

Product datasheet for **MR219055**

Tank (NM_011529) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tank (NM_011529) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR219055 representing NM_011529
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTTTAAAGAGACATAGTCTGCGAAGGAACGCTGTACCTGGAGACGAGAGCTGGCATTCTACCA
 TCCTTTATAGTATGCTACAGGACAAAGAGGAATGGATAAAAACATTGGTGAGCAACTCAATAGAGCATA
 TGAAGCCTTCCGACAGGCATGCATGGATAGAGATTGAGCAGTAAGAGAGCTACAGCAAAAGCAGACTGAG
 AACTATGAACAAAGAATACGCGAGCAACAGGAACAGCTGTCAATTTCAACAAAACCTAATTGACAGGCTGA
 AATCACAGCTACTTCTCGTGGATTCTAGTCGAGATAACAGTTATGGCTATGTACCTTTGCTTGAAGACAG
 TGACAGAAGGAAGAATAATTTGACCCTTGATGAACCACATGATAAAGTAAAAGTAACTAGGAACACTGAGAGAT
 AAGCAATCAAAGGTGAGACGACAAGAAGTTTCTTCTGGAAAAGAATCCGCCAAGGGTCTCAACATCCCTC
 TGCATCACGAAAGGATAATATAGAGAAGACTTTCTGGGACCTTAAAGAAGAATTCATAGGATTTGCTT
 GCTAGCAAAAGCACAGAAAGATCACTTAAAGCAACTTAAATATACCAGATATTGCAACTGACACACAGTGT
 TCTGTGCCTATACAGTGTACTGATAAAACAGAGAAACAAGAAGCGCTGTTTAAAGCCCAGGCTAAAGATG
 ATATAAATAGAGGTATGTCGTGCGTCACAGCTGTACACCAAGAGGACTGGGCCGGGATGAGGAAGATAC
 CTCTTTTGAATCACTTTCTAAATTCATGTCAAGTTTCCGCTATGGACAATGACTCTATTTTTTCTACAT
 AGCACTCCAGAGGCCCGGAGCATCCTTGCTCCTGCCACACCTGAGACAGTGTGCCAGGACCGATTAAATA
 TGGAAAGTCAGAGACAACCCAGGAACTTTGTTAAAACAGAAGAACTTTATTTGAAATTCAGGGAATTGA
 CCCATAACTTCAGCTATACAAAACCTTAAACAACCTGACAAAACAAACCCCTCAAATCTTAGAGCGACG
 TGTTTCCAGCTGGAGACCACAATGTGTCTATGTAATACGTTCCCACTTCAAGACCCGCTGACGCAC
 CTTTTCCCTCACTGGATTCCCGAGAAAGGCTGTCCGAGGACCACAGCAGCCCTTTTGGAAAGCCTTTTCT
 TAACCAAGACACTGACTTAGTGGTACCAAGTGATTTCAGACTCAGAGCTCCTTAAACCTCTAGTGTGTGAA
 TTCTGTCAAGAGCTTTTCCACCATCCATTACATCCAGAGGGGATTTCTCCGGCATCTTAAATACACACT
 TTAATGGGGAGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219055 representing NM_011529
 Red=Cloning site Green=Tags(s)

MSLKRHSLRRNACHLETRAGIPTILYSDATGQRGMDKNIGEQLNRAYEAFRQACMDRDSAVRELQQKQTE
 NYEQRIREQQEQLSFQQNLIDRLKSQLLLVDSSRDNSYGYVPLEDSDRRKNLTLDEPHDKVKGTLRD
 KQSKVRRQEVSSGKESAKGLNIPLHHERDNIKTFWDLKEEFHRICLLAKAQKDHL SKLNIPDIATDTQC
 SVPIQCTDKTEKQEQALFKPQAKDDINRGMSCVTAVTPRGLGRDEEDTSFESLSKFNVKFPPMDNDSIFLH
 STPEAPSILAPATPETVCQDRFNMEVRDNPNGFVKTEETLFEIQIDPITSAIQNLKTTDKTNPSNLRAT
 CLPAGDHNVFYVNTFPLQDPPDAPFPLDSPGKAVRGPQQPFWKPFLNQDIDL VVPSDSDSELLKPLVCE
 FCQELFPPSITSRGDFLRHLNTHFNGET

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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

MW: 51.4 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]