

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: >OriGene sequence for NM_001006946 edited
 CCGAATCCGAGCCGAGCGGAGAGGAATCCGGCAGTAGAGAGCGGACTCCAGCCGGCGGAC
 CCTGCAGCCCTCGCTGGGACAGCGGCGCTGGGCAGGCGCCCAAGAGAGCATCGAGCA
 GCGGAACCCGGAAGCCGGCCCGCAGCCGCGACCCGCGCAGCCTGCCGCTCTCCCGCCG
 CGGTCCGGGCAGCATGAGGCGCGCGGCTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAG
 CCTGCAGCCGGCCCTGCCGAAAATTGTGGCTACTAATTTGCCCCCTGAAGATCAAGATGG
 CTCTGGGGATGACTCTGACAACTTCTCCGGCTCAGGTGCAGGTGCTTTGCAAGATATCAC
 TTGTACAGCAGACCCCTCCACTTGGGAGGACACGCAGCTCCTGACGGCTATTCCAC
 GTCTCCAGAACCACCGCCTGGAGGCTACAGTGCCTCCACCTCCACCTGCCGGCTGG
 AGAGGGGCCCAAGGAGGGAGAGGCTGTAGTCTGCCAGAAGTGGAGCCTGGCCTCACCGC
 CCGGGAGCAGGAGGCCACCCCGACCCAGGGAGACCACAGCTCCCGACCACTCATCA
 GGCCTCAACGACCACAGCCACCAGGCCAGGAGCCGCCACCTCCACCCACAGGGA
 CATGCAGCCTGGCCACCATGAGACCTCAACCCCTGCAGGACCCAGCAAGCTGACCTTCA
 CACTCCACACAGAGGATGGAGGTCTTCTGCCACCGAGAGGGTCTGAGGATGGAGC
 CTCAGTCAGCTCCAGCAGCAGAGGGCTCTGGGAGCAGGACTTCACCTTTGAAACCTC
 GGGGAGAAATACGGCTGTAGTGGCCGTGGAGCCTGACCGCCGGAACCAAGTCCCAAGTGA
 TCAGGGGGCCACGGGGCCTCACAGGGCCTCTGGACAGGAAAGAGGTGCTGGGAGGGGT
 CATTGCCGGAGGCTCGTGGGGCTCATCTTTGCTGTGTGCCTGGTGGGTTTCATGCTGTA
 CCGCATGAAGAAGAAGGACGAAGGCAGCTACTCCTTGGAGGAGCCGAAACAAGCCAACGG
 CGGGGCTACAGAAAGCCACCAAAACAGGAGGAATTCTATGCCTGACGCGGGAGCCATGC
 GCCCCTCCGCCCTGCCACTCACTAGGCCCCCACTTGCCTTTCCTTGAAGAAGTGCAGG
 CCCTGGCCTCCCTGCCACCAGGCCACCTCCCAAGCATTCCAGCCCTCTGGTGCCTCT
 GCCACGGAGTCTGGGGTGTGCTGGGAGCTCCACTCTGCTTCTGACTTCTGCCTGGA
 GACTTAGGGCACCAGGGTTTCTCGCATAGGACCTTCCACCACAGCCAGCACCTGGCAT
 CGCACCATTCTGACTCGGTTTCTCCAAACTGAAGCAGCCTCTCCCAAGTCCAGCTCTGG
 AGGGGAGGGGATCCGACTGCTTTGGACCTAAATGGCCTCATGTGGCTGGAAGATCCTGC
 GGGTGGGGCTTGGGGCTCACACCTGTAGCACTTACTGGTAGGACCAAGCATCTTGGG
 GGGTGGCCGCTGAGTGGCAGGGGACAGGAGTCCACTTTGTTTCGTGGGAGGTCTAATCT
 AGATATCGACTTGTTCACATGTTTCTCTAGTCTTTGTTTCATAGCCAGTAGACC
 TTGTTACTTCTGAGGTAAGTAAAGTAAGTTGATTTCGGTATCCCCCATCTTGCTTCCTA
 ATCTATGGTCGGGAGACAGCATCAGGGTAAAGAAGACTTTTTTTTTTTTTTTTTAAAAAA
 AA
 AAAAAA

Restriction Sites: NotI-NotI

ACCN: NM_001006946

Insert Size: 1900 bp

OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
OTI Annotation:	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.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001006946.1, NP_001006947.1</u>
RefSeq Size:	3309 bp
RefSeq ORF:	933 bp
Locus ID:	6382
UniProt ID:	<u>P18827</u>
Cytogenetics:	2p24.1
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	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.