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Product datasheet for MR230648

Trip10 (NM_001242389) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trip10 (NM_001242389) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trip10
Synonyms:	AI646975; Cip4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>MR230648 representing NM_001242389
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATTGGGGTACCGAGTTGTGGGATCAGTTTGAGGTGCTGGAACGCCACACGCAGTGGGGGCTGGATT
TGTTGGACAAATACGTGAAGTTCGTGAAAGAACGCGCGGAGGTGGAGCAGGCTTATGCTAAGCAACTCCG
GAGCCTGGTGAAAAAGTATCTTCCCAAGAGACCTACCAAAGATGACCCTGAAGTCAAGTTCAGCCAGCAG
CAGTCATTTGTCCAGCTTCTCCAGGAGGTCAATGACTTCGCAGGCCAGAGAGAGCTGGTGGCTGAGAGCC
TCGGTATCCGAGTGTGTCTGGAGCTGGCTAAGTATTCACAGGAGATGAAGCAGGAGAGGAAGATGCACTT
CCAGGAAGGTCGTCGGGCCCAGCAGCAGCTGGAGAATGGCTTCAAACAGCTGGAGAATAGTAAGCGGAAG
TTTGAACGAGATTGCCGGGAGGCTGAGAAAGCGGCTCACACTGCTGAGCGCCTAGATCAGGACATTAATG
CCACCAAGGCGGATGTGGAGAAGGCCAAGCAGCAAGCTCACCTTCGGAACCACATGGCAGAAGAGAGCAA
GAATGAATATGCGGCCCAGCTGCAGCGCTTCAACCGAGACCAGGCTCACTTCTACTTCTCACAGATGCCC
CAGATATTCGATAAGCTGCAGGACATGGACGAACGCCGGGCCACCCGCCTGGGGGCCGGGTATGGGCTCT
TATCAGAGGCTGAACTGCAGGTGGTTCCCATTATTGGCAAATGCTTGGAGGGCATGAAGGTGGCCGCCGA
GTCTGTGGATGCTAAGAACGACTCACAGGTCCTCATCGAATTACACAAGTCCGGGTTTGCCCGCCCAGGG
GACTTGGAATTTGAAGACTTTAGCCAAGTTATCAACCGAGTGCCTTCGGACAGCAGCCTGGGCACCCCGG
ATGGCAGGCCTGAGCTCCGAGCAGCCTCCAGCCGTAGCCGCGCCAAGCGTTGGCCTTTCGGGAAAAAGAA
CAAGCCACGTCCCCCATCCCTGTCCCTCCTGGGGGGTCACCTACCCTCCACACTGTCTGATGGACCCTCA
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CATCCTTCCGCAGCTTCCGAGGTGGCCGTGGGACCGTGGCTACCGAAGATTTCAGTCACTTGCCCCCGGA
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AGCCCCGCATTGCAGAGACCCTGGGCAACATTGAGAGGCTGAAGTTGGAAGTGCAGAAGTATGAGGCTTG
GTTGGCAGAAGCTGAAAGCCGGGTCCTCAGTAACCGAGGGGACAGCCTAAGCCGTCACGCTAGGCCCCCT
GATCCCCCAACTACTGCCCCACCTGATAGCAGCAGTAGCAGCACCAACAGTGGATCCCAGGACAATAAGG
AGAGCAGCTCAGAAGAGCCCCCTTCAGAAGGCCAGGACACCCCCATCTATACTGAGTTCGATGAGGACTT
TGAGGAGCCTGCATCCCCTATCGGCCAGTGTGTGGCTATCTACCATTTTGAAGGATCCAGCGAGGGAACC
GTCTCCATGTCCGAGGGGGAAGACCTCAGCCTGATGGAGGAAGACAAGGGTGATGGATGGACGCGGGTCA
GGAGGAAACAGGGAGCTGAGGGCTACGTGCCCACCTCTTACCTCCGAGTCACACTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

