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Product datasheet for RG201200

Cip4 (TRIP10) (NM_004240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cip4 (TRIP10) (NM_004240) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRIP10
Synonyms:	CIP4; HSTP; STOT; STP; TRIP-10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG201200 representing NM_004240
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTGGGGCACTGAGCTGTGGGATCAGTTCGAGGTGCTCGAGCGCCACACGCAGTGGGGGCTGGACC
TGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAAGTGGAACAGGCTTACGCCAAACAACTGCG
GAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGATCCTGAGTCCAAATTCAGCCAGCAA
CAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGGGAGCTGGTGGCTGAGAACC
TCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAGAGGAAGATGCACTT
CCAAGAAGGGCGGCGGGCCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGTAAGCGTAAA
TTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATCAACG
CCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCCACCTTCGGAGTCACATGGCCGAAGAAAGCAA
AAACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACTTCTATTTTTCACAGATGCCC
CAGATATTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCCTGGGTGCCGGGTATGGGCTCC
TGTCGGAGGCCGAGCTGGAGGTGGTGCCCATAATAGCCAAGTGCTTGGAGGGCATGAAGGTGGCTGCAAA
TGCTGTGGATCCCAAGAACGACTCCCACGTCCTTATAGAGCTGCACAAGTCAGGTTTTGCCCGCCCGGGC
GACGTGGAATTCGAGGACTTCAGCCAGCCCATGAACCGTGCACCCTCCGACAGCAGTCTGGGCACCCCCT
CGGATGGACGGCCTGAACTCCGAGGCCCGGGTCGCAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAA
CAAGACAGTGGTGACCGAGGATTTTAGCCACTTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAG
TTGGAAGAACGCAGTCGTGAACTTCAGAAGGAGGTTGACCAGAGGGAAGCCCTAAAGAAAATGAAGGATG
TCTATGAGAAGACACCTCAGATGGGGGACCCCGCCAGCTTGGAGCCCCAGATCGCTGAAACCCTGAGCAA
CATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTGGCAGAAGCTGAAAGTCGAGTCCTT
AGCAACCGGGGAGACAGCCTGAGCCGGCACGCCCGGCCTCCCGACCCCCCCGCTAGCGCCCCGCCAGACA
GCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCAGAAGAGAGCCAGGA
CACCCCCATTTACACGGAGTTTGATGAGGATTTCGAGGAGGAACCCACATCCCCCATAGGTCACTGTGTG
GCCATCTACCACTTTGAAGGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGTCTTA
TGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTCAGGCGGAAAGAGGGAGGCGAGGGCTACGTGCCCAC
CTCCTACCTCCGAGTCACGCTCAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

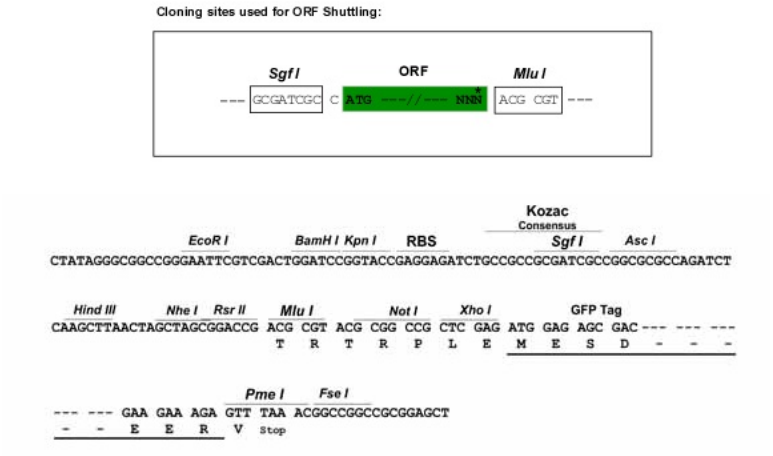
>RG201200 representing NM_004240
Red=Cloning site Green=Tags(s)

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQ
QSFVQILQEVNDFAGQRELVAENLSVRVCLELTKYSQEMKQERKMHFQEGRRAQQQLENGFKQLENSKRK
FERDCREAEKAAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMP
QIFDKLQDMDERRATRLGAGYGLLSEAELEVVPIIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPG
DVEFEDFSQPMNRAPSDSSLGTPSDGRPELRGPGRSRTKRWPFGKKNKTVVTEDFSHLPPEQQRKRLQQQ
LEERSRELQKEVDQREALKKMKDVYEKTPQMGDPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVL
SNRGDSLSRHARPPDPPASAPPDSSSNSASQDTKESSEEPPSEESQDTPIYTEFDEDFEEEPTSPIGHCV
AIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRVRRKEGGEGYVPTSYLRVTLN

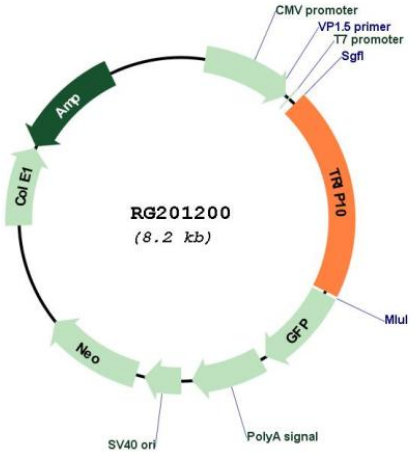
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_004240
ORF Size:	1635 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_004240.4
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]