAGGACGACGAGCT
CGCTGCCAACGACCAGGAGTGGGGCTCCAAAGCGGAGTCCAACCAGGATCCGGCGCTCGCAGCCAG
GGCCAGGGCCCGGCACAGGCAGCGGAGACACCTACCGACCCAAGAGGCCACCACGCTCAACCTTTTCC
CGCAGGTGCCCGGTCTCAGGACAGCTGAATAATAACTTTTAGGCAAAAAGCACAGTTGGCAGGACCG
TGTGTCTCGATCATCCTCCCTCTGAAGACAGGAGAACAGACGCCTCCACATGAACACATCTGCCTGAGT
GATGAGCTGCCACCCAGGGCAGTCCTGTTCCACCCAGGACCGCGGCACCTCCACCGACAGCCCTTGT
GCCGAAGTGCAGCCACCCAGATGGCACCTCCAAGCGGTCCCCCTGCCACTGCGCCTGGTGCCGGGGCCA
CTCCCATCGAGACCGAATCCACTACCAGGCAGATGTGCGGCTCGAGGCGACTGAGGAGATCTACCTGACC
CCAGTGCAGAGGCCCCAGACCTGCAGAACCCACCTCCACCTTCATGCCACCCACGGAGAGCCGGATGT
CAGTTAGCTCCGATCCAGACCTGCCGTTACTCTGTAAGTGGGGGCGGCCACACCCCTCCATCAGTGA
AGAGGATGAGGGCTTCGACTGCCTGTATCCCCAGAGCGAGCTGAGCCACCAGGTGGAGGGTGGCGGGGA
AGCCTCGGGGAGCCACCACCGCTCCACGGGCTCACTGAGCTCGGACACCAGCGCACTGTCTACGACT
CGGTCAAGTACACACTGGTGGTGGATGAACATGCCAGCTTGGATTGGTGGAGCCTGGCGCGTGTCTTGG
AGATTACAGTGACGAAAGCGACTCTGCCACTGTCTATGACAACTGTGCCTCTGCCTCCTCGCCCTACGAG
TCAGCCATTGGTGGAGGATATGAGGAGGCCCTCAGCCCGGCCTCCACCTGCCTCTCAGAGGACTCCA
CCCCGGATGAGCCTGATGTCACCTTCTCTAAGAAGTTTCTGAATGTCTTCATGAGTGCCGCTCTCGTTC
CTCCAGTGTGAGTCCTTTGGGCTGTTCTCCTGCGTCATCAATGGGGAGGAGCATGAGCAAACCCATCGG
GCTATATTCAGGTTTGTGCCTCGGCATGAAGATGAACTTGGAGTGGAGTGGATGACCCCTGCTGGTGG
AGCTGCAGGCAGAAGACTATTGGTATGAGGCCTATAACATGCGCACCGGAGCCCGGGGTCTTCCCTGC
CTACTATGCCATTGAGGTCACCAAGGAGCCTGAGCACATGGCAGCCCTTGCCAAAACAGCGACTGGATT
GACCAGTTCGGGTGAAGTTCCTGGGTCTGTCCAGTTCCTTATCACAAGGGCAATGATGTCCTCTGTG
CTGCTATGCAAAAAGATCGCCACCACCGCGGCTCACCGTGCACCTTAACCCGCCCTCCAGCTGTGCTCT
TGAGATCAGTGTGAGGGTGTCAAGATAGGCGTCAAAGCTGATGATGCTCTGGAGCCAAGGAAATAAA
TGTAGCCACTTCTCCAGCTAAAGAATCTCTTTCTGTGGATACCATCCAAAGAATAACAAGTACTTTG
GGTTTATCACTAAGCACCTGCTGACCACCGTTTGCCTGCCATGCTTTGTGTCTGAAGATCCACCAA
AGCCCTGGCGGAGTCTGTGGGCGTGCATTTACAGCAGTTCTACAAGCAGTTTGTGGAGTATACCTGTCT
ACAGAAGATATCTACTTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226852 representing NM_011162
 Red=Cloning site Green=Tags(s)

MAERESGLGGGAASPPAASPFLGLHIASPPNFRLTHDISLEEFEDLSEITDECGISLQCKDTLSLRPP
 RAGLLSAGSSGSAGSRLQAEMLQMDLIDAAGDTPGAEDDEEEDDELAQRPVGVPPKAESNQDPAPRSQ
 GQGPGTSGSDTYRPKRPTTLNLFQVPRSQDTLNNNSLGKKHSWQDRVSRSSSPLKTEQTPPHEHICLS
 DELPPQGSVPVPTQDRGTSTDSPCRRSAATQMAPPSPGPPATAPGGRGHSHRDRIHYQADVRLEATEEYILT
 PVQRPPDPAEPTSTFMPPTESRMSVSSDPDPAAYSVTAGRPHPSISEEDEGFDCLSSPERAEPGGGWRG
 SLGEPPPPRASSLSDTSALSYDSVKYTLVVDEHAQLELVSLRPCFGDYSDSDSATVYDNCASASSPYE
 SAIGEEYEEAPQRPPTCLSEDSTPDEPDVHFSKKFLNVFMSGRSRSSSAESFGLFSCVINGEEHEQTHR
 AIFRFVPRHEDELELVDDPLLVELQAEDYWYEA YNMRTGARGVFPAYYAIEVTKEPEHMAALAKNSDWI
 DQFRVKFLGSVQVPYHKNDVLCAMQKIATRRLTVHFNPPSSCVLEISVRGVKIGVKADDALEAKGNK
 CSHFFQLKNISFCGYHPKNNKYFGFITKHPADHRFACHVFVSEDSTKALAESVGRAFAQFYKQFVEYTC
 TEDIYLE

TRTRPLE - GFP Tag - V

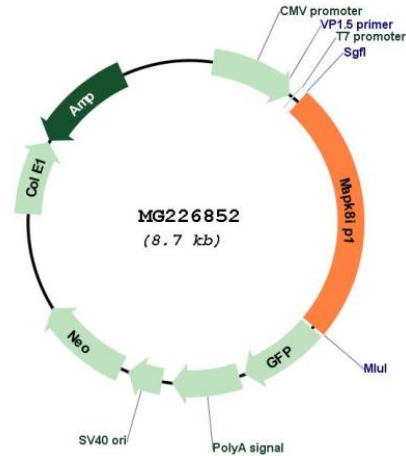
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_011162

ORF Size: 2121 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_011162.5](#), [NP_035292.2](#)

RefSeq Size: 2930 bp

RefSeq ORF: 2124 bp

Locus ID: 19099

UniProt ID: [Q9WV19](#)

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]