

## Product datasheet for **MC221188**

### **Ticam1 (NM\_174989) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ticam1 (NM_174989) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ticam1
Synonyms:	AW046014; AW547018; TICAM-1; TRIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC221188 representing NM\_174989  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATAACCCAGGGCCTTCGCTCCGTGGTGCCTTTGGCATTCTAGGTGCCTTGGAAAGGGACAGGCTGA  
 CCCACCTGAAACACAAGCTGGGGAGTCTGTGTTACGGCAGCCAGGAGTCAAAGCTTCTCCATGCCATGGT  
 ACTCCTGGCTCTGGGCCAGGACACGGAGGCCAGGGTCTCTCTGGAGTCCCTGAAGATGAACACAGTAGCC  
 CAGCTGGTAGCCACCAGTGGGCAGACATGGAGACCACAGAGGGCCCTGAGGAGCCTCCAGACTTGTCT  
 GGACGGTGGCTCGCTGTACCACCTGCTGGCTGAGGAGAACCTGTGTCCGGCCTCCACAAGGACATGGC  
 TTACCAGTGGCCCTTCGTGACTTTGCCTCCAGGGTACCACCAGTGGGCCAACTCCAGAATGAGGCC  
 TGGGATCGGTGCAGTTCAGATATCAAGGGGGACCCAGTGGTTTCCAGCCACTCCATTCTCATCAGGGTT  
 CCCTGCAGCCACCTTCAGCATCCCCTGCAGTGACCAGAAGCCAGCCTCGTCCATTGACACACCAGACTG  
 GAGTTGGGGACATACGTTACACTCCACCAACAGCACTGCCTCACTGGCCAGCCACCTAGAGATCAGCCAG  
 TACCCACTCTTGCCCTTCTCTTTCACACCATGGAACCCATGGGCCAGCAAGCTATGTAACACACCCGC  
 TGGACTCAGGAGCCTCAGCTTGTCCCTGAAGGCTGCCAAGAACCTGAGGAGATAAGCTGGCCTCCATC  
 AGTGGAGACCAGTGTCTCCTTAGGGTTACCACACGAAATTAGCGTTCCAGAGGTGTCTCCAGAGGAGGCT  
 TCGCCCATCCTCCCTGACGCCCTGGCTGCTCCAGACACAAGTGTCCACTGTCCCATTGAATGCACAGAGT  
 TGTCTACAAACTCCAGGTCTCCCTGACGTCCACCACAGAAAGTGTGGAAAGCAGTGGCCTATTACAAG  
 TCAGAGGTCACCTCAGGTTCTGTAGGAGATGATTCTCTGCAGAACACCAGTTCATCCAGCCCTCCTGCC  
 CAGCCACCATCCCTCAAGCCTCCCTAAGCTGCCTCTCCCTCTGTCTCTGCTTCTCCCTCCCGAGCA  
 GCTACCTGCTCCTCAACCTCCACATCCCCTGTTTTGGACCCTCAGAAACATCTGATCAGAAATTCTA  
 TAACTTTGTGGTTATCCATGCCAGGGCTGATGAACAGGTGGCCCTACGTATTCGGGAGAAGCTGGAGACC  
 CTCGGGGTACCTGACGGGGCCACCTTCTGTGAGGAATTCAGGTGCCCGGGCGTGGTGGAGCTGACTGTC  
 TCCAAGATGCCATCGATCACTCGGGGTTACAGTCTGCTCCTGACTGCTAGCTTTGATTGCAGCCTGAG  
 CCTGCATCAAATCAACCATGCTCTCATGAACAGCCTTACACAGTCTGGGAGGCAGGACTGTGTGATCCCC  
 CTCCTCCACTTGAGTGTCTCAGGCCAGCTCAGCCAGATAACAACAGACTGCTCCACAGCATTGTGT  
 GGCTGGATGAACACTCCCAATCTTCGCCAGAAAGGTGGCAAACACCTTCAAGACACAGAAGCTCCAGGC  
 ACAGCGGGTACGCTGGAAGAAAGCGCAGGAGGCCAGAACCCTCAAGGAGCAGAGCATAACAGTGGAGGCA  
 GAGCGGCAAAACGTGGCAGCCATATCTGCTGCCTACACAGCCTATGTCCATAGCTATAGGGCCTGGCAAG  
 CAGAGATGAACAACTTGGGGTGGCTTTTGGGAAGAACTGTCACTGGGGACTCCAAACCCAGCTGGCC  
 CGGATGTCCACAGCCAATACCTTCTCATCCTCAGGGTGGTACTCCAGTTTTCCCTATTCCCCACAGCCT  
 CCATCCTTCCCTCAGCCTCCATGCTTCCCTCAGCCTCCATCCTTCCCTCAGCCTCCATCCTTCCACTGC  
 CTCCAGTCTTCCCCACAGTCCCAATCCTTCCATCAGCCTCCTCCCCAGCCCCACAGACTCCAGGACC  
 TCAGCCTCTATTATCCACATGCCAGATGGTTCAGCTGGGTGTCAACAATCACATGTGGGGCCACACA  
 GGGGCCAGTCACTGATGACAAGACTGAGTGTTCGGAGAACCCTGTATGGGCCCTCTGACTGATCAGG  
 GCGAACCCCTTCTTGAGACTCCAGAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_174989

**Insert Size:** 2199 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).

<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>	<a href="#">NM_174989.4</a> , <a href="#">NP_778154.1</a>
<b>RefSeq Size:</b>	2852 bp
<b>RefSeq ORF:</b>	2199 bp
<b>Locus ID:</b>	106759
<b>UniProt ID:</b>	<a href="#">Q80UF7</a>
<b>Cytogenetics:</b>	17 D
<b>Gene Summary:</b>	Involved in innate immunity against invading pathogens. Adapter used by TLR3, TLR4 (through TICAM2) and TLR5 to mediate NF-kappa-B and interferon-regulatory factor (IRF) activation, and to induce apoptosis (PubMed:12855817, PubMed:16002681, PubMed:21703541). Ligand binding to these receptors results in TRIF recruitment through its TIR domain (PubMed:12855817, PubMed:16002681, PubMed:21703541). Distinct protein-interaction motifs allow recruitment of the effector proteins TBK1, TRAF6 and RIPK1, which in turn, lead to the activation of transcription factors IRF3 and IRF7, NF-kappa-B and FADD respectively (PubMed:12855817, PubMed:16002681, PubMed:21703541). Phosphorylation by TBK1 on the pLxIS motif leads to recruitment and subsequent activation of the transcription factor IRF3 to induce expression of type I interferon and exert a potent immunity against invading pathogens (By similarity). Component of a multi-helicase-TICAM1 complex that acts as a cytoplasmic sensor of viral double-stranded RNA (dsRNA) and plays a role in the activation of a cascade of antiviral responses including the induction of proinflammatory cytokines (PubMed:21703541).[UniProtKB/Swiss-Prot Function]