

Product datasheet for RN213400

Mapk8ip3 (NM_001100673) Rat Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Mapk8ip3 (NM_001100673) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Mapk8ip3 |
| Synonyms: | JIP3; JSAP1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| Fully Sequenced ORF: | >RN213400 representing NM_001100673 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGGAGATCCAGATGGACGAGGGAGGCGGTGTGGTGGTGTACCAAGATGACTACTGCTCCGGCTCGG
TGATGTCCGAGCGTGTGTCCGGCCTGGCGGGCTCCATCTACCGCAGTTCGAGCGCCTCATTCACTGCTA
TGATGAGGAGGTGGTCAAGGAGCTCATGCCGCTGGTGGTGAACGTGCTGGAGAACCTTGACTCGGTGCTG
AGCGGAGAACCAGGAGCACGAGGTGGAGCTGGAGCTCCTACGCGAGGACAACGAGCAGCTGCTCACGCAAT
ACGAGCGCGAGAAGGCGCTGCGCAAACAGGCCGAGGAGAAATTCATCGAATTTGAAGATGCCTTGGAACA
AGAGAAGAAAGAACTCCAGATCCAGGTAGAACATTATGAGTTTCAGACACGCCAGCTGGAGCTAAAGGCC
AAAAACTATGCAGATCAGATTTCCCGACTGGAGGAGCGGGAGTCGGAGATGAAGAAGGAATACAACGCGC
TGCACCAGCGGCACACGGAGATGATCCAGACCTATGTGGAACACATCGAAAGATCGAAGATGCAGCAGGT
TGGGGGAGGCGGCCAAACAGAAAGCAGCCTGCCCGGGCGAGCAGGAAGGAGCGTCCCACCTCTCTGAAT
GTCTTCCCTGGCTGATGGAATGGTACGTGCACAGATGGGGGCAAGCTCGTGCCTCGGGGGACCCT
GGCACCTGAGTGACCTCGGCCAACTACAGTCCAGTCCAGTACCAGTGTCCAAACGATGAGATGTCTGA
GTCAGGCCAGTCTCAGCAGCTGCAACACCCAGTACCACAGGTACCAAATCCAACACACCCACATCCTCC
GTGCCCTCAGCAGCTGTACACCACTCAACGAGAGCCTACAGCCCTGGGGGACTATGGCAGTGTACAA
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GAACGTGAGTATTGGTATGGGTAGCAGTACGAGTGGTCCGATGTTCCAGGACATTATCGACTCCACCCCA
GAGCTGGATGTGTGCCGAAACCCGTCTGACCACAGGAAGCAGCCAAACCCAGGGGATCGTAAACA
AAGCTTTTGAATCAACACCGATTCCCTGTACCATGAATATCTACAGCGGGTCTGAGGTGATCGGGGA
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ACCAACTGTGAGGAGAGCAGGAGTACTGAAGGTGAATTGGAAGCAGCCAAGCAAGCCAAGTCAAGCT
GGAGAACCGAATCAAAGAGCTTGAAGAAGAACTAAAAAGAGTCAAGTCAAGGAGCAGTAACCGCCCGCGT
GAGCCAGAGAAGAGGTGGAGGATGACAAAATCCCATGGCCCAACGCCGACGCTTACAAGAGTGGAGA



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TGGCCCGAGTGCTCATGGAACGTAACCAAGTACAAGGAACGCCTCATGGAGCTGCAGGAGGCTGTGCGGTG
 GACTGAAATGATCAGAGCATCCAGGGAACCCATCTGTCCAGGAAAAGAAGAAATCCACTATCTGGCAG
 TTCTTTAGCCGCTCTTCAGCTCCTCATCCAGCCCCCTCCGGCCAAACGGTCTACCCGCTGTGAAACA
 TTCCTACAAGTACCCACTACAGCTGGCTTTAGCCAGCGTCGCAACCATGCTTTGTGCCAGATCTCAGC
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 ACTGACCCAGCACCCACCAATCCTCCAGCACCCAGCCTGCCAGTGAAGTGGGTGAGAGTCGGATGGCA
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 GTGGCTAGGAGCCAGAATGGCTGGCTCTATGTGCACTCAGCGGTAGCCAACCTGGAAGAAGTGTCTGCAC
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 ATGGAACCCCTGGTATCTTCCATCGTGGAGAGGATGGCCAGTGGGACCTGAGCAACTACCACCTAATGGA
 CCTGGGCCACCCACCCACTCCATCCGCTGCATGGCTGTTGTGGATGACCGAGTTTGGTGTGGCTACAAG
 AACAGGTGCATGTCATCCAGCCCAAGACAATGCAAAATTGAGAAATCATTGATGCCACCCACGGCGGG
 AAAGCCAGGTACGACAGCTAGCCTGGATCGGTGATGGAGTATGGGTCTCTATTGCTTGGATTCTACACT
 TCGGCTGTACCACGCTCACACGCACCAGCACCTGCAGGATGTGGACATTGAGCCCTATGTTAGCAAGATG
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 GGGTGGGCACTGGCAATGGGTTGTCTCCATCCCCTGACTGAGACTGTGGTCTGCATCGAGGCCA
 GCTCTTAGGTCTCCGAGCCAACAAGACATCCCCAAGTCTGGGGAGGGGACCCGCCAGGGGGCATCATC
 CATGTGTATGGGATGACAGCAGTGACAAGACTGCCAGTGTTCATCCCCAAGTCTCCATGGCCAGG
 CTCAGCTCTGCTCCACGGGCACCGTGTGCTGTCAAATCTTTGTCTGTACCAGGAAATGTGCTGGC
 CAGCTCAATGGCAGTGTGCTAGACAGCCATCAGAGGGCCCTGGGCCTGCTGCACCTGCTGCAGATGCT
 GAGGGCCAGAAGTTGAAGAATGCACTGGTGTGAGTGGTGGTGAAGGTTACATTGACTTCCGCATCGGGG
 ATGGAGAGGATGATGAACTGAGGAAGGTACCGGGGATGTGAACCAGACGAAGCCCTCGTTGTCCAAGGC
 TGAGCGCAGCCACATCATCGTGTGGCAGGTGTCCTACACCCTGAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001100673
- Insert Size:** 3969 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_001100673.1](#), [NP_001094143.1](#)

RefSeq Size: 3969 bp

RefSeq ORF: 3969 bp

Locus ID: 302983

UniProt ID: [E9PSK7](#)

Cytogenetics: 10q12

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. May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins (By similarity). Promotes neuronal axon elongation in a kinesin- and JNK-dependent manner. Activates cofilin at axon tips via local activation of JNK, thereby regulating filopodial dynamics and enhancing axon elongation. Its binding to kinesin heavy chains (KHC), promotes kinesin-1 motility along microtubules and is essential for axon elongation and regeneration. Regulates cortical neuronal migration by mediating NTRK2/TRKB anterograde axonal transport during brain development. Acts as an adapter that bridges the interaction between NTRK2/TRKB and KLC1 and drives NTRK2/TRKB axonal but not dendritic anterograde transport, which is essential for subsequent BDNF-triggered signaling and filopodia formation.[UniProtKB/Swiss-Prot Function]