

Product datasheet for **RC213625**

Syndecan 3 (SDC3) (NM_014654) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syndecan 3 (SDC3) (NM_014654) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syndecan 3
Synonyms:	SDCN; SYND3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213625 representing NM_014654
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGCCGGGGCCGCCACCGTCCGGGGCCGCCACGGGGCCGGCGCGGGGCCGGGGCCGGGCCG
 GGCCCGGGGCCCGGGCTGCTCCTGCCACCGCTGCTACTGCTGCTGCTGGCGGGCGCGCCGGGGG
 CCAGCGCTGGCGCAGTGAGAACTTCGAGAGACCGTGGACCTGGAGGGCTCTGGGATGATGACTCCTTT
 CCCGATGATGAACTGGATGACCTCTACTCGGGTCCGGCTCGGGTACTTCGAGCAGGAGTCGGGCATTG
 AGACAGCCATGCGCTTCAGCCAGATGTAGCCCTGGCGGTGCCACCACACCTGCGGTGCTGCCACCAC
 GAACATCCAGCCTGTGGGCACACCATTTGAAGAGCTCCCTCTGAGCGCCCCACCCTGGAGCCAGCCACC
 AGCCCCCTGGTGGTGACAGAAGTCCCGAAGAGCCAGCCAGAGAGCCACCACCGTCTCCACTACCATGG
 CTACCACTGCTGCCACAAGCACAGGGGACCCGACTGTGGCCACAGTGCCTGCCACAGTGGCCACCGCCAC
 CCCCAGCACCCCTGCAGCACCCCTTTACGGCCACCCTGCTGTATAAGGACCCTGGCGTACGGAGG
 TTCTGCCTCTCCCACTGACCACAGTGGCTACGGCACGGGCCACTACCCCGAGGCGCCCTCCCGCCCA
 CCACGGCGGCTGTCTTGACACCGAGGCCCAACACCCAGGCTGGTCAGCACAGCTACCTCCCGCCAAG
 AGCCCTTCCCAGGCCGGCCACCACCCAGGAGCCTGACATCCCTGAGAGGAGCACCCTGCCCTGGGGACC
 ACTGCCCTGGACCCACAGAGGTGGCTCAGACCCCACTCCAGAGACCTTCTGACCACAATCCGGGATG
 AGCCAGAGGTTCCGGTGAAGTGGGGGGCCAGTGGAGACTTCGAGCTGCCAGAAGAAGAGACCACACAACC
 AGACACAGCCAATGAGGTGGTAGCTGTGGGAGGGGCTGCCGCCAAGGCATCATCTCCACCTGGGACTG
 CCCAAGGTGCCCGCCGGGCCCTGGCTCCTGGACAATGCCATCGACTCGGCAGCTCAGTGTCTCAGC
 TGCTCAGAAGAGTATCCTGGAGCGGAAGGAGGTGCTCGTAGCTGTGATTGTGGCGGGGTGGTGGCGC
 CCTCTTTGCTGCCTTCTGGTCACTGCTCATCTATCGTATGAAGAAAAGGATGAGGGCAGCTACACG
 CTGGAGGAACCAAGCAGGCGAGCGTCACATACCAAGCCTGACAAGCAGGAGGAGTTCTATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213625 representing NM_014654
 Red=Cloning site Green=Tags(s)

MKPGPPHRAAGHAGAGAGAAAGPGARGLLLPLLLLLLAGRAAGAQRWSENFERPVDLESGDDDSF
 PDDELDDLYSGSGSYFEQESGIETAMRFS PDVALAVSTTPAVLPTTNIQPVGTPFEELPSERPTLEPAT
 SPLVVTEVPEEPSQRATTVSTTMATTAATSTGDPTVATVPATVATATPSTPAAPPFTATTAVIRTTGVR
 LLPLPLTTVATARATTPEAPSPPTAAVLDEAPTRELVSTATSRPRALPRPATTQEPDIPERSTLPLGT
 TAPGPTEVAQTPTPETFLTIRDEPEVPVSGGPSGDFELPEEETTQPDANEVAVGGAAAKASSPPGTL
 PKGARPGPLLDNAIDSGSSAAQLPQKSILERKEVLVAVIVGGVVGALFAAFLVTLIIYRMKKKDEGSY
 LEEPQASVTYQKPKDQEEFYA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4242_a11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_014654

ORF Size: 1326 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.

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).

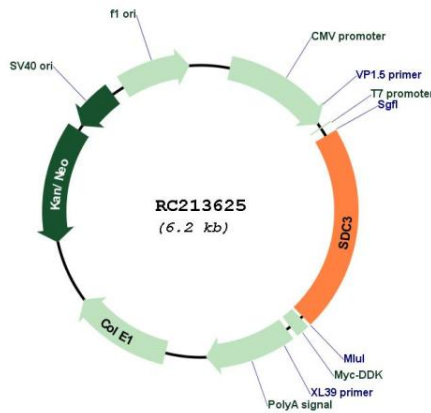
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_014654.4](#)

RefSeq Size:	1463 bp
RefSeq ORF:	1329 bp
Locus ID:	9672
UniProt ID:	<u>O75056</u>
Cytogenetics:	1p35.2
Protein Families:	Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), ECM-receptor interaction
MW:	45.3 kDa

Gene Summary: The protein encoded by this gene belongs to the syndecan proteoglycan family. It may play a role in the organization of cell shape by affecting the actin cytoskeleton, possibly by transferring signals from the cell surface in a sugar-dependent mechanism. Allelic variants of this gene have been associated with obesity. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC213625