

Product datasheet for **MC215967**

Tank (NM_011529) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tank (NM_011529) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tank
Synonyms:	C86182; E430026L09Rik; I-TRAF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC215967 representing NM_011529
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTTTAAAGAGACATAGTCTGCGAAGGAACGCCTGTCACCTGGAGACGAGAGCTGGCATTCCCTACCA
 TCCTTTATAGTATGCTACAGGACAAAGAGGAATGGATAAAAACATTGGTGAGCAACTCAATAGAGCATA
 TGAAGCCTTCCGACAGGCATGCATGGATAGAGATTTCAGCAGTAAGAGAGCTACAGCAAAAGCAGACTGAG
 AACTATGAACAAAGAATACGCGAGCAACAGGAACAGCTGTCAATTCACAAAACCTAATTGACAGGCTGA
 AATCACAGCTACTTCTCGTGGATTCTAGTCGAGATAACAGTTATGGCTATGTACCTTTGCTTGAAGACAG
 TGACAGAAGGAAGAATAATTTGACCCTTGATGAACCACATGATAAAGTAAAAGTAACTAGGAACACTGAGAGAT
 AAGCAATCAAAGGTGAGACGACAAGAAGTTTCTCTGGAAAAGAATCCGCCAAGGGTCTCAACATCCCTC
 TGCATCACGAAAGGATAATATAGAGAAGACTTTCTGGGACCTTAAAGAAGAATTCATAGGATTTGCTT
 GCTAGCAAAAGCAGAAAAGATCACTTAAGCAAACCTAATATACCAGATATTGCAACTGACACACAGTGT
 TCTGTGCCTATACAGTGTACTGATAAAACAGAGAAACAAGAAGCGCTGTTTAAAGCCCAGGCTAAAGATG
 ATATAAATAGAGGTATGTCGTGCGTCACAGCTGTCACACCAAGAGGACTGGGCCGGGATGAGGAAGATAC
 CTCTTTTGAATCACTTTCTAAATTCATGTCAAGTTTCCGCTATGGACAATGACTCTATTTTTTCTACAT
 AGCACTCCAGAGGCCCGGAGCATCCTTGCTCCTGCCACACCTGAGACAGTGTGCCAGGACCGATTAAATA
 TGGAAAGTCAGAGACAACCCAGGAAACTTTGTTAAAACAGAAAGAACTTTATTTGAAATTCAGGGAATTGA
 CCCATAACTTCAGCTATACAAAACCTTAAAACAACCTGACAAAACAACCCCTCAAATCTTAGAGCGACG
 TGTTTCCAGCTGGAGACCACAATGTGTTCTATGTAATACGTTCCCACTCAAGACCCGCTGACGCAC
 CTTTTCCCTCACTGGATCCCGAGAAAGGCTGTCCGAGGACCACAGCAGCCCTTTTGGAAAGCCTTTTCT
 TAACCAAGACACTGACTTAGTGGTACCAAGTATTTCAGACTCAGAGCTCCTTAAACCTCTAGTGTGTGAA
 TTCTGTCAAGAGCTTTTCCACCATCCATTACATCCAGAGGGGATTTCTCCGGCATCTTAATACACACT
 TTAATGGGGAGACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_011529

Insert Size: 1347 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).

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_011529.2](#), [NP_035659.1](#)

RefSeq Size: 2018 bp

RefSeq ORF: 1347 bp

Locus ID: 21353

UniProt ID: [P70347](#)

Cytogenetics: 2 C1.3

Gene Summary: Adapter protein involved in I-kappa-B-kinase (IKK) regulation which constitutively binds TBK1 and IKBKE playing a role in antiviral innate immunity. Acts as a regulator of TRAF function by maintaining them in a latent state. Blocks TRAF2 binding to LMP1 and inhibits LMP1-mediated NF-kappa-B activation. Negatively regulates NF-kappaB signaling and cell survival upon DNA damage. Plays a role as an adapter to assemble ZC3H12A, USP10 in a deubiquitination complex which plays a negative feedback response to attenuate NF-kappaB activation through the deubiquitination of IKBKG or TRAF6 in response to interleukin-1-beta (IL1B) stimulation or upon DNA damage. Promotes UBP10-induced deubiquitination of TRAF6 in response to DNA damage. May control negatively TRAF2-mediated NF-kappa-B activation signaled by CD40, TNFR1 and TNFR2. Essential for the efficient induction of IRF-dependent transcription following infection with Sendai virus.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) represents use of an alternate promoter and 5' UTR and uses an upstream start codon, compared to variant 1. The resulting isoform (3) has a longer N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.