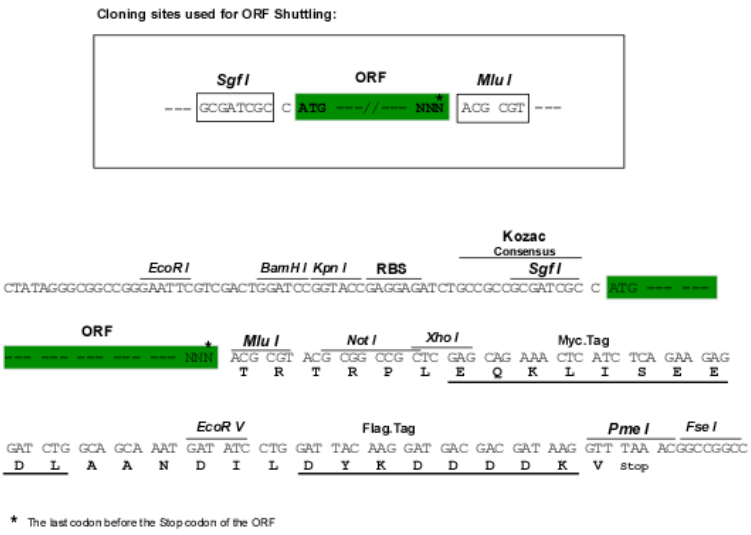
>MR230648 representing NM_001242389
Red=Cloning site Green=Tags(s)

MDWGTELWDQFEVLERHTQWGLDLLDKYVKFVKERAEVEQAYAKQLRSLVKKYLPKRPTKDDPEVKFSQQ
QSFVQLLQEVNDFAGQRELVAESLGIRVCLELAKYSQEMKQERKMHFQEGRRAQQQLENGFKQLENSKRK
FERDCREAEKAAHTAERLDQDINATKADVEKAKQQAHLRNHMAEESKNEYAAQLQRFNRDQAHFYFSQMP
QIFDKLQDMDERRATRLGAGYGLLSEAELQVVPIIGKCLEGMKVAAESVDAKNDSQVLIELHKSGFARPG
DLEFEDFSQVINRVPSDSSLGTPDGRPELRAASSRSRAKRWPFGKKNKPRPPSLSLLGGHLPSTLSDGPS
SPRSGRDPLAILSEISKSVKPRLASFRSFRGGRGTVATEDFSHLPPEQQRKRLQQQLEERNRELQKEEDQ
REALKKMKDVYEKTPQMGDPASLEPRIAETLGNIERLKLEVQKYEAWLAEAESRVLSNRGDSLSRHARPP
DPPTTAPPDSSSSSTNSGSQDNKESSSEEPPSEGQDTPIYTEFDEDFEEPASPIGQCVAIYHFEGSSEGT
VSMSEGEDLSLMEEDKGDGWTRVRRKQGAEGYVPTSYLRVTLN

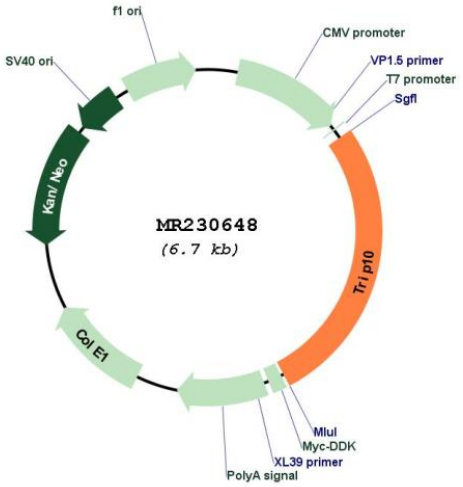
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242389

ORF Size: 1809 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_001242389.1, NP_001229318.1
RefSeq Size:	2458 bp
RefSeq ORF:	1812 bp
Locus ID:	106628
UniProt ID:	Q8CJ53
Cytogenetics:	17 D
MW:	68.9 kDa
Gene Summary:	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]