

Product datasheet for **MC207861**

Tifa (NM_145133) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tifa (NM_145133) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tifa
Synonyms: T2bp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC207861 representing NM_145133
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCCACCTTTGAAGACGCTGATACAGAGGAGACGGTCACTTGTCTCCAGATGACCATTACCATCCTG
GCCAACAAAGTGGGATATTTAAATCAATAAGGTTTTGCAGCAAAGAGAAGTTTCCTTCCATTGAAGTGGT
GAAATTTGGACGCAATCCAACATGTGCCAGTATACGTTTCAGGACAAACAGGTGTCCCGAATTCAGTTT
GTTTTACAGCCGTTTAAACAGTTCAACAGCTCCGTTCTCTCGTTTGAAATAAAAAACATGAGCAAGAAAA
CCAGTTTGATGGTAGACAACCAGGAGCTCGGCTACCTCAATAAAATGGACCTGCCTTACAAGTGTATGCT
CAGGTTCCGGAGAGTATCAGTTCCTGTTGCAGAAGGAAGACGGAGAGTCCGGTGGAACTTTTGGAGACTCAA
TTTATCATGTCTTCAAGACCTCTCTTGCAAGAAAACAACTGGCCAACACAGAATCCCATACCAGAGGATG
GGATGTATTCTTCATACTTCAACCCACAGAAGTTCTCCTTCAGAAATGGATGAAAACGAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_145133
Insert Size: 555 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).



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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:	<ol style="list-style-type: none">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:	<u>NM_145133.3</u> , <u>NP_660115.1</u>
RefSeq Size:	2164 bp
RefSeq ORF:	555 bp
Locus ID:	211550
UniProt ID:	<u>Q793I8</u>
Cytogenetics:	3 G2
Gene Summary:	Adapter molecule that plays a key role in the activation of proinflammatory NF-kappa-B signaling following detection of bacterial pathogen-associated molecular pattern metabolites (PAMPs) (PubMed:11798190). Promotes activation of an innate immune response by inducing the oligomerization and polyubiquitination of TRAF6, which leads to the activation of TAK1 and IKK through a proteasome-independent mechanism (By similarity). TIFA-dependent innate immune response is triggered by ADP-D-glycero-beta-D-manno-heptose (ADP-Heptose), a potent PAMP present in all Gram-negative and some Gram-positive bacteria: ADP-Heptose is recognized by ALPK1, which phosphorylates TIFA at Thr-9, leading to TIFA homooligomerization and subsequent activation of proinflammatory NF-kappa-B signaling (By similarity).[UniProtKB/Swiss-Prot Function]