

Product datasheet for **RG213840**

JIP3 (MAPK8IP3) (NM_001040439) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | JIP3 (MAPK8IP3) (NM_001040439) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | MAPK8IP3 |
| Synonyms: | JIP-3; JIP3; JSAP1; NEDBA; syd; SYD2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG213840 representing NM_001040439 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGAGATCCAGATGGACGAGGGCGGGCGGTGGTGGTGTACCAGGACGACTACTGCTCCGGCTCGG
TGATGTCGGAGCGGGTGTCCGGCCTGGCGGGCTCCATCTACCGGAGTTCGAGCGCCTATCCACTGCTA
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CCCAAAGAAGAGGCGGAGGATGT AAGCAGCTATCTCTGTACAGAATCGGACAAAATCCCCATGGCCAGC
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GGTGAAGCCCGTGTGTCCAAGGCAGAGCGCAGTACATCATCGTGTGGCAGGTGTCTACACCCCGAG

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG213840 representing NM_001040439
 Red=Cloning site Green=Tags(s)

MMEIQMDEGGGVVYQDDYCSGSMSESVSLAGSIYREFERLIHCYDEEVVKELMPLVNVNLENLDSVL
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 ANWKKCLHSIKLKDSVLSLVHVKGRVLVALADGTLAIFHRGEDGQWDL SNYHLMDLGHPHHSIRCMVVY
 DRVWCGYKKNVHVIQPKTMQIEKSFDAHPRRESQVRQLAWIGDGVVWSIRLDSTLRLYHAHTHQHLQDVD
 IEPYVSKMLGTGKLGFSFVRITALLVAGSRLWVGTGNGVVISIPLTETVVLHRGQLLGLRANKTSPTS
 GARPGGIHVVYGDSSDRAASSFIPYCSMAQAQLCFHGHRAVKFFVSVPGNVLATLNGSVLDSPAE
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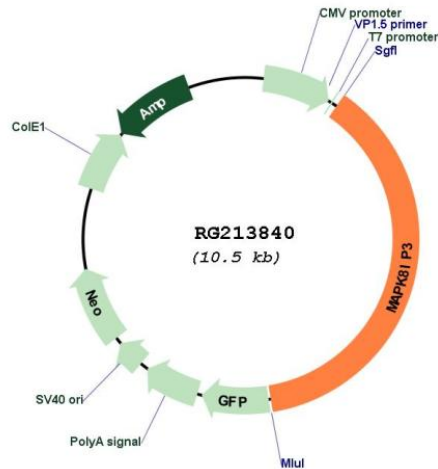
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001040439

ORF Size: 3990 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_001040439.2](#)

RefSeq Size: 5635 bp

RefSeq ORF: 3993 bp

Locus ID: 23162

UniProt ID: [Q9UPT6](#)

Cytogenetics: 16p13.3

Protein Families: Druggable Genome

Protein Pathways: MAPK signaling pathway

Gene Summary: The protein encoded by this gene shares similarity with the product of *Drosophila* *syd* gene, required for the functional interaction of kinesin I with axonal cargo. Studies of the similar gene in mouse suggested that this protein may interact with, and regulate the activity of numerous protein kinases of the JNK signaling pathway, and thus function as a scaffold protein in neuronal cells. The *C. elegans* counterpart of this gene is found to regulate synaptic vesicle transport possibly by integrating JNK signaling and kinesin-1 transport. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Jul 2008]