

## Product datasheet for **SC124125**

### JIP1 (MAPK8IP1) (NM\_005456) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	JIP1 (MAPK8IP1) (NM_005456) Human Untagged Clone
Tag:	Tag Free
Symbol:	JIP1
Synonyms:	IB1; JIP-1; JIP1; PRKM8IP
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC124125 sequence for NM\_005456 edited (data generated by NextGen Sequencing)

```
ATGGCGGAGCGAGAAAGCGGGCGGCTGGGAGGGGGGGCCGCGTCCCCGCCGCCGCTCC
CCGTTCTGGGGCTGCACATCGCTTCGCTCCCAATTTTCAGGCTCACCCATGACATCAGC
CTGGAGGAGTTTGGAGATGAAGACCTCTCGGAGATCACTGATGAGTGTGGCATCAGCTTA
CAGTGCAAAGACACCTGTCTTACGGCCCCCGCGCCGGGCTGCTCTCTCGGGCGGC
GGCGCGCGGGGAGCCGTTTGCAGGCCGAGATGCTGCAGATGGACCTGATCGACGCGCAG
GGGGACACTCCCGGGCCGAGGACGACGAGGAGGACGACGACGAGGAGCGCGGCCCGG
CGGCCGGGAGCGGGCCGCCAAGGCCGAGTCCGGCCAGGAGCCGGCGTCCCGCGCCAG
GGCCAGAGCCAAGGCCAGAGCCAGGGCCCGGCAGCGGGGACACGTACCGGCCAAGCGG
CCCACCACGCTCAACCTCTTTCCGAGGTGCCGCGTCTCAGGACACACTGAATAATAAT
TCTCTGGGCAAAAAGCACAGTTGGCAGGATCGGGTGTCTCGATCATCCTCACCCCTGAAG
ACAGGGGAGCAGACACCACCGCATGAACACATCTGCCTGAGCGATGAGCTGCCCCCCAG
AGCGGCCCGCCCCACCACAGATCGAGGCACCTCCACCACAGCCCTTGCCGCCGAGC
ACAGCCACCCAGATGGCACCTCCGGGTGGTCCCCCTGCTGCCCCGCTGGGGTCCGGGC
CACTCGCATCGAGACCGAATCCACTACCAGGCCGATGTGCGACTAGAGGCCACTGAGGAG
ATCTACCTGACCCAGTGCAGAGGCCCCAGACGCTGCAGAGCCACCTCCGCTTCTCTG
CCGCCACTGAGAGCCGGATGTCAGTCACTCCGATCCAGACCCTGCCGCTACCCCTCC
ACGGCAGGGCGGCGCACCCCTCCATCAGTGAAGAGGAAGAGGGCTTCGACTGCCTGTGC
TCCCCAGAGCGGGCTGAGCCCCAGGGGAGGGTGGCGGGGAGCCTGGGGGAGCCGCCG
CCACCTCCACGGGCTCTCTGAGCTCGGACACCAGCGCCTGTCTATGACTCTGTCAAG
TACACGCTGGTGGTAGATGAGCATGCACAGCTGGAGCTGGTGGCTGCGGCCGTGCTTC
GGAGACTACAGTGACGAGAGTACTCTGCCACCGTCTATGACAACGTGCCTCCGTCTCC
TGCCCTATGAGTCGGCCATCGGAGAGGAATATGAGGAGGCCCGCGGCCACGCCCTT
GCCTGCCTCTCCGAGGACTCCACGCTGATGAACCCGACGTCCATTTCTCCAAGAAATTC
CTGAACGTCTTATGAGTGGCCGCTCCCGCTCCTCCAGTGTGAGTCTTCCGGGTGTTT
TCCTGCATCATCAACGGGGAGGAGCAGGAGCAGACCCACCGGCCATATTCAGGTTTGTG
CCTCGACACGAAGACGAACCTGAGCTGGAAGTGGATGACCCTCTGCTAGTGGAGCTCCAG
GCTGAAGACTACTGGTACGAGGCCTACAACATGCGCACTGGTGCCCGGGTGTCTTCTT
GCCTATTACGCCATCGAGGTCACCAAGGAGCCCGAGCACATGGCAGCCCTGGCCAAAAAC
AGTGACTGGGTGGACCAGTTCGGGTGAAGTTCCTGGGCTCAGTCCAGGTTCCCTATCAT
AAGGGCAATGACGTCTCTGTGCTGCTATGCAAAAGATTGCCACCACCCCGCGCTCACC
GTGCACTTTAACC CGCCTCCAGCTGTGCTCCTGGAGATCAGCGTGCGGGGTGTGAAGATA
GGCGTCAAGGCCGATGACTCCCAGGAGGCCAAGGGGAATAAATGTAGCCACTTTTCCAG
TTAAAAAATCTCTTTCTGCGGATATCATCAAAGAACAACAAGTACTTTGGGTTTCATC
ACCAAGCACCCCGCCGACCACCGGTTTGCCTGCCACGCTTTTGTGTCTGAAGACTCCACC
AAAGCCCTGGCAGAGTCCGTGGGGAGAGCATTCCAGCAGTTCTACAAGCAGTTTGTGGAG
TACACCTGCCCCACAGAAGATATCTACCTGGAGTAG
```

