

Product datasheet for **MR209800**

Tnfrsf21 (NM_178589) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfrsf21 (NM_178589) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnfrsf21
Synonyms:	AA959878; DR6; R74815; TR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209800 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGACCCGGCAAGCAGCATCACCGCCTCGCCTCTTGCAGCCGACCCGGCCAAGTCGGAGCCA
CGATGGTCGCCGGCTCTTCTCCTGCTTGGATTCTCAGCACCATCACAGCTCAACCAGAACAAAAGAC
TCTGAGTCTCCCTGGCACCTACCGCCATGTTGACCGTACCACTGGCCAGGTGCTAACCTGCGACAAGTGC
CCAGCAGGAACGTATGTCTCCGAGCACTGTACCAACATGAGCCTGCGAGTCTGCAGCAGCTGCCCGCGG
GGACCTTTACCAGGCACGAGAACGGCATAGAGAGATGCCATGACTGTAGTCAGCCATGTCCATGGCCGAT
GATTGAGAGATTACCTTGTGCTGCCTTGACTGACCGAGAGTGCATCTGCCACCTGGAATGTATCAGTCT
AATGGTACCTGCGCTCCCATACAGTGTGCCCGTGGGCTGGGGTGTGCGGAAGAAAGGGACAGAGAATG
AAGATGTGCGCTGTAAGCAGTGCCTCGGGGTACCTTCTCTGACGTGCCTCCAGTGTGATGAAGTGTAA
AGCTCACACGGACTGTCTGGGTGAGAACCTGGAGGTGGTCAAGCCAGGGACCAAGGAGACAGACAACGTC
TGTGGCATGCGCCTGTTCTTCTCCAGCACAACCACCTTCTCTGGCACAGTTACCTTTTCTCACCTG
AGCATATGGAATCCCACGATGTCCCTTCTCCACCTATGAGCCCCAAGGATGAACCTCAACAGATTTCAA
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TCAACCAAGTGGGAAGGAAGGCACATAAGGACCCTGCCAAACCCACCACAAGTTACCCACCAGCAAGCCC
CCCACCACAGACACATTTGAAGCTGCTGCCATCGTCCATGGAGGCCACGGGTGAGAAGTCCAGCACAGC
CATCAAGGCCCAAGAGGGGTACCCACAGACAGAACGCTCACAAGCATTTCGACATCAACGAGCACTTG
CCTTGGATGATCGTCTTCTTCTGCTGGTCTGGTGTGATAGTGGTGTGCAGTATCCGAAAGAGCT
CCAGGACTCTCAAAAAGGGGCCCGGCAGGATCCAGCGCCATAGTGGAAAAGGGGGGTGAAGAAGTC
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CATCCGTGGCCCTGAGGCCAGCCTTGCCAGCTCATTAGCGCCTTGCAGCAGCCGACGCAATGATGTT
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GCCCCAGTCCGCTGAGCCCGAGCCCATCCCCAGTCTAACGTGAACTTGAGAATTCCTCTCCTGAC
AGTGGAGCCCTCACCGCTGGACAAGAACAAGTGTCTTCTCGTGGACGAGTCAAGAGCCCTTCTGCGTTGC
GACTCCACATCCAGTGGCTCTTACGACTGAGCAGAAACGGCTCCTTTATTACCAAGAAAAGAAGGACA
CAGTGTTCGCGCAGGTCCGCCTGGACCCCTGTGACTTGCAGCCATCTTTGATGACATGCTGCATATCCT
GAACCCCGAGGAGCTGCGGGTGATTGAAGAGATTTCCCAGGCTGAGGACAACTGGACCCCTCTTCGAG
ATCATTGGGGTCAAGAGCCAAGAAGCCAGCCAGACCCTTGGACTCTGTGTACAGTCACTTCTGACC
TATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209800 protein sequence
Red=Cloning site Green=Tags(s)

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MGTRASSITALASCRTAGQVGATMVAGSLLLLGFLSTITAQPEQKTLSLPGTYRHVDRTTGQVLTCDKC
PAGTYVSEHCTNMSLRVCSSCPAGTFTRHENGIERCHDCSQPCWPMIERLPCAALTDREICPPGMYQS
NGTCAPHTVCPVGGVGRKKGTENEDVRCKQCARGTFSDVPSVVMKCKAHTDCLGQNLVVKPGKETDNV
CGMRLFFSSTNPPSSGTVTF SHPEHMESHDPSSSTYEPQGMNSTDNSNSTASVRTKVP SGIEEGTVPDNTS
STSGKEGTNRTLPNPPQVTHQQAPHHRHILKLLPSSMEATGEKSSTAIAKPKRGHPRQNAHKHFDINEHL
PMMIVLFLLLVLIIVVCSIRKSSRTLKKGPRQDPSAIVEKAGLKKSLTPTQNREKIYYRNGHGIDILK
LVAAQVGSQWKDIYQFLCNASEREVAASFNGYTADHERAYAALQHWIRGPEASLAQLISALRQHRNDV
VEKIRGLMEDTTQLETDKLALPMSPLSPSPIPSPNVKLENSTLLTVEPSPLDKNKCFFVDESEPLLRC
DSTSSGSSALSRNGSFITKEKDTVLRQVRLDPCDLQPIFDDMLHILNPEELRVIEEIPQAEDKLDRLF
IIGVKSQEASQTL LLDVSYSHLPDLL
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_178589

ORF Size: 1968 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_178589.1](#), [NM_178589.2](#), [NM_178589.3](#), [NP_848704.1](#)

RefSeq Size: 3626 bp

RefSeq ORF: 1968 bp

Locus ID: 94185

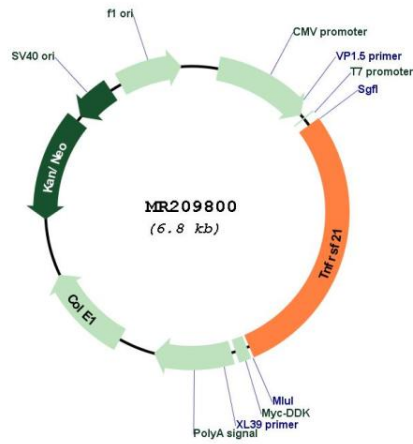
UniProt ID: [Q9EPU5](#)

Cytogenetics: 17 B3

MW: 72 kDa

Gene Summary: Promotes apoptosis, possibly via a pathway that involves the activation of NF-kappa-B. Can also promote apoptosis mediated by BAX and by the release of cytochrome c from the mitochondria into the cytoplasm. Plays a role in neuronal apoptosis, including apoptosis in response to amyloid peptides derived from APP, and is required for both normal cell body death and axonal pruning. Trophic-factor deprivation triggers the cleavage of surface APP by beta-secretase to release sAPP-beta which is further cleaved to release an N-terminal fragment of APP (N-APP). N-APP binds TNFRSF21; this triggers caspase activation and degeneration of both neuronal cell bodies (via caspase-3) and axons (via caspase-6). Negatively regulates oligodendrocyte survival, maturation and myelination. Plays a role in signaling cascades triggered by stimulation of T-cell receptors, in the adaptive immune response and in the regulation of T-cell differentiation and proliferation. Negatively regulates T-cell responses and the release of cytokines such as IL4, IL5, IL10, IL13 and IFNG by Th2 cells. Negatively regulates the production of IgG, IgM and IgM in response to antigens. May inhibit the activation of JNK in response to T-cell stimulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209800