

Product datasheet for **RG221447**

TIGIT (NM_173799) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIGIT (NM_173799) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TIGIT
Synonyms:	VSIG9; VSTM3; WUCAM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221447 representing NM_173799 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCTGGTGTCTCCTCCTGATCTGGGCCAGGGGCTGAGGCAGGCTCCCCTCGCCTCAGGAATGATGA
CAGGCACAATAGAAACAACGGGGAACATTTCTGCAGAGAAAGGTGGTCTATCATCTTACAATGTCACCT
CTCCTCCACCACGGCACAAGTGACCCAGGTCAACTGGGAGCAGCAGGACCAGTTCTGGCCATTTGTAAT
GCTGACTTGGGGTGGCACATCTCCCATCCTTCAAGGATCGAGTGGCCCCAGTCCCGGCCTGGGCCTCA
CCCTCCAGTCGTCGACCGTGAACGATACAGGGGAGTACTTCTGCATCTATCACACCTACCCTGATGGGAC
GTACACTGGGAGAATCTTCTGGAGTCTAGAAAGCTCAGTGGCTGAGCACGGTGCCAGGTTCCAGATT
CCATTGCTTGGAGCCATGGCCGCGACGCTGGTGGTTCATCTGCACAGCAGTCATCGTGGTGGTTCGCGTTGA
CTAGAAAGAAGAAAGCCCTCAGAATCCATTCTGTGGAAGGTGACCTCAGGAGAAAATCAGCTGGACAGGA
GGAATGGAGCCCCAGTGCTCCCTCACCCCAGGAAGCTGTGTCCAGGCAGAAAGCTGCACCTGCTGGGCTC
TGTGGAGAGCAGCGGGGAGAGGACTGTGCCGAGCTGCATGACTACTTCAATGTCTGAGTTACAGAAGCC
TGGTAACTGCAGTCTTTCACAGAGACTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221447 representing NM_173799
 Red=Cloning site Green=Tags(s)

MRWCLLLIWAQGLRQAPLASGMMTGTIETTGNISAEKGGSIILQCHLSSTTAQVTQVNWEQQDQLLAICN
 ADLGWHISPSFKDRVAPGPGGLGLTLQSLTVNDTGEYFCIYHTYPDGTYTGRIFLEVLESSVAEHGARFQI
 PLLGAMAATLVVICTAVIVVVALTRKKKALRIHSVEGDLRRKSAGQEEWSPSAPSPPGSCVQAEAAPAGL
 CGEQRGEDCAELHDYFNVLSYRSLGNCSFFTETG

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_173799

ORF Size: 732 bp

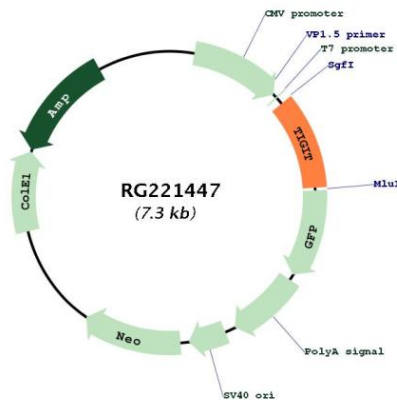
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_173799.4](#)
- RefSeq Size:** 2139 bp
- RefSeq ORF:** 735 bp
- Locus ID:** 201633
- UniProt ID:** [Q495A1](#)
- Cytogenetics:** 3q13.31
- Protein Families:** Transmembrane
- Gene Summary:** This gene encodes a member of the PVR (poliovirus receptor) family of immunoglobulin proteins. The product of this gene is expressed on several classes of T cells including follicular B helper T cells (TFH). The protein has been shown to bind PVR with high affinity; this binding is thought to assist interactions between TFH and dendritic cells to regulate T cell dependent B cell responses.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RG221447