

## Product datasheet for **SC321759**

### CD95 (FAS) (NM\_000043) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD95 (FAS) (NM_000043) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD95
Synonyms:	ALPS1A; APO-1; APT1; CD95; FAS1; FASTM; TNFRSF6
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\_000043 edited  
 GAGCCCTCCCAACCCGGGCGTTCCCCAGCGAGGCTTCCTTCCCATCCTCCTGACCACCG  
 GGGCTTTTCGTGAGCTCGTCTCTGATCTCGCGCAAGAGTGACACACAGGTGTTCAAAGAC  
 GCTTCTGGGGAGTGAGGGAAGCGGTTTACGAGTGACTTGGCTGGAGCCTCAGGGGCGGGC  
 ACTGGCACGGAACACACCCTGAGGCCAGCCCTGGCTGCCAGGCGGAGCTGCCTTTCTC  
 CCGCGGTTGGTGGACCCGCTCAGTACGGAGTTGGGAAGCTCTTTCACCTCGGAGGATT  
 GCTCAACAACCATGCTGGGCATCTGGACCCTCTACCTCTGGTTTACGTCTGTTGCTA  
 GATTATCGTCCAAAAGTGTAAATGCCCAAGTGACTGACATCAACTCCAAGGGATTGGAAT  
 TGAGGAAGACTGTTACTACAGTTGAGACTCAGAAGTTGGAAGGCCTGCATCATGATGGCC  
 AATTCTGCCATAAGCCCTGTCCTCCAGGTGAAAGGAAAGCTAGGGACTGCACAGTCAATG  
 GGGATGAACCAGACTGCGTGCCCTGCCAAGAAGGGAAGGAGTACACAGACAAAGCCATT  
 TTTCTTCCAAATGCAGAAGATGTAGATTGTGTGATGAAGGACATGGCTTAGAAGTGAA  
 TAAACTGCACCCGACCCAGAATACCAAGTGCAGATGTAACCAAACTTTTTTTGTA  
 ACTCTACTGTATGTAACACTGTGACCCTTGCACCAATGTGAACATGGAATCATCAAGGA  
 ATGCACACTACCAGCAACCAAGTGCAAGAGGAAAGGATCCAGATCTAACTTGGGGTGGC  
 TTTGTCTTCTTTTGGCAATTCCAATAATTGTTGGGTGAAGAGAAAGGAAAGTACAGA  
 AAACATGCAGAAAGCACAGAAAGGAAAACCAAGTTTCTCATGAATCTCCAACCTTAAATC  
 CTGAAACAGTGGCAATAAATTTATCTGATGTTGACTTGAGTAAATATATCACCATTATG  
 CTGGAGTCATGACACTAAGTCAAGTTAAAGGCTTTGTTTCAAAGAATGGTGTCAATGAAG  
 CCAAAATAGATGAGATCAAGAATGACAATGTCCAAGACACAGCAGAACAGAAAGTTCAAC  
 TGCTTCGTAATTGGCATCAACTTATGGAAGAAAAGAGCGTATGACACATTGATTAAG  
 ATCTCAAAAAGCCAATCTTTGTACTCTGCAGAGAAAATTCAGACTATCATCCTCAAGG  
 ACATTACTAGTGACTCAGAAAATTCAACTTCAAGAAATGAAATCCAAGCTTGGTCTAGA  
 GTGAAAAACAACAAATTCAGTTCTGAGTATATGCAATTAGTGTGTTGAAAAGATTCTAAT  
 AGCTGGCTGTAATACTGCTTGGTTTTTACTGGGTACATTTTATCATTATTAGCGCTG  
 AAGAGCCAACATATTTGTAGATTTTAAATATCTCATGATTCTGCCTCCAAGGATGTTAA  
 AATCTAGTTGGGAAAACAACTTCAAGAGTAAATGCAGTGGCATGCTAAGTACCCAA  
 ATAGGAGTGTATGCAGAGGATGAAAGATTAAGATTATGCTCTGGCATCTAACATATGATT  
 CTGTAGTATGAATGTAATCAGTGTATGTTAGTACAAATGTCTATCCACAGGCTAACCCCA  
 CTCTATGAATCAATAGAAGAAGCTATGACCTTTTGTGAAATATCAGTTACTGAACAGGC  
 AGGCCACTTTGCCTCTAAATTACCTCTGATAATTCTAGAGATTTTACCATATTTCTAAAC  
 TTTGTTTATAACTCTGAGAAGATCATATTTATGTAAGTATATGATTTGAGTGCAGAAT  
 TTAATAAGGCTCTACCTCAAAGACCTTTGCACAGTTTATTGGTGTCAATTATACAATA  
 TTTCAATTGTGAATTCACATAGAAAACATTAATTTATAATGTTTGACTATTATATATGTG  
 TATGCATTTTACTGGCTCAAACCTACTTCTTTCTCAGGCATCAAAGCATTGTTGAG  
