

Product datasheet for **RC211340**

TRIM50 (NM_178125) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM50 (NM_178125) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TRIM50
Synonyms:	TRIM50A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC211340 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

 ATGGCTTGGCAGGTGAGCTGCCAGAGCTGGAGGACCGCTTCAGTGTCCCATCTGCCTGGAGGTCTTCA
AGGAGCCCTGATGCTGCAGTGTGGCACTCTTACTGCAAGGGCTGCCTGGTTTCCCTGTCTGCCACCT
GGATGCCGAGCTGCGTTGCCCGTGTGCCGGCAGGCGGTGGACGCGAGCAGCTCCCTGCCAACGTCTCC
CTGGCCAGGGTGATCGAAGCCCTGAGGCTCCCTGGGGACCGGAGCCCAAGGTCTGCGTGCAACACCGGA
ACCCGCTCAGCCTTTTCTGCGAGAAGGACCAGGAGCTCATCTGTGGCTCTGCGGTCTGTGGGCTCCCA
CCAACACCACCGGTACGCCCCGTCTCCACCGTCTACAGCCGATGAAGGAGGAGCTCGCAGCCCTCATC
TCTGAGCTGAAGCAGGAGCAGAAAAAGGTGGATGAGCTCATCGCCAACTGGTGAACAACCGGACCCGAA
TCGTCAATGAGTCGGATGTCTTCAGCTGGGTGATCCGCCGCGAGTTCAGGAGCTGCACCACCTGGTGA
TGAGGAGAAGGCCGCTGCTGGAGGGGATAGGGGTACACCCGTGGCCTGGTGGCTCCCTGGACATG
CAGCTGGAGCAGGCCAGGGAACCCGGGAGCGGTGGCCCAAGCCGAGTGTGTGCTGGAACAGTTCCGGCA
ATGAGGACCACCAAGTTCATCCGGAAGTTCCTCCATGGCCTCCAGAGCAGAGATGCCGAGGCCCG
GCCCTTAGAAGGCGCATTCAGCCCCATCTCTTCAAGCCAGGCCTCCACCAGGCTGACATCAAGTGACC
GTGTGGAAAAGGCTCTTCGGAAAGTTTGGCAGCCCCGAGCCTCTCAAGTTGGACCCTGCCACTGCC
ACCCACTCCTGGAGCTCTCAAGGGCAACCGTGGTGCAGTGGGGCTTCTGGCCAGCGGCGAGCCAG
CCAGCCTGAGCGCTTCGACTACAGCACCTGCGTCTGGCCAGCGCGGCTTCTCTGCGGCCGCACTAC
TGGGAGGTGGTGGTGGGAGCAAGAGCGACTGGCGCTGGGGTTCATCAAGGGCAGCCAGCCGTAAGG
GCAAGCTGAACAGTCCCCGAGCAGCGGTGTGGCTGATCGGCTGAAGGAGGGCGGGTGTACGAAGC
CTTTGCTGCCCCGGGTACCCCTGCCCGTGGCCGGCCACCCCAACCGCATCGGGCTCTACCTGCACTAT
GAGCAGGGCGAACTCACCTTCTCGATGCCGACCGCCCGATGACCTGCGGCCGCTCTACACCTTCAGG
CCGACTTCAGGGCAAGCTTACCCCATCTGGACACCTGCTGGCACGAGAGGGGAGCAACTCGCTGCC
CATGGTGTGCCCCGCCAGCGGGCTGGCCCCCTCAGCCCCGAGCAGCCACCAAGCTG

