

Product datasheet for **RC215738**

TRIM45 (NM_025188) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM45 (NM_025188) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIM45
Synonyms:	RNF99
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC215738 representing NM_025188
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCAGAAAACAGAAAACCGCTGCTGGGCTTTGTAAGCAAACACTACTAGTGGGACTGCACTTGGGAAC
 CAGGCAAGACTCACTGCCCCCTGTGCTTGGGGCTTTTCAAAGCCCCAGGCTCTTGCCTTGTTCATAC
 AGTTTGCACCACGTGTCTGGAGCAGCTGGAGCCCTTCTCAGTAGTGGACATCCGAGGGGAGACTCTGAC
 ACAAGCTCTGAGGGTCAATATTCCAGGAACTCAAGCCACGAAGTCTGCAGTCGCAGATCGGCATCCTTT
 GTCCTGTATGTGATGCTCAGGTGGACCTGCCATGGGTGGAGTGAAGGCTTAAACCATAGACCACCTGGC
 CGTGAATGATGTGATGCTGGAGAGCCTACGTGGGAAGGCCAGGGCCTGGTGTGTGACCTGTGCAACGAC
 AGGGAAGTAGAGAAGAGGTGTGACACTGCAAAGCCAACCTCTGCCACTTCTGCTGCCAGGCTCATAGGC
 GGCAGAAGAAAACGACTTACCACACCATGGTGGACCTAAAAGACTTAAAAGGCTACAGCCGATTGGGAA
 GCCCATCTGTGCTGTTACCCTGCAGAGGAACTGAGGCTGTTCTGTGAGTTCTGTGACCGGCCCGTG
 TGCCAGGATTGTGTGGTGGGGAGCATCGGGAACACCCCTGTGACTTACCAGCAATGTCATCCACAAGC
 ATGGGGACTCTGTGTGGAGCTCCTCAAAGTACTCAGCCCCACGTGGAGGCCCTGGAGGAAGCCCTGGC
 TCAGATCCACATAATAAACAGTGCCTCCAGAAGCGAGTGGAGGCAGTGGCAGCTGATGTCCGGACATTC
 TCGGAGGGCTACATTAAGGCCATTGAGGAGCATCGGGACAAGCTGCTGAAGCAGCTGGAAGACATACGGG
 CCCAGAAGGAAAATTCCTGCAGCTGCAGAAGGCCAGCTGGAACAGTTACTGGCAGACATGCGGACTGG
 AGTGGAGTTCACCGAGCACTTGTGACAGCGGCTCAGACTTGGAGATCCTCATCAAGAGGGTGGT
 GTAGAACGGCTCAGGAAGCTGAACAAAGTTCAATATAGCACCCGCTCTGGAGTAAATGATAAGATACGCT
 TCTGTCTCAGGAGAAAAGCAGGCCAGTCCGCTGGCTATGAAATTTATGGTACGATTAATACCAAAGAGGT
 TGATCCAGCCAAATGTGCTTACAAGGAGAAGACCTCCACAGAGCCCGGAGAAAACAGACGGCCTTTTC
 ACCCTGCTTTGTAAGGATGCCGCAGGAGAAATCATGGGCAGGGGAGGAGACAACGTTCAAGTTGCCGTTG
 TCCCTAAAGATAAGAAAGACAGCCAGTCAGAACAATGGTCCAGGATAACAAGGATGGGACATACTACAT
 TTCCTACACCCCAAGGAACCTGGCGTCTATACTGTGTGGGTCTGCATCAAAGAACAGCATGTGCAGGGC
 TCGCCATTCACTGTGACGGTGGAGAGAAAGCACCGCCCACTCAGGCGTGTTCCTGCTGCACCTTCT
 GCTCCAGCGGGGCCAGAAAACCGCTCGCTGCGCCTGTGGAGGCACCATGCCAGGTGGGTACCTAGGCTG
 TGGCCATGGACACAAAGGCCACCAGGTATCCCCACTGGTCATGCTGTGAAAAATTAATGAGAAATCT
 GAATGCACATGGACAGGTGGGCAGAGCGCACCGAGGAGTCTACTTAGGACTGTGGCTCTC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215738 representing NM_025188
 Red=Cloning site Green=Tags(s)

MSENRPLLGFVSKLTSGTALGNSGKTHCPLCLGLFKAPRLLPCLHTVCTTCLEQLEPFVSVDIRGGSD
 TSSEGSIFQELKPRSLQSQIGILCPVCDQVDLPMGGVKALIDHLAVNDVMLESLRGEQGLVCDLOND
 REVEKRCQTCKANLCHFCCQAHRRQKTTYHTMVDLKDLDKYSRIGKPIICPVHPAEELRLFCEFCDRPV
 CQDCVVGHEHREHPCDFTSNVIHKHGDSVWELLKGTQPHVEALEEALAQIHIINSALQKRVEAVAADVRF
 SEGVIKAEIHRDKLLKQLEDIRAQKENSLLQKAQLEQLLADMRTGVEFTEHLLTSGSDLEILITKRVV
 VERLRKLNKVQYSTRPGVNDKIRFCPEQKAGQCRGYEITYGTINTKEVDPKCVLQGEDLHRAREKQTASF
 TLLCKDAAGEIMGRGDNVQVAVVPKDKKDSVVRTMVQDNKDGTYIISYTPKEPGVYTVWVICIHEQHVQG
 SPFTVTVRRKHRPHSGVFHCCTFCSSGGQKTARACGGTTPGGYLGCGHGHKGHPHPHWSCCGKFNKES
 ECTWTGGQSAPRSLLRVAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2876_e10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_025188

ORF Size: 1740 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_025188.2](#), [NP_079464.1](#)

RefSeq Size: 3584 bp

RefSeq ORF: 1743 bp

Locus ID: 80263

UniProt ID: [Q9H8W5](#)

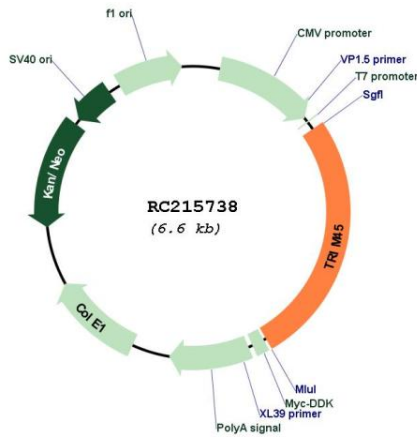
Cytogenetics: 1p13.1

Domains: zf-B_box, Filamin, RING, BBC

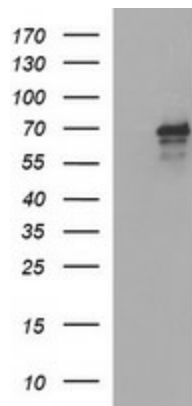
MW: 64.2 kDa

Gene Summary: This gene encodes a member of the tripartite motif family. The encoded protein may function as a transcriptional repressor of the mitogen-activated protein kinase pathway. Alternatively spliced transcript variants have been described.[provided by RefSeq, Mar 2009]

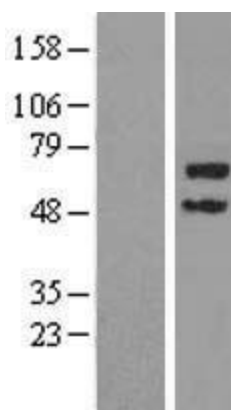
Product images:



Circular map for RC215738



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TRIM45 (Cat# RC215738, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TRIM45(Cat# [TA505917]). Positive lysates [LY410850] (100ug) and [LC410850] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY410850]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215738 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).