

## Product datasheet for **SC320382**

### **TNFRSF1A (NM\_001065) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TNFRSF1A (NM_001065) Human Untagged Clone
Tag:	Tag Free
Symbol:	TNFRSF1A
Synonyms:	CD120a; FPF; p55; p55-R; p60; TBP1; TNF-R; TNF-R-I; TNF-R55; TNFAR; TNFR1; TNFR55; TNFR60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001065.2  
 CTCTGCTTTAATTTTCTCAGAATTCTCTGGACTGAGGCTCCAGTTCTGGCCTTTGGGGTT  
 CAAGATCACTGGGACCAGGCCGTGATCTCTATGCCCGAGTCTCAACCCTCAACTGTCACC  
 CCAAGGCACTTGGGACGTCTGGACAGACCGAGTCCCAGGAAAGCCCAAGCACTGCCGCTG  
 CCACACTGCCCTGAGCCCAAATGGGGGAGTGAGAGGCCATAGCTGTCTGGCATGGGCCTC  
 TCCACCGTGCCTGACCTGCTGCTGCCACTGGTGTCTCTGGAGCTGTTGGTGGGAATATAC  
 CCCTCAGGGGTTATTGGACTGGTCCCTCACCTAGGGGACAGGGAGAAGAGAGATAGTGTG  
 TGTCCCAAGGAAAATATATCCACCCTCAAATAATTGATTTGCTGTACCAAGTGCCAC  
 AAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGGGAGGATACGGACTGCAGGGAG  
 TGTGAGAGCGGCTCCTTACCCTTTCAGAAAACCACTCAGACACTGCCTCAGCTGCTCC  
 AAATGCCGAAAGGAAATGGGTCAGGTGGAGATCTTCTTGCACAGTGGACCGGGACACC  
 GTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAAAACCTTTTCCAGTGC  
 TTCAATTGCAGCCTCTGCCTCAATGGGACCGTGCACCTCTCTGCCAGGAGAAACAGAAC  
 ACCGTGTGCACCTGCCATGCAGGTTTCTTCTAAGAGAAAACGAGTGTGTCTCCTGTAGT  
 AACTGTAAGAAAAGCCTGGAGTGCACGAAGTTGTCCCTACCCAGATTGAGAATGTTAAG  
 GGCCTGAGGACTCAGGCCACACAGTGTGTGCCCTGGTCATTTTCTTGGTCTTTGC  
 CTTTTATCCCTCCTTCTTATTGGTTAATGTATCGCTACCAACGGTGAAGTCCAAGCTC  
 TACTCCATTGTTTGTGGGAAATCGACACCTGAAAAGAGGGGGAGCTTGAAGGAAGTACT  
 ACTAAGCCCTGGCCCAAAACCAAGCTTCACTCCACTCCAGGCTTACCCCCACCTG  
 GGCTTCAGTCCCGTGCCAGTTCACCTTACCTCCAGTCCACCTATACCCCCGGTGAC  
 TGTCCAACTTTGCGGCTCCCGCAGAGAGGTGGCACCACCCTATCAGGGGGTGACCC  
 ATCCTTGCAGACGCCCTCGCTCCGACCCATCCCAACCCCTTCAAGAGTGGGAGGAC  
 AGCGCCCAAGCCACAGAGCCTAGACACTGATGACCCCGCAGCTGTACGCCGTGGTG  
 GAGAACGTGCCCGTTGCGCTGGAAGGAATTCGTGCGGCGCCTAGGGCTGAGCGACCAC  
 GAGATCGATCGGCTGGAGCTGCAGAACGGGCGCTGCCTGCGGAGGCGCAATACAGCATG  
 CTGGGACCTGGAGGCGGCGCACGCCGCGGCGAGGCCACGCTGGAGCTGCTGGGACGC  
 GTGCTCCGCGACATGGACCTGCTGGGCTGCCTGGAGGACATCGAGGAGGCGCTTTGCGGC  
 CCCGCGCCCTCCCGCCGCGCCAGTCTTCTCAGATGAGGCTGCGCCCTGCGGGCAGC  
 TCTAAGGACCGTCTGCGAGATCGCTTCCAACCCACTTTTTTCTGAAAGGAGGGGTC  
 CTGAGGGGCAAGCAGGAGCTAGCAGCCGCTACTTGGTGCTAACCCCTCGATGTACATA  
 GCTTTTCTCAGTGCCTGCGCGCGCCGACAGTACGCGTGTGCGCGGAGAGAGGTGC  
 GCCGTGGGCTCAAGAGCCTGAGTGGGTGGTTTGCAGGATGAGGGACGCTATGCCTCATG  
 CCCGTTTTGGGTGCTCCTACCAGCAAGGCTGCTCGGGGGCCCTGGTTTCGTCCCTGAGCC  
 TTTTTCACAGTGCATAAGCAGTTTTTTTTGTTTTGTTTTGTTTTGTTTTGTTTTAAATC  
 AATCATGTTACACTAATAGAACTTGGCACTCCTGTGCCCTCTGCCTGGACAAGCACATA  
 GCAAGCTGAACTGTCTAAGGCAGGGGCGAGCACGGAACAATGGGGCCTTCAAGTGGAGC  
 TGTGGACTTTTGTACATACTAAAATTCTGAAGTTAAAGCTCTGCTCTTGGAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001065  
**Insert Size:** 2200 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](mailto: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](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001065.2](#), [NP\\_001056.1](#)

**RefSeq Size:** 2236 bp

**RefSeq ORF:** 1368 bp

**Locus ID:** 7132

**UniProt ID:** [P19438](#)

**Cytogenetics:** 12p13.31

**Domains:** DEATH, TNFR

**Protein Families:** Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane

**Protein Pathways:** Adipocytokine signaling pathway, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Cytokine-cytokine receptor interaction, MAPK signaling pathway

**Gene Summary:**

This gene encodes a member of the TNF receptor superfamily of proteins. The encoded receptor is found in membrane-bound and soluble forms that interact with membrane-bound and soluble forms, respectively, of its ligand, tumor necrosis factor alpha. Binding of membrane-bound tumor necrosis factor alpha to the membrane-bound receptor induces receptor trimerization and activation, which plays a role in cell survival, apoptosis, and inflammation. Proteolytic processing of the encoded receptor results in release of the soluble form of the receptor, which can interact with free tumor necrosis factor alpha to inhibit inflammation. Mutations in this gene underlie tumor necrosis factor receptor-associated periodic syndrome (TRAPS), characterized by fever, abdominal pain and other features. Mutations in this gene may also be associated with multiple sclerosis in human patients. [provided by RefSeq, Sep 2016]

Transcript Variant: This variant (1) encodes the longest isoform (1).