 CAGGAGATATTACTAGAGCTTTGCCACCTCTCCATTTTGCCTTGGTGTCACTTAAT  
 GGCCTAATGCACCCCAACATGGAATATCACCAAAAAATACTTAATAGTCCACCAAAA  
 GGCAAGACTGCCCTTAGAAATCTAGCCTGGTTTGGAGATACTAACTGCTCTCAGAGAAA  
 GTAGCTTTGTGACATGTCATGAACCCATGTTTGCATCAAGATGATAAAATAGATTCTT  
 ATTTTCCCCCACCCCGAAAATGTTCAATAATGTCCCATGTAACCTGCTACAAATGG  
 CAGCTTATACATAGCAATGGTAAAATCATCATCTGGATTTAGGAATTGCTTGTGCATAC  
 CCCAAGTTTCTAAGATTTAAGATTCTCCTTACTACTATCCTACGTTTAAATATCTTTGA  
 AAGTTTGTATTAATGTGAATTTAAGAAATAATTTTATATTTCTGTAATGTAACCTG  
 TGAAGATAGTTATAAACTGAAGCAGATACCTGGAACCACTAAAGAACTCCATTTATGG  
 AGGATTTTTTGGCCCTTGTGTTTGAATATAAAATATAGGTAAGTACGTAATTTAA  
 TAATGTTTTTGGTAA  
 AAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_000043  
**Insert Size:** 2700 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000043.3.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_000043.3</a> , <a href="#">NP_000034.1</a>
<b>RefSeq Size:</b>	2755 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	355
<b>UniProt ID:</b>	<a href="#">P25445</a>
<b>Cytogenetics:</b>	10q23.31
<b>Domains:</b>	DEATH, TNFR
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
<b>Protein Pathways:</b>	Allograft rejection, Alzheimer's disease, Apoptosis, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, p53 signaling pathway, Pathways in cancer, Type I diabetes mellitus

**Gene Summary:**

The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor contains a death domain. It has been shown to play a central role in the physiological regulation of programmed cell death, and has been implicated in the pathogenesis of various malignancies and diseases of the immune system. The interaction of this receptor with its ligand allows the formation of a death-inducing signaling complex that includes Fas-associated death domain protein (FADD), caspase 8, and caspase 10. The autoproteolytic processing of the caspases in the complex triggers a downstream caspase cascade, and leads to apoptosis. This receptor has been also shown to activate NF-kappaB, MAPK3/ERK1, and MAPK8/JNK, and is found to be involved in transducing the proliferating signals in normal diploid fibroblast and T cells. Several alternatively spliced transcript variants have been described, some of which are candidates for nonsense-mediated mRNA decay (NMD). The isoforms lacking the transmembrane domain may negatively regulate the apoptosis mediated by the full length isoform. [provided by RefSeq, Mar 2011]

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.