

Product datasheet for **SC119198**

NDST1 (NM_001543) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDST1 (NM_001543) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDST1
Synonyms:	HSST; MRT46; NST1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001543, the custom clone sequence may differ by one or more nucleotides

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ATGCCTGCCCTGGCATGCCTCCGGAGGCTGTGTCGGCACGTGTCCCCGAGGCTGTCTTTTCTGTGT
TCATCTTCTGCCTGTTTCAGCGTTTTTCATCTCGGCCTACTACCTATATGGCTGGAAGCGAGGCTGGAGCC
CTCGGGCGGATGCCCCGAGCCTGACTGCGGGGACCCGCCGCTGTGGCCCCAGTCGCTGCTGCCACTC
AAGCCTGTGCAGGCAGCCACCCCTTCCCGCACAGACCCGTTGGTGTGGTCTTTGTGGAGAGCCTTACT
CGCAACTGGGCCAGGAGGTGGTGGCCATCCTGGAGTCCAGCCGCTTCAAATACCGCACAGAGATTGCGCC
GGGCAAGGGTGACATGCCACGCTCACTGACAAGGGCCGTGGCCGCTTCGCCCTCATCATCTATGAGAAC
ATCCTCAAGTATGTCAACCTGGACGCTGGAACCGGGAGCTGCTGGACAAGTACTGTGTGGCCTACGGCG
TGGGCATCATTGGCTTCTCAAGGCCAATGAGAACAGCCTGTGAGTGCCAGCTCAAGGGCTTCCCCCT
GTTCTGCACTCAAACCTGGCCTGAAGGACTGCAGCATCAACCCCAAGTCCCCGCTGCTCTACGTGACG
CGACCTAGCGAGGTGGAGAAAGGTGTCTCCCCGGCAGGACTGGACGGTTTTCCAGTCAAATCACTCCA
CCTATGAGCCAGTGTCTGGCCAAGACGCGCTCGTCTGAGTCCATCCCACACCTGGGCGCAGACGCCGG
CCTGCATGCTGCACTGCACGCCACTGTGGTCCAGGACCTGGGCCTGCACGACGGCATCCAGCGCGTGCTG
TTTGGCAACAACCTGAACTTCTGGCTGCACAAGCTTGTCTTCGTGGATGCCGTGGCCTTCTCACGGGGA
AGCGCCTCTCCCTGCCATTGGACCGCTACATCCTGGTGGACATTGATGACATCTTCGTGGGCAAGGAGGG
CACACGCATGAAGGTGGAGGACGTGAAGGCCCTGTTTGACACACAGAACGAACTACGCGCACACATCCCA
AACTTCACCTTCAACCTGGGCTACTCAGGGAATTTCTCCACACAGGTACCAATGCTGAGGACGCTGGGG
ATGATCTGCTGCTGTGATGTGAAGGAGTTCTGGTGGTCCCCACATGTGGAGCCACATGCAGCCCCA
CCTTTTCCACAACCAGTCCGTGTTGGCCGAGCAGATGGCCTTGAACAAGAAGTTCGCTGTCGAGCAGTGGC
ATTTCCACAGACATGGGGTATGCAGTGGCGCCCCACCCTCGGGCGTGTACCCCGTGTACCCCGTGCAGTGT
ACGAGGCTTGGAAAGCAGGTGTGGAGCATCCGCGTGACCAGCACGGAGGAGTACCCCCACCTGAAGCCAGC
CCGCTACCGCCGTGGCTTCATCCACAATGGCATCATGGTTCTCCACGGCAGACCTGCGGCCCTTTCACA
CACACCATCTTCTACAACGAGTACCCTGGCGGCTCCAGTGAAGTGGACAAGATCATCAACGGGGGCGAGC
TCTTCTCACCGTGTCTCAATCTATCAGCATCTTCATGACGCACCTGTCCAATATGGGAATGACCG
CCTGGGCTGTACACCTTCAAGCACCTGGTGGCTTCTGCACTCCTGGACGAACCTCCGGCTGCAGACA
CTGCCCCCTGTGCAGTTGGCGCAGAAGTACTTCCAGATCTTCTCCGAGGAGAAGGACCCGCTCTGGCAGG
ACCCCTGCGAGGACAAACGTCAAAAGACATCTGGTCCAAGGAGAAGACGTGTGACCGCTTCCCAAAGCT
CCTCATCATCGGCCCCAGAAAACAGGCACCCTGCCCTTACCTGTTCTGGGCATGCACCTGACCTA
AGCAGCAACTACCCAGCTCTGAGACCTTTGAGGAGATCCAGTTTTTAAATGGCCACAACATCACAAAAG
GCATCGACTGGTACATGGAGTTCTCCCATCCCTTCAAACACCCTCCGACTTCTACTTTGAGAAAAG
CGCAACTACTTTGATTGAGAAGTGGCGCCCCGGCGGGCAGCAGCCCTTTGCCCAAAGCCAAGGTCTTG
ACCATCTCATCAACCCCGCGGACCGGGCTATTCTGGTACCAGCACCAGCGAGCCATGACGACCCAG
TGGCCCTAAAGTACACCTTCCATGAGGTGATTACCGCCGGCTCTGACGCATCCTCGAAGCTGCGTGCCCT
CCAGAACCCTGCCTGGTCCCTGGCTGGTACGCCACCCACATCGAGCGCTGGCTCAGTGCCTATCACGCC
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AGTTCTTGGGGTGACCAACACCAATTGACTACCACAAAACCTTGGCGTTTGTATCCAAAAGAAAGATTTTG
GTGCCAACTGCTTGAAGGAGGAAAAACCAAGTGTCTGGGCAAAAGCAAGGCGCGGAAATATCCCGAGATG
