

## Product datasheet for **MR230646**

### Trip10 (NM\_001242390) Mouse Tagged ORF Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                          |
| Product Name:      | Trip10 (NM_001242390) Mouse Tagged ORF Clone |
| Tag:               | Myc-DDK                                      |
| Symbol:            | Trip10                                       |
| Synonyms:          | A1646975; Cip4                               |
| Vector:            | pCMV6-Entry (PS100001)                       |
| E. coli Selection: | Kanamycin (25 ug/mL)                         |
| Cell Selection:    | Neomycin                                     |



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**ORF Nucleotide Sequence:**

>MR230646 representing NM\_001242390  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATTGGGGTACCGAGTTGTGGGATCAGTTTGGAGTGTGGAACGCCACACGAGTGGGGCTGGATT  
 TGTGGACAAATACGTGAAGTTCGTGAAAGAACGCGCGGAGGTGGAGCAGGCTTATGCTAAGCAACTCCG  
 GAGCCTGGTGA AAAAGTATCTTCCCAAGAGACCTACCAAAGATGACCCTGAAGTCAAGTTCAGCCAGCAG  
 CAGTCAATTTGTCCAGTTCTCCAGGAGTCAATGACTTCGCAGGCCAGAGAGAGCTGGTGGCTGAGAGCC  
 TCGGTATCCGAGTGTGTCTGGAGCTGGTAAGTATTCACAGGAGATGAAGCAGGAGAGGAAGATGCACTT  
 CCAGGAAGGTCTCGGGCCAGCAGCAGCTGGAGAATGGCTTCAAACAGCTGGAGAATAGTAAGCGGAAG  
 TTTGAACGAGATTGCCGGGAGGCTGAGAAAGCGGCTCACACTGCTGAGCGCTAGATCAGGACATTAATG  
 CCACCAAGGCGGATGTGGAGAAGCCAAGCAGCAAGCTCACCTTCGGAACACATGGCAGAAGAGAGCAA  
 GAATGAATATGCGGCCAGCTGCAGCGCTTCAACCGAGACCAGGCTCACTTCTACTTCTCACAGATGCC  
 CAGATATTCGATAAGCTGCAGGACATGGACGAACGCCGGCCACCCGCCTGGGGCCGGGTATGGGCTCT  
 TATCAGAGGCTGAACTGCAGGTGGTCCCATTTATGGCAATGCTTGGAGGGCATGAAGGTGGCCCGCA  
 GTCTGTGGATGCTAAGAACGACTCACAGTCTCATCGAATTACACAAGTCCGGGTTTGGCCGCCAGGG  
 GACTTGAATTTGAAGACTTTAGCCAAGTTATCAACCGAGTGCCTTCGGACAGCAGCCTGGGCACCCCGG  
 ATGGCAGGCTGAGCTCCGAGCAGCCTCCAGCCGTAGCCGCGCAAGCGTTGGCCTTTCGGGAAAAAGAA  
 CAAGCCACGTCCCCATCCCTGTCCCTCTGGGGGTACCTACCTCCACACTGTCTGATGGACCTCA  
 TCCCCCGTTCTGGCCGCGACCCCTTGGCATACTGAGCGAGATCAGTAAGTCGGTCAAACCGCGGCTAG  
 CATCCTTCCGAGCTTCCGAGGTGGCCGTGGACCGTGGTACCGAAGATTTCACTCACTTGGCCCGGA  
 GCAGCAGAGAAAGCGACTTCAGCAACAGCTGGAAGAGCGGAACCGAGAGTTGCAGAAGGAGGAGGACAG  
 AGGGAGGCCCTGAAGAAGATGAAAGATGTATAGAAAAACACCACAAATGGGGGACCCTGCCAGCTTAG  
 AGCCCCGATTGCAGAGACCCTGGCAACATTGAGAGGCTGAAGTTGGAAGTGCAGAAGTATGAGGCTTG  
 GTTGGCAGAAGCTGAAAGCCGGTCTCAGTAACCGAGGGGACAGCCTAAGCCGTACGCTAGGCCCCCT  
 GATCCCCCACTACTGCCACCTGATAGCAGCAGTAGCAGCACCAACAGTGGATCCAGGACAATAAGG  
 AGAGCTCAGAAGAGCCCCCTTCAAGAGCCAGGACACCCCATCTATACTGAGTTCGATGAGGACTTTGA  
 GGAGCCTGCATCCCCTATCGCCAGTGTGTGGCTATCTACCATTTTGAAGGATCCAGCGAGGGAACCGTC  
 TCCATGTCCGAGGGGAAGACCTCAGCCTGATGGAGGAAGACAAGGGTGTGGATGGACGCGGGTACGGA  
 GGAAACAGGGAGCTGAGGGCTACGTGCCACCTTTACCTCCGAGTCACACTCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230646 representing NM\_001242390  
 Red=Cloning site Green=Tags(s)

