

Product datasheet for MR211916

Mapk8ip3 (NM_001163449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mapk8ip3 (NM_001163449) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mapk8ip3
Synonyms:	BB120594; D17Wsu15e; JIP-3; Jip3; JSAP1; JSAP1a; JSAP1b; JSAP1c; JSAP1d; mKIAA1066; Syd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211916 representing NM_001163449 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGAGATCCAGATGGACGAGGGAGGAGGTGGTGGTGTACCAAGACGACTACTGCTCGGGCTCGG
TCATGTGCGGAGCGTGTGTCGGGCTGGCGGGCTCCATCTACCGGAGTTCGAGCGCCTATTCACTGCTA
TGACGAGGAGGTGGTCAAGGAGCTCATGCCCTGGTGGTGAACGTGCTGGAGAACCTTGACTCGGTGCTG
AGCGAGAACCAGGAGCACGAGGTGGAGCTGGAGCTCCTACGCGAGGACAACGAGCAGCTGCTCACGCAAT
ACGAGCGCGAGAAGGCGCTGCGCAAACAGGCCGAGGAGAAATTCATCGAATTTGAAGATGCCTTGAACA
AGAGAAGAAAGAACTCCAGATCCAGGTAGAACATTATGAGTTTCAGACACGCCAGCTGGAGCTAAAGGCC
AAAACTATGCAGATCAGATTTCCCGACTGGAGGAACGAGAATCGGAGATGAAGAAGGAATACAATGCC
TGCACCAGCGGCACACAGAGATGATCCAGACCTATGTGGAACACATTGAAAGATCCAAGATGCAGCAAGT
TGGGGGTAGCGGCCAAACAGAAAGCAGCCTGCCCGGGCGGAGTCTCGCCAGTCGTGGAGGAAAAGCAGG
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AGTCAGGCCAGTCCCTCAGCAGCTGCAACACCCAGTACCACAGGTACCAAGTCCAACACACCCACGTCCTC
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GACAAAATCCCCATGGCCCAGCGCCGACGCTTCACACGGGTGGAGATGGCCCCGAGTGCTCATGGAACGCA
ACCAGTACAAGGAACGCCTCATGGAGCTGCAGGAGGCTGTGAGGTGGACTGAAATGATCAGAGCATCAAG
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CTGGTGTGAGTGGTGGTGAAGTTACATTGACTTCCGTATCGGAGACGGAGAGGATGATGAAACTGAGG
AATGTGCCGGGACGTGAACCAGACAAAGCCCTCGTTGTCCAAGGCTGAGCGCAGCCACATCATCGTGTG
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Protein Sequence: >MR211916 representing NM_001163449
Red=Cloning site Green=Tags(s)

MMEIQMDEGGGVVYQDDYCSGSVMSERVSLAGSIYREFERLIHCYDEEVVKELMPLVVNVLENLDSVL
 SENQEHEVELELLREDNEQLLTQYEREKALRKQAEKFI EFEDALEQEKELQIQVEHYEFQTRQLELKA
 KNYADQISRLEERESEMKEYNALHQRHTEMIQTYVEHIERSKMQQVGGSGQTESSLPGRSPRQSWRKS
 KERPTSLNVFPLADGMCPNDEMSESGQSSAAATPSTTGTKSNTPTSSVPSAAVTPLNESLQPLGDYVSV
 KNNKQAREKRNSRNMEVQVTQEMRNVSIGMSSDEWSDVQDIIDSTPELDVCPETRLERTGSSPTQGIVN
 KAFGINTDSL YHELSTAGSEVIGDVDEGADLLGEF SVRDDFFGMGKEVGNLLLENSQLLETKNALNVVKN
 DLIAKVDQLSGEQEVKGELEAAKQAKVLENRIKELEELKRVKSEAVTARREPREEVEDVSSYLCTEL
 DKIPMAQRRFTRVEMARVLMERNQYKERLMELQEA VRWTE MIRASREHPSVQEKKSTIWQFFSRLFSS
 SSSPPPAKRSYPSVNIHYKSPTAAGFSQRRSHALCQISAGSRPLEFFPDDDCSSARREQKREYRQVRE
 HVRNDDGRLQACGWSLPAKYQLSPNGGQEDTRMKNVPVYCRPLVEKDPSTKLWCAAGVNL SGWKPHE
 EDSSNGPKVPVGRDPLTCDREGEPEKSTHPSPEKKKAKETPEADATSSRVWILTSTLTTSKVVIIDANQ
 PGTIVDQFTVCNAHVLCISSIPAASDSDYPPGEMFLDSDVNPEDSGADGVLGAGITLVGCATRCNVPRSN
 SSRGDTPLVDKGGQDVATTANGKVNPSQSTEEATEATEVPDPGPSESEATTVRPGPLTEHVFTDPAPT
 SSTQPASENGSENGTIVQPQVEPSGELSTTTSSAAPT MWLGAQNGWLYVHSAVANWKKCLHSIKLKDSV
 LSLVHVKGRVLVALADGTLAIFHRGEDGQWDL SNYHMLDLGHPHHSIRCMVAVNDRVWCGYKKNVHV
 IQPKTMQIEKSFDAHPRRESQVRQLAWIGDGVVSI RLDSTLRLYHAHHTHQLQDVIDIEPVYSKMLGT
 GKLGF SFVRITALLIAGNRLWVGTGNGVVISIPLTETVVLHRGQLLGLRANKTSPTSGEGTRPGGI
 IHVYGDSSDKAASSFIPYCSMAQAQLCFHGHRDAVKFFVSPGNV LNLNGSVLDSPSEGPAA
 ADAEGQKLKNA LVLSGGEGYIDFRIGDGEDDETEECAGDVNQT KPSLSKAERSHII VWQVSYTPE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

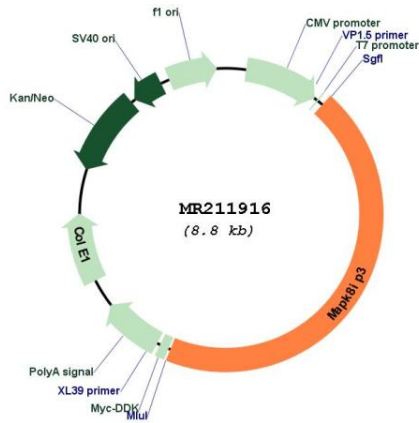


ACCN: NM_001163449

ORF Size: 3942 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:	<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:	NM_001163449.1 , NP_001156921.1
RefSeq Size:	5510 bp
RefSeq ORF:	3945 bp
Locus ID:	30957
UniProt ID:	Q9ESN9
Cytogenetics:	17 12.53 cM
MW:	145.7 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. May function as a regulator of vesicle transport, through interactions with the JNK-signaling components and motor proteins (PubMed:10523642, PubMed:10629060). Promotes neuronal axon elongation in a kinesin- and JNK-dependent manner (PubMed:23576431, PubMed:25944905, PubMed:28259553). Activates cofilin at axon tips via local activation of JNK, thereby regulating filopodial dynamics and enhancing axon elongation (PubMed:23576431, PubMed:25944905, PubMed:28259553). Its binding to kinesin heavy chains (KHC), promotes kinesin-1 motility along microtubules and is essential for axon elongation and regeneration (PubMed:23576431, PubMed:25944905, PubMed:28259553). Regulates cortical neuronal migration by mediating NTRK2/TRKB anterograde axonal transport during brain development (PubMed:23576431, PubMed:25944905, PubMed:28259553). 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 (PubMed:23576431, PubMed:25944905, PubMed:28259553).[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR211916