GACTTGGATTCCCGAGCCTTCTGAAGGACTATTACCGGGACCACAACATCGAGCTCTCCAAGCTGCTGT
ATAAGATGGGCCAGACACTTCCCACTTGGCTACGAGAGGACCTCCAGAACCAGGTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001543 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCTCCGGTGGCCA
 AGGTCTCGGAGGCCAGGATGCCTGCCCTGGCATGCCTCCGGAGGCTGTGTCGGCACGTGT
 CCCCAGGCTGTCTTTTCTGCTGTTTCATCTTCTGCCTGTTTCAGCGTTTTTCATCTCGG
 CCTACTACCTATATGGCTGGAAGCGAGGCTGGAGCCCTCGGCGGATGCCCCGAGCCTG
 ACTGCGGGGACCCGCGCCTGTGGCCCCAGTCGCCTGCTGCCACTCAAGCCTGTGCAGG
 CAGCCACCCCTTCCCACAGACCCGTTGGTGTGCTTTTGTGGAGAGCCTCTACTCGC
 AACTGGGCCAGGAGGTGGTGGCCATCCTGGAGTCCAGCCGCTTCAAATACCGCACAGAGA
 TTGCGCCGGGCAAGGGTACATGCCACGCTCACTGACAAGGGCCGTGGCCGCTTCGCC
 TCATCATCTATGAGAACATCCTCAAGTATGTCAACCTGGACGCCTGGAACCGGGAGCTGC
 TGGACAAGTACTGTGGCCTACGGCGTGGGCATCATTGGCTTCTCAAGCCAATGAGA
 ACAGCCTGCTGAGTGGCAGCTCAAGGGCTTCCCCTGTTCTGCACTCAAACCTGNGCC
 TGAAGGACTGCAGCATCAACCCCAAGTCCCGCTGCTCTACGTGACGCGACCTANCGAGG
 TGGAGAAAAGGTGTGCTCCCGGCCGAGACTGGNACGGNTTTTNCAGTCAAATCACTCCA
 CCCTATGAGCAGNTGCTGCTGGCCAAGACGCGCCTCGTCTGAGTCCATCCACACCTGGGC
 GCANACGCCNGCCTGCATGCTGACTGACGCCACTGTGGTCANGACCTGGCTGNACGACG
 CTTCGAAGNGTGTGGTTGTTGGCACAACTGACTCTGCTGACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001543 unedited
 NNGTACTGNACCCGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTATTTTAGC
 TTCTTAGTATTTGGGAGGTTAAGGGGTCTCTGAGAGCCCTCGGCCACAGGTGGTAAGC
 AAAGCCGTGGCTGGCAGTCTACCAGCTCGCCATGTCTGCCTGGCCTGAGGCTGGGAG
 GGTGTGGGGACCGTGTCTGTACATGGGAACATGTTACTGGCAGACCCCTGGCCTGCCTCA
 GTCTTTTACCACAGGAAACACCACATCATATCCCAGGGGGAAGAAAGGGGTGCAGGTG
 GGGCCCGGAGAACTGGGCCCGATGGCAAGGCAGTGCCCAAGGCCTGCGGGAAGCCTTG
 AGGATGGAGTGGATACTGTAGGAACCAGAAATCTTCCCAGAACGGGAGGGTGAGATGT
 GAAGGTAGGAACCAGATGTGGAGGCTGGGAGTCTCTTGGAGGGGCCACCCTCCCATCCA
 GCCTAGGACTGACTCCGGGGACCCAGCTGGCCCTTGGAAAGCCTGGCTCGAAACAGGG
 AAATGTCCAGTCTGTCTCCCCGGCCAGGCTCTCTCCCCTACAGCCTGGAGGACAGGGA
 CATATGGCAGCGAATACTGAGGGGCGCCCTGCGNAAGCAGGGAGTGATGGGTGACAANAG
 GGGACAGTCGGCNGAACACAGTGAAGGACAGAAAAGAGTCTCGTGGACTCCCTCCACCA
 GAAAGCGCCTCCCCAGGAGCACCTGGGAACGAATGAACCCCTGCTGGCGAGGGAGGTCC
 CTTAGGCGCAAACCAGCGTGGGTGCTCCGAGGGGCTGCAAATCGCCTGGGTGCTCCCCAC
 CCCACCAAACCTTCCAAAATATGGTCATAATGCGCCATTGCCCTGTCAGTTTCCATTTT
 GAGGTTTGGTAACGGTGGGGGATTGC

Restriction Sites:

NotI-NotI

ACCN:

NM_001543

Insert Size:

3670 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	NM_001543.3 , NP_001534.1
RefSeq Size:	7913 bp
RefSeq ORF:	2649 bp
Locus ID:	3340
UniProt ID:	P52848
Cytogenetics:	5q33.1
Domains:	Sulfotransfer
Protein Families:	Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	<p>This gene encodes a member of the heparan sulfate/heparin GlcNAc N-deacetylase/ N-sulfotransferase family. The encoded enzyme is a type II transmembrane protein that resides in the Golgi apparatus. The encoded protein catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to nitrogen of glucosamine in heparan sulfate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>