

Product datasheet for **RN201887**

Trim50 (NM_181080) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN201887 representing NM_181080
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTGGCAGCTGACTGTGCCGGAATCCAGGACCAGCTGCAGTGTCCATTGCTGGAGGTCTTCA
 AAGAGCCTCTGATGCTTCAGTGTGGCCACTCCTACTGCAAGAAGTGCCTGGATAGCTTGTCTGAACACCT
 GGATTCGAGCTGCGCTGTCTGTGTGTCGTCAGTCAGTTGACTGCAGCAGCTCCCCGCCTAATGTCTCC
 CTGGCCCGGGTGATCGATGCTCTGAGGCTCCCGGGGACACAGAGCCACCGTCTGCGTGCACCACCGAA
 ACCCTCTCAGCCTCTTTTGTGAGAAAGACCAGGAATTCATCTGTGGTCTCTGTGGCCTGCTGGGCTCCCA
 CCAACACCACAGAGTCACACCACTCTCCACGGTCTACAGCCGATGAAGGAAGAGCTTGACAGGCCGCTG
 TCTGAGCTGAAGGAGCAGCACAGGGACGTGGAGGAGCATTGGCAAAGTGGTCAACAACAGGACCCGGA
 TTATTAATGAGTCTGACGTCTTCAGCTGGGTGATCCGAAGAGAGTTCCAGGAGTTGCACCACCTGGTGA
 TGAAGAGAAAGCCCGCTGCCTGGAGGGGTGGAGAGCCACACGCTGGCCTGGTGGCCTCCCTGGACATG
 CAGCTGGAGCAGGCTCAGGGTACTCAAGAGCGACTGGCCCAAGCCGAGCGGGTGTGGAGCAGTTTGGCA
 ATGAGAGTCACCATGAGTTTCATCCGGTTTCACTCCATAACCTCCAGGGGAGAGGTCCAGCAGGCTCGGCC
 TTTGGAAGGCGTCTTCAGCCCCATCTCCTTCAAGCCCGCTCTCCACCAAGCTGACATCAAAGTACCGTG
 TGGAAGAGGCTATTCCGAAAGTTCTGCCAGCTCCAGAATCTCTCAAGCTGGACCCGGCTACTGCCACC
 CTCTCTGGAGCTCTCGAAGGGCAACACAGTGGTGCAGTGTGGCCTCTGGCCAGAGACGCGCCAGCCA
 ACCTGAGCGCTTTGACTACAGCACCTGTGTCTGGCTAGCAAGGGCTTCTCTGGGGTCGCCACTACTGG
 GAAGTGGTGGTGGGAGCAAGAGTGAAGTGGCGCTTGGGGTCATCAAGGGCACCAGCCAGCCGAAAGGCA
 AGCTGAGCAAGTCCCCAGAACATGGGGTATGGCTAATAGGCCTGAAAGAGGGTCGGCTGTATGAGGCTTT
 TGGCTGCCACCGCTGCCACTGCCGTGGCTGGCCACCCTCATCGCATTGGCGTCTACCTACACTATGAG
 CAGGGTGAAGTACGTTCTTTGATGCTGACCGTCTGATGATCTTCGGGCACTCTACACTTTCCAGGCTG
 ACTTCCAGGGCAAGCTGTACCCTATCTGGACACATGCTGGCATGAGAGGGGAGCAACTCACTGCCCAT
 GGTACTGCCCCACCCAGTGGCCTGGCCACCTCACACGTGCACAGGTA**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_181080

Insert Size: 1452 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_181080.1](#), [NP_851594.1](#)

RefSeq Size: 1452 bp

RefSeq ORF: 1452 bp

Locus ID: 288596

UniProt ID: [Q810I1](#)

Cytogenetics: 12q12

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]