

Product datasheet for **SC118272**

Syndecan 1 (SDC1) (NM_002997) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syndecan 1 (SDC1) (NM_002997) Human Untagged Clone
Tag:	Tag Free
Symbol:	Syndecan 1
Synonyms:	CD138; SDC; SYND1; syndecan
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_002997 edited
 GAATTCGGCACGAGGCCGAATCCGAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGA
 CTCCAGCCGGCGGACCCTGCAGCCCTCGCTGGGACAGCGGCGCGCTGGGACGGCGCCCA
 AGAGAGCATCGAGCAGCGGAACCCGGAAGCCGGCCCGCAGCCGCGACCCGCGCAGCCTG
 CCGCTCTCCCGCCGCGGTCCGGGACAGCATGAGGCGCGCGCGCTCTGGCTCTGGCTGTG
 CGCGCTGGCGCTGAGCCTGCAGCCGGCCTGCCCAAATTGTGGTACTAATTTGCCCC
 TGAAGATCAAGATGGCTCTGGGATGACTCTGACAACCTCTCCGGCTCAGGTGCAGGTGC
 TTTGCAAGATATCACCTTGTACAGCAGACCCCTCCACTTGAAGGACACGCAGCTCCT
 GACGGCTATTCCACGTCTCCAGAACCACCGCCTGGAGGCTACAGCTGCCTCCACCTC
 CACCCTGCCGGCTGGAGAGGGGCCAAGGAGGGAGAGGCTGTAGTCTGCCAGAAGTGA
 GCCTGGCCTCACCGCCGGGAGCAGGAGGCCACCCCGACCCAGGGAGACCACACAGCT
 CCCGACCACTCATCAGGCCTCAACGACCACAGCCACCACGGCCAGGAGCCGCCACCTC
 CCACCCACAGGGACATGCAGCCTGGCCACCATGAGACCTCAACCCCTGCAGGACCCAG
 CCAAGCTGACCTTCACTCCACACAGAGGATGGAGTCTTCTGCCACCGAGAGGGC
 TGCTGAGGATGGAGCCTCAGTCACTCCAGCAGCAGAGGGCTCTGGGAGCAGGACTT
 CACCTTTGAAACCTCGGGGGAGAATACGCTGTAGTGGCCGTGGAGCCTGACCCGCGAA
 CAGTCCCAAGTGGATCAGGGGGCCACGGGGCCTCACAGGGCCTCTGGACAGGAAAGA
 GGTGCTGGGAGGGTATTGCCGGAGGCCTCGTGGGGCTCATCTTTGCTGTGTGCCTGGT
 GGGTTTTCATGCTGTACCGCATGAAGAAGAAGGACGAAGGCAGCTACTCCTGGAGGAGCC
 GAAACAAGCCAACGGCGGGGCTACCAGAAGCCACCAACAGGAGGAATTCTATGCCTG
 ACGCGGGAGCCATGCGCCCCCTCCGCCCTGCCACTCACTAGGCCCCACTTGCTCTTCC
 TTGAAGAACTGCAGGCCCTGGCCTCCCTGCCACCAGGCCACCTCCCAAGCATTCCAGCC
 CCTCTGGTCTGCTGCCACGAGTCTGGGGTGTGCTGGGAGTCCACTCTGCTTCTC
 TGACTTCTGCCTGGAGACTTAGGGCACCAGGGTTTCTCGCATAGGACCTTCCACCACA
 GCCAGCCTGGCATCGCACCATTCTGACTCGGTTTCTCAAACCTGAAGCAGCCTCTCC
 CAGGTCCAGCTCTGGAGGGGAGGGGATCCGACTGCTTTGGACCTAAATGGCCTCATGTG
 GCTGGAAGATCTGCGGGTGGGGCTTGGGGCTCACACACCTGTAGCACTTACTGGTAGGA
 CCAAGCATCTGGGGGGTGGCCGCTGAGTGGCAGGGGACAGGAGTCCACTTTGTTTCGT
 GGGGAGGTCTAATCTAGATATCGACTTGTTTTGCACATGTTTCTCTAGTTCTTTGTTT
 ATAGCCAGTAGACCTTGTACTTCTGAGGTAAGTTAAGTAAGTTGATTCCGGTATCCCC
 CATCTTGTCCCTAATCTATGGTCCGGAGACAGCATCAGGGTTAAGAAGACTTTTTTTT
 TTTTTTTTXXX
 AAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002997 unedited
 CGGGTAGCATTTGTATACGACTTATATAGGGCGCCGGAATTCGCACGAGGCCGAATCC
 GAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGACTCCAGCCGGCGGACCCTGCAGC
 CCTCGCCTGGGACAGCGGCGCGCTGGGCAGGCGCCAAGAGAGCATCGAGCAGCGGAACC
 CGGAAGCCGGCCGAGCCGCGACCCGCGCATCCTGCCGCTCTCCCGCCGCGGTCCGG
 GCAGCATGAGGCGCGCGGCTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAGCCTGCAGC
 CGGCCCTGCCCAAATTGTGGTACTAATTTGCCCTGAAGTCAAGATGGCTCTGGGG
 ATGACTCTGACAACCTCTCCGGCTCAGGTGCAGGTGCTTTGCAAGATATCACCTTGTAC
 AGCAGACCCCTCCACTTGAAGGACACGCAGCTCCTGACGGCTATCCACGTCTCCAG
 AACCCACCGCCTGGAGGCTACAGCTGCCTCCACTCCACCTGCCGGCTGGAGAGGGGC
 CCAAGGAGGGAGAGGCTGTAGTCTGCCAGAAGTGGAGCCTGGCCTCACCGCCGGGAGC
 AGGAGGCCACCCCGACCCAGGAGACCACACAGCTCCCGACCACTCATCAGGCCTCAA
 CGACCACAGCCACCACGGCCAGGAGCCCGCCACCTCCACCCNACAGGGACATGCAGC
 CTGGCCACCATGAGACCTCAACCCCTGCAGGACCCAGCCAAGCTGACCTTCACTCCCC
 ACACAGAGGATGGGAGTCTTCTGCCANCGAGAGGGTCTNGAGATGGAGCCTNCAGTC
 AGCTCCAGCACAGAGGGCTCTNGGGGAGCAGACTTTCACCTTTGAACCTCCGGGGAGAAT
 ACGCTGTATGG

