

Product datasheet for **SC321920**

TRAIL (TNFSF10) (NM_003810) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRAIL (TNFSF10) (NM_003810) Human Untagged Clone
Tag:	Tag Free
Symbol:	TRAIL
Synonyms:	Apo-2L; APO2L; CD253; TL2; TNLG6A; TRAIL
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_003810.2
 CCACGCGTCCGAGAAGGAAGGGCTTCAGTGACCGGCTGCCTGGCTGACTTACAGCAGTCA
 GACTCTGACAGGATCATGGCTATGATGGAGGTCCAGGGGGACCCAGCCTGGGACAGACC
 TGGCTGCTGATCGTGATCTTACAGTGCCTGCAGTCTCTGTGTGGCTGTAACCTTAC
 GTGTACTTTACCAACGAGCTGAAGCAGATGCAGGACAAGTACTCCAAAAGTGGCATTGCT
 TGTTTTCTAAAAGAAGATGACAGTTATTGGGACCCCAATGACGAAGAGAGTATGAACAGC
 CCCTGCTGGCAAGTCAAGTGGCAACTCCGTCAGCTCGTTAGAAAAGATGATTTTGAGAACC
 TCTGAGGAAACCAATTTCTACAGTTCAAGAAAAGCAACAAAATATTTCTCCCTAGTGAGA
 GAAAGAGGTCTCAGAGAGTAGCAGCTCACATAACTGGGACCAGAGGAAGCAACACA
 TTGTCTTCTCCAACTCCAAGAATGAAAAGGCTCTGGGCCGAAAATAAACTCCTGGGAA
 TCATCAAGGAGTGGGCATTATTCTGAGCAACTTGCCTTGGAGGAATGGTGAAGTGGT
 ATCCATGAAAAAGGGTTTTACTACATCTATTCCCAAACATACTTTTCGATTTTCAGGAGGAA
 AAAAAAGAAAACAAAAGAACGACAAAACAATGGTCCAATATATTTACAAATACACAAGT
 TATCCTGACCCTATATTGTTGATGAAAAGTCTAGAAAATAGTTGTTGGTCTAAAGATGCA
 GAATATGGACTCTATTCCATCTATCAAGGGGGAATATTTGAGCTTAAGGAAAATGACAGA
 ATTTTTGTTTCTGTAACAAATGAGCACTTGATAGACATGGACCATGAAGCCAGTTTTTTC
 GGGCCTTTTTAGTTGGCTAACTGACCTGGAAAAGAAAAGCAATAACCTCAAAGTGA
 TCAAGTTTTCAGGATGATACACTATGAAGATGTTTCAAAAAATCTGACCAAAAACAA
 ACAGAAAACAGAAAACAAAAAACCTCTATGCAATCTGAGTAGAGCAGCCACAACCAAAA
 AATTCTACAACACACTGTTCTGAAAGTGAAGTCACTTATCCCAAGAAAATGAAATTGCT
 GAAAGATCTTTCAGGACTCTACCTCATATCAGTTTGTAGCAGAAAATCTAGAAGACTGTC
 AGCTTCCAAACATTAATGCAATGGTTAACATCTTCTGTCTTTATAATCTACTCCTTGTA
 AGACTGTAGAAGAAAGCGCAACAATCCATCTCTCAAGTAGTGTATCACAGTAGTAGCCTC
 CAGGTTTTCTTAAGGGACAACATCCTTAAGTCAAAAGAGAGAAGAGGCACCACTAAAAGA
 TCGCAGTTTGCCTGGTGCAGTGGCTCACACCTGTAATCCCAACATTTTGGGAACCCAAGG
 TGGGTAGATCACGAGATCAAGAGATCAAGACCATAGTGACCAACATAGTGAACCCCATC
 TCTACTGAAAGTGCAAAAATTAGCTGGGTGTGTTGGCACATGCCTGTAGTCCCAGCTACT
 TGAGAGGCTGAGGCAGGAGAATCGTTTGAACCCGGGAGGCAGAGGTTGCAGTGTGGTGG
 ATCATGCCACTACACTCCAGCCTGGCGACAGAGCGAGACTTGGTTTCAAAAAAAAAAAAA
 AAAAAAATTCAGTAAGTACGTGTATTTTTTTCAATAAAATTCATTACAGTAAAAAAA
 AAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003810

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).

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_003810.2](#), [NP_003801.1](#)

RefSeq Size: 1776 bp

RefSeq ORF: 846 bp

Locus ID: 8743

UniProt ID: [P50591](#)

Cytogenetics: 3q26.31

Domains: TNF

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Apoptosis, Cytokine-cytokine receptor interaction, Natural killer cell mediated cytotoxicity

Gene Summary: The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. This protein binds to several members of TNF receptor superfamily including TNFRSF10A/TRAILR1, TNFRSF10B/TRAILR2, TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and possibly also to TNFRSF11B/OPG. The activity of this protein may be modulated by binding to the decoy receptors TNFRSF10C/TRAILR3, TNFRSF10D/TRAILR4, and TNFRSF11B/OPG that cannot induce apoptosis. The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.