

## Product datasheet for RC228121

### TICAM2 (TMED7-TICAM2) (NM\_001164469) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TICAM2 (TMED7-TICAM2) (NM\_001164469) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TICAM2  
**Synonyms:** MyD88-4; TICAM-2; TICAM2; TIRAP3; TIRP; TRAM  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC228121 representing NM\_001164469  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGCGCCGGGTCCGCGCAGCGCTGGGCGGCCGTCGCGGGCCGTTGGGGTGCAGGCTGCTCGCAC  
 TGCTGCTACTGGTGCCTGGACCCGGCGGCCTCTGAGATCACCTTCGAGCTTCTGACAACGCCAAGCA  
 GTGCTTCTACGAGGACATCGCTCAGGGACCAAGTGCACCCTGGAGTTCAGGTGATTACTGGTGGTCAC  
 TATGATGTAGATTGTCGATTAGAAGATCCTGATGGTAAAGTGTATACAAAGAGATGAAGAAACAGTATG  
 ATAGTTTTACCTCACAGCCTCCAAAAATGGGACATACAAATTTGCTTCAGCAATGAATTTCTACTTT  
 CACACATAAACTGTATATTTGATTTCAAGTTGGAGAAGACCCACCTTTGTTTCCTAGTGAGAACCGA  
 GTCAGTGTCTTACCCAGATGGAATCTGCCTGTGTTTCAATTCACGAAGCTCTGAAGTCTGTATCGATT  
 ATCAGACTCATTCCGTTAAGAGAAGCTCAAGGCCGAAGCCGAGCAGAGGATCTAAATACAAGAGTGGC  
 CTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC228121 representing NM\_001164469  
 Red=Cloning site Green=Tags(s)

MPRPGSAQRWAAVAGRWGCRLLALLLVPGPGGASEITFELPDNAKQCFYEDIAQGTKCTLEFQVITGGH  
 YDVDCRLEDPDGKVLKEMKKQYDSFTFTASKNGTYKFCFSNEFSTFTHKTVYDFQVGEDPPLFPSENR  
 VSALTQMESACVSIHEALKSVIDYQTHFRLREAQGRSRAEDLNTRVAY

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**



**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1255\\_a02.zip](https://cdn.origene.com/chromatograms/ja1255_a02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001164469

**ORF Size:** 564 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:** [NM\\_001164469.3](#), [NP\\_001157941.1](#)

**RefSeq ORF:** 567 bp

**Locus ID:** 100302736

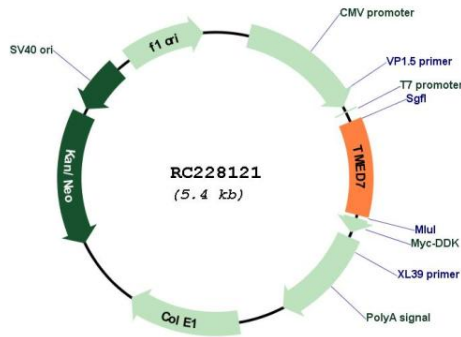
**UniProt ID:** [Q86XR7](#)

**Cytogenetics:** 5q22.3

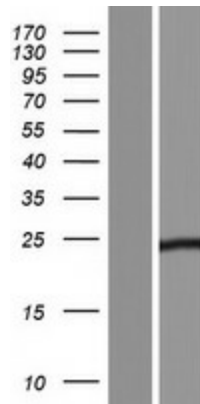
**MW:** 21.1 kDa

**Gene Summary:** This locus represents naturally occurring read-through transcription between the neighboring transmembrane emp24 protein transport domain containing 7 (TMED7) and toll-like receptor adaptor molecule 2 (TICAM2) genes. Alternative splicing results in multiple transcript variants, one of which encodes a fusion protein that shares sequence identity with the products of each individual gene. This fusion product functions to negatively regulate the adaptor MyD88-independent toll-like receptor 4 pathway. [provided by RefSeq, Nov 2010]

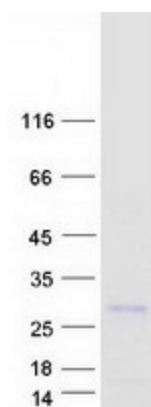
**Product images:**



Circular map for RC228121



Western blot validation of overexpression lysate (Cat# [LY431149]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228121 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMED7-TICAM2 protein (Cat# [TP328121]). The protein was produced from HEK293T cells transfected with TMED7-TICAM2 cDNA clone (Cat# RC228121) using MegaTran 2.0 (Cat# [TT210002]).