

Product datasheet for **SC310066**

NDST3 (NM_004784) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDST3 (NM_004784) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDST3
Synonyms:	HSST3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004784 edited
 GTTCTCCAGCGCAGGAGTCCCCGGCGCACCCGCTGCGCTCGCCCCGAGCCGAGCCTGA
 CGGCGCGAAGTCCGCCACCCAGCTGTGTCGCGCAGATCCCGGGCGCGGAGGGGAGAGTGC
 CCGCTTGTGCGCCCCGCGGACCCCGGGCACCCGCTAGCACCCAAGCGCCACCCGGACG
 AGGGGCCCTGGGGAGCGGCTGAGGCCGAAGACCCGAGGGAAGGAGGAGCCCGCGGACGGC
 TGCAGCCCCAGACTGTATTTTCTGTGAGTCTGATCAAGTGATACAAATGAGCTGCAATG
 GTGACATAAACTCTTGACAGAGATTGAAAAAGTAGCTGGAACACCATCTTTTCTTTTAAC
 TTTTATGGTGCTTCTGTTGGCAGTGGGGAAAGCACCTACAACATGAGTTTTATCAT
 GAAGCTTCACAGACACTTCAAAGAACAGTCATTCTGCTTGCCACTTTTTGTATGGTGAG
 CATTATCATTCTGCTTACTACCTGTACAGTGGCTACAAACAGGAAAATGAACTCTCTGA
 GACGGCTTCAGAAGTTGACTGTGGCGACCTCCAACACCTACCATATCAACTAATGGAAGT
 GAAAGCAATGAAGCTTTTTGATGCTCAAGGACAGACCCACAGTCTAGTATTTGTAGA
 GAGCCAGTACTCATCTCTTGGTCAAGACATCATTATGATTCTAGAATCAAGTAGATTCCA
 GTATCACATTGAAATTGCCCTGGAAAAGGGAGATCTCCAGTGCTTATAGACAAAATGAA
 AGGCAAAATACATTCTCATTATTTATGAGAATATTTTAAAGTATATAAATATGGATTCCCTG
 GAATCGAAGCCTTCTAGATAAACTGTGTAGAATATGGTGTGGGTGTCATTGGATTCCA
 CAAAAGTGTGAGAAGAGTGTACAGAGCTTTCAGTTAAAAGGTTTCCCTTTTCCATATA
 TGGAAATCTTGCAAGTAAAAGATTGTTGTATTAATCCTCATTCTCCATTGATTCGTGTGAC
 CAAATCTTCAAGCTTGAAAAAGTTCTTTACCTGGAAGTGAAGTGGACAGTTTTTCAGAT
 TAATCATTGACCTATCAACAGTAATATTTGCCAAAAGTAAAGACCCAGAAAACCTTTTC
 TCTTCCATCTCTAAAGGTGCTTTTTATGCCACTATTATACATGACCTGGGGCTTCATGA
 TGGAAATCAAAGGTTCTTTTTGGCAACAACCTGAACTTTTGGCTGCACAAGCTCATCTT
 CATAGATGCCATCTCCTTCTATCAGGGAAGAGGCTGACATTGTCCTTGGACAGGTACAT
 TCTTGTGGATATTGATGATATATTTGTGGGAAAAGAGGGAACAAGAATGAACACCAATGA
 TGTAAGGCCCTGCTTGATACTCAGAATCTTTTGGCTGCACAAAATCACAATTTTACATT
 CAACCTGGGATTTTCAAGGAAAATTTACCATACAGGAAGTGAAGAGGAAGATGAAGGAGA
 TGACTGTCTGTTGGGTCTGTGGATGAGTCTGGTGTTCCTCATATGTGGAGCCATAT



