

Specifications:

Gene:	<i>h</i> SDC2
Accession:	NP_002989
Insert size:	619bp
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.

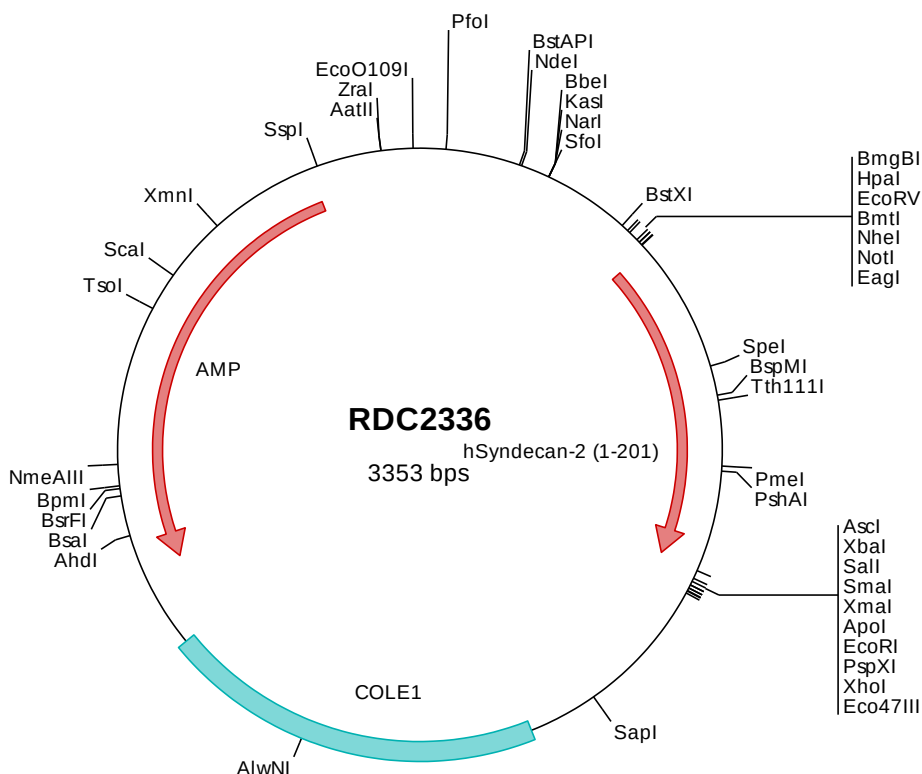
*h*Syndecan-2/CD362 cDNA Plasmid

SDC2 syndecan 2 [*Homo sapiens* (human)]

Also known as: HSPG; CD362;
HSPG1; SYND2

Summary:

SDC2 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 and syndecan receptors are required for internalization of the HIV-1 tat protein. SDC2 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 SDC2 expression has been detected in several different tumor types.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2336 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatatt
401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgcacc atgcggcgcg cgtggatcct gctcaccctt ggcttgggtg cctgcgtgtc
501  ggcggagctcg agagcagagc tgacatctga taaagacatg taccttgaca acagctccat tgaagaagct tcaggagtgt atcctattga tgacgatgac
601  tacgcttctg cgtctggctc gggagctgat gaggatgtag agagtccaga gctgacaaca tctcgaccac ttccaaagat actgttgact agtgtgctc
701  caaaagtggg aaccacgacg ctgaatatata agaacaagat acctgctcag acaaagtcc ctgaagaaac tgataaagag aaagtccacc tctctgactc
801  agaaaaggaaa atggacccag ccgaagagga tacaaatgtg tatactgaga aacactcaga cagtcctgtt aaacggacag aagtccctagc agctgtcatt
901  gctggtggag ttattggctt tctctttgca atttttttta tctgtgtgtt ggtgtatcgc atgagaaaga aggatgaagg aagctatgac cttgagagaa
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1201 aaagtgtaaa gctcgggggt cctaattgagt gagctaaact acattaattg cgttgcgctc actgcccgtc ttccagtcgg gaaacctgtc gtgccagctg
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1701 tcccttcggg aagcgtggcg ctttctcaat gctcacgctg taggtatctc agttcggtgt aggtcgttcc ctccaagctg ggcgtgtgtc acgaaacccc
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2301 gcttaatacag tgaggcacct atctcagcga tctgtctatt tcgttcaccc atagttgcct gactccccgt cgtgtagata actacgatac gggagggtct
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2501 agtggctcct caactttatc cgctccatc cagctctatta attgttgcgg ggaagctaga gtaagtagtt cgccagttaa tagtttgcgc aacgttgttg
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2901 cggcgtaaat acgggataat accgcgccac atagcagaac tttaaaagt ctcacatatt gaaaaacgtt ttcggggcga aaactctcaa ggaatctacc
3001 gctgttgaga tccagttcga tgtaacccac tcgtgcaccc aactgatctt cagcatcttt tactttcacc agcgtttctg ggtgagcaaa aacaggaagg
3101 caaaatgccg caaaaaagg aataagggcg acacggaaat gttgaatact catactcttc ctttttcaat attattgaag catttatcag ggttattgtc
3201 tcatgagcgg atacatattt gaatgtattt agaaaaataa acaaataggg gttccgcgca catttccccg aaaagtgcc aactgacgtc aagaaacctt
3301 tattatcatg acattaacct ataaaaatag gcgtatcacg aggccttttc gtc

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> RDC2336 Translated Insert Sequence

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1   mrrawilltl glvacvsaes raeltsdkdm yldnssieea sgvyppidddd yasaasgsad edvespeltt srplpkillt saapkvett lniqnkipaq
101  tkspeetdke kvhlsdserk mdpaeedtnv ytekhsdsf krtevlaavi aggvigflfa iflillllvy mrkkdegysd lgerkpssaa yqkaptkefy
201  a

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