

Product datasheet for RC201167

TNFRSF14 (NM_003820) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TNFRSF14 (NM_003820) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TNFRSF14
Synonyms:	ATAR; CD270; HVEA; HVEM; LIGHTR; TR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201167 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCCTCCTGGAGACTGGGGCCTCCTCCCTGGAGATCCACCCCAGAACCAGCTCTTGAGGCTGG
TGCTGTATCTCACCTTCCTGGGAGCCCCCTGCTACGCCCCAGCTCTGCCGCTCCTGCAAGGAGGACGAGTA
CCCAGTGGGCTCCGAGTGTGCCCAAGTGCAGTCCAGTTATCGTGTGAAGGAGGCTGCCGGGAGCTG
ACGGGCACAGTGTGTGAACCCTGCCCTCCAGGCACCTACATTGCCACCTCAATGGCCTAAGCAAGTGTG
TGCAGTGCCAAATGTGTGACCCAGCCATGGGCCTGCGCGGAGCCGGAAGTCTCCAGGACAGAGAACGC
CGTGTGTGGCTGCAGCCAGGCCACTTCTGCATCGTCCAGGACGGGACCACTGCCCGCGTGCCGCGCT
TACGCCACCTCCAGCCCGGGCCAGAGGGTGCAGAAGGGAGGCACCGAGAGTCAGGACACCCTGTGTCAGA
ACTGCCCCCGGGGACCTTCTCTCCAATGGGACCCTGGAGGAATGTCAGCACCAGACCAAGTGCAGCTG
GCTGGTGACGAAGGCCGGAGCTGGGACCAGCAGCTCCCACTGGGTATGGTGGTTTCTCTCAGGGAGCCTC
GTCATCGTCATTGTTTGTCCACAGTTGGCCTAATCATATGTGTGAAAAGAAGAAAGCAAGGGGTGATG
TAGTCAAGGTGATCGTCTCCGTCCAGCGAAAAGACAGGAGGCAGAAGGTGAGGCCACAGTCATTGAGGC
CCTGCAGGCCCTCCGGACGTACCACGGTGGCCGTGGAGGAGACAATACCCTCATTACGGGGAGGAGC
CAAACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201167 protein sequence
Red=Cloning site Green=Tags(s)

MEPPGDWGWPPWRSTPRTDVLRLLVLYL TFLGAPCYAPALPSCKEDEYVPGSECCPKCSPGYRVKEACGEL
 TGTVCEPCPPGT YIAHLNGLSKLCLQCQMCDPAMGLRASRNC SR TENAVCGCSPGHFCIVQGDHCAACRA
 YATSSPGQRVQKGGTESQDTL CQNCPPGT F SPNGTLEECQHQT KCSWL VTKAGAGT SSSHVWWF LSGSL
 VIVIVCSTVGL IICV KRRKPRGDVVKVIVSVQRKRQEAEGEATVIEALQAPPDVTTVAVEETIPSF TGRS
 PNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6143_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003820

ORF Size: 849 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003820.1](#)

RefSeq Size: 3519 bp

RefSeq ORF: 852 bp

Locus ID: 8764

UniProt ID: [Q92956](#)

Cytogenetics: 1p36.32

Domains: TNFR

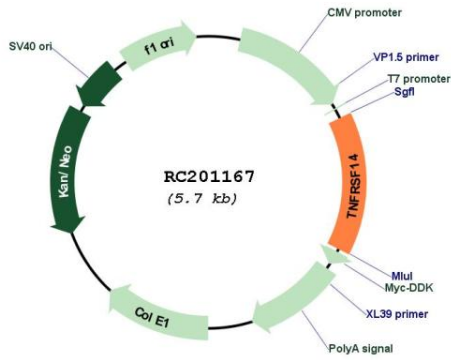
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

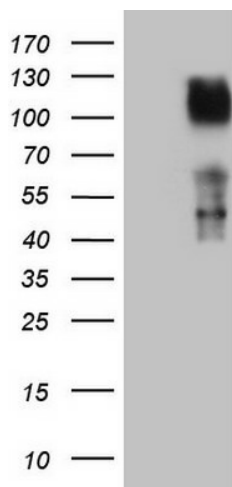
MW: 30.4 kDa

Gene Summary: This gene encodes a member of the TNF (tumor necrosis factor) receptor superfamily. The encoded protein functions in signal transduction pathways that activate inflammatory and inhibitory T-cell immune response. It binds herpes simplex virus (HSV) viral envelope glycoprotein D (gD), mediating its entry into cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]

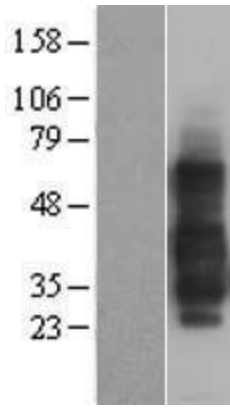
Product images:



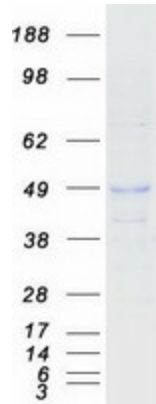
Circular map for RC201167



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TNFRSF14 (Cat# RC201167, 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-TNFRSF14 (Cat# [TA808093])(1:2000). Positive lysates [LY401254] (100ug) and [LC401254] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401254]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201167 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TNFRSF14 protein (Cat# [TP301167]). The protein was produced from HEK293T cells transfected with TNFRSF14 cDNA clone (Cat# RC201167) using MegaTran 2.0 (Cat# [TT210002]).