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Product datasheet for RC209759

TANK (NM_004180) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TANK (NM_004180) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TANK
Synonyms:	I-TRAF; ITRAF; TRAF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC209759 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAAAAACATTGGCGAGCAACTCAATAAAGCGTATGAAGCCTTCCGGCAGGCATGCATGGATAGAG
ATTCTGCAGTAAAAGAATTACAGCAAAAGACTGAGAACTATGAGCAGAGAATACGTGAACAACAGGAACA
GCTGTCACTTCAACAGACTATTATTGACAAGCTAAAATCTCAGTTACTTCTTGTGAATTCCACTCAAGAT
AACAATTATGGCTGTGTTCCTCTGCTTGAAGACAGTGAAACAAGAAAGAATAATTTGACTCTTGATCAGC
CACAAGATAAAGTGATTTCAGGAATAGCAAGAGAAAAACTACCAAAGGTAAGAAGACAAGAGGTTTCTTC
TCCTAGAAAAGAAACTTCAGCAAGGAGTCTTGGCAGTCCTTTGCTCCATGAAAGGGGTAATATAGAGAAG
ACTTTCTGGGATCTGAAAGAAGAATTTCATAAAATATGCATGCTAGCAAAAGCACAGAAAGACCACTTAA
GCAAACTTAATATACCAGACACTGCAACTGAAACACAGTGCTCTGTGCCTATACAGTGTACGGATAAAAC
AGATAAACAAGAAGCGCTGTTTAAGCCTCAGGCTAAAGATGATATAAATAGAGGTGCACCATCCATCACA
TCTGTCACACCAAGAGGACTGTGCAGAGATGAGGAAGACACCTCTTTTGAATCACTTTCTAAATTCAATG
TCAAGTTTCCACCTATGGACAATGACTCAACTTTCTTACATAGCACTCCAGAGAGACCCGGCATCCTTAG
TCCTGCCACGTCTGAGGTAGTGTGCCAAGAGAAATTTAATATGGAGTTCAGAGACAACCCAGGGAACTTT
GTTAAAACAGAAGAAACTTTATTTGAAATTCAGGGAATTGACCCCATAGCTTCAGCTATACAAAACCTTA
AAACAACTGACAAAACAAAGCCCTCAAATCTCGTAAACACTTGTATCAGGACAACTCTGGATAGAGCTGC
GTGTTTGCCACCTGGAGACCATAATGCATTATATGTAAATAGCTTCCCACTTCTGGACCCATCTGATGCA
CCTTTTCCCTCACTCGATTCCCCGGGAAAAGCAATCCGAGGACCACAGCAGCCCATTTGGAAGCCCTTTC
CTAATCAAGACAGTGACTCGGTGGTACTAAGTGGCACAGACTCAGAACTGCATATACCTCGAGTATGTGA
ATTCTGTCAAGCAGTTTTCCCACCATCCATTACATCCAGGGGGGATTTCCTTCGGCATCTTAATTCACAC
TTCAATGGAGAGACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209759 protein sequence
Red=Cloning site Green=Tags(s)

