

Product datasheet for RC220743

TNFRSF18 (NM_148901) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TNFRSF18 (NM_148901) 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: >RC220743 representing NM_148901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCACAGCACGGGGCGATGGGCGGTTTCGGGCCCTGTGCGGCCTGGCGCTGCTGTGCGCGCTCAGCC
 TGGGTGACGCGCCACCGGGGTCCCGGTGCGGCCCTGGGCGCCTCTGCTTGGGACGGGAACGGACGC
 GCGCTGCTGCCGGTTCACACGACGCGCTGCTGCCGATTACCGGGCGAGGAGTGTGTTCCGAGTGG
 GACTGCATGTGTCCAGCCTGAATCCACTGCGGAGACCCTTGCTGCACGACCTGCCGGCACCCCTT
 GTCCCCAGGCCAGGGGTACAGTCCCAGGGAAATTCAGTTTTGGCTTCCAGTGTATCGACTGTGCCTC
 GGGACCTTCTCCGGGGCCACGAAGGCCACTGCAAACTTGGACAGACTGCTGCTGGAGGTGCCCGCT
 CGACCGAAGACGCCAGAAGCTGCCAGTTCGCCGAGGAGAGCGGCGGCGATCGGCAGAGGAGAAGGG
 GCGGCTGGGAGACCTGTGGTGTGAGCCTGGCCGTCTCCGGGGCCACCGACCGCAGCCAGCCCCCTCCC
 AGGAGCTCCCCAGGCCGAGGGCTCTGCGTCTGCTCTGGGCCGGCCCTGCTCCCCTGGCAGCAGAAG
 TGGGTGACGAAGGTGCGAGTGACCAGCGCCCTGGACATGCAGTTCGGCGGCCGCGCTGGGCCCTGCA
 GGAGGGAGAGAGACACAGTCATGGCCCCCTTCTCCCTGCTGGCCCTGATGGGTGGGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC220743 representing NM_148901
Red=Cloning site Green=Tags(s)

MAQHGAMGAFRALCGLALLCALSLGQRPTGGPGCGPGRLLLGTGTDARCCRVHTTRCCRDYPGEECCSEW
 DCMCVQPEFHCGDPCCTTCRHHPCPPGQGVQSQKFSFGFQCIDCASGTFSGGHEGHCKPWTDCWCRCRR
 RPKTPEAAASSPRKSGASDRQRRRGWETCGCEPGRPPGPTAASPSPGAPQAAGALRSALGRALLPWQOK
 WVQEGGSDQRPGPCSSAAAAGPCRRERETQSWPPSSLAGPDGVGS

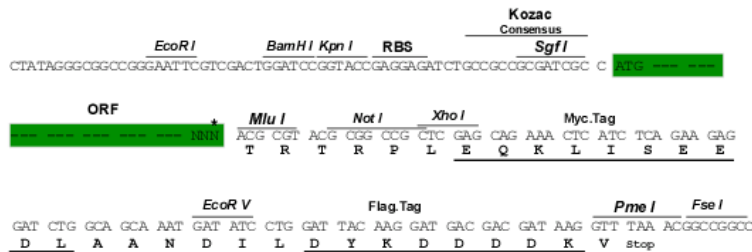
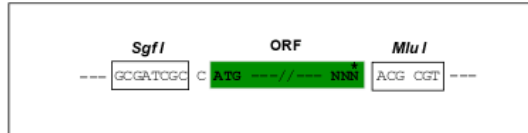
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4341_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_148901

ORF Size: 765 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: [NM_148901.2](#)

RefSeq Size: 1003 bp

RefSeq ORF: 768 bp

Locus ID: 8784

UniProt ID: [Q9Y5U5](#)

Cytogenetics: 1p36.33

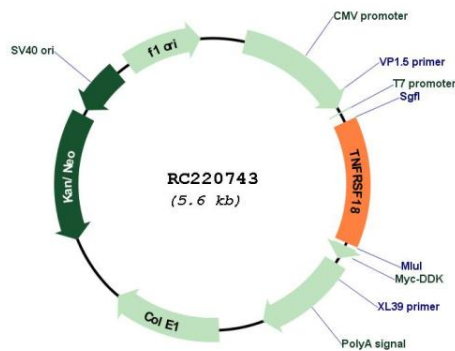
Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

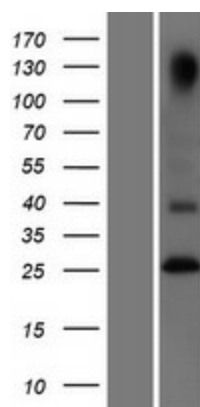
MW: 24.3 kDa

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 RC220743



Western blot validation of overexpression lysate (Cat# [LY407757]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220743 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).