

Product datasheet for **RC219808**

DR5 (TNFRSF10B) (NM_147187) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DR5 (TNFRSF10B) (NM_147187) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DR5
Synonyms:	CD262; DR5; KILLER; KILLER/DR5; TRAIL-R2; TRAILR2; TRICK2; TRICK2A; TRICK2B; TRICKB; ZTNFR9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC219808 representing NM_147187
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGAACAACGGGACAGAACGCCCCGGCCGCTTCGGGGGCCGAAAAGGCACGGCCAGGACCCAGGG
AGGCGCGGGGAGCCAGGCCTGGGCTCCGGTCCCAAGACCTTGTGCTGTTGTCGCCGGTCTGCT
GTTGGTCTCAGCTGAGTCTGCTCTGATCACCAACAAGACCTAGCTCCCCAGCAGAGAGCGGCCCAAA
CAAAGAGGTCCAGCCCCTCAGAGGATTGTGTCCACCTGGACACCATATCTCAGAAGACGGTAGAGATT
GCATCTCTGCAAATATGGACAGGACTATAGCACTCACTGGAATGACCTCCTTTTCTGCTTGCCTGCAC
CAGGTGTGATTCAAGTGAAGTGGAGCTAAGTCCCTGCACCAGCAGAAACACAGTGTGTCAGTGCAGAA
GAAGGCACCTCCGGGAAGAAGATTCTCCTGAGATGTGCCGAAGTCCGCACAGGGTGTCCAGAGGGA
TGGTCAAGGTCGGTATTGTACACCCTGGAGTGACATCGAATGTGTCCACAAGAATCAGGCATCATCAT
AGGAGTCACAGTTGCAGCCGTAGTCTTGATTGTGGCTGTGTTTGTTCGAAGTCTTACTGTGGAAGAAA
GTCTTTCCTTACCTGAAAGGCATCTGCTCAGGTGGTGGGGACCCTGAGCGTGTGGACAGAAGCTCAC
AACGACCTGGGGCTGAGGACAATGTCCTCAATGAGATCGTGAGTATCTTGACGCCACCCAGGTCCTTGA
GCAGGAAATGGAAGTCCAGGAGCCAGCAGACCAACAGGTGTCAACATGTTGTCCCCGGGGAGTCAGAG
CATCTGCTGGAACCGGCAGAAGCTGAAAGGTCTCAGAGGAGGAGGCTGCTGGTCCAGCAAATGAAGGTG
ATCCCCTGAGACTCTGAGACAGTGTTCGATGACTTTGCAGACTTGGTGCCTTTGACTCCTGGGAGCC
GCTCATGAGGAAGTTGGGCTCATGGACAATGAGATAAAGGTGGCTAAAGCTGAGGCAGCGGGCCACAGG
GACACCTTGTACACGATGCTGATAAAGTGGTCAACAAAACCGGGCGAGATGCCTCTGTCCACACCCTGC
TGGATGCCTTGGAGACGCTGGGAGAGACTTGCCAAGCAGAAGATTGAGGACCATTGTTGAGCTCTGG
AAAGTTCATGTATCTAGAAGTAATGCAGACTCTGCCATGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219808 representing NM_147187
Red=Cloning site Green=Tags(s)

MEQRGQNAAPASGARKRHGPGPREARGARPLRVPKTLVLVVAVLLLVSAESALITQQDLAPQQRAAPQ
QKRSSPSEGLCPPGHHSIDGRDCISCKYGDYSTHWNLLFCLRCTRCDSEVELSPCTTTRNTVCQCE
EGTFREEDSPEMCRKCRGCPGMVKVGDCTPWSDIIECVHKESGIIGVTVAAVVLIIVAVFVCKSLWKK
VLPYLKIGICSGGGDPERVDRSSQRPGAEDNVLNEIVSILQPTQVPEQEMEVEPAEPTGVNMLSPGESE
HLLLEPAEAERSQRRRLV PANEGDPTETLRQCFDDFADLVPFDSWEPLMRKLGMDNEIKVAKAEAGHR
DTLYTMLIKWVNKTGRDASVHTLLDALETGERLAKQKIEDHLLSSGKFMYLEGNADSAMS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6501_f01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_147187

ORF Size: 1233 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_147187.1](#), [NP_671716.1](#)
RefSeq Size: 4073 bp

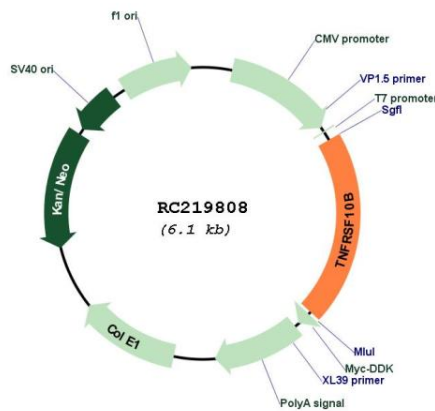
RefSeq ORF: 1236 bp

Locus ID: 8795

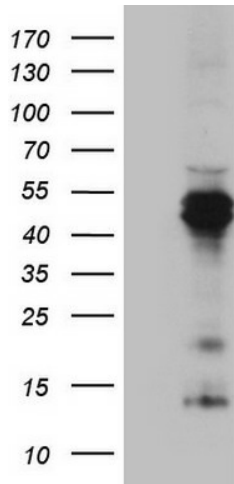
UniProt ID: [O14763](#)

Cytogenetics: 8p21.3
Domains: DEATH, TNFR
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: Apoptosis, Cytokine-cytokine receptor interaction, Natural killer cell mediated cytotoxicity, p53 signaling pathway
MW: 39.4 kDa
Gene Summary: The protein encoded by this gene is a member of the TNF-receptor superfamily, and contains an intracellular death domain. This receptor can be activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL/APO-2L), and transduces an apoptosis signal. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein. Two transcript variants encoding different isoforms and one non-coding transcript have been found for this gene. [provided by RefSeq, Mar 2009]

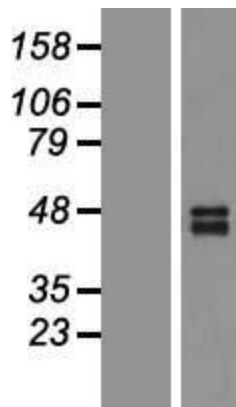
Product images:



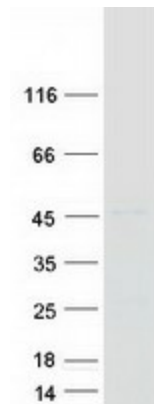
Circular map for RC219808



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TNFRSF10B (Cat# RC219808, 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-TNFRSF10B (Cat# [TA807323])(1:500). Positive lysates [LY407781] (100ug) and [LC407781] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY407781]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219808 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TNFRSF10B protein (Cat# [TP319808]). The protein was produced from HEK293T cells transfected with TNFRSF10B cDNA clone (Cat# RC219808) using MegaTran 2.0 (Cat# [TT210002]).