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GCAGCCCCACCTCTCCACAATGAGTCATCTTTGGTGGAGCAGATGATTCTCAACAAAA
 ATTTGCCTTAGAGCACGGCATTCCAACGGACATGGGCTACGCTGTGGCCCTCACCATT
 GGGCGTCTACCCTGTACATGTTACGCTTTACGAGGCTGGAAGAAGTCTGGAATATTA
 AATCACCAGCACTGAAGAATATCCACATCTGAAGCCAGCTAGATACCGGAGGGTTTTAT
 CCACAAAAACATCATGGTTCTCCAAGACAAACCTGTGGGCTTTTCACTCACACCATTTT
 CTACAAAAGAAATATCCAGGGGGTCTAAAGAGCTGGATAAGAGTATCCAAGGAGGAGA
 AACTTTCTCACTGTGCTCTCAACCTATCAGCATTTTTCATGACCCATTTGTCCAACCTG
 GAATGACCGACTGGGATTATATACATTTGTTAATCTGGCCAACCTTGTGAAGAGCTGGAC
 CAACCTGCGACTTCAGACTCTGCCTCCAGTACAACCTGGCCACAAGTATTTTGAGCTGTT
 TCCTGATCAGAAAAGACCCTCTCTGGCAGAATCCTTGCATGACAAAACGCCACAGAGACAT
 TTGGTCTAAAGAAAAAATTTGTGATCGCTTACCAAAATCTTGGTAATAGGACCCAGAA
 AACTGGTACCCTGCTTTGATTTGTTCCCTGGTTATGCATCCTTCCATCCTTAGTAACTC
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 GATTGATTGGTATATGGATTTCTCCAGTCCCATCTAATGTCACCTACCGACTTTTTGTT
 TGAGAAGAGTGCCAATTACTTCCACTCAGAGGAAGCCCTAAAAGAGCTGCTTCTCTGGT
 TCCCAAAGCCAAGATTATCACCATTCTCATTGACCCTTACAGCCGAGCATACTCCTGGTA
 CCAGCATCAGCGATCACATGAAGAYCCTGCAGCTCTGAAGTTTAGCTTCTACGAAGTGT
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 AATTATTGATGGGCAACAACCTAAGAAGTATCTGCTACAGTGTGGTGAAGTACAGAA
 GTTTCTAGGAGTCTTGCCTCATTATAAATCTCAGAAGCTTTAACGTTTGATTCTCATAA
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 AAGAAAAACCTCCAATGGATTCTGATAGCAGGACATTTCTGCAAGCTACTATCGAGA
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 GAGACAGGAGCTGCAGAAAGTAAAGTAGCACTGAGAGAAAACTTGAGACTTCATCGTCCA
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 AAAAGAAAAAGTATGTGTTACAAGCCTTGGAGCCTGTGGCCTTTCTTTAACCCATATCT
 GAGCCTGTGGGATTATTGTAGACTACTGTGCACTCATGTGGAAGTCAATTGCAACCAACA
 TAAATATCAAACACAAATGCAGAAGTGTCCATTTTATAGTAATATTTTACTTTTTATAT
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 CTATTATTTTATCTATAAAGTGTCTATGAAACAAGAAGCAAAATAAACATCACAATG
 TAGCATAAAATGTCAAAGCATAACACCCTGAAAAATGCTTGCCAAAATTTAAATCCAC
 TTAAGTATTTAGAAATAATTGTAATTTATAATTTGTGCTAGATCAGAGTGGAAAAGTTAT
 ATATGAGTGTTATCTGCACCAAAAAAATAAGTGCTATAGCAAAAGTGATTTTTTTCATA
 TACATAGTCTAGTGAATATATGTAATAATTAATACTTCTCCATCACAACGTAATTGTTA
 TACTGAAATATACTGTAAGCTGTTGGATGGTAAATAGAAACACATCAAGTACACCAA
 AACAGTAAATAACAATGTAAGTGTACTGACTGAATCCTCTAAAAGGGAGAAATGTAGG
 GGTCTAAAACATATCATCGAGAATTCTATGTCCACTTGTGTAAGCTGTGAATCTATCC
 CAGTAGTCTCACTAGTTCTACAGAAATGCATGCCTAGAGTCTGAGGTATGTGTCATCTC
 CAGAAACAGGTTGACTTTTAAATGTGAATAGCTATTTTTAATGCTCCCCAAAAACAAACC
 TATTAACATAAACTAAAAACAGTTTCCCTAGATGATGTGGTTAGGCTATTTACATTTAG
 GTTATTAAAAAATTCATTTTCCAGATAGTTCAAATAAAATATGTAATGTAGTAGAG
 ATTTATAACAAAAACAAATTAATATATTTTGAATCTAATGTTTGAATGATACTTT
 TGATATAAGGCAAGAAACATAAGCAGAGCAGAGGCCATTTTTGAAAAATTTTCAACCA
 TCACTCTGGTGAAGTAAACAGATCATAGGTACAATTAAGGATTAGCTACTAAATTAATG
 CAGGAