

## Product datasheet for **SC301129**

### Syndecan 1 (SDC1) (NM\_001006946) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syndecan 1 (SDC1) (NM_001006946) 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:** >SC118272 representing NM\_002997.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCGGCCGCGAATTCGGCACGAGGCCGAATCCGAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGAC  
 TCCAGCCGGCGGACCTGCAGCCCTCGCTGGGACAGCGCGCGCTGGGAGGCGCCCAAGAGAGCATC  
 GAGCAGCGGAACCCGGAAGCCGGCCCGCAGCCGCGCAGCCTGCCGCTCTCCCGCCGCGGT  
 CCGGGCAGCATGAGGCGCGCGCGCTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAGCCTGCAGCCGGCC  
 CTGCCGCAAATTGTGGCTACTAATTTGCCCTGAAGATCAAGATGGCTCTGGGGATGACTCTGACAAC  
 TTCTCCGGCTCAGGTGCAGGTGCTTTGCAAGATATCACCTTGTCACAGCAGACCCCTCCACTTGGAAG  
 GACACGCAGCTCCTGACGGCTATTCCCACGTCTCCAGAACCACCGGCCTGGAGGCTACAGCTGCCTCC  
 ACCTCCACCTGCCGGCTGGAGAGGGGCCAAGGAGGAGAGGCTGTAGTCTGCCAGAAGTGGAGCCT  
 GGCCTCACCGCCCGGAGCAGGAGGCCACCCCGACCCAGGGAGACCACACAGCTCCCGACCACTCAT  
 CAGGCCTCAACGACCACAGCCACCAGGCCAGGAGCCGCCACCTCCACCCACAGGGACATGCAG  
 CCTGGCCACCATGAGACCTCAACCCCTGCAGGACCCAGCAAGCTGACCTTCACACTCCCCACACAGAG  
 GATGGAGTCTTCTGCCACCGAGAGGGCTGCTGAGGATGGAGCCTCAGTCAGCTCCACAGCAGAGAG  
 GGTCTCTGGGAGCAGGACTTCACCTTTGAAACCTCGGGGAGAAACGGCTGTAGTGGCCGTGGAGCCT  
 GACCGCCGGAACAGTCCCCAGTGGATCAGGGGGCCACGGGGGCTCACAGGGCCTCCTGGACAGAAA  
 GAGGTGCTGGGAGGGGTATTGCCGGAGGCCTCGTGGGGCTCATCTTTGCTGTGTGCCTGGTGGTTTC  
 ATGCTGTACCGCATGAAGAAGAAGGACGAAGGCAGCTACTCCTTGAGGAGGCCAAACAAGCCAACGGC  
 GGGGCTACCAGAAGCCCAACAGGAGGAATCTATGCCTGACGCGGGAGCCATGCGCCCCCTCCG  
 CCCTGCCACTACTAGGCCCCACTTGCCTTTCTTGAAGAACTGCAGGCCCTGGCCTCCCCTGCCAC  
 CAGGCCACCTCCCAGCATTCCAGCCCCCTGCTGCTCCTGCCACGGAGTCTGGGGGTGTGCTGGGA  
 GCTCCACTCTGCTTCTGACTTCTGCTGGAGACTTAGGGCACCAGGGGTTTCTCGCATAGGACCTTT  
 CCACCACAGCCAGCACCCTGGCATCGCACCATTCTGACTCGGTTTCTCAAACCTGAAGCAGCCTCTCCCC  
 AGGTCCAGCTCTGGAGGGAGGGGATCCGACTGCTTTGACCTAAATGGCCTCATGTGGCTGGAAGAT  
 CCTGCGGGTGGGCTTGGGGCTCACACCTGTAGCACTTACTGGTAGGACCAAGCATCTTGGGGGGT  
 GGCCGCTGAGTGGCAGGGGACAGGAGTCCACTTTGTTTCGTGGGAGGTCTAATCTAGATATCGACTTG  
 TTTTGCACATGTTTCTCTAGTTCTTTGTTTCATAGCCAGTAGACCTTGTACTTCTGAGGTAAGTTA  
 AGTAAGTTGATTCGGTATCCCCCATCTTGCTTCCCTAATCTATGGTCGGGAGACAGCATCAGGGTTAA  
 GAAGACTTTTTTTTTTTTTTAACTAGGAGAACCAAATCTGGAAGCCAAATGTAGGCTTAGTTTGTG  
 TGTGTCTCTTGAAGTTTGTGCTCATGTGTGCAACAGGGTATGGACTATCTGTCTGGTGGCCCCGTTTC  
 TGGTGGTCTGTTGGCAGGCTGGCCAGTCCAGGCTGCCGTGGGGCCGCCGCTCTTTCAAGCAGTCGTGC  
 CTGTGTCCATGCCCTCAGGGCCATGCTGAGGCCTGGGCCGCTGCCACGTTGGAGAAGCCCGTGTGAGAA  
 GTGAATGCTGGGACTCAGCCTTCAGACAGAGAGGACTGTAGGGAGGGCGGCAGGGGCTGGAGATCCTC  
 CTGCAGACCACGCCGCTCCTGCCTGTGGCGCCGTCTCCAGGGGCTGCTTCTCCTGGAAATTGACGAGG  
 GGTGTCTTGGGCAGAGCTGGCTCTGAGCGCCTCCATCCAAGGCCAGGTTCTCCGTTAGCTCCTGTGGCC  
 CCACCTGGGCCCTGGGCTGGAATCAGGAATATTTTCAAAGAGTGATAGTCTTTTGGCTTTTGGCAAAA  
 CTCTACTTAATCCAATGGGTTTTCCCTGTACAGTAGATTTTCAAATGTAATAAACTTTAATAAAAG  
 TAGTCCTGTGAACTCGAC  
 TCTAGATTGCGGCCGC

**Restriction Sites:** NotI-NotI  
**ACCN:** NM\_001006946  
**Insert Size:** 1900 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	The open reading frame of this clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM_001006946.1.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001006946.1</a> , <a href="#">NP_001006947.1</a>
<b>RefSeq Size:</b>	3309 bp
<b>RefSeq ORF:</b>	933 bp
<b>Locus ID:</b>	6382
<b>UniProt ID:</b>	<a href="#">P18827</a>
<b>Cytogenetics:</b>	2p24.1
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs), ECM-receptor interaction

**Gene Summary:**

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 natures 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]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.