

Specifications:

Gene:	<i>h</i> SDC1
Accession:	NP_002988
Insert size:	946bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

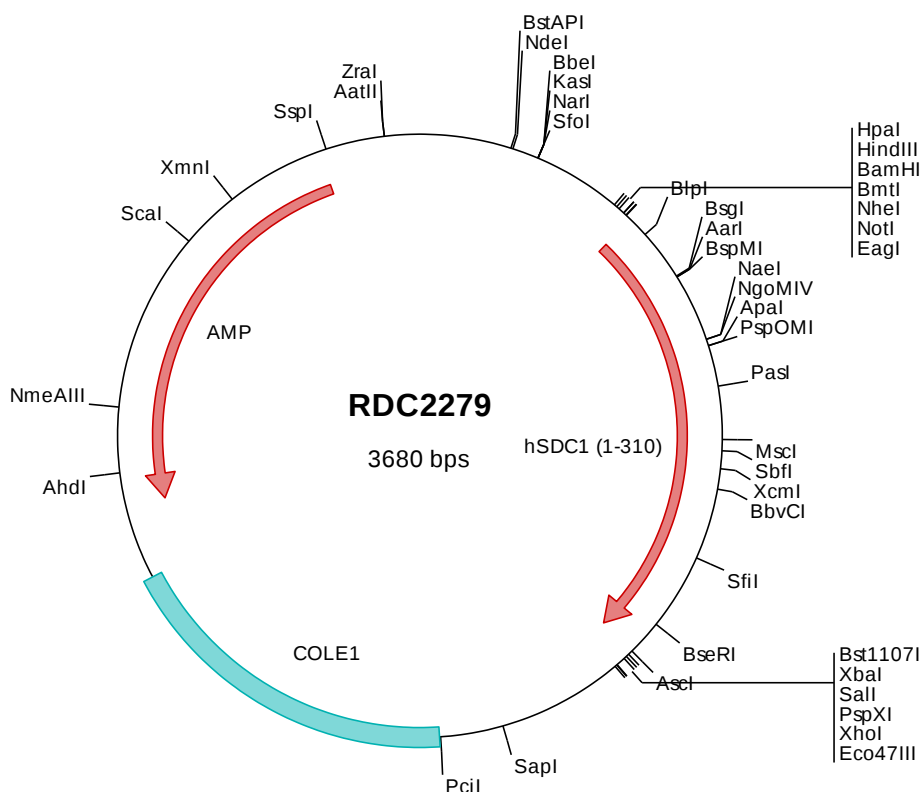
*h*Syndecan-1 cDNA Plasmid

SDC1 syndecan 1 [*Homo sapiens* (human)]

Also known as: SDC; CD138; SYND1; syndecan

Summary:

SDC1 is a type I transmembrane heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans mediate cell binding, cell signaling, and cytoskeletal organization. Syndecan receptors are required for internalization of the HIV-1 tat protein. SDC1 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 SDC1 expression has been detected in several different tumor types.



