

Product datasheet for **MG219055**

Tank (NM_011529) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tank (NM_011529) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tank
Synonyms:	C86182; E430026L09Rik; I-TRAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219055 representing NM_011529
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCTTTAAAGAGACATAGTCTGCGAAGGAACGCTGTACCTGGAGACGAGAGCTGGCATTCTACCA
 TCCTTTATAGTGATGCTACAGGACAAAGAGGAATGGATAAAAACATTGGTGAGCAACTCAATAGAGCATA
 TGAAGCCTTCCGACAGGCATGCATGGATAGAGATTGAGAGTAAGAGAGCTACAGCAAAAGCAGACTGAG
 AACTATGAACAAAGAATACGCGAGCAACAGGAACAGCTGTCAATTTCAACAAAACCTAATTGACAGGCTGA
 AATCACAGCTACTTCTCGTGGATTCTAGTCGAGATAACAGTTATGGCTATGTACCTTTGCTTGAAGACAG
 TGACAGAAGGAAGAATAATTTGACCCTTGATGAACCACATGATAAAGTAAAAGTAACTAGGAACACTGAGAGAT
 AAGCAATCAAAGGTGAGACGACAAGAAGTTTCTTCTGGAAAAGAATCCGCCAAGGGTCTCAACATCCCTC
 TGCATCACGAAAGGATAATATAGAGAAGACTTTCTGGGACCTTAAAGAAGAATTCATAGGATTTGCTT
 GCTAGCAAAAGCAGAAAAGATCACTTAAGCAAACCTTAATATACCAGATATTGCAACTGACACACAGTGT
 TCTGTGCCTATACAGTGTACTGATAAAACAGAGAAACAAGAAGCGCTGTTTAAAGCCCAGGCTAAAGATG
 ATATAAATAGAGGTATGTCGTGCGTCACAGCTGTACACCAAGAGGACTGGGCCGGGATGAGGAAGATAC
 CTCTTTTGAATCACTTTCTAAATTCATGTCAAGTTTCCGCCTATGGACAATGACTCTATTTTTTCTACAT
 AGCACTCCAGAGGCCCGGAGCATCCTTGCTCCTGCCACACCTGAGACAGTGTGCCAGGACCGATTTAATA
 TGGAAAGTCAGAGACAACCCAGGAAACTTTGTTAAAACAGAAGAACTTTATTTGAAATTCAGGGAATTGA
 CCCATAACTTCAGCTATACAAAACCTTAAAACAACCTGACAAAACAACCCCTCAAATCTTAGAGCGACG
 TGTTTCCAGCTGGAGACCACAATGTGTTCTATGTAATACGTTCCCACTTCAAGACCCGCTGACGCAC
 CTTTTCCCTCACTGGATTCCCGAGAAAGGCTGTCCGAGGACCACAGCAGCCCTTTTGAAGCCTTTTCT
 TAACCAAGACACTGACTTAGTGGTACCAAGTGATTGAGACTCAGAGCTCCTTAAACCTCTAGTGTGTGAA
 TTCTGTCAAGAGCTTTTCCACCATCCATTACATCCAGAGGGGATTTCTCCGGCATCTTAATACACACT
 TTAATGGGGAGACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219055 representing NM_011529
 Red=Cloning site Green=Tags(s)

MSLKRHSLRRNACHLETRAGIPTILYSDATGQRGMDKNIGEQLNRAYEAFRQACMDRDSAVRELQQKQTE
 NYEQRIREQEQLSFQQNLIDRLKSQLLLVDSSRDNSYGYVPLEDSDRRKNLTLDEPHDKVKLGLTRD
 KQSKVRRQEVSSGKESAKGLNIPLHHERDNIKTFWDLKEEFHRICLLAKAQKDHLKSLNIPDIATDTQC
 SVPIQCTDKTEKQEALFKPQAKDDINRGMSCVTAVTPRGLGRDEEDTSFESLSKFNVKFPPMDNDSIFLH
 STPEAPSILAPATPETVCQDRFNMEVRDNPNGNFVKTEETLFEIQGIDPITSAIQNLKTTDKNPSNLRAT
 CLPAGDHNVFYVNTFPLQDPPDAPFSLDSPGKAVRGPQQPFWKPFLNQDLDLVVPSDSELLKPLVCE
 FCQELFPPSITSRGDFLRHLNTHFNGET

TRTRPLE – GFP Tag – V

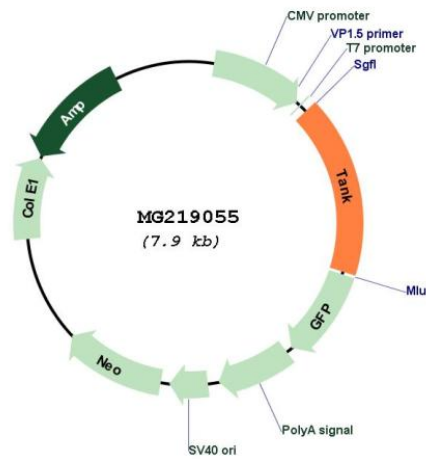
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011529

ORF Size: 1344 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:	<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_011529.2</u> , <u>NP_035659.1</u>
RefSeq Size:	2018 bp
RefSeq ORF:	1347 bp
Locus ID:	21353
UniProt ID:	<u>P70347</u>
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]