

Product datasheet for **RC220671**

TNFRSF18 (NM_148902) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TNFRSF18 (NM_148902) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TNFRSF18
Synonyms:	AITR; CD357; ENERGEN; GITR; GITR-D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220671 representing NM_148902 Red =Cloning site Blue =ORF Green =Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGC

ATGGCACAGCACGGGGCGATGGGCGGTTTCGGGCCCTGTGCGGCCTGGCGTGCTGTGCGCGCTCAGCC
 TGGGTACGCGCCACCGGGGTCCCGGTGCGGCCCTGGGCGCCTCTGCTTGGGACGGGAACGGACGC
 GCGCTGCTGCCGGTTACACGACGCGTGCTGCCGCGATTACCGGGCGAGGAGTGCTGTTCCGAGTGG
 GACTGCATGTGTGCCAGCCTGAATTCCTGCGGAGACCCTTGCTGCACGACCTGCCGGCACCACCTT
 GTCCCCAGGCCAGGGGTACAGTCCCAGGGGAAATTCAGTTTTGGCTTCCAGTGTATCGACTGTGCCTC
 GGGACCTTCTCCGGGGCCACGAAGGCCACTGCAAACCTTGGACAGACTGCACCCAGTTCGGGTTCTC
 ACTGTGTTCCCTGGGAACAAGACCCACAACGCTGTGTGCGTCCCAGGGTCCCCGCCGGCAGAGCCGCTTG
 GGTGGCTGACCGTCGTCTCTGCGCGTGGCCGCTGCGTCCTCTCTGACCTCGGCCAGCTTGGACT
 GCACATCTGGCAGCTGAGGAAGACCCAGCTGCTGCTGGAGGTGCCGCGTCGACCGAAGACGCCAGAAGC
 TGCCAGTTCCCCGAGGAAGAGCGGGGCGAGCGATCGGCAGAGGAGAAGGGGCGGCTGGGAGACCTGTGGG
 TG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC220671 representing NM_148902

Red=Cloning site Green=Tags(s)

MAQHGAMGAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLLGTGTDARCCRVHTTRCCRDYPGEECCSEW
DCMCVQPEFHCGDPCCTTCRHHPCPPGQGVQSQGKFSFGFCIDCASGTFSGGHEGHCKPWTDTQFGFL
TVFPGNKTHNAVCPVGSPPAEPLGWLTVVLLAVAAACVLLLTSAQLGLHIWQLRKTQLLLEVPPSTEDARS
COPEFFFRGERSAFEEKGRI GDJ WV

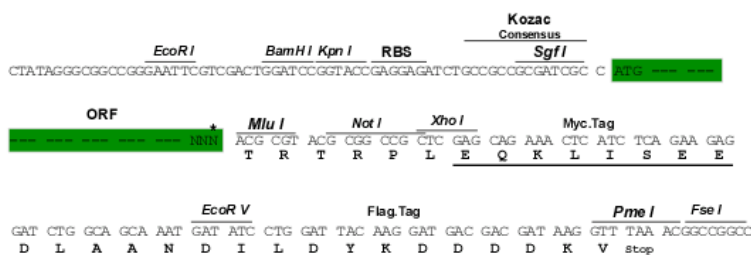
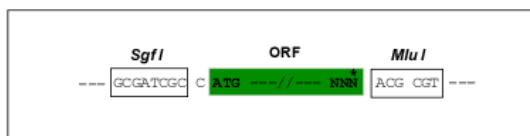
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 148902

ORF Size: 702 bp

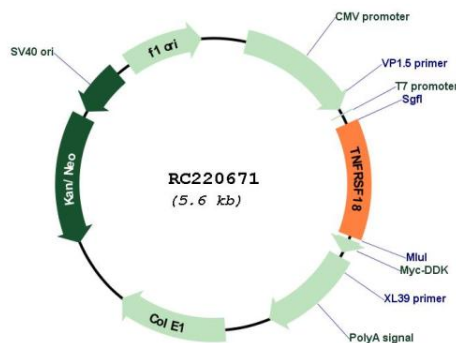
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_148902.2</u>
RefSeq Size:	1193 bp
RefSeq ORF:	705 bp
Locus ID:	8784
UniProt ID:	<u>Q9Y5U5</u>
Cytogenetics:	1p36.33
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
MW:	22.6 kDa
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 RC220671