

Product datasheet for **MG207510**

Trim16 (BC052821) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim16 (BC052821) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Trim16
Synonyms:	9130006M08Rik; AI482483; EBBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207510 representing BC052821
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGAAGTACTGTGAGGAGCACCTGCGGCCACACCAGGAGAACAGCAAAGTGCACAGCCACCAGCTAA
 CCGAACCCGCAAAGGACCAGGATCTACGCACCTGCCCTGCCACACAGCCCTTTGGTTTCTTCTGCCA
 CACGCACCAGCAGTGTATCTGCCAGGAATGCGGCGAGGGTGAACACAGAGGCGACAGTACTGTCTCCTTG
 GATGCAGCCCGCAGGAACAAAGAGGTGGACCTTCGGTGTATGCAGTTGGACCTGGAGCAGAAGCTTAAGT
 TGAATGAAAAATGCCATTGCCAGGCTCCAAGCTAACATAAGTCTGTTTTGGTGTCCGGTGTGAGAGGTGAA
 GGTGGTAGCTGAAGAGAAGTTTGGGAACTCCTCGCAGCTGTACGGAAGGCCAGGCAGATGTGATGGTC
 TTCCTAGAGGAGAAAAGAACAGGCTGCACCTGAATCAAGTCAACAGCATCAAAACCCATCTGGAGCACAGGA
 GCCTCGAGATGGAGAAAAGCAAGCAGGAGCTGGAGAGGCTGGCCGCCATCAGCAACTGTGCTGTTCTCT
 GGAGGAGTACTGCAAGCTCAAGAAGACAGAGGACTGCCTCCCCTAGCATTTACATAGGGCTGAAGGAC
 AAAGTCTCAGGCATCCGCAAGGTATCACAGATCAACTCTGAACTTGATCCAATTGCTAGAAAAGCTATA
 AGAAAAAGCTCCAGGAATTTTCCAGGGAAGAGGAATATGACATCAGAAGTCAAGTGTCTGCCATTGTCCA
 GCGCAAGTATAGGACCTCGAAACCTGAGCCAGAACCCGGGATGAGTTTCTTCAATATGCATGTGACATC
 ACGTTTGACCCAGACACAGCACAGGTACCTTCGCCTGCAGGAGGACAACCGCAAGGTACCAACACCA
 CGCCCTGGGAACACCCCTACCCGGACCTCCCCAGTAGATTTCTGCACTGGCGGCAGGTGTCTCCCAACA
 GAGCCTGTACCTGCACAGATATATTTTGGAGTGGAGCTCTCTGGAGGTGGCACCTATGTTGGCCTGACC
 TGCAAAGGCATTGACCGTAAGGGGGAGGAACGGAACAGCTGCATTTCTGGAATAGCTTCTCCTGGAGCA
 TCCATTGGAATGGGAAGGAGTTTACAGCCTGGCACAGTGACACAGAGACCCCGCTCAAGGCCAGCCCTT
 CAGAAGGCTCGGTATCTATGTAAGTCCAGGAGGAATCCTTTCTTCTATGGTGTAGAGTATGATGCT
 ATGACTCTGATTACAAGTTTGAATGCAAGTTCTCAGAGCCGGTCTATGCTGCTTCTGGCTGTCTAAGA
 AAGAAGACGCCATCCGGATTGTGGATCTGGGAGAGGAGCCCGAGAAGCCAGCTGGTCTCTGTGGAGGC
 TGCTCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207510 representing BC052821
 Red=Cloning site Green=Tags(s)

MVNYCEEHLRPHQENSKLHSHQLTEPAKDQDLRTCPAHHSPLVSFCHTHQQCICQCEGEGEHRGDSTVSL
 DAARRNKEVDLRMCMLDLEQKLKLNENAIARLQANHKSVLVSVSEVKVVAEEKFGELLA AAVRKAQADVMV
 FLEEKEQAALNQVNSIKTHLEHRSLEMEKSKQELERLAATISNTVLFLEEYCKLKKTEDTASPISIYIGLKD
 KLSGIRKVIDSTLNLIQLLESYKKKLQEF SREEEYDIRTQVSAIVQRKYRTSKPEPRTRDEFLOQACDI
 TFDPDTAHRYLRQLQEDNRKVTNTPWEHPYDLP SRFLHWRQVLSQQSLYLHRYFFEVELSGGGTYVGLT
 CKGIDRKG EERNSCISGNSFSWSIHWNGKEFTAWHSDTETPLKASPFRRLLGIYVNFPGGILSFYGVVEYDA
 MTLIHKFECKFSEPVYAAFWSKKEDAIRIVDLGEEPEKPAGSSVEAAP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC052821

ORF Size: 1407 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: [BC052821](#), [AAH52821](#)

RefSeq Size: 3644 bp

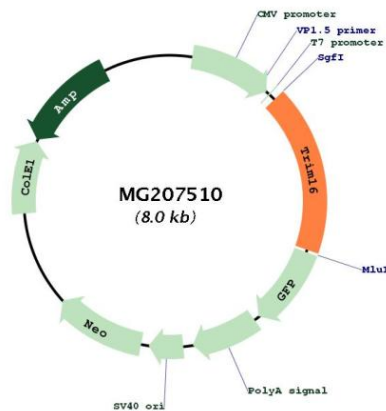
RefSeq ORF: 1409 bp

Locus ID: 94092

Cytogenetics: 11 B2

Gene Summary:

E3 ubiquitin ligase that plays an essential role in the organization of autophagic response and ubiquitination upon lysosomal and phagosomal damages. Plays a role in the stress-induced biogenesis and degradation of protein aggregates by regulating the p62-KEAP1-NRF2 signaling and particularly by modulating the ubiquitination levels and thus stability of NRF2. Acts as a scaffold protein and facilitates autophagic degradation of protein aggregates by interacting with p62/SQSTM, ATG16L1 and LC3B/MAP1LC3B. In turn, protects the cell against oxidative stress-induced cell death as a consequence of endomembrane damage. [UniProtKB/Swiss-Prot Function]

Product images:

Circular map for MG207510