> RDC2279 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgttaaggag aaaataccgc atcaggcgcc attcgccatt caggctcgcc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgtcg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccaacc atgaggcgcg cggcgctctg gctctggctg tgcgcgctgg cgctgagcct
501  gcagcctgct ctgccgcaaa ttgtgcttac taatttgccc cctgaagatc aagatggctc tggggatgac totgacaact tctccgctc aggtgcaggt
601  gctttgcaag atatcacctt gtcacagcag accccctcca cttggaagga cagcagctc ctgacggcta tccccagtc tccagaacct accggcctgg
701  aggtctacagc tgcctccacc tccacctgc cggctggaga ggggccaag gagggagagg ctgtagtctt gccagaagtg gagcctggcc tcaccgcccg
801  ggagcaggag gccaccccc gacccaggga gaccacacag ctcccgacca ctcatcaggc ctcaacgacc acagccacca cggcccagga gcccgccacc
901  tccccacccc acagggacat gcagcctggc caccatgaga cctcaacccc tgcaggacct agccaagtg accttcacac tccccacaca gaggatggag
1001  aggtctacagc tgcctccacc tccacctgc cggctggaga ggggccaag gagggagagg ctgtagtctt gccagaagtg gagcctggcc tcaccgcccg
1101  ggagaatacgc gctgtagtgg ccgtggagcc tgaccccgcc aaccagtcct cagtggatca gggggccacg ggggctcacc agggcctcct ggacaggaaa
1201  gaggtgctgg gaggggtcat tgcgggaggg cctgtggggc tcatctttgc tgtgtgctg gtgggtttca tgctgtacgg catgaagaag aaggacgaag
1301  gcagctagc cttggaggag ccgaaaacaag ccaacggcgg ggcctaccag aagccccacca aacaggagga attctatgcc taaaggcgcg ccagtatact
1401  ctagagtcca caccgggga attcctcgag cgtcgtctc tagcttggcg taatcatggt catagctgtt tctgtgtgta aattgttatt cgtcacaaat
1501  tccacacaa atacgagccg gaagcataaa gtgtaagcc tggggctgct aatgagttag ctaactcaca ttaattgcgt tgcgtcact gcccgctttc
1601  cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccacgcgc ggggagaggc ggtttgcgta ttggcgctc ttccgcttcc tcgctcactg
1701  actcgtcgcg ctccgtcggt cggctcgccg gagcgtatc agctcactca aaggcggtaa tacggttato cacagaatca ggggataacg caggaaaaga
1801  catgtgagca aaaggccagc aaaaggccag gaaccgtaaa aaggcccgct tgcgtggctt tttccatagg ctccgcccc ctgacgagca tcacaaaaat
1901  cgagctcaca gtcagaggtg gcgaaaaccc acagactat aagataacca ggcgtttccc cctcgctgcy cctcctgtgt tctcctgtt ccgacctgc
2001  cgcttaccgg atacctgtcc gcttttctcc cttcggaag cgtggcgctt tctcaatgct cagcgtgtag gtatctcagt tcggtgtagg tcgttcgctc
2101  caagctgggc tgtgtgcagc aaacccccgt tcagcccgac cgctgcctt tatccggtaa ctatcgtctt gagtccaacc cggtaagaca cgacttatcg
2201  ccaactggcag cagccactgg taacaggatt agcagagcga ggtatgtagg cgggtgtaca gagttcttga agtgggtggc taactacggc tacactagaa
2301  ggacagattt tggatatctgc gctctgctga agccagttac cttcggaaaa agagttggta gctcttgatc cggcaacaa accaccgctg gtacgggtgg
2401  tttttttgtt tgcaagcagc agattacgcg cagaaaaaaa ggcctcctca aagatccttt gatcttttct acggggtctg acgctcagtg gaacgaaaac
2501  tcacgttaag ggatttttgt catgagatta tcaaaaaagg atctctttta gatcctttta aattaaaaat gaagttttta atcaatctaa agtatatatg
2601  agtaaaactt gtctgacagt taaccaatgt taatcagtg ggcacctatc tcagcgatct gtctatttct ttcattccata gttgcctgac tccccgtcgt
2701  gtacataact acgatacggg agggcttacc atctggcccc agtgcctgca tgcctcccg cttccatccag tctattaatt gttgcgggga agctagagta agtagttcgc
2801  cagccagccg gaagggccga gcgcagaagt ggtcctgcaa ctttatccgc cttctatccg gcgccacata gcagaacttt aaaagtgtc atcattggaa aacgtttctc
2901  cagttaatag ttttgcgcaac gttgttgcca ttgctacagg catcgtggtg tcacgctcgt cgtttggtat ggcttcattc agctccggtt cccaacgac
3001  aaggcgagtt acatgatccc ccatgtttgt caaaaaaagc gttagctcct tcggtcctcc gatcgttgtc agaagtaagt tggcccgagt gttatcactc
3101  atgggttatg cagcactgca taattctctt actgtcatgc catccgtaag atgcttttct gtgactgggt agtactcaac caagtcatte tgagaatagt
3201  gtatcgccgc accgagttgc tcttgcggcg cgtcaatacg ggataatacc gcgccacata gcagaacttt aaaagtgtc atcattggaa aacgtttctc
3301  gggcgcaaaa ctctcaagga tcttaccgct gttgagatcc agttcgatgt aacccactcg tgcaaccaac tgatcttcag catcttttac tttaccagc
3401  gttttctgggt gagcaaaaac aggaaggcaa aatgccgcaa aaaagggaat aaggcgacac cggaaatgtt gaatactcat actcttctt tttcaatatt
3501  attgaagcat ttatcagggt tattgtctca tgacgggata catatttgaa tgtatttaga aaaataaaca aatagggtt cgcgcacat tttccgaaa
3601  agtgccacct gacgtctaag aaaccattat tatcatgaca ttaacctata aaaataggcg tatcacgagg cctttctgct

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> RDC2279 Translated Insert Sequence

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1   mrraalwllw calalslqpa lpqivatnlp pedqdgsgdd sdnfsgsgag alqditlsqg tpstwkdtql ltaiptspep tgleataast stlpagegpk
101  egeavvlpev epgltareqe atprprettq lptthqastt tattaqepat shphrdmpg hhetstpagp sqadlhtpht edggpsater aadgassql
201  paaegsgeqd ftfetsgent avvavepdr nqspvdgqat gasqglldrk evlggviagg lvglifavcl vgfmlyrmkk kdegysylee pkqanggayg
301  kptkqeeqfy

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