

## Product datasheet for **RC239020**

### Cip4 (TRIP10) (NM\_001288963) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cip4 (TRIP10) (NM_001288963) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIP10
Synonyms:	CIP4; HSTP; STOT; STP; TRIP-10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239020 representing NM\_001288963  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGATTGGGCACTGAGCTGTGGGATCAGTTCGAGGTGCTCGAGCGCCACACGCAGTGGGGCTGGACC  
 TGTTGGACAGATATGTAAGTTCGTGAAAGAACGCACCGAAGTGAACAGGCTTACGCCAAACAACCTGCC  
 GAGCCTGGTGAAAAATATCTGCCCAAGAGACCTGCCAAGGATGATCCTGAGTCCAAATTCAGCCAGCAA  
 CAGTCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGGGAGCTGGTGGCTGAGAACC  
 TCAGTGTCCGTGATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAGAGGAAGATGCACTT  
 CCAAGAAGGGCGGGCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGTAAGCGTAAA  
 TTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCAGACTGCTGAACGGCTAGACCAGGATATCAACG  
 CCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCACCTTCGGAGTCACATGGCCGAAGAAAGCAA  
 AAACGAATATGCGGCTCAACTGCAGCGTTC AACCGAGACCAAGCCACTTCTATTTTTACAGATGCC  
 CAGATATTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCTGGGTGCCGGGTATGGGCTCC  
 TGTCGGAGGCCGAGCTGGAGGTGGTCCATAATAGCCAAGTGGTGGAGGGCATGAAGGTGGTGCAAA  
 TGCTGTGGATCCCAAGAAGCACTCCACGTCCTTAGAGCTGCACAAGTCAGGTTTTGCCCGCCGGGC  
 GACGTGGAATTCGAGGACTTCAGCCAGCCCATGAACCGTGACCCCTCCGACAGCAGTCTGGGCACCCCT  
 CGGATGGACGGCTGAATCCGAGGCCCGGGTTCGAGCCGACCAAGCGCTGGCTTTTGGCAAGAAGAA  
 CAAGACAGTGGTACCGAGGATTTAGCCACTTGCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAG  
 TTGGAAGAACGCAGTCGTGAACCTCAGAAGGAGTTGACCAGAGGAAGCCCTAAAGAAAAATGAAGGATG  
 TCTATGAGAAGACACCTCAGATGGGGACCCCGCAGCTTGAGCCCCAGATCGTGAAACCTGAGCAA  
 CATTGAACGGCTGAAATTTGGAAGTGCAGAAGTATGAGGCGTGGCTGGCAGAAGCTGAAAGTCGAGTCCTT  
 AGCAACCGGGGAGACAGCCTGAGCCGGCAGCCCGGCCTCCCGACCCCGGCTAGCGCCCGCCAGACA  
 GCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCAGAAGAGAGCCAGGA  
 CACCCCATTTACACGGAGTTTGTAGGAGTTTCGAGGAGGAACCCACATCCCCATAGTCACTGTGTG  
 GCCATCTACCCTTTGAAGATCTGGGCCACCCCAACCCCATCACAGGGTCCAGCGAGGGCACTATCTC  
 TATGGCCGAGGGTGAAGACCTCAGTCTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTGAGCGG  
 AAAGAGGGAGGGGCTACGTGCCACCTCCTACCTCCGAGTCAGCTCAATTGAACCTGCCAGAGA  
 CGGAAGAGGGGGCTGTCGGCTGCTGCTTCTGGCCACGGGGAGCCCCAGGACCTATGCACCTTTATTC  
 TGACCCCGTGGCTTCGGCTGAGACCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239020 representing NM\_001288963  
 Red=Cloning site Green=Tags(s)

MDWGTTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPKADDPESKFSQQ  
 QSFVQILQEVNDFAGQRELVAENLSVRVCLLELTKYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRK  
 FERDCREAEKAAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMP  
 QIFDKLQDMDERRATRLGAGYGLLSEAELVVPVIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPG  
 DVEFEDFSQPMNRAPSDSSLGTPSDGRPELRGPRSRTRKRWPFKKNKTVVTEDFSHLPPEQQRKRLQQQ  
 LEERSRELQKEVDQREALKMKDVEYKTPQMGDPASLEPQIAETLSNIERLKLEVQKYEAWLAEASRVL  
 SNRGDSL SRHARPPDPPASAPPDSSNSASQDTKESSEPPSEESQDTPITYTEFDEDFEEPTSPIGHCV  
 AIYHFEDLGPPPPPSQGPAPARLSLWPRVKTSLVWKKTKGTAGPGSGGKREARATCPPPTSESRSIEPCQR  
 REEGGCRLLLLGHGEPQDLCTLFLTPWLRLRPV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

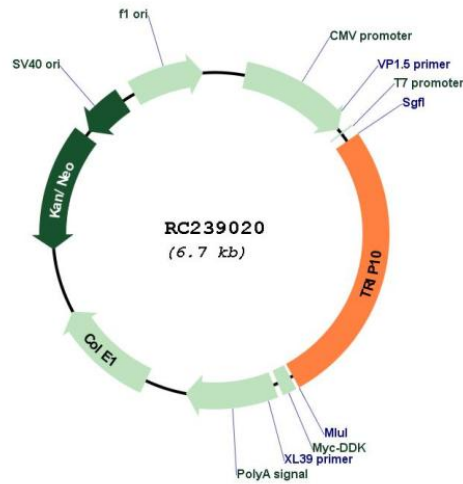
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001288963

ORF Size: 1779 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_001288963.2</a>
<b>RefSeq Size:</b>	2062 bp
<b>RefSeq ORF:</b>	1782 bp
<b>Locus ID:</b>	9322
<b>UniProt ID:</b>	<a href="#">Q15642</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Insulin signaling pathway
<b>MW:</b>	68.2 kDa
<b>Gene Summary:</b>	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]