Clone variation with respect to NM\_005456.3  
1740 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005456 unedited  
 CCGTATTTGTNATACGACTCACTATAGGGCGGCCGCGTATTTCGGCACGAGCTAGCCCGTA  
 CTCCGCGCGCGCGGCTGCCCTCTCGCCGCGCCTCCGCCTCCTTCGCAGCCGCGCCTCCT  
 CCGCGCCGCGCTCCGCCCGGATGGCCAGGGCTGTGCCCGAGAATGGCGGAGCGAGAAAGC  
 GGGCGCCTGGGAGGGGGGGCCGCGNCCCAGCCCGCCCTCCCGTTCTGGGGCTGCAC  
 ATCGCTTGGCCCTCCCAATTTAGGGCTCACCCATGACATCAGCCTGGGAGAGTTTGAGGA  
 TGAAGACCTCTCGAATATCAGTGATAACTGGGGCATTAACTACGGTGCAGAGACTGCAC  
 GATCTTTTCGGCGGCACGTTGGCAGGTCTGTTTACTGTGGCTGCGGCGCACCTGGGGCAGG  
 TGAAGACCGGTATGCGGAGAGGAGCCGGATTGGGAGGGGGCGTGACGGAGAGGAGGAA  
 GGAGCTTGTGGTGGACATGAAGAGTAGGACTAAGTGCGCAGAGAGAGGGCGCATGAGGGC  
 GTAAGGCGTGGGGGAGGGGCCGAGGCGGATGTGTACTGGAGGTGGACGTGAGGAAACGGA  
 GTCTTGAGAGGATTCTGTGTGTAGCTGCGGTGGTGGAGGGTGGCGTGTACGCAACCGC  
 GAGCGCGTCTGTGCGGCCCTCGGTGGGCTGTTAGAAGATTCTCCCGTGGAGTCTGGTTTG  
 TGCATGGCGTGGGTTTAAAGATTGCAGAGTGTGAGTATTGAGTAAATATATTTGCACTT  
 GTGTAGACGATGCGAGGTGGTATATTAGATCGTCTAGCCGAGCTAGTGTAGCGTTTCGG  
 GTTTGTATCGCTCTGCGAGCGTGTGAGTGTGGGGTCGACGTTGAGAGGGGAGGTGATT  
 CTGCTGACGGAAGAGGAGCCCGTTATTGGGTACT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005456 unedited  
 CAGGGCCAGGAGAGGCACTGGGGAGGGTCACAGGGATGCCACCCGGGATCTGTTTCAGGA  
 AACAGCTATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGACA  
 GGAATGGCACTTAATAGTTGGGGCCAGGGTGACAGGACCAAGATGGGGCTGGCCTGTG  
 TCAGTCAGGAAGCCTCCCTCTTCTGCTGGGACAGGGCCTTGCGGCAGCTCCTCCTCCCG  
 CCTGAGGTCTTAGGCCTGCCACAGGCCAGCATGCCGGTGAAGTCAAGTGGCAGGAGCCACC  
 CAGAAGCCCCGAGATGACGGAGCTGAGAACAGGGACTTACCTCCACGTGTTGCCATTT  
 CCTCACTGGAAAGTCTTGGGAGGTGGCTGGGCTCAGCCTGAGCTCANGGCTCTTCGGTG  
 GGGGTTGGGGCAGGGGCAGGGCGGGCACTTGAAGTTGGCACCAGGCTTCATCAAGGCAG  
 GACACGGGCTTCATCAAAGCAAGAGCCACAACGGCCCAACCCCTGCCAGGGGAGGTAAGG  
 CCCCAGATTGGGCAAGGCCGTGTGCTCCTGGAACGGACATCCTTCTTTGGCCGGAGACCT  
 GCTCCCCAAGCCCCTGGTCCCTCCAAATCCCCAGGCAGCCCAATCTGCCCTCCATAGATG  
 AAATCTTATCCCCTATATTACCATAAACTGCATTTTGCCTCCCCCATTGGCCCACCTTC  
 CCTTAACCCTGGGCCAGGCGCCCCCACTTT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_005456

**Insert Size:**

3300 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005456.2</a> , <a href="#">NP_005447.1</a>
<b>RefSeq Size:</b>	3079 bp
<b>RefSeq ORF:</b>	2136 bp
<b>Locus ID:</b>	9479
<b>UniProt ID:</b>	<a href="#">Q9UQF2</a>
<b>Cytogenetics:</b>	11p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes a regulator of the pancreatic beta-cell function. It is highly similar to JIP-1, a mouse protein known to be a regulator of c-Jun amino-terminal kinase (Mapk8). This protein has been shown to prevent MAPK8 mediated activation of transcription factors, and to decrease IL-1 beta and MAP kinase kinase 1 (MEKK1) induced apoptosis in pancreatic beta cells. This protein also functions as a DNA-binding transactivator of the glucose transporter GLUT2. RE1-silencing transcription factor (REST) is reported to repress the expression of this gene in insulin-secreting beta cells. This gene is found to be mutated in a type 2 diabetes family, and thus is thought to be a susceptibility gene for type 2 diabetes. [provided by RefSeq, May 2011]</p>