

## Product datasheet for **RG219997**

### TNFRSF18 (NM\_004195) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TNFRSF18 (NM_004195) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TNFRSF18
Synonyms:	AITR; CD357; ENERGEN; GITR; GITR-D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219997 representing NM_004195 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCACAGCACGGGGCGATGGGCGGTTTCGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCTCAGCC  
TGGGTGAGCGCCACCAGGGGTCCCGGTGCGGCCCTGGGCGCCTCTGCTTGGGACGGGAACGGACGC  
GCGCTGCTGCCGGTTCACACGACGCGCTGCTGCCGATTACCGGGCGAGGAGTGTGTTCCGAGTGG  
GACTGCATGTGTGCCAGCCTGAATCCACTGCGGAGACCCTTGCTGCACGACCTGCCGGCACCACCTT  
GTCCCCAGGCCAGGGGTACAGTCCCAGGGAAATTCAGTTTTGGCTTCCAGTGTATCGACTGTGCCTC  
GGGACCTTCTCCGGGGCCACGAAGGCCACTGCAAACCTTGGACAGACTGCACCCAGTTCCGGTTTCTC  
ACTGTGTTCCCTGGGAACAAGACCCACAACGCTGTGTGCGTCCCAGGGTCCCCGCCGCGAGCCGCTTG  
GGTGGCTGACCGTCGTCCTCTGGCCGTGGCCGCTGCGTCTCTCCTGACCTCGGCCAGCTTGGACT  
GCACATCTGGCAGCTGAGGAGTCAGTGCATGTGGCCCCGAGAGCCAGCTGCTGCTGGAGGTGCCGCC  
TCGACCGAAGACGCCAGAAGCTGCCAGTCCCCGAGGAAGAGCGGGGCGAGCGATCGGCAGAGGAGAAGG  
GGCGCTGGGAGACCTGTGGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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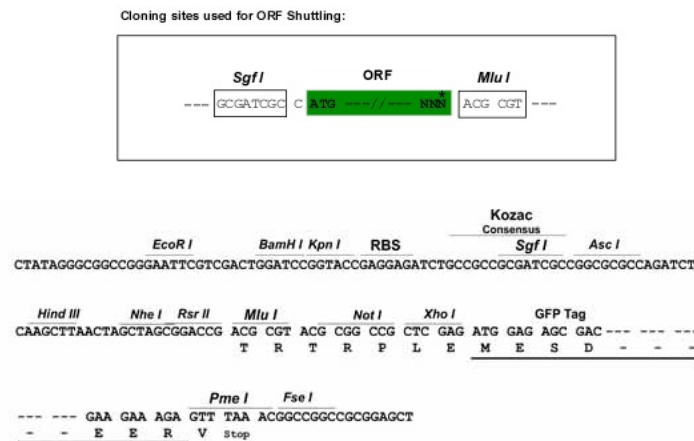
**Protein Sequence:** >RG219997 representing NM\_004195  
 Red=Cloning site Green=Tags(s)

MAQHGAMGAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLGTGTDARCCRVHTTRCCRDYPGEECCSEW  
 DCMCVQPEFHCGDPCCTTCRHHPCPPGGVQSQGKFSFGFQCIDCASGTFSGGHEGHCKPWTDCQFGL  
 TVFPGNKTHNAVCPVGSPPAEPLGWLTVVLLAVAACVLLLTSAQLGLHIWQLRSQCMWPRETQLLLEVP  
 STEDARSCQFPEEERGERSAEEKGRLGDLWV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_004195

**ORF Size:** 723 bp

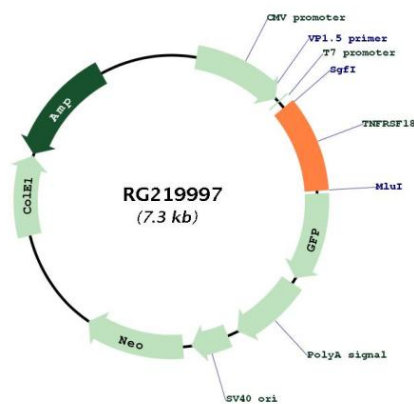
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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\\_004195.3](#)
- 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]

**Product images:**



Circular map for RG219997