 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211340 protein sequence

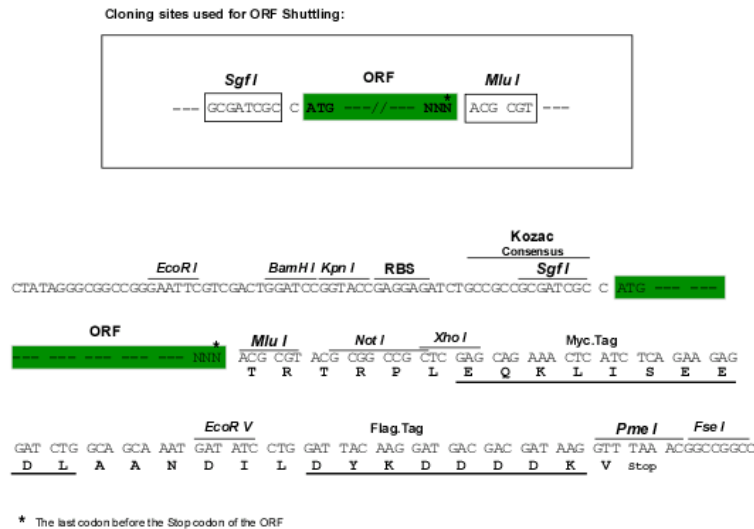
Red=Cloning site Green=Tags(s)

 MAWQVSLPELEDRLQCPICLEVFKEPLMLQCGHSYCKGCLVLSCHLDAELRCPVCRQAVDGSSSLPNVS
LARVIEALRLPGDPEPKVCVHHRNPLSLFCEKDQELICGLGLLGSHQHHPVTPVSTVYSRMKEELAALI
SELKQEQKKVDELI AKLVNNRTRIVNESDVF SWVIRREFQELHHLVDEEKARCLEIGGHTRGLVASLDM
QLEQAQGTRERLAQAEVLEQFGNEDHHKFIRKFHSMASRAEMPQARPLEGAFSPISFKPLHQADIKLT
VWKRLFRKVLPAPEPLKLDPATAHPLLELSKGNTVVQCGLLAQRRASQPERFDYSTCVLASRGFSCGRHY
WEVVVGSKSDWRLGVIKGTASRKGLNRSPEHGVWLIGLKEGRVYEAFACPRVPLPVAGHPHRIGLYLHY
EQGELTFDADRDDLRLPLYTFQADFQGLYPIIDTCWHERGSNSLPMVLPSPSGPGLSPEQPTKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:
https://cdn.origene.com/chromatograms/mk6844_b07.zip
Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_178125

ORF Size: 1461 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_178125.3](#), [NP_835226.2](#)

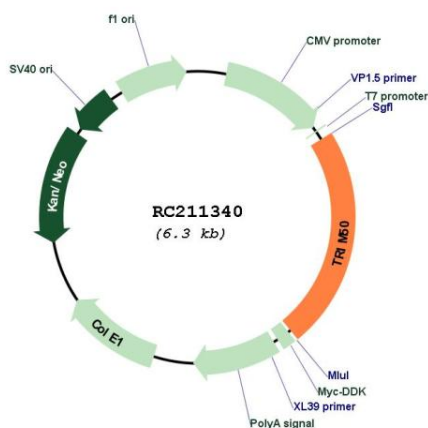
RefSeq Size: 2050 bp

RefSeq ORF: 1464 bp

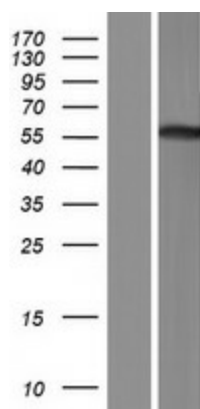
Locus ID: 135892

UniProt ID:	Q86XT4
Cytogenetics:	7q11.23
Protein Families:	Druggable Genome
MW:	54.7 kDa
Gene Summary:	E3 ubiquitin-protein ligase that ubiquitinates Beclin-1/BECN1 in a 'Lys-63'-dependent manner enhancing its binding to ULK1. In turn, promotes starvation-induced autophagy activation. Interacts also with p62/SQSTM1 protein and thereby induces the formation and the autophagy clearance of aggresome-associated polyubiquitinated proteins through HDAC6 interaction.[UniProtKB/Swiss-Prot Function]

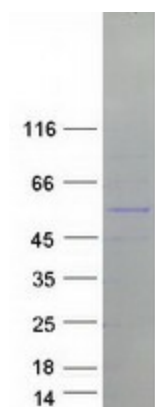
Product images:



Circular map for RC211340



Western blot validation of overexpression lysate (Cat# [LY406037]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211340 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRIM50 protein (Cat# [TP311340]). The protein was produced from HEK293T cells transfected with TRIM50 cDNA clone (Cat# RC211340) using MegaTran 2.0 (Cat# [TT210002]).