

## Product datasheet for **MR210354**

### Trim56 (NM\_201373) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim56 (NM_201373) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim56
Synonyms:	A130009K11Rik; Gm452; RNF109
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR210354 representing NM\_201373  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACTCCAAGACTCCTCCCAACTCTGCTGGAAGCTCTGAGCAGCGATTTCTAGCCTGTAATACT  
 GCCTGGAGCAGTTACACACACCCAAGACTCTGCCATGCCTACATACCTATTGCCAGGACTGTCTGGCACA  
 ACTGGACATCGGTGGTCAGGTCGCCCTGCCCGAGTGTGGGAGATTGTGCCTGTACCCGCGGAAGGGGTG  
 GCCGCCTTAAAGACCAACTTCTTTGTCAATGGGCTCTTGATCTTGTCAAGGCCAGAGCTCCCGGAGACG  
 TCCATTACAGGAAGCCAACCTTGCCTCTGTGCCCTCTGGTGGGAGGCAAGAGCTCTGGGGACCCGCCAC  
 AGCCAGGTGCCTGGACTGTGCCGACGACTTATGCCAGGCTGTGCCGATGGGCATCGCTGCTCCCGGACG  
 ACCCATAAGCACCGTGTCTTACTTGGTGGGTTACAGAGCCGGTGGTATGATGAAGAGGCTCGAGAGC  
 GCCAGGCGTCCCAGTGTCCCAGCACCCAGGGGAAGCCCTCTGCTTCTCTGTCAACCTTGTCTCAGTT  
 GCTCTGCAAGGATTGCCGCTGGTCCCATATCGATCACCCCTGCTTCCCCTAGCGGAAGCAGTGCCT  
 TCCAGGAAGCCAGGCCTTGGAGGTTATTGGCAGGTGTGGACAGCAATCTGGTGGAGCTAGAAGCCACTC  
 GGGTGGCAGAAAAGGAAGCCCTGGCCTTCTCGGGAGCAGGCAGCCAGTGTGGGACTCAGGTGGAGGA  
 GGCAGCTGAACGAATCCTCAAGTCCCTGCTGGCCAGAAGCAGGAAGTGTGGGACAACCTCCGGGCCCTT  
 GTGGAGGCTGCTGAGGAGGCTACCAGGGAGAGGTTGACAAAAATAGAGCGCCAGGAGCAGGTGGCCAAGG  
 CGGCGGCTGCCTTTGCCCGTCGAGTGTCTCAGCTTGGGTCTAGAGGCCGAGATCCTTTGCTGGAGGGAGC  
 AATCACACAGCGCCTGCCAGCTTCAGGATGCTCCCTGGAGCTGTGGGCCACCCGCTGTGTGTGCC  
 CAGCTAGAGCTCCATCCCGGGCTCGAGGACAAGAACTGCCACCTGCTCCGACTCATCTTTGAGGAGCCTA  
 AACAAATCCCGAAGGACAGCGGGAAGGGTGGGCTGGTACCAAGGAGGGGATGAAGCTCAAGGCCAAGG  
 GGACGATAGAACCAAGATAGGGAAGCAGGGTGGAGCCAGCCCTGACTCCCAAAGAAGGCAAGACCAG  
 AACCCCAAGAAGATGATGGGGTCTTATCGAAAAGGGTAAACAGGCCAACAAGAAGAAGTGAAGG  
 GCAGAGGCAAGTCTGTTTCTCGGGAGCCAGCCCATCTGAGGCCAAACCTAGAAGGTTCCGGCCTCCT  
 CCCTCGGCTGTGTTTTCTGGAGTTTCCCACGAGGATGCCCGGGACAAGCGCTCCCCTCGCATCACT  
 GGACTCTGTCCCTACGGCCCCAGGAAATCTTGGTGGCAGATGAGCAGAACAGGGTCTTGAACGCTTCT  
 CCCTCAATGGGGACTACAAAGGCACAGTGCAGGTCGCCGAGGGCTTCCCCTGCAGCGTGGCTGCCCT  
 GCAGAATGCAGTGGCTTCTCTGCCAATGCAAACTCTATCTTGTGAGTCTGACGGAGAAATTCAGTGG  
 CGCAGGTCCTGAGCCTACCCAGTCCAGCCACCGGTGGCCGCAATGCCATGTGGAGACCGAGTAGCTG  
 TCAGTGTGGCAGGCCATGTGGAGGTATACAAGAAAGATGGCAGCCTGGCTACCCGCTTTATCCCTGGAGG  
 CAAGGCTAGCCGGGGCCAGCGGGCACTGGTGTTCCTAACCCAGCCCCAGGGCAATTTGTAGGGTCA  
 GATTGGCAGCAGAATAGCGTGGTTTTCTGTGATGGGTTAGGTGAGGTGATCTGGGAATACAGGGCCCTG  
 GGTTACATGGCTGCCAGCCAGGTTCTGTGTCTGTGGATAAGAAGGGTACATATTTCTGACCCCTCGAGA  
 GGTAAACAAGGTGGTACTGGATCCCAAGGGTCACTTCTTGGTACTTCTAACAGCATACCATGGC  
 CTGGAAAAGCCCCGGTAACCACCATGGTAGACGGCAAGTACTTGGTGGTGTCACTTAGCAATGGGACCA  
 TCCATGTCTTTAGGGTCAAGTTCCTGACAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210354 representing NM\_201373  
Red=Cloning site Green=Tags(s)

