

Product datasheet for **RN204317**

Tnfrsf21 (NM_001108207) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfrsf21 (NM_001108207) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tnfrsf21
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN204317 representing NM_001108207
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGACCTCCGCAAGCAGCATCACCGCCCTCGCCTCTTGCAGCCGCATCGCCGCCAAGTTGGAGCCA
 CGATGGTCGCCCGCTCCCTTCTCTTGTGGGTTCTCAGCACCATCACAGCCCAACCAGAACAAAAGAC
 TCTGAGTCTCACGGGCACGTACCGCCACGTTGACCGTACCACTGGCCAGGTGCTAACCTGCGACAAGTGT
 CCGGCAGGAACGTATGTCTCCGAGCACTGTACCAACACGAGCCTGCGAGTCTGCAGCAGCTGCCCTCGG
 GGACCTTTACCAGGCATGAGAACGGCATAGAGAGATGCCATGACTGTAGTCAGCCATGCCACGGCCGAT
 GATTGAGAGATTACCTTGTGCTGCCTTGACTGACCGAGAATGCATCTGCCACCCCGAATGTATCAGTCT
 AATGGGACCTGCGCTCCACACCGGTGTGCCCGTGGGCTGGGGTGTGAGGAAGAAAGGGACAGAGAATG
 AAGATGTGCGGTGAAGCAGTGTGCTCGCGGTACCTTCTCTGACGTGCCTCCAGTGTGATGAAGTGTAG
 AGCCACACGGACTGTCTGGGTGAGAACCTGATGGTGGTCAAGCAGGGGACTAAGGAGACAGACAACGTC
 TGTGGCGTGCACCTGTCTCCTCCAGCAGACCCCATCTTCCCCTGGCATAGCTACCTTTTCTCCTCCTG
 AGCACACGGAATCCCACGATGTCCCCTCCTCCACCTATGAGCCCCAAGGCATGAACCAACAGATTTCAA
 CTCTACTGCCTCTGTTAGAACTAAGGTACCAAGTGACATCCAGGAAGAGACAGTGCCTGACAATACAAGC
 TCCACGAGTGGGAAGGAGAGCACGAACAGGACCCTGCCAAACCCACCACAATTACCACCAGCAAGGCC
 CCCACCACAGACACATTTGAAGCTGCTGCCATCATCCATGGAGGCCACTGGTGAGAAGTCCAGCACAGC
 CATCAAGGCCCAAGAGGGGCCATCCCAGACAGAACCCACACAAGCATTTCGACATCAACGAGCATTTC
 CCCTGGATGATTGTAATCTTCTTCTGCTGGTCTGGTGTCTATTGTGGTGTGCAGTATCCGAAAGAGCT
 CTAGGACTCTCAAGAAGGGGCCCGCCGAGGATCCCAGTGCCATCATGAAAAGGCAGGGCTGAAGAAGTC
 CTTGACTCCAACCCAGAACCAGGAGAAAATGGATCTACTACCGCAATGGCCACGGTATTGACATCCTGAAG
 CTTGTAGCAGCGCAGGTGGGAAGCCAGTGGAAAGGACATCTATCAGTTTCTTTCGAAACGCCAGCGAGAGGG
 AGGTGGTGCCTTCTCCAATGGATACTGCAGACCATGAACGAGCCTATGCAGCTCTGCAGCACTGGAC
 CATCCGGGGCCCTGAGGCCAGCCTTGTCTCAGCTCATCAGCGCCTTGGCCAGCACCGACGCAATGATGTT
 GTGGAGAAGATTCGTGGGCTGATGGAAGATACTACGCAGTTGGAAACCGACAACTGGCTCTCCCCATGA
 GCCCAGTCCGCTTAGCCCGAGCCCATCCCAGTCTAACGTGAACTTGAGAATTCCTCTCCTGAC
 AGTGGAGCCCTCACCCCTGGACAAGAACAAGGGCTTCTTCGTGGACGAGTCGGAGCCCTTCTGCGTTGT
 GACTCCACGTCCAGCGGCTCTTTCAGCACTGAGCAGGAATGGCTCCTTTATAACCAAGAAAAGAAGGACA
 CAGTGTTCGGGCAGGTCCGCCTGGACCCCTGTGACTTGCAGCCATCTTTGACGACATGCTGCACATCCT
 GAATCCGGAAGAGCTGCGGGTAATCGAAGAGATTTCCCAGGCTGAGGACAACTGGACCGTCTCTTCGAG
 ATCATTGGGGTCAAGAGCCAAGAAGCCAGCCAGACCCTTTGGACTCTGTGTACAGCCATCTTCTGACC
 TATTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001108207
Insert Size: 1968 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](#)

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_001108207.1](#), [NP_001101677.1](#)

RefSeq Size: 4350 bp

RefSeq ORF: 1968 bp

Locus ID: 316256

UniProt ID: [D3ZF92](#)

Cytogenetics: 9q13

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). 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 (By similarity). Negatively regulates oligodendrocyte survival, maturation and myelination.[UniProtKB/Swiss-Prot Function]