

Product datasheet for **MG226264**

Ticam2 (NM_173394) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ticam2 (NM_173394) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ticam2
Synonyms:	B430113A10; TICAM-2; Tirp; TRAM; Trif
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226264 representing NM_173394 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGTTGGGAAGTCTAAACTAGATAAGTGCCCCCTTTCTTGGCATAAAAAAGACAGTGTGGATGCCG
ATCAAGACGGCCATGAGTCAGACTCCAAGAATTCTGAGGAAGCCTGCTTGCGTGGTTTTGTGGAGCAGAG
CAGTGGATCAGAGCCACCAACAGGAGAGCAGGACCAACCTGAGGCAAAGGGGGCGGGCCTGAGGAGCAA
GATGAAGAAGAGTTCCTCAAATTTGTGATACTTCATGCAGAAGATGACACCGACGAGGCCCTCAGAGTCC
AGGATCTACTGCAAACGACTTTGGTATCAGGCCGGGATCGTTTTCGCCGAGATGCCGTGCGGAAGACT
GCATTTGCAGAATCTAGACGATGCGGTCAATGGGTCGGCCTGGACCATCTTGTTACTGACTGAGAACTTC
CTAAGAGACACCTGGTGTAACTTCCAGTTCTACACTTCCCTGATGAATCTGTGAGCAGGCAGCACAAAGT
ACAACCTCCGTCATACCCATGCGGCCCTGAACAGCCCTTTCCCGGGAACGGACTCCCTTGGCGTGC
AACCATCAATGCCTTAGAGGAAGAAAGCAAGGCTTTCCACACAAGTGGAGAGAATTTCCGGGAGTCT
GTATTTGAGAGGCAACAAAGTATATGAAAGAGACACGAAGTGTGTCGCAGAAACAGTTCATTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226264 representing NM_173394
 Red=Cloning site Green=Tags(s)

MGVGKSKLTKCPLSWHKKDSVDADQDGHESDSKNSEEAACLRGFVEQSSGSEPPTGEQDQPEAKGAGPEEQ
 DEEEFLKFVILHAEDDTDEALRVQDLLQNDFGIRPGIVFAEMPCGRLHLQNLDDAVNGSAWTILLTENN
 LRDTWCNFOFYTSLMNSVSRQHKYNSVIPMRPLNSPLPRERTPLALQTINALEEESQGFSTQVERIFRES
 VFERQQSIWKETRVSQKQFIA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173394

ORF Size: 696 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_173394.3](#), [NP_775570.1](#)

RefSeq Size: 3264 bp

RefSeq ORF: 699 bp

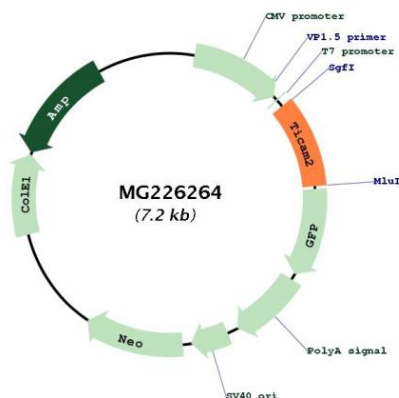
Locus ID: 225471

UniProt ID: [Q8BJQ4](#)

Cytogenetics: 18 C

Gene Summary: Functions as sorting adapter in different signaling pathways to facilitate downstream signaling leading to type I interferon induction. In TLR4 signaling, physically bridges TLR4 and TICAM1 and functionally transmits signal to TICAM1 in early endosomes after endocytosis of TLR4. In TLR2 signaling, physically bridges TLR2 and MYD88 and is required for the TLR2-dependent movement of MYD88 to endosomes following ligand engagement. Involved in IL-18 signaling and is proposed to function as a sorting adapter for MYD88 in IL-18 signaling during adaptive immune response. Forms a complex with RAB11FIP2 that is recruited to the phagosomes to promote the activation of the actin-regulatory GTPases RAC1 and CDC42 and subsequent phagocytosis of Gram-negative bacteria.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226264