

Product datasheet for RC206983

TNF alpha (TNF) (NM_000594) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: TNF alpha (TNF) (NM 000594) Human Tagged ORF Clone Tag: Myc-DDK TNF alpha Symbol: Synonyms: DIF; TNF-alpha; TNFA; TNFSF2; TNLG1F Mammalian Cell Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >RC206983 ORF sequence **ORF** Nucleotide Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**

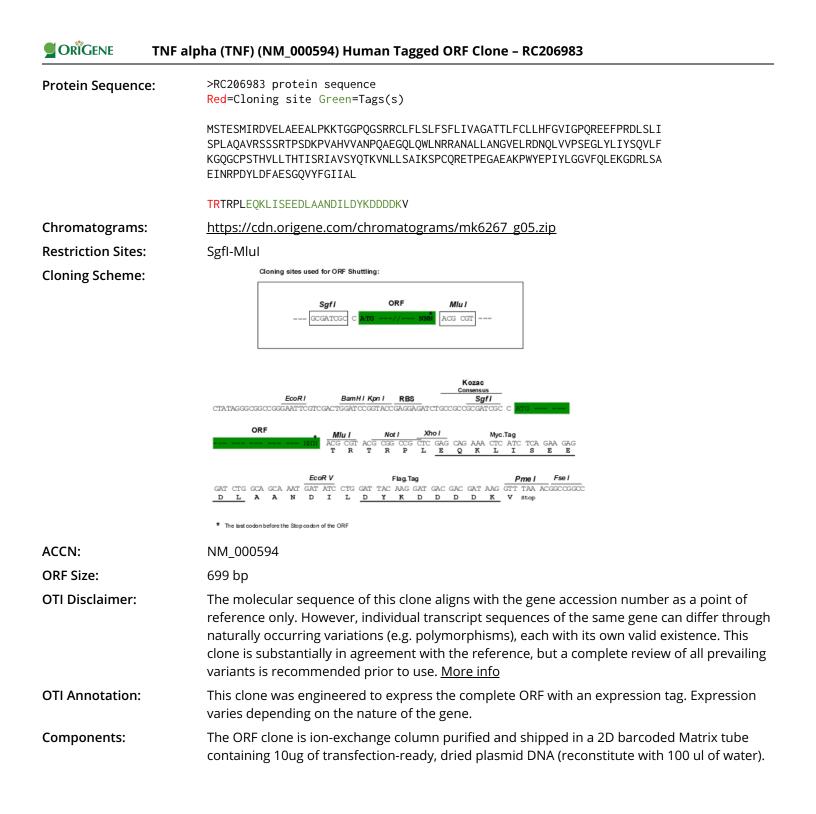


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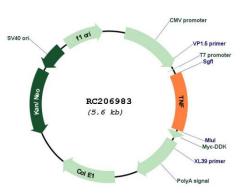
ORIGENE TNF alpha (TNF) (NM_000594) Human Tagged ORF Clone – RC206983

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 000594.4</u>
RefSeq Size:	1686 bp
RefSeq ORF:	702 bp
Locus ID:	7124
UniProt ID:	<u>P01375</u>
Cytogenetics:	6p21.33
Protein Families:	Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Allograft rejection, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Fc epsilon RI signaling pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Natural killer cell mediated cytotoxicity, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus, Type II diabetes mellitus
MW:	25.6 kDa
Gene Summary:	This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, psoriasis, rheumatoid arthritis ankylosing spondylitis, tuberculosis, autosomal dominant polycystic kidney disease, and cancer. Mutations in this gene affect susceptibility to cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Aug 2020]

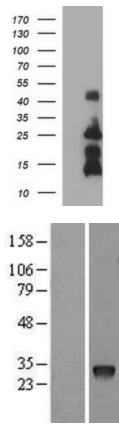
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Product images:



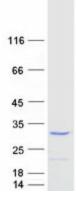
Circular map for RC206983



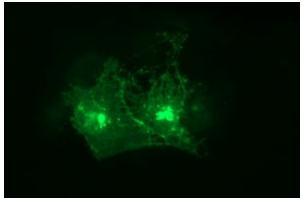
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TNF (Cat# RC206983, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TNF (Cat# [TA506513]). Positive lysates [LY424626] (100ug) and [LC424626] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY424626]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206983 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

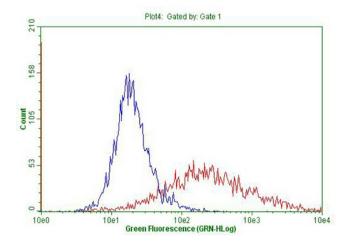
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Coomassie blue staining of purified TNF protein (Cat# [TP306983]). The protein was produced from HEK293T cells transfected with TNF cDNA clone (Cat# RC206983) using MegaTran 2.0 (Cat# [TT210002]).



Anti-TNF mouse monoclonal antibody ([TA506513]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TNF (RC206983).



HEK293T cells transfected with either (RC206983) overexpress plasmid (Red) or empty vector control plasmid (blue) were immunostained by anti-TNF antibody ([TA506513]), and then analyzed by flow cytometry (1:100).

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