

Product datasheet for RC210901

TNFSF18 (NM_005092) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TNFSF18 (NM_005092) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TNFSF18
Synonyms: AITRL; GITRL; hGITRL; TL6; TNLG2A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210901 representing NM_005092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTGTTTGAGCCACTTGAAAAATATGCCTTTAAGCCATTCAAGAACTCAAGGAGCTCAGAGATCATCCT
 GGAAGCTGTGGCTCTTTTGCTCAATAGTTATGTTGCTATTTCTTTGCTCCTTCAGTTGGCTAATCTTTAT
 TTTTCTCCAATTAGAGACTGCTAAGGAGCCCTGTATGGCTAAGTTTGACCATTACCCTCAAAATGGCAA
 ATGGCATCTTCTGAACCTCCTTGCCTGAATAAGGTGTCTGACTGGAAGCTGGAGATACTTCAGAATGGCT
 TATATTTAATTTATGGCCAAGTGGCTCCCAATGCAAACTACAATGATGTAGCTCCTTTTGAGGTGCGGCT
 GTATAAAACAAAGACATGATACAACTCTAACAAACAAATCTAAATCCAAATGTAGGAGGGACTTAT
 GAATTGCATGTTGGGGACACCATAGACTTGATATTCAACTCTGAGCATCAGGTTCTAAAAATAATACAT
 ACTGGGGTATCATTTTACTAGCAATCCCAATTCATCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210901 representing NM_005092
 Red=Cloning site Green=Tags(s)

MCLSHLENMPLSHSRTQGAQRSSWKLWLFCSIVMLLFLCSFSWLIFIFLQLETAKEPCMAKFGPLPSKWQ
 MASSEPPCVNKVSDWKLEILQNGLYLIYQVAPNANYNDVAPFEVRLYKNKDMIQTLTNKSKIQNVGGTY
 ELHVGDTIDLIFNSEHQVLKNNTYWGIILLANPQFIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2494_b01.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005092

ORF Size: 531 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 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.

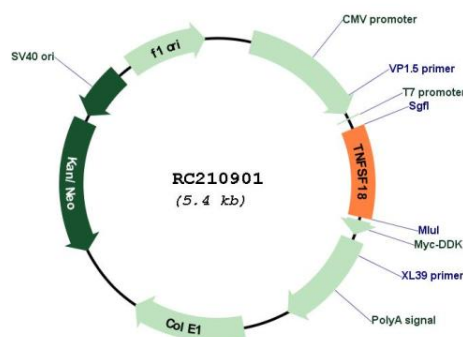
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

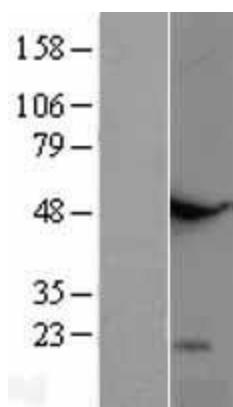
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_005092.2</u>
RefSeq Size:	748 bp
RefSeq ORF:	534 bp
Locus ID:	8995
UniProt ID:	<u>Q9UNG2</u>
Cytogenetics:	1q25.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction
MW:	20.31 kDa
Gene Summary:	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for receptor TNFRSF18/AITR/GITR. It has been shown to modulate T lymphocyte survival in peripheral tissues. This cytokine is also found to be expressed in endothelial cells, and is thought to be important for interaction between T lymphocytes and endothelial cells. [provided by RefSeq, Jul 2008]

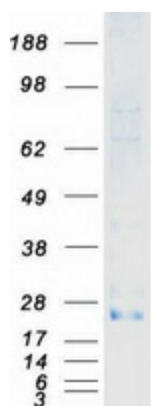
Product images:



Circular map for RC210901



Western blot validation of overexpression lysate (Cat# [LY401571]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210901 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TNFSF18 protein (Cat# [TP310901]). The protein was produced from HEK293T cells transfected with TNFSF18 cDNA clone (Cat# RC210901) using MegaTran 2.0 (Cat# [TT210002]).