

## Product datasheet for **MR207510**

### Trim16 (BC052821) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim16 (BC052821) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim16
Synonyms:	9130006M08Rik; AI482483; EBBP
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR207510 representing BC052821  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGAAGTACTGTGAGGAGCACCTGCGGCCACACCAGGAGAACAGCAAAGTGCACAGCCACCAGCTAA  
 CCGAACCCGCAAAGGACCAGGATCTACGCACCTGCCCTGCCACACAGCCCTTTGGTTTCTTCTGCCA  
 CACGCACCAGCAGTGTATCTGCCAGGAATGCGGCGAGGGTGAACACAGAGGCGACAGTACTGTCTCCTTG  
 GATGCAGCCCGCAGGAACAAAGAGGTGGACCTTCGGTGTATGCAGTTGGACCTGGAGCAGAAGCTTAAGT  
 TGAATGAAAATGCCATTGCCAGGCTCCAAGCTAACATAAGTCTGTTTTGGTGTGCGGTGTGAGAGGTGAA  
 GGTGGTAGCTGAAGAGAAGTTTGGGAACTCCTCGCAGCTGTACGGAAGGCCAGGCAGATGTGATGGTC  
 TTCCTAGAGGAGAAAAGACAGGCTGCACCTGAATCAAGTCAACAGCATCAAAACCCATCTGGAGCACAGGA  
 GCCTCGAGATGGAGAAAAGCAAGCAGGAGCTGGAGAGGCTGGCCGCCATCAGCAACTGTGCTGTTCTCT  
 GGAGGAGTACTGCAAGCTCAAGAAGACAGAGGACTGCCTCCCCTAGCATTTACATAGGGCTGAAGGAC  
 AAAGTCTCAGGCATCCGCAAGGTATCACAGATCAACTCTGAAGTTCGATCCAATTGCTAGAAAAGCTATA  
 AGAAAAAGCTCCAGGAATTTTCCAGGGAAGAGGAATATGACATCAGAAGTCAAGTGTCTGCCATTGTCCA  
 GCGCAAGTATAGGACCTCGAAACCTGAGCCAGAACCCGGGATGAGTTTCTTCAATATGCATGTGACATC  
 ACGTTTGACCCAGACACAGCACAGGTAACCTTCGCCTGCAGGAGGACAACCCGCAAGGTACCAACACCA  
 CGCCCTGGGAACACCCCTACCCGACCTCCCCAGTAGATTTCTGCACTGGCGGCAGGTGCTGTCCCAACA  
 GAGCCTGTACCTGCACAGATATTATTTGAGGTGGAGCTCTCTGGAGGTGGCACCTATGTTGGCCTGACC  
 TGCAAAGGCATTGACCGTAAGGGGGAGGAACGGAACAGCTGCATTTCTGAAAATAGCTTCTCCTGGAGCA  
 TCCATTGGAATGGGAAGGAGTTACAGCCTGGCACAGTGACACAGAGACCCCGCTCAAGGCCAGCCCTT  
 CAGAAGGCTCGGTATCTATGTAAGTCTCCAGGAGGAATCCTTTCTTCTATGGTGTAGAGTATGATGCT  
 ATGACTCTGATTCAAGTTTGAATGCAAGTTCTCAGAGCCGGTCTATGCTGCTTCTGGCTGTCTAAGA  
 AAGAAGACGCCATCCGGATTGTGGATCTGGGAGAGGAGCCCGAGAAGCCAGCTGGTCTCTGTGGAGGC  
 TGCTCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207510 representing BC052821  
 Red=Cloning site Green=Tags(s)

MVNYCEEHLRPHQENSKLHSHQLTEPAKDQDLRTCPAHHSPLVSFCHTHQQCICQECGEGEHRGDSTVSL  
 DAARRNKEVDLRCMQLDLEQKLNENAIARLQANHSVLSVSEVKVVAEEKFGELLAAYRKAQADVMV  
 FLEEKEQAALNQVNSIKTHLEHRSLEMEKSKQELERLAASNTVLFLEEYCKLKKTEDTASPSIYIGLKD  
 KLSGIRKVIDSTLNLIQLLESYKKLQEFSSREEEYDIRTQVSAIVQRKYRTSKPEPRTRDEFLLQYACDI  
 TFDPTAHRYLRQLQEDNRKVTNTPWEHPYDLP SRFLHWRQVLSQQLYLHRYFFLEVELSGGGTYVGLT  
 CKGIDRKGEERNSCI SGNFSWSIHWNGKEFTAWHSDTEPLKASPFRRLLGIYVNFPGGILSIFYGVEYDA  
 MTLIHKFECKFSEPVYAAFWLSKKEDAIRIVDLGEEPEKPAGSSVEAAP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

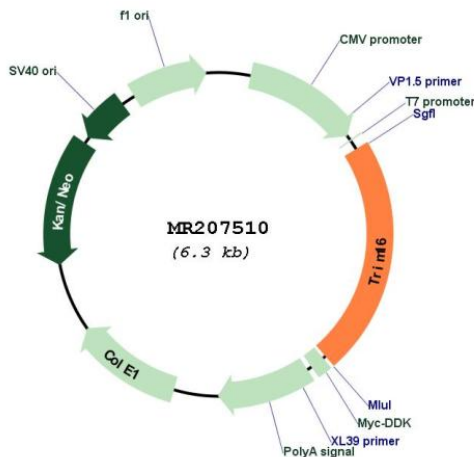
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">BC052821</a></u> , <u><a href="#">AAH52821</a></u>
<b>RefSeq Size:</b>	3644 bp
<b>RefSeq ORF:</b>	1409 bp
<b>Locus ID:</b>	94092
<b>Cytogenetics:</b>	11 B2
<b>MW:</b>	133.5 kDa
<b>Gene Summary:</b>	<p>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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>