

Product datasheet for **SC303383**

TNFSF9 (NM_003811) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: TNFSF9 (NM_003811) Human Untagged Clone
Tag: Tag Free
Symbol: TNFSF9
Synonyms: 4-1BB-L; CD137L; TNLG5A
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_003811 edited
TCTCTCGTCATGGAATACGCCTCTGACGCTTCACTGGACCCCGAAGCCCGTGGCCTCCC
GCGCCCCGCGCTCGCGCCTGCCGCTACTGCCTTGGCCCTGGTCGCGGGGCTGCTGCTG
CTGCTGCTGCTCGCTGCCGCTGCGCCGCTTCTCTCGCCTGCCCTGGGCGTGTCCGGG
GCTCGCGCCTCGCCGGCTCCGCGGCCAGCCCGAGACTCCGCGAGGGTCCCGAGCTTTCG
CCCGACGATCCCGCCGGCCTCTTGACCTGCGGCAGGGCATGTTTGCGCAGCTGGTGGCC
CAAAATGTTCTGCTGATCGATGGGCCCTGAGCTGGTACAGTGACCCAGGCCTGGCAGGC
GTGTCCCTGACGGGGGGCCTGAGCTACAAAGAGGACACGAAGGAGCTGGTGGTGGCCAAG
GCTGGAGTCTACTATGTCTTCTTCAACTAGAGCTGCGGCGCGTGGTGGCCGGCAGGGC
TCAGGCTCCGTTTCACTTGCCTACACCTGCAGCCACTGCGCTCTGCTGCTGGGGCCGCC
GCCCTGGCTTTGACCGTGGACCTGCCACCCGCCTCCTCCGAGGCTCGGAACCTCGGCCTTC
GGTTTCCAGGGCCGCTTGTGCACCTGAGTGCCGGCCAGCGCCTGGGCGTCCATCTTAC
ACTGAGGCCAGGGCAGCCATGCCTGGCAGCTTACCCAGGGCGCCACAGTCTTGGGACTC
TTCCGGGTGACCCCCGAAATCCCAGCCGGACTCCCTTACCGAGGTCGGAATAACGCCCA
GCCTGGGTGCAGCCCACCTGGACAGAGTCCGAATCCTACTCCATCC



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003811 unedited
 GACGACGAAAATTTGTATACGACTCACTATAGGCGGCCGCGNAATCANATCTGGTACCGA
 GCTCGGATCCACTAGTAACGGCCGCCATGTGCTGGAATTCGCCCTTCTCTCGTCATGGAA
 TACGCCTCTGACGCTTCACTGGACCCCGAAGCCCGTGGCTCCCGCGCCCCGCGCTCGC
 GCCTGCCGCGTACTGCCTTGGGCCCTGGTCGCGGGGCTGCTGCTGCTGCTGCTGCTGCTG
 GCCGCTGCGCCGCTTCTCTCGCTGCCCTGGGCCGTGCCGGGGCTCGCGCCTCGCCCC
 GGCTCCGCGGCCAGCCGAGACTCCGCGAGGGTCCCGAGCTTTCGCCCGACGATCCCGCC
 GGCTCTTGGACCTGCGGCAGGGCATGTTTGGCAGCTGGTGGCCAAAATGTTCTGCTG
 ATCGATGGGCCCTGAGCTGGTACAGTGACCCAGGCCTGGCAGGCGTGCCTGACGGGG
 GGCTGAGCTACAAAGAGGACACGAAGGAGCTGGTGGTGGCCAAGGCTGGAGTCTACTAT
 GTCTTCTTTCACTAGAGCTGCGCGCGTGGTGGCCGGCGAGGGCTCAGGCTCCGTTTCA
 CTTGCGCTACACCTGCAGCCACTGCGCTCTGCTGCTGGGGCCGCCCTGGCTTTGACC
 GTGGACCTGCCACCCGCTCCTCCGAGGCTCGAACTCGGCCTTCGGTTTCCAGGGCCGC
 TTGCTGCACCTGAGTCCCGGCCAGCCCTGGGCGTCCATTTCACTGAGGCCAGGGCA
 CGCCATGCCTGGCAGCTTACCCAGGGCGCCACAGTCTTGGGACTTTCGGGTGACCCCC
 GAAATCCAGCCGACTCCCTTACCCGAGGTCGGAATAACGCCCCAGCCTGGGTGCAGCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003811 unedited
 ACATTGGNNGATGGCACTTCCAGGNCCAGNANAGCACTGGGGNAGGGTCACAGGGATGC
 CACCCGGGATCTGTTAGNAAACAGCTATGACCGCGCCGCAATCTAGAGTCGAGCGGCC
 GCCAGTGTGATGGATATCTGCAGAATTCGCCCTTGGATGGAGTAGGATTCGGACTCTGTC
 CAGGTGGGCTGCACCCAGGCTGGGCGTTATTCCGACCTCGGTGAAGGGAGTCCGGCTGGG
 ATTTCCGGGGTACCCGGAAGAGTCCCAAGACTGTGGCGCCCTGGGTAAGCTGCCAGGCA
 TGGCGTGCCTGGCCTCAGTGTGAAGATGGACGCCAGGCGCTGGCCGGCACTCAGGTGC
 AGCAAGCGGCCCTGGAAACCGAAGGCCGAGTTCGAGCCTCGGAGGAGGGGGTGGCAGG
 TCCACGGTCAAAGCCAGGGCGGGCCCGCCAGCAGCAGAGCGCAGTGGCTGCAGGTGATGC
 GCAAGTGAACCGGAGCCTGAGCCCTCGCCGGCCACCACGCGCCGAGCTCTAGTTGAAAG
 AAGACATAGTAGACTCCAGCCTTGGCCACCACCAGCTCCTTCGTGTCCTTTGTAGTCT
 AAGCCCCCGTCAGGGACAGCCTGCCAGGCTGGGCTACTGTACCAGCTCAGGNGCCCA
 TCGATCAGCAGAACATTTGGGCCACCAGCTGCGCAAACATGCCCTGCCGNNAGTCCAA
 GAGCCGGCCGGGATCGTCCGGGCGAAGCCTCGGGACCCTCGCGGAGTCTCCGGGTGGCC
 GCGGNACCCCGCAAAGCCCCNAGCCCCGAACAACGGCCAGGGGCGAGGCCGAGNAAA
 AACGGCCAGGGC

Restriction Sites:

Please inquire

ACCN:

NM_003811

Insert Size:

800 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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:	NM_003811.2 , NP_003802.1
RefSeq Size:	1645 bp
RefSeq ORF:	765 bp
Locus ID:	8744
UniProt ID:	P41273
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
Gene Summary:	<p>The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This transmembrane cytokine is a bidirectional signal transducer that acts as a ligand for TNFRSF9/4-1BB, which is a costimulatory receptor molecule in T lymphocytes. This cytokine and its receptor are involved in the antigen presentation process and in the generation of cytotoxic T cells. The receptor TNFRSF9/4-1BB is absent from resting T lymphocytes but rapidly expressed upon antigenic stimulation. The ligand encoded by this gene, TNFSF9/4-1BBL, has been shown to reactivate anergic T lymphocytes in addition to promoting T lymphocyte proliferation. This cytokine has also been shown to be required for the optimal CD8 responses in CD8 T cells. This cytokine is expressed in carcinoma cell lines, and is thought to be involved in T cell-tumor cell interaction.[provided by RefSeq, Oct 2008]</p>