MDWGTTELWDQFEVLERHTQWGLDLLDKYVKFVKERAEEVQAYAKQLRSLVKKYLPKRPTKDDPEVKFSQQ  
 QSFVQLLQEVNDFAGQRELVAESLGIRVCLLAKYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRK  
 FERDCREAEKAAHTAERLDQDINATKADVEKAKQQAHLRNHMAEESKNEYAAQLQRFNRDQAHFYFSQMP  
 QIFDKLQDMDERRATRLGAGYGLLSEAELQVVP IIGKCLEGMKVAAESVDAKNDQVLIELHKS GFARPG  
 DLEFEDFSQVINRVPSDSSLGTPDGRPELRAASSRSRAKRWPF GKKNKPRPPSLLLGGHLPSTLSDGPS  
 SPRSGRDLAILSEISKSVKPRLASFRSFRGGRGTVATEDF SHLPPEQQRKRLQQLEERNRELQKEEDQ  
 REALKMKMDVYEKTPQMGDPASLEPRIAETLGNIERLKLEVQKYEAWLAEAESRVL SNRGLSLSRHARPP  
 DPPTTAPPDSSSSSTNSGSQDNKESSEPPSEGQDTPIYTEFDEDFEEPASPIGQCVAIYHFEFSSEGTV  
 SMSEGEDLSLMEEDKGDGWTRVRRKQGAEGYVPTS YLRLVTLN

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

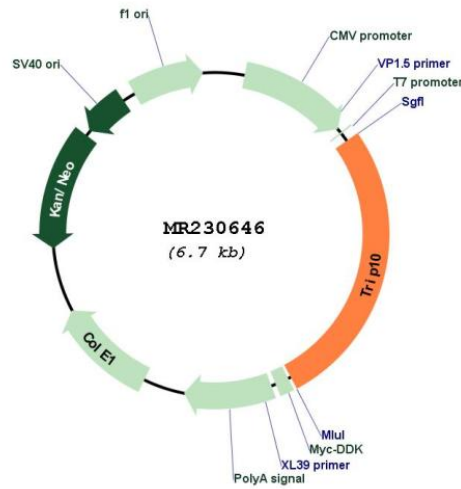
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001242390

ORF Size: 1806 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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_001242390.1</a> , <a href="#">NP_001229319.1</a>   |
| <b>RefSeq Size:</b>           | 2455 bp   |
| <b>RefSeq ORF:</b>            | 1809 bp   |
| <b>Locus ID:</b>              | 106628  |
| <b>UniProt ID:</b>            | <a href="#">Q8CJ53</a>  |
| <b>Cytogenetics:</b>          | 17 D  |
| <b>MW:</b>                    | 68.9 kDa  |
| <b>Gene Summary:</b>          | Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also promotes CDC42-induced actin polymerization by recruiting WASL/N-WASP which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. Required for the formation of podosomes, actin-rich adhesion structures specific to monocyte-derived cells. May be required for the lysosomal retention of FASLG/FASL (By similarity). Required for translocation of GLUT4 to the plasma membrane in response to insulin signaling.[UniProtKB/Swiss-Prot Function] |