

Product datasheet for **SC122672**

Cip4 (TRIP10) (NM_004240) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cip4 (TRIP10) (NM_004240) Human Untagged Clone
Tag:	Tag Free
Symbol:	Cip4
Synonyms:	CIP4; HSTP; STOT; STP; TRIP-10
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_004240 edited
 CTGCGGCGGCGGCGGCGGAGCAGCATGGATTGGGGCACTGAGCTGTGGGATCAGTTCGA
 GGTGCTCGAGCGCCACACGCAGTGGGGCTGGACCTGTTGGACAGATATGTAAAGTTCGT
 GAAAGAACGCACCGAAGTGAACAGGCTTACGCCAAACAACCTGCGGAGCCTGGTAAAAA
 ATATCTGCCCAAGAGACCTGCCAAGGATGATCCTGAGTCCAAATTCAGCCAGCAACAGTC
 CTTCTGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGGGAGCTGGTGGCTGA
 GAACTCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGA
 GAGGAAGATGCACCTTCCAAGAAGGGCGGCGGGCCAGCAGCAGCTGAAAAATGGCTTTAA
 ACAGCTGGAGAATAGTAAGCGTAAATTTGAGCGGACTGCCGGGAGGCAGAGAAGGCAGC
 CCAGACTGCTGAACGGCTAGACCAGGATATCAACGCCACCAAGGCTGATGTGGAGAAGGC
 CAAGCAGCAAGCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAAAACGAATATGCGGC
 TCAACTGCAGCGCTTCAACCGAGACCAAGCCACTTCTATTTTTTACAGATGCCCCAGAT
 ATTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCTGGGTGCCGGTATGG
 GCTCCTGTGGAGGCCGAGCTGGAGGTGGTGCCATAATAGCCAAGTCTGGAGGGCAT
 GAAGGTGGCTGCAAATGCTGTGGATCCCAAGAACGACTCCACGTCCTTATAGAGCTGCA
 CAAGTCAGGTTTTGCCCGCCCGGCGCAGCTGGAATTCGAGGACTTCAGCCAGCCCATGAA
 CCGTGCACCCCTCCGACAGCAGTCTGGGCACCCCTCGGATGGACGGCCTGAACTCCGAGG
 CCCGGGTGCGAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAACAAGACAGTGGTGAC
 CGAGGATTTTAGCCACTTGCCCCAGAGCAGCAGCGAAAAACGGCTTCAACAGCAGTTGGA
 AGAACGCAGTCGTGAACTTCAAGAAGGAGTTGACCAGAGGGAAGCCCTAAAGAAAATGAA
 GGATGTCTATGAGAAGACACCTCAGATGGGGGACCCCGCCAGCTTGGAGCCCCAGATCGC
 TGAAACCCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCT
 GGCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCG
 GCCTCCCGACCCCGCTAGCGCCCGCCAGACAGCAGCAACAGCGCATCACAGGA
 CACCAAGGAGAGCTCTGAAGAGCCTCCCTCAGAAGAGAGCCAGGACACCCCATTTACAC
 GGAGTTTGTAGGATTTTCGAGGAGGAACCCACATCCCCATAGGTCACTGTGTGGCCAT
 CTACCACCTTGAAGGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAG
 TCTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTGAGCGGAAAGAGGGAGGCGA
 GGGCTACGTGCCACCTCCTACCTCCGAGTCACGCTCAATTGAACCTGCCAGAGACGGG
 AAGAGGGGGCTGTGGCTGCTGCTTCTGGCCACGGGGGTCCCAGGACCTAGGCACTT
 TATTTCTGACCCGTGGCTTCGGCTGAGACCTGTGTAACCTGCTGCCCCCTCCACCCCA
 ACCCAGTCTACCTGTACACCGGACGGACCCGCTGTGCCTTCTACCATGTTCCACCAT
 TGATGTACATACTCATGTTTTACATCTTTCTTTCTGCGCTCGGCTCCGGCCATTTTGT
 TTTATACAAAAATGGGAAAAAAAAAAAAAAAAAGAAATTATTATAAAAAAAAAAAAAAAAAA
 AA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004240 unedited GTTCCGGATTTTGTNATACGACTCACTATAGGGGCGGCCGGAATTCGCACGAGGCTGCGG CGGCGCGGGCGGGAGCACATGGGTTGGGGCACTGAGCTGTGGGATCAGTTCGAGGTGCTC GAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAGTTCTGTGAAAGAA CGCACCGAAGTGAACAGGCTTACGCCAAACAACGCGGAGCCTGGTGAAAAATATCTG CCCAAGAGACCTGCCAAGGATGATCCTGAGTCCAAATTCAGCCAGCAACAGTCCTTCGTA CAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGGGAGCTGGTGGCTGAGAACCTC AGTGTCCTGTATGTCTTGAGCTGACCAAGTACTACAAGAGATGAAACAGGAGAGGAAG ATGCACTTCCAAGATAGCGCGGGGCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTG GAGAATAGTAAGCGTAAATTTGAGCGGGACTGCCGGGAGGCATATAATGCAGCCCAAAC GCTGAACGGCTAGACCAGGATATCAACGCCACCAAGGCTGATGTGGAGAATGCCAAGCAG CAAGCCCACCTTCGGAGTCACATGGCCGAAGATAGCAAANACGAATATGCGGCTCANCTG CAGCGCTTCAACCGAGACAAGCCCACTGCTATTTTTACAGATGCCCCAGAATTCGATAAG CTCAAGGACTGGATGAACGCANGGCCACCCGCTGGGTGCCGGTATGGGCTCCTGTCGG AGGCCAGCTGGAAGTGGTGCCCATATAGCCCAATGCTTGAAGGGCATGAAAGTGGCTGC AAATGCTGTGGATCCCAAGAACGACTCCCACTTCCCTTAAAANCTGCCCAGTCAAGTTTT GCCCGCGGGCGGACTGGAATTCAGGACTT
Restriction Sites:	Please inquire
ACCN:	NM_004240
Insert Size:	2048 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).
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_004240.2 , NP_004231.1
RefSeq Size:	2029 bp
RefSeq ORF:	1638 bp
Locus ID:	9322
UniProt ID:	Q15642
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome

Protein Pathways: Insulin signaling pathway

Gene Summary: Required for translocation of GLUT4 to the plasma membrane in response to insulin signaling (By similarity). 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.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.