

Product datasheet for **RG203366**

Syndecan 2 (SDC2) (NM_002998) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syndecan 2 (SDC2) (NM_002998) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Syndecan 2
Synonyms: CD362; HSPG; HSPG1; SYND2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203366 representing NM_002998
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATCGCGCGCGGTGGATCCTGCTCACCTTGGGCTTGGTGGCTGCGTGTCCGGCGGAGTCGAGAGCAGAGC
 TGACATCTGATAAAGACATGTACCTTGACAACAGCTCCATTGAAGAAGCTTCAGGAGTGTATCCTATTGA
 TGACGATGACTACGTTCTGCGTCTGGCTCGGGAGCTGATGAGGATGTAGAGAGTCCAGAGCTGACAACA
 TCTCGACCACTTCAAAGATACTGTTGACTAGTGTCTCCAAAAGTGAAAACACGACGCTGAATATAC
 AGAACAAAGATACCTGCTCAGACAAAGTCACCTGAAGAACTGATAAAGAGAAAGTTCACCTCTGACTC
 AGAAAGGAAAATGGACCCAGCCGAAGAGGATACAAATGTGTATACTGAGAAACACTCAGACAGTCTGTTT
 AAACGGACAGAAGTCTAGCAGCTGTCATTGCTGGTGGAGTTATTGGCTTCTCTTTGCAATTTTTCTTA
 TCCTGCTGTTGGTGTATCGCATGAGAAAGAAGGATGAAGGAAGCTATGACCTTGGAGAACGCAAACCATC
 CAGTGTGCTTATCAGAAGGCACCTACTAAGGAGTTTTATGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203366 representing NM_002998
 Red=Cloning site Green=Tags(s)

MRRAWILLTLGLVACVSAESRAELTSDKMYLDNSSIEEASGVYPIDDDDYASASGSGADEDVESPELTT
 SRPLPKILLTSAAPKVETTTLNIQNKIPAQTKSPEETDKEKVHLSDSERKMDPAEEDTNVYTEKHSLSL
 KRTEVLA AVIAGGVIGFLFAIFLILLLVYRMRKKDEGSYDLGERKPSSAAYQKAPTKEYFA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_002998

ORF Size: 603 bp

OTI Disclaimer: 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.

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:

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: [NM_002998.4](#)

RefSeq Size: 3485 bp

RefSeq ORF: 606 bp

Locus ID: 6383

UniProt ID: [P34741](#)

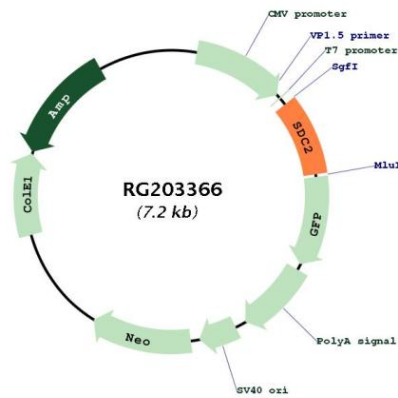
Cytogenetics: 8q22.1

Protein Families: Druggable Genome, 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-2 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-2 expression has been detected in several different tumor types. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203366