

Product datasheet for **RR201887**

Trim50 (NM_181080) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim50 (NM_181080) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim50
Synonyms:	MGC93065
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201887 representing NM_181080
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTGGCAGCTGACTGTGCCGGAATCCAGGACCAGCTGCAGTGTCCATTGCTGGAGGTCTTCA
 AAGAGCCTCTGATGCTTCAGTGTGGCCACTCCTACTGCAAGAACTGCCTGGATAGCTTGTCTGAACACCT
 GGATTCGAGCTGCGCTGTCTGTGTGTCGTCAGTCAGTTGACTGCAGCAGCTCCCCGCCTAATGTCTCC
 CTGGCCCGGGTGATCGATGCTCTGAGGCTCCCGGGGACACAGAGCCACCGTCTGCGTGCACCACCGAA
 ACCCTCTCAGCCTCTTTTGTGAGAAAGACCAGGAATTCATCTGTGGTCTCTGTGGCTGCTGGGCTCCCA
 CCAACACCACAGAGTCACACCACTCTCCACGGTCTACAGCCGATGAAGGAAGAGCTTGACGGCCGCTG
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 CAGGGTGAAGTACGTTCTTTGATGCTGACCGTCTGATGATCTTCGGGCACTCTACACTTTCCAGGCTG
 ACTTCCAGGGCAAGCTGTACCCTATCTGGACACATGCTGGCATGAGAGGGGAGCAACTCACTGCCCAT
 GGTACTGCCCCACCCAGTGGCCTGGCCACCTCACACGTGCACAGGTAGGTACTGCCCCACCCAGTGC
 GCCTGGCCACCTCACAGTGCACAGTA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201887 representing NM_181080
 Red=Cloning site Green=Tags(s)

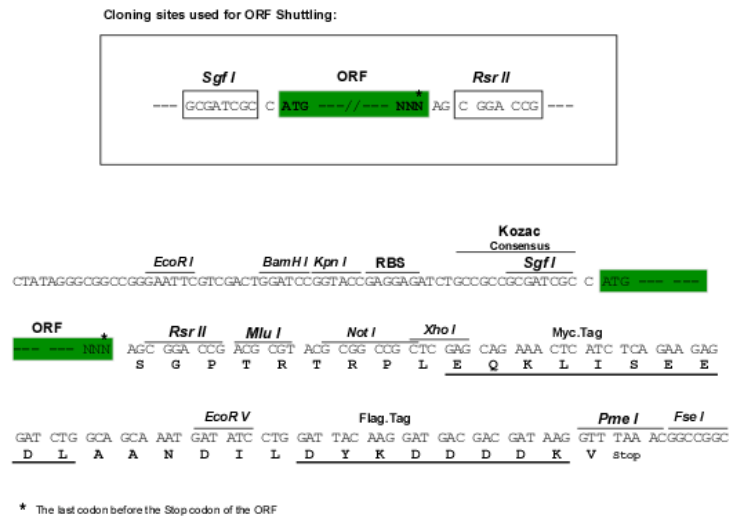
MAWQLTPPELQDQLQCPICLEVFKEPLMLQCGHSYCKNCLDSLSEHLDSELRCVPVCRQSVDCSSSPPNVS
 LARVIDALRLPGDTEPTVCVHHRNPLSLFCEKDQEFICGLCGLLGSHQHHRVTPVSTVSRMKEELAGRL
 SELKEQHRDVEEHIGKLVNNRTRIINESDVFSWVIRREFQELHHLVDEEKARCLEGVESHTRGLVASLDM
 QLEQAQGTQERLAQAERVLEQFGNESHHEFIRFHSITSRGEVQARPLEGVFSPISFKPALHQADIKLTV
 WKRLFRKVLPAPELKLDPATAHPLLELSKGNVTVHCGLLAQRRASQPERFDYSTCVLASKGFSWGRHYW
 EVVVGSKSDWRLGVIKGTASRGKLSKSPEHGVLIGLKEGRLYEAFCPRPLPVAGHPHRIGVYLHYE
 QGELTFDADRPDDLALYTFQADFQGLYPILDTCWHERGSNSLPMVLPPPSAPGHLTRAQVGTAPTQC
 AWPPTCTG

SGPTRTRPLE**QKLISEEDLA**ANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

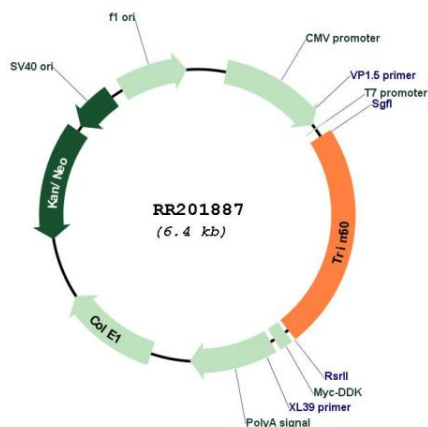
Cloning Scheme:



ACCN:	NM_181080
ORF Size:	1449 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 Size:	1452 bp
RefSeq ORF:	1452 bp
Locus ID:	288596
UniProt ID:	Q810L1
Cytogenetics:	12q12
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 RR201887