

Product datasheet for MR206499

Tank (NM_001164072) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tank (NM_001164072) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tank
Synonyms:	C86182; E430026L09Rik; I-TRAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206499 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAAAAACATTGGTGAGCAACTCAATAGAGCATATGAAGCCTCCGACAGGCATGCATGGATAGAG
ATTCAGCAGTAAGAGAGCTACAGCAAAGACTGAGAACTATGAACAAAGAATACGCGAGCAACAGGAACA
GCTGTCATTTCAACAAAACCTAATTGACAGGCTGAAATCACAGCTACTTCTCGTGGATTCTAGTCGAGAT
AACAGTTATGGCTATGTACCTTTGCTTGAAGACAGTGACAGAAGGAAGAATAATTTGACCCTTGATGAAC
CACATGATAAAGTGAACTAGGAACACTGAGATATAAGCAATCAAAGGTGAGACGACAAGAAGTTTCTTC
TGGAAAAGAATCCGCCAAGGGTCTCAACATCCCTCTGCATCACGAAAGGATAATATAGAGAAGACTTTC
TGGGACCTTAAAGAAGAATTTTCATAGGATTTGCTTGTAGCAAAAAGCACAGAAAGACCCTTAAGCAAAC
TTAATATACCAGATATTGCAACTGACACACAGTGTCTGTGCCTATACAGTGTACTGATAAAAACAGAGAA
ACAAGAAGCGCTGTTAAGCCCCAGGCTAAAGATGATATAAATAGAGGTATGTCGTGCGTCACAGCTGTC
ACACCAAGAGGACTGGGCCGGATGAGGAAGATACCTCTTTTGAATCACTTTCTAAATTCATGTCAAGT
TTCCGCTATGGACAATGACTCTATTTTCTACATAGCACTCCAGAGGCCCAAGCATCCTTGCTCCTGC
CACACCTGAGACAGTGTGCCAGGACCGATTTAATATGGAAGTCAGAGACAACCCAGGAACTTTGTTAAA
ACAGAGAAGAACTTTATTTGAAATTCAGGGAATTGACCCATAACTCAGCTATACAAAACCTTAAACAA
CTGACAAAACAAACCCCTCAAATCTTAGAGCGCGTGTGGCCAGCTGGAGACCACAATGTGTTCTATGT
AAATACGTTCCCACTTCAAGACCCGCTGACGCACCTTTTCCCTCACTGGATTCCCAGGAAAGGCTGTC
CGAGGACCACAGCAGCCCTTTTGAAGCCTTTTCTTAACCAAGACTGACTTAGTGGTACCAAGTGATT
CAGACTCAGAGCTCCTTAAACCTCTAGTGTGTGAATTCTGTCAAGAGCTTTTCCACCATCCATTACATC
CAGAGGGGATTTCTCCGGCATCTTAATACACACTTTAATGGGGAGACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR206499 protein sequence
 Red=Cloning site Green=Tags(s)

MDKNIGEQLNRAYEAFRQACMDRDSAVRELQKQKTENYEQRIREQQQLSFQQNLIDRLKSQLLLVDSSRD
 NSYGYVPLLESDRRKNNLTLDEPHDKVKLGLTRYKQSKVRRQEVSSGKESAKGLNIPLHHERDNIKETF
 WDLKEEFHRIKLLAKAQKDHLSKLNIPDIATDTQCSVPIQCTDKTEKQALFKPQAKDDINRGMSCVTAV
 TPRGLGRDEEDTSFESLSKFNKFPMDNDSIFLHSTPEAPSILAPATPETVCQDRFNMEVRDNPNGNFVK
 TEETLFEIQGIDPITSAIQNLKTTDKTNPSNLRAPCLPAGDHNVFYVNTFPLQDPPDAPFSLDSPGKAV
 RGPQQPFWKPFLLNQDIDLVPVSDSSELLKPLVCEFCQELFPPSITSRGDFLRHLNTHFNGET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001164072

ORF Size: 1242 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_001164072.1](#), [NP_001157544.1](#)

RefSeq Size: 2019 bp

RefSeq ORF: 1242 bp

Locus ID: 21353

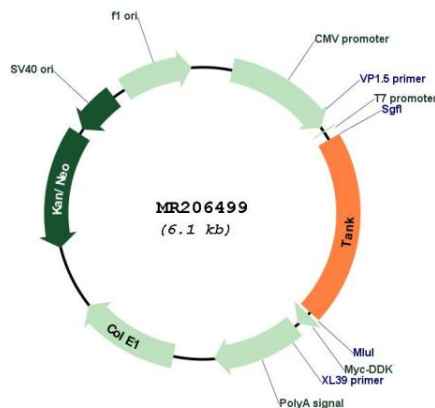
UniProt ID: [P70347](#)

Cytogenetics: 2 C1.3

MW: 47.1 kDa

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]

Product images:



Circular map for MR206499