MNSKSSPTLLEALSSDFLACKICLEQLHTPKTLPCLHTYCQDCLAQLDIGGQVRCPECREIVPVAEGV  
 AAFKTNFFVNGLLDLVKARAPGDVHSGKPTCALCPLVGGKSSGGPATARCLDCADDLCQACADGHRCSRQ  
 THKHRVVDLVGYRAGWYDEEARERQASQCPQHPGEALCFLCQPCSQLLCKDCRLGPHIDHPCLPLAEAVR  
 SRKPGLEELLAGVDSNLVELEATRVAEKEALALLREQAASVGTQVEEAERILKSLLAQKQEVLGQLRAL  
 VEAEEATRERLTKIERQEQAFAAFARRVLSLGLEAEILSLEGAITQRLRQLQDAPWTS GPTRCVLP  
 QLELHPGLEDKNCHLLRLIFEFPKQSPKDSGKGGAGTQGGDEAQGGDDRTKIGKQGAQPLTPKEGKDQ  
 NPQEDDGVFIERNRPNKKKCKGRKSVSREPSPILRPNLEGSGLLPRPVFWSFPTRMPGDKRSPRIT  
 GLCPYGPQEILVADEQNRVLKRFSLNGDYKGTQVPEGCSPCSVAALQNAVAFSANAKLYLVSPDGEIQW  
 RRSLSLTQSSHAVAAMP CGDRVAVSVAGHVEVYKKGSLATRFIPGGKASRGQRALVFLTTPSQGNFVGS  
 DWQONSVVFC DGLQVIWEYKGPLHGCQPGSVSVDKKGYIFLTLREVNVVILDPKGSLLGDFLTAYHG  
 LEKPRVTMVDGKYL VVSL SNGTIHVFRVRF PDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9048\\_c10.zip](https://cdn.origene.com/chromatograms/mm9048_c10.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_201373

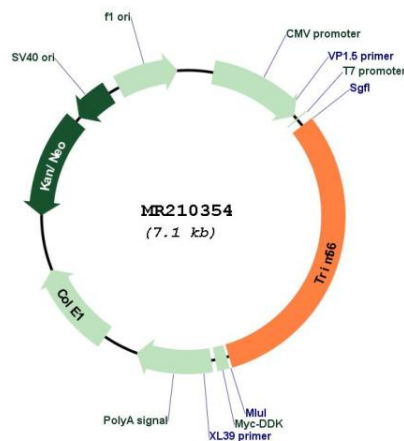
**ORF Size:** 2202 bp

**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.

<b>Components:</b>	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="#">NM_201373.4</a></u> , <u><a href="#">NP_958761.1</a></u>
<b>RefSeq Size:</b>	3637 bp
<b>RefSeq ORF:</b>	2205 bp
<b>Locus ID:</b>	384309
<b>UniProt ID:</b>	<u><a href="#">Q80V11</a></u>
<b>Cytogenetics:</b>	5 G2
<b>MW:</b>	80 kDa
<b>Gene Summary:</b>	E3 ubiquitin-protein ligase that plays a key role in innate antiviral immunity. In response to pathogen- and host-derived double-stranded DNA (dsDNA), targets TMEM173/STING to 'Lys-63'-linked ubiquitination, thereby promoting its homodimerization, a step required for the production of type I interferon IFN-beta. Independently of its E3 ubiquitin ligase activity, positive regulator of TLR3 signaling. Potentiates extracellular double stranded RNA (dsRNA)-induced expression of IFNB1 and interferon-stimulated genes ISG15, IFIT1/ISG56, CXCL10, OASL and CCL5/RANTES (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210354