

## Product datasheet for **SC304420**

### JIP2 (MAPK8IP2) (NM\_016431) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JIP2 (MAPK8IP2) (NM_016431) Human Untagged Clone
Tag:	Tag Free
Symbol:	MAPK8IP2
Synonyms:	IB2; JIP2; PRKM8IPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



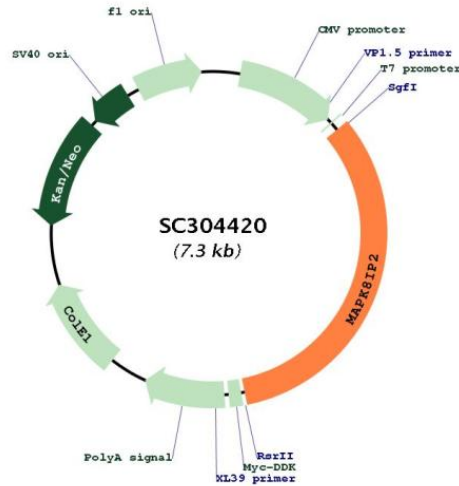
[View online »](#)

Fully Sequenced ORF: >SC304420 representing NM\_016431.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTCCCCGATTTCCCTTCTCCTAGCACCTGGGCCCTGGGCTACTGCTGCCCTCTGGCCAGCCCTG
CTATCTCCCTCCGTCTGCAGGACAGCCTCTCCCTGGGGCGCTCGGAGCAGCCGCACCCCATCTGTCTCC
TTCCAGGATGACTTCCAGGAGTTTGAGATGATCGATGACAATGAAGAGGAGGACGATGAGGACGAGGAA
GAGGAGGAGGAGGAGGAGGAGGGAGATGGGAAGGCCAGGAGGGAGGAGACCCTGGCTCAGAGGCACCT
GCCCCCGGCCCTTATCCCTCCCTTCCGTGGAGGAGCCCAAGCACCGGCCACCACCTCCGT
CTGACCACACTGGGGGCCAGGACTCCCTAAACAACAACGGAGGCTTTGACCTGGTGCCTCCGGCTCC
TGGCAGGAGACAGCGCTATGCTCACCCGCCCGGAGGCCCTCAGAGAGCTCCCGGCCCTCCCTGCC
ACGGACACCGGGCCGGCGGGGCGCAGTCGCCAGTGCCTCCGGTTGCGACTGCGAAGGGAACCGGCT
GCGGAACCCCTGCGCCAGGGGGACTTCGCCCTCCTCAGATCCCGGCATCGAGGCTGACCTGAGAAGC
CGCTCAGCGGGCGCCGCGGGGAGCTCGCAGCAGCCAGGAGCTGCTCCTCGCCCGCTCCGACTCGGAG
GACGCGGGCGGCCGCGCCCTGGGGCGCATGATCTCGTCCATCTCGGAGACGGAGCTGGAGCTGAGCAGC
GATGGCGGAAGCAGCAGCAGCGCCGCTCCTCGCACCTACCAACTCCATCGAGGAGGCCTCGTCCGCC
GCCTCGGAGCCGGAGCCCCCGCGCAACCCCGCGCCGCCCGCCCTTCTGCCCGTGGGCCCCGACGAC
ACCAACAGCGAGTACGAGTCGGGGTTCGGAGTCGGAGCCGACCTCAGCGAGGACGCGGACTCGCCCTGG
CTGCTCAGCAACCTGGTGGAGCCGATGATCTCCGAGGGCTCCTCGCCATCCGCTGCCCGGCCAGTGC
CTGTCTCCTGCGCCGCGCCCGCCGGGGAGCCGTGTGCGCGCCGGCGGGGCGCCAGGACTCCAG
CACCCCGAGGCGCCGCGGGGCGCGCGCTGGAGCTGGTGGACATGGAGACGCTGTGCGCGCCGCCG
CGGCCGCGCCCGCCGCGCTCGACCCGCGCCCGCCGAGCCCGGGCCCTGCCTATTCTCAGCAACCC
ACGCGTGACACCATCACGCGCTGTGGGCGCGCCCGCCGCGCCCGCCCGGACGAGCTGCTCC
GCCGCTGCTCCGAGGAGGAGGACGAAGAGGACGACGAGGAAGAGGAGGATGCCGAGGACGTGCGGGG
TCCCCCGGGGACAGGGCACGGGCCCTCGGCGCCGCGGACGCGTCTGCTGGTGTACGACGCGGTCAAG
TACACGCTGGTGGTGGATGAGCACACGAGCTGGAGCTGGTGGAGCTGCGGCGCTGTGCTGGGCTGGGC
CACGACAGCGAAGAGGACAGCGCGGGGAGGCCAGCGAGGAGGAGGGCGCGGCGCTGTAGGCGGC
GGTCAGGTCTCGGGGACACCTCGCCGGACAGCCCTGACCTCACTTTCTCAAGAAGTTCCTCAATGTC
TTCGTCAACAGCACATCTCGTCTCCAGCACCGAGTCTTTGGCCTTTTCTCCTGTCTGGTCAACGGC
GAGGAGCGAGAGCAGACTCACCGGCTGTGTTTCCAGTTTATCCCGCGCATCCAGACGAGCTGGAGCTG
GATGTGGATGACCTGTGTTGGTGGAGGCCGAGGAGGAGGACTTCTGGTTCGGTGGCTTCAACATGCGC
ACGGGGGAGCGCGGTGTGTTTCTGCTTCTACGCCATGCGGTGCCCGGCCCTGCCAAGGACCTGCTG
GGGAGTAAAGCGGAGCCCTGCTGGTGGAGCGCTTTGACGTGCAGTTCTGGGCTCCGTGGAGGTGCC
TGCCACCAGGGCAACGGCATCTGTGTGACGCCATGCAGAAGATTGCCACTGCCCGGAACTGACCGTC
CACCTGCGCCCTCCTGCCTCCTGTGACCTCGAGATCTCTTTCGGGGGTCAAGCTGAGTCTGAGCGGA
GGAGGGCCCGAGTTCAGCGCTGCAGCCATTTCTCCAGATGAAGAACATCTCCTTCTGCGGCTGCCAT
CCCCGAAACAGCTGCTATTTCCGCTTATCACCAAAACACCCCTGCTGAGCCGCTTCGCTGCCACGTC
TTGTCTCCAGGAGTCCATGAGGCCGGTGGCGCAGAGTGTGGCCGCGCCTTCTGGAGTACTACCAA
GAGCACCTGGCGTACGCTGCCACGGAGGACATCTACCTGGAGTAG
AGCGGACCGACGCTACGCGGCCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
```

Restriction Sites: Sgfl-RsrII

**Plasmid Map:**


**ACCN:** NM\_016431

**Insert Size:** 2394 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_016431.3](#)

**RefSeq Size:** 3183 bp

**RefSeq ORF:** 2394 bp

**Locus ID:** 23542

**Cytogenetics:** 22q13.33

**Protein Families:** Druggable Genome

**Protein Pathways:** MAPK signaling pathway

**MW:** 84.7 kDa

**Gene Summary:** This gene encodes a scaffold protein that is thought to be involved in the regulation of the c-Jun amino-terminal kinase signaling pathway. This protein has been shown to interact with and regulate the activity of MAPK8/JNK1 and MAP2K7/MKK7 kinases. [provided by RefSeq, Jun 2017]

Transcript Variant: This variant (2) contains a different 5' segment within the coding region when compared to variant 1. It encodes a protein (isoform 2) with a different and shorter N-terminus, as compared to isoform 1.