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_002997 unedited
CTCCCCNAATTGACTTGNACCGCGCCCGTATNCTAGNGATCNGTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTC
CCGGGCCCCCTTTTTTAAAAGTTTATTCCTTTGGGAAAACCTCCGGGCCGGGAAAAC
CCCTTTGGATAAAATAAAGTTTCCCAAACCAAAAACTTTTCTTTTGGAAAATTTT
CCTGATCCCCCCCAGGGCCAGGGGGGCCCCGGGGCCTACCGGAAAACCTGCCCTTG
GATGGGGGCCCTAAAACACAGCTTTGCCCAAACCCCTCGTTAATTTCCCGGGGAA
ACCCCCCGGGAACGGCCCCCGGCCAAGAAGGGGGGTTTTTTCAAGAAAAATTTT
TTAGGGCCCGGGGGCGCCCCCAAAAAGGTCTTTTGTGGGGGGGGGGGGGGGCC
CCCATTTTTTTTTTTTCCCGGGGGTGTCTTCCAAGGGGGGGGGCGGCCCCCC
CCCCAAAGAGAGGGGTGCGGGGGGGCGGGCCCCCCCCCTTTTTTTTTTATAAG
AAGGGGGCCCCCCCCCCCCCGCCAGAGTGGGGGGGGGGGGCCCCCAAAAAAA
AAAAAAAAAAGAGAGGGGGCGCCGCCACAAAAAACAAACACCCCGCTGG
GGCGGTGTTGAGGGCGCCCGCCNCTCCACACAAACACCCCCACCACCCCC
CCCCAACCCCCGCGCCGGGGGGGGGGGGGGGGGGGGGGGGGGCCCCGCCNAAAA
AAAAAAAAAAAAAAAAAAAAAGTTTGTGGGGCTGGCGCGTCCCGCCCCCAAC
ACAACACAAAAAAAAGGGAGGGGGCGGGGGGGGGGGGGCGCGCTTCTTC
```

Restriction Sites:

NotI-NotI

ACCN:

NM_002997

Insert Size:

2500 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 10µg of transfection-ready, dried plasmid DNA (reconstitute with 100 µl 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_002997.4](#), [NP_002988.3](#)**RefSeq Size:**

3217 bp

RefSeq ORF:	933 bp
Locus ID:	6382
UniProt ID:	P18827
Cytogenetics:	2p24.1
Domains:	Syndecan
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), ECM-receptor interaction
Gene Summary:	<p>The protein encoded by this gene is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans mediate cell binding, cell signaling, and cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan-1 protein functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. Altered syndecan-1 expression has been detected in several different tumor types. While several transcript variants may exist for this gene, the full-length nature of only two have been described to date. These two represent the major variants of this gene and encode the same protein. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p>