

## Product datasheet for **RG209759**

### TANK (NM\_004180) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | TANK (NM_004180) Human Tagged ORF Clone                                     |
| Tag:                      | TurboGFP  |
| Symbol:                   | TANK  |
| Synonyms:                 | I-TRAF; ITRAF; TRAF2  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG209759 representing NM_004180<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATAAAAACATTGGCGAGCAACTCAATAAAGCGTATGAAGCCTTCCGGCAGGCATGCATGGATAGAG  
ATTCTGCAGTAAAAGAATTACAGCAAAGACTGAGAACTATGAGCAGAGAATACGTGAACAACAGGAACA  
GCTGTCACCTTCAACAGACTATTATTGACAAGCTAAAATCTCAGTACTTCTTGTAATCCACTCAAGAT  
AACAAATTATGGCTGTGTTCCCTCTGCTTGAAGACAGTGAACAAGAAGAATAATTTGACTCTTGATCAGC  
CACAAGATAAAGTGATTTAGGAATAGCAAGAGAAAACTACCAAGGTAAAGACAAGAGGTTTCTTC  
TCCTAGAAAAGAACTTCAGCAAGGAGTCTGGCAGTCCTTTGCTCCATGAAAGGGTAATATAGAGAAG  
ACTTTCTGGGATCTGAAAGAAGAATTTCAAAAATATGCATGCTAGCAAAAGCACAGAAAGACCCTTAA  
GCAAACTTAATATACCAGACACTGCAACTGAAACACAGTCTCTGTGCCTATACAGTGTACGGATAAAAC  
AGATAAACAAGAAGCGCTGTTTAAAGCCTCAGGCTAAAGATGATATAAATAGAGGTGCACCATCCATCACA  
TCTGTCACACCAAGAGGACTGTGCAGAGATGAGGAAGACACCTCTTTGAATCACTTTCTAAATTCATG  
TCAAGTTTCCACCTATGGACAATGACTCAACTTCTTACATAGCACTCCAGAGAGACCCGGCATCCTTAG  
TCCTGCCACGCTGAGGCAGTGTGCAAGAGAAATTTAATATGGAGTTTCCAGAGACAACCCAGGGAACCTT  
GTTAAAACAGAAGAACTTTATTTGAAATTCAGGGAATTGACCCCATAGCTTCAGCTATACAAAACCTTA  
AAACAAGTGAACAAAACAAGCCCTCAAATCTCGTAAACACTTGTATCAGGACAACCTGGATAGAGCTGC  
GTGTTTGGCCACCTGGAGACCATAATGCATTATATGTAATAGCTTCCCACTTCTGGACCCATCTGATGCA  
CCTTTTCCCTCACTCGATTTCCCGGAAAAGCAATCCGAGGACCACAGCAGCCCATTTGGAAGCCCTTTC  
CTAATCAAGACAGTACTCGGTGGTACTAAGTGGCACAGACTCAGAACTGCATATACCTCGAGTATGTGA  
ATTCTGTCAAGCAGTTTTCCACCATCCATTACATCCAGGGGGATTTCTTCGGCATCTTAATTCACAC  
TTCAATGGAGAGACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG209759 representing NM\_004180  
Red=Cloning site Green=Tags(s)

MDKNIGEQLNKAYEAFRQACMDRDSAVKELQQKTENYEQRIREQQEQLSLQQTIIIDKLKSQLLLVNSTQD  
 NNYGCVLLEDSETRKNNLTLDQPQDKVISGIAREKLPKVRREQEVSSPRKETSARSLSPLLHERGNIEK  
 TFWDLKEEFHKICMLAKAQKDHLSKLNIPDTATETQCSVPIQCTDKTDKQEALFKPQAKDDINRGAPSIT  
 SVTPRGLCRDEEDTSFESLSKFNVKFPPMDNDSTFLHSTPERPGILSPATSEAVCQEKFNMEFRDNPNGF  
 VKTEETLFEIQGIDPIASAIQNLKTTDKTKPSNLVNTCIRTTLDRAACLPPGDHNALYVNSFPLLDPSDA  
 PFPSLDSPGKAIRGPQQPIWKPPFNQSDSVVLSGTDSELHPIRVCFEQAVFPPSITSRGDFLRHLNSH  
 FNGET

TRTRPLE - GFP Tag - V

**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.

**RefSeq:** [NM\\_004180.3](#)

**RefSeq Size:** 2089 bp

**RefSeq ORF:** 1278 bp

**Locus ID:** 10010

**UniProt ID:** [Q92844](#)

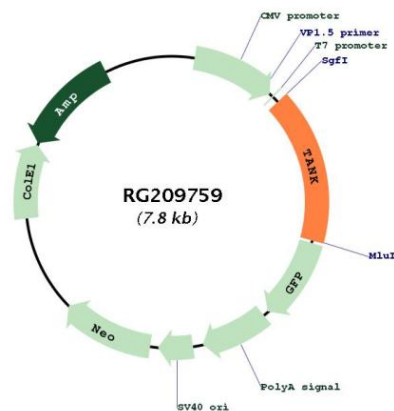
**Cytogenetics:** 2q24.2

**Protein Families:** Druggable Genome

**Protein Pathways:** RIG-I-like receptor signaling pathway

**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 RG209759