

Product datasheet for **SC303450**

TNFRSF18 (NM_004195) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TNFRSF18 (NM_004195) Human Untagged Clone
Tag:	Tag Free
Symbol:	TNFRSF18
Synonyms:	AITR; CD357; ENERGEN; GITR; GITR-D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_004195 edited ACTTCACCTGGGTCGGGATTCTCAGGTCATGAACGGTCCCAGCCACTCCGGGCAGGGCG GGTGAGGACGGGGACGGGGCGTGTCCAAGTGGCTGTGGGCTCTTGAACCCGAGCATGGC ACAGCACGGGGCGATGGGCGCGTTTCGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCT CAGCCTGGGTCAGCGCCCCACCGGGGTCCCAGGTCGCGGCCTGGGCGCCTCCTGCTTGG GACGGGAACGGACGCGCGCTGCTGCCGGTTCACACGACGCGCTGCTGCCGCGATTACCC GGGCGAGGAGTGCTGTTCCGAGTGGGACTGCATGTGTGTCAGCCTGAATTCCAAGTGGC AGACCCTTGCTGCACGACCTGCCGGCACCACCCTTGCCCCAGGCCAGGGGTACAGTC CCAGGGGAAATTCAGTTTGGCTTCCAGTGTATCGACTGTGCTCGGGGACCTTCTCCGG GGCCACGAAGGCCACTGCAAACCTTGGACAGACTGCACCCAGTTCGGGTTTCTCACTGT GTTCCCTGGGAACAAGACCCACAACGCTGTGTGCGTCCCAGGGTCCCCGCGGCAGAGCC GCTTGGGTGGCTGACCGTCGTCTCCTGCGCGTGGCCGCCTGCGTCTCCTCCTGACCTC GGCCCAGCTTGGACTGCACATCTGGCAGCTGAGGAGTCAGTGCATGTGGCCCCGAGAGAC CCAGCTGCTGCTGGAGGTGCCGCGTCCGACCGAAGACGCCAGAAGCTGCCAGTTCGCCGA GGAAGAGCGGGGCGAGCGATCGGCAGAGGAGAAGGGGCGGCTGGGAGACCTGTGGGTGTG AGCCTGGCCGTCTCCGGGGCCACCGACCGCAGCCAGCCCCTCCCAGGAGCTCCCAGG CCGCAGGGGCTCTGCGTTCTGCTCTGGGCCGGGCCCTGCTCCCCTGGCAGCAGAAGTGGG TGCAGGAAGGT



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004195 unedited GGCATTGTTATACGACTCCTATAGGGCGGCCGCGTATCCTCAGATCTGGTACCGAGCTCG GATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTACTTCACCTGGGTCCGGA TTCTCAGGTCATGAACGGTCCCAGCCACCTCCGGGCAGGGCGGGTGAGGACGGGGACGGG GCGTGTCCAACCTGGCTGTGGGCTCTTGAACCCGAGCATGGCACAGCACGGGGCGATGGG CGCGTTTCGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCTCAGCCTGGGTCAGCGCCC CACCGGGGTCCCAGGTCGCGCCCTGGGCGCCTCCTGCTTGGGACGGGAACGGACGCGCG CTGCTGCCGGGTTACACGACGCGCTGCTGCCGCGATTACCCGGGCGAGGAGTGCTGTTT CGAGTGGGACTGCATGTGTGTCCAGCCTGAATTCACCTGCGGAGACCCTTGTGACGAC CTGCCGACCACCCTTGTCCCCAGGCCAGGGGTACAGTCCCAGGGGAAATTCAGTTT TGGCTTCCAGTGTATCGACTGTGCCTCGGGACCTTCTCCGGGGCCACGAAGGCCACTG CAAACCTTGGACAGACTGCACCCAGTTCGGGTTTCTCACTGTGTTCCCTGGGAACAAGAC CCACAACGCTGTGTGCGTCCCAGGTCGCCCGCCGAGAGCCGCTTGGGTGGCTGACCGT CGTCTCCTGGCCGTGGCCGCTGCGTCTCCTCCTGACCTCGGCCAGCTTGGACTGCA CATCTGGCAGCTGAGGAGTCAGTGCATGTGGCCCGAGAGACCCAGCTGCTGCTGGAGGT GCCGCCGTCGACCGAAGACCGCCAGAGTGCCAGTTCCCGAGGAGAGCGGGCGAGCGAT CGGGCAGAGGAGAAGGGCGGCTGGGGAGAACCCTGTGGGGTGTGTGGAGGCCTT</p>
Restriction Sites:	Please inquire
ACCN:	NM_004195
Insert Size:	1000 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_004195.2](#), [NP_004186.1](#)
RefSeq Size: 1214 bp
RefSeq ORF: 726 bp
Locus ID: 8784
UniProt ID: [Q9Y5U5](#)
Cytogenetics: 1p36.33
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

Gene Summary: This gene encodes a member of the TNF-receptor superfamily. The encoded receptor has been shown to have increased expression upon T-cell activation, and it is thought to play a key role in dominant immunological self-tolerance maintained by CD25(+)CD4(+) regulatory T cells. Knockout studies in mice also suggest the role of this receptor is in the regulation of CD3-driven T-cell activation and programmed cell death. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, Feb 2011]

Transcript Variant: This variant (1) represents the longest transcript. It contains an extra coding segment, which leads to a frame shift, compared to variant 2. The resulting preprotein (isoform 1) contains a distinct and shorter C-terminus, as compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.