

Product datasheet for **RG217847**

Syndecan 1 (SDC1) (NM_001006946) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Syndecan 1 (SDC1) (NM_001006946) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Syndecan 1 |
| Synonyms: | CD138; SDC; SYND1; syndecan |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG217847 representing NM_001006946 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCGCGGGCGCTCTGGCTCTGGCTGTGCGCGCTGGCGCTGAGCCTGCAGCCGGCCCTGCCGAAA
TTGTGGCTACTAATTTGCCCCCTGAAGATCAAGATGGCTCTGGGGATGACTCTGACAACCTCTCCGGCTC
AGGTGCAGGTGCTTTGCAAGATATCACCTTGTACAGCAGACCCCTCCACTTGAAGGACACGCAGCTC
CTGACGGCTATCCACGCTCTCCAGAACCACCGGCTGGAGGCTACAGCTGCCTCCACCTCCACCTCG
CGGCTGGAGAGGGGCCAAGGAGGGAGAGGCTGTAGTCCTGCCAGAAGTGGAGCCTGGCCTCACCGCCCG
GGAGCAGGAGGCCACCCCGACCCAGGGAGACCACACAGCTCCCGACCACTCATCAGGCCTCAACGACC
ACAGCCACCACGGCCAGGAGCCCGCCACCTCCCACCCACAGGGACATGCAGCCTGGCCACCATGAGA
CCTCAACCCCTGCAGGACCCAGCCAAGCTGACCTTCACTCCACACAGAGGATGGAGGTCTTCTGTC
CACCGAGAGGGCTGTGAGGATGGAGCCTCCAGTCAGCTCCCAGCAGCAGAGGGCTCTGGGGAGCAGGAC
TTCACCTTTGAAACCTCGGGGAGAATACGGCTGTAGTGGCCGTGGAGCCTGACCGCCGGAACAGTCCC
CAGTGGATCAGGGGGCCACGGGGCCTCACAGGGCCTCTGGACAGGAAAGAGGTGCTGGGAGGGTTCAT
TGCCGTAGGCCTCGTGGGGCTCATCTTTGCTGTGTGCCTGGTGGGTTTCATGCTGTACCGCATGAAGAAG
AAGGACGAAGGCAGCTACTCCTTGGAGGAGCCGAAACAAGCCAACGGCGGGCCCTACCAGAAGCCACCA
AACAGGAGGAATTCTATGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217847 representing NM_001006946
 Red=Cloning site Green=Tags(s)

MRRAALWLWLCALALSLQPALPQIVATNLPPEDQDGGSDSDNFSGSGAGALQDITLSQQTPSTWKDTQL
 LTAIPTSPEPTGLEATAASTSTLPAGEGPKKEGEAVVLPVEVEPGLTAREQEATPRPRETTQLPTTHQASTT
 TATTAQEAPATSHPHRDMQPGHETSTPAGPSQADLHTPHTEDEGGPSATERAAEDGASSQLPAAEGSGEQD
 FTFETSGENTAVVAVEPDRRNQSPVDQAGTASQGLLDRKEVLGGVIAVGLVGLIFAVCLVGFMLYRMKK
 KDEGSYSLEEPKQANGGAYQKPTKQEEFYA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001006946

ORF Size: 930 bp

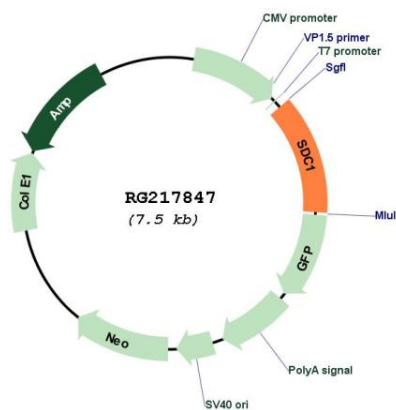
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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| 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</u> , <u>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 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] |

Product images:



Circular map for RG217847