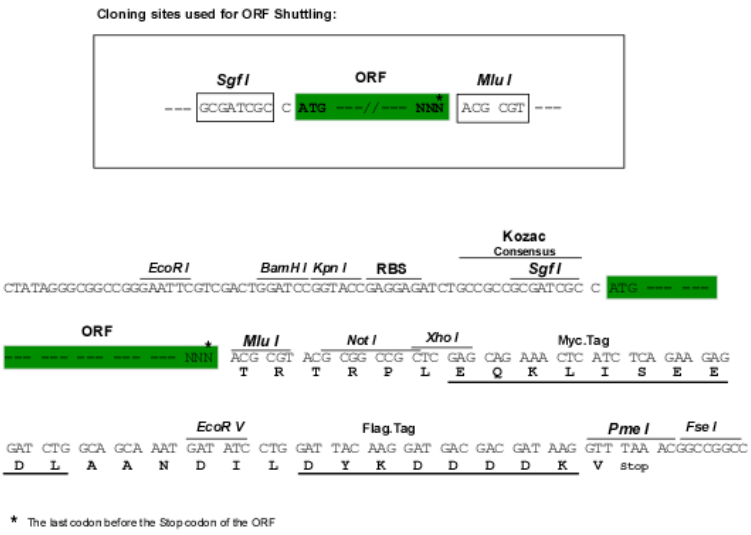
MDKNIGEQLNKAYEAFRQACMDRDSAVKELQQKTENYEQRIREQQEQLSLQQTIIDKLKSQLLLVNSTQD
NNYGCVPLLEDSETRKNNLTLDQPQDKVISGIAREKLPKVRRQEVSSPRKETSARSLGSPLLHERGNIEK
TFWDLKEEFHKICMLAKAQKDHLSKLNIPDTATETQCSVPIQCTDKTDKQEALFKPQAKDDINRGAPSIT
SVTPRGLCRDEEDTSFESLSKFNVKFPPMDNDSTFLHSTPERPGILSPATSEVVCQEKFNMEFRDNPGNF
VKTEETLFEIQGIDPIASAIQNLKTTDKTKPSNLVNTCIRTTLDRAACLPPGDHNALYVNSFPLLDPSDA
PFPSLDSPGKAIRGPQQPIWKPFPNQDSDSVVLSGTDSELHIPRVCEFCQAVFPPSITSRGDFLRHLNSH
FNGET

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6269_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004180

ORF Size: 1275 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004180.3

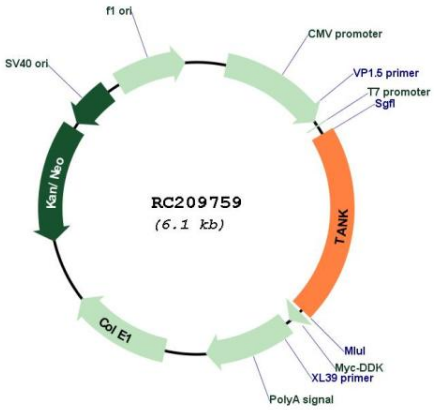
RefSeq Size: 2089 bp

RefSeq ORF: 1278 bp

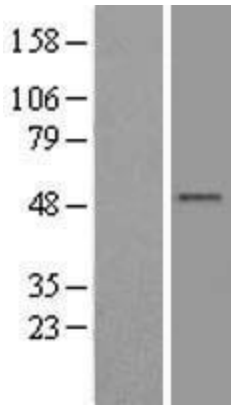
Locus ID: 10010

UniProt ID:	Q92844
Cytogenetics:	2q24.2
Protein Families:	Druggable Genome
Protein Pathways:	RIG-I-like receptor signaling pathway
MW:	47.8 kDa
Gene Summary:	The TRAF (tumor necrosis factor receptor-associated factor) family of proteins associate with and transduce signals from members of the tumor necrosis factor receptor superfamily. The protein encoded by this gene is found in the cytoplasm and can bind to TRAF1, TRAF2, or TRAF3, thereby inhibiting TRAF function by sequestering the TRAFs in a latent state in the cytoplasm. For example, the protein encoded by this gene can block TRAF2 binding to LMP1, the Epstein-Barr virus transforming protein, and inhibit LMP1-mediated NF-kappa-B activation. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

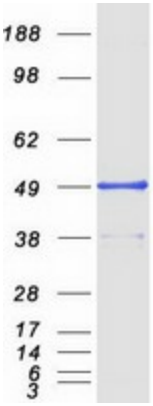
Product images:



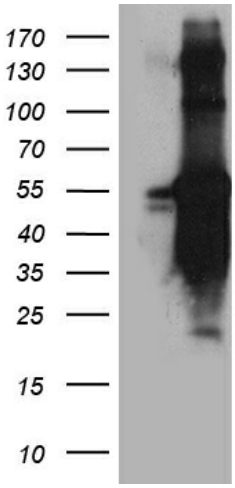
Circular map for RC209759



Western blot validation of overexpression lysate (Cat# [LY418162]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209759 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TANK protein (Cat# [TP309759]). The protein was produced from HEK293T cells transfected with TANK cDNA clone (Cat# RC209759) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TANK (Cat# RC209759, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TANK(Cat# [TA810317]). Positive lysates [LY418162] (100ug) and [LC418162] (20ug) can be purchased separately from OriGene.