OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC239051

Cip4 (TRIP10) (NM_001288962) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cip4 (TRIP10) (NM_001288962) 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

View online »

ORF Nucleotide Sequence:

>RC239051 representing NM_001288962
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTGGGGCACTGAGCTGTGGGATCAGTTCGAGGTGCTCGAGCGCCACACGCAGTGGGGGCTGGACC
TGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAAGTGGAACAGGCTTACGCCAAACAACTGCG
GAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGATCCTGAGTCCAAATTCAGCCAGCAA
CAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGGGAGCTGGTGGCTGAGAACC
TCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAGAGGAAGATGCACTT
CCAAGAAGGGCGGCGGGCCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGTAAGCGTAAA
TTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATCAACG
CCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAA
AAACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACTTCTATTTTTCACAGATGCCC
CAGATATTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCCTGGGTGCCGGGTATGGGCTCC
TGTCGGAGGCCGAGCTGGAGGTGGTGCCCATAATAGCCAAGTGCTTGGAGGGCATGAAGGTGGCTGCAAA
TGCTGTGGATCCCAAGAACGACTCCCACGTCCTTATAGAGCTGCACAAGTCAGGTTTTGCCCGCCCGGGC
GACGTGGAATTCGAGGACTTCAGCCAGCCCATGAACCGTGCACCCTCCGACAGCAGTCTGGGCACCCCCT
CGGATGGACGGCCTGAACTCCGAGGCCCGGGTCGCAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAA
CAAGCCTCGCCCCCCACCCCTCTCCCCCCTGGGGGGCCCCGTACCCTCGGCATTGCCTAACGGACCCCCG
TCCCCCCGCTCCGGCCGTGACCCCTTGGCCATACTGAGCGAGATCAGTAAGTCGGTCAAACCGAGGCTAG
CATCCTTCCGCAGCCTTCGAGGCAGCCGTGGGACAGTGGTGACCGAGGATTTTAGCCACTTGCCCCCAGA
GCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACTTCAGAAGGAGGTTGACCAG
AGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCCGCCAGCTTGG
AGCCCCAGATCGCTGAAACCCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTG
GCTGGCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCGGCCTCCC
GACCCCCCCGCTAGCGCCCCGCCAGACAGCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTG
AAGAGCCTCCCTCAGAAGAGAGCCAGGACACCCCCATTTACACGGAGTTTGATGAGGATTTCGAGGAGGA
ACCCACATCCCCCATAGGTCACTGTGTGGCCATCTACCACTTTGAAGGGTCCAGCGAGGGCACTATCTCT
ATGGCCGAGGGTGAAGACCTCAGTCTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTCAGGCGGA
AAGAGGGAGGCGAGGGCTACGTGCCCACCTCCTACCTCCGAGTCACGCTCAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

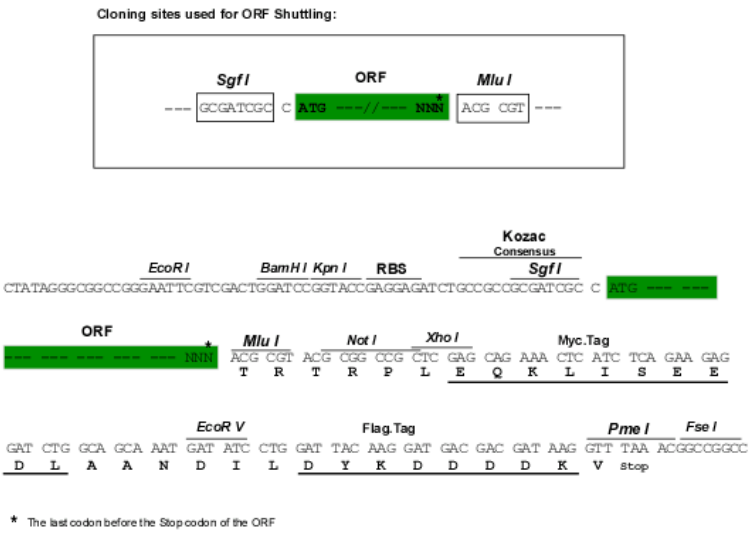
>RC239051 representing NM_001288962
Red=Cloning site Green=Tags(s)

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQ
QSFVQILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRAQQQLENGFKQLENSKRK
FERDCREAEKAAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMP
QIFDKLQDMDERRATRLGAGYGLLSEAELEVVPIIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPG
DVEFEDFSQPMNRAPSDSSLGTPSDGRPELRGPGRSRTKRWPFGKKNKPRPPPLSPLGGPVPSALPNGPP
SPRSGRDPLAILSEISKSVKPRLASFRSLRGSRGTVVTEDFSHLPPEQQRKRLQQQLEERSRELQKEVDQ
REALKKMKDVYEKTPQMGDPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRGDSLSRHARPP
DPPASAPPDSSSNSASQDTKESSEEPPSEESQDTPIYTEFDEDFEEEPTSPIGHCVAIYHFEGSSEGTIS
MAEGEDLSLMEEDKGDGWTRVRRKEGGEGYVPTSYLRVTLN

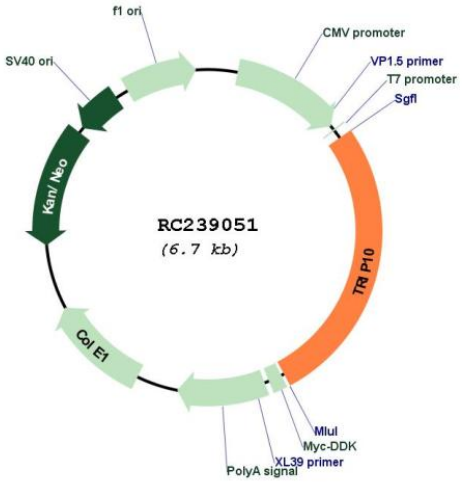
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288962

ORF Size: 1803 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_001288962.2
RefSeq Size:	2201 bp
RefSeq ORF:	1806 bp
Locus ID:	9322
UniProt ID:	Q15642
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Protein Pathways:	Insulin signaling pathway
MW:	68.8 kDa
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]