

## Product datasheet for **MC206446**

### Tnfrsf21 (BC016420) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfrsf21 (BC016420) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnfrsf21
Synonyms:	TR7, DR6
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for BC016420, the custom clone sequence may differ by one or more nucleotides

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ATGGGGACCCGGGCAAGCAGCATCACCGCCCTCGCCTCTTGCAGCCGACCCGCCGCAAGTCGGAGCCA
CGATGGTCGCCGGCTCTTCTCCTGCTTGGATTCTCAGCACCATCACAGCTCAACCAGAACAAAAGAC
TCTGAGTCTCCCTGGCACCTACCGCCATGTTGACCGTACCCTGGCCAGGTGCTAACCTGGGACAAGTGC
CCAGCAGGAACGTATGTCTCCGAGCACTGTACCAACATGAGCCTGCGAGTCTGCAGCAGCTGCCCGCGG
GGACCTTTACCAGGCACGAGAACGGCATAGAGAGATGCCATGACTGTAGTCAGCCATGTCCATGGCCGAT
GATTGAGAGATTACCTTGTGCTGCCCTTACTGACCGAGAGTGCATCTGCCACCTGGAATGTATCAGTCT
AATGGTACCTGCGCTCCCATACAGTGTGCCCGTGGGCTGGGGTGTGCGGAAGAAAGGGACAGAGAATG
AAGATGTGCGCTGAAGCAGTGCCTCGGGGTACCTTCTCTGACGTGCCTTCCAGTGTGATGAAGTGTA
AGCTCACACGGACTGTCTGGGTGAGAACCTGGAGGTGGTCAAGCCAGGGACCAAGGAGACAGACAACGTC
TGTGGCATGCGCCTGTTCTTCCAGCACAAACCCACCTTCTCTGGCACAGTTACCTTTTCTCACCTG
AGCATATGGAATCCACGATGTCCCTTCTCCACCTATGAGCCCAAGGCATGAACCTCAACAGATCCAA
CTCTACTGCCTCTGTTAGAACTAAGGTACCAAGTGGCATCGAGGAAGGGACAGTGCCTGACAATACGAGC
TCAACCAAGTGGGAAGGAAGGCACTAATAGGACCCTGCCAAACCCACCACAAGTTACCCACCAGCAAGCCC
CCCACCACAGACACATTTGAAGCTGCTGCCATCGTCCATGGAGGCCACGGGTGAGAAGTCCAGCACAGC
CATCAAGGCCCAAGAGGGGTACCCACAGACAGAACGCTCACAAGCATTTCGACATCAACGAGCACTTG
CCTTGGATGATCGTCTTCTTCTGCTGGTCTGGTGTGATAGTGGTGTGCAGTATCCGAAAGAGCT
CCAGGACTCTCAAAAAGGGGCCCCGGCAGGATCCAGCGCCATAGTGAAAAGGGCGGGCTGAAGAAGTC
CCTGACTCCCACCCAGGTGGGAAGCCAGTGGAAAGGACATCTATCAGTTTCTTTGCAACGCCAGCGAGAGGG
AGGTGGCGGCCTTCTCAATGGATACACTGCAGATCATGAACGGGCCACGCGGCTCTGCAGCACTGGAC
CATCCGTGGCCCTGAGGCCAGCCTTGCCAGCTCATTAGCGCCTTGCAGCAGCAGCGCAATGATGTT
GTGGAGAAGATTGCTGGGCTGATGGAAGACACCACGAGTTGAAAACAGACAAACTGGCTCTCCCATGA
GCCCCAGTCCGCTGAGCCCGAGCCCCATCCCCAGTCTAACGTGAAACTTGAGAATTCACCTCTCCTGAC
AGTGGAGCCCTCACCGCTGGACAAGAACAAGTCTTCTCGTGGACGAGTCAAGAGCCCTTCTGCGTTGC
GACTCCACATCCAGTGGCTCTTCCAGCACTGAGCAGAAACGGCTCCTTTATTACCAAGAAAAGAAGGACA
CAGTGTTCGGCAGGTCCGCTGGACCCCTGTGACTTGCAGCCCATCTTGTATGACATGTCATATCCT
GAACCCCGAGGAGCTGCGGGTGAATGAAGAGATCCCCAGGCTGAGGACAACTGGACCCCTCTTCGAG
ATCATTGGGGTCAAGAGCCAAGAAGCCAGCCAGACCCTTGGACTCTGTGTACAGTCATCTTCTGACC
TATTGTAG
    
```

**Restriction Sites:** RsrII-NotI

**ACCN:** BC016420

**Insert Size:** 1968 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC016420](#), [AAH16420](#)

**RefSeq Size:** 2748 bp

**RefSeq ORF:** 1968 bp

**Locus ID:** 94185

**Cytogenetics:** 17 B3

**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]