

Product datasheet for **SC124474**

TIGIT (NM_173799) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TIGIT (NM_173799) Human Untagged Clone
Tag:	Tag Free
Symbol:	TIGIT
Synonyms:	VSIG9; VSTM3; WUCAM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC124474 sequence for NM_173799 edited (data generated by NextGen Sequencing)

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ATGCGCTGGTGTCTCCTCCTGATCTGGGCCAGGGCTGAGGCAGGCTCCCCTCGCCTCA  
GGAATGATGACAGGCACAATAGAAACAACGGGAACATTTCTGCAGAGAAAGGTGGCTCT  
ATCATCTTACAATGTCACCTCTCCTCCACCACGGCACAAGTGACCCAGGTCAACTGGGAG  
CAGCAGGACCAGCTTCTGGCCATTTGTAATGCTGACTTGGGGTGGCACATCTCCCATCC  
TTCAAGGATCGAGTGGCCCCAGGTCCCAGGCTGGGCTCACCTCCAGTCGCTGACCGTG  
AACGATACAGGGGAGTACTTCTGCATCTATCACACCTACCCTGATGGGACGTACACTGG  
AGAATCTTCTGGAGGTCTAGAAAGCTCAGTGGCTGAGCACGGTGCCAGGTTCCAGATT  
CCATTGCTTGGAGCCATGGCCGACGCTGGTGGTCATCTGCACAGCAGTCATCGTGGTG  
GTCGCGTTGACTAGAAAGAAGAAAGCCCTCAGAATCCATTCTGTGGAAGGTGACCTCAGG  
AGAAAATCAGCTGGACAGGAGGAATGGAGCCCCAGTGCTCCCTCACCCCCAGGAAGCTGT  
GTCCAGGCAGAAGCTGCACCTGCTGGGCTCTGTGGAGAGCAGCGGGGAGAGGACTGTGCC  
GAGCTGCATGACTACTTCAATGTCCTGAGTTACAGAAGCCTGGGTAAGTGCAGCTTCTTC  
ACAGAGACTGGTTAG
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Clone variation with respect to NM_173799.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_173799 unedited
 TGTAATACGACCTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCAGAAGCATGCGCTGG
 TGTCTCCTCTGATCTGGGCCAGGGGCTGAGGCAGGCTCCCCTCGCCTCAGGAATGATG
 ACAGGCACAATAGAAACAACGGGGAACATTTCTGCAGAGAAAGGTGGCTCTATCATCTTA
 CAATGTACCTCTCCTCCACCACGGCACAAGTGACCCAGGTCAACTGGGAGCAGCAGGAC
 CAGCTTCTGGCCATTTGTAATGCTGACTTGGGGTGGCAGCATCTCCCCATCCTTCAAGGAT
 CGAGTGGCCCCAGGTCCCGGCCTGGGCTCACCTCCAGTCGCTGACCGTGAACGATACA
 GGGGAGTACTTCTGCATCTATCACACCTACCCTGATGGGACGTACACTGGGAGAATCTTC
 CTGGAGGTCCTANAAAGCTCAGTGGCTGAGCACGGTGCCAGGTTCCAGATTCCATTGCTT
 GGAGCCATGGCCGCGACGCTGGTGGTCATCTGCACAGCAGTCATCGTGGTGGTCGCGTTG
 ACTAAAAAGAAGAAAGCCCTCAGAATCCATTCTGTGGAAGGTGACCTCAGGAGAAAATAN
 CTNGACAGGAGGAATGGAGCCCCANTGCTCCCTTACCCACAGAAACTGGGTCCAAGCA
 AAACCTGCACCTGCTGGGCTCTCTGGGAAAAACACGGGAAAAGGAATGGCCCCACCCC
 ACAGAATAACTTAAAGGGCCCGGATAAACAAAAACCGGGGAAAAGGGGTTTTTTCAAAAA
 AAGGGTTAACACAGGGGTTTTGTGAGAAAACACTTCTTTTTTCTTTTTAAAAAAAAT
 AAAAAAAGGGGCTTCCCCCACTCNNTTGGGTGGTGGGTTATTTTNNNNNNGGGNN
 NAAAAAAAAAAAAAAAAACCTCTCCTCT

3' Read Nucleotide Sequence:

>OriGene 3' genomic read for NM_173799 unedited
 TGGCCATTGGCATGGCACTTCCAGGNCCAGNAAAGCACTGGGGNAGGGTCACAGGGCAT
 GCCACCCGGGCTCTGTTCCAGGAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAGGTAATATTTTATTTACCCA
 ATACATCCAAAATATTATCATTTTTGACACACAATATACAAAACACTGAAATAGTATT
 CTTATTATTCATATTAATCCCCAAAATCTAGTGTGATTTTATGCTTATACCAATTATAA
 CAGCACATCTTGATTTAACTAACCCCATCTTAAGTGGTTGATGGCCACATGTGGAAAGT
 GGCTACGTGGTGGATAGCGCATGTCTCCAGGAATCCAATGAAATGGTCTTCTCTGGT
 TCTCAAAGGAAAACTAGTTTCAGTGAGTTCTATTTAAAAAATTTTTTCAAATTGAATC
 CCATTTAGTAACCTGACCCATTTCTAACATCTATAGGCCCTTTTGTATTTATCACCAT
 CCCAATAGTGTATATAATGTTTCCCAATTACCATAATTATGTTAAATAACACCCAACCTC
 TCAATCCAACCTCTGCCGAATATACACCTCCTCCAATCAAACACTACCCCTTTTTCGT
 CATTACTTTTTAGTTTACTTCCCTTTTGGGAATTGTGGTCCATTTCCCCGGGTTTGCAC
 CTNTTTTTGCNGGAAAAATGGCTGGAACCGCCCAAGCCAAAAAACCACTTTTTTCCCGTCC
 CCNAACCTTTTCCCCNGGGGTCTGGGGCCCTGGGCCNNTTTNNNTTCTCTCCCCCGG
 GNNCCCTTTTGGGNNNNNGGNNNNNGTNTNCCNNNNANCCCCCGGAAAAAATT
 TTATATTAAGCTAAAAAAAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_173799

Insert Size:

3100 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](#)

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_173799.2](#), [NP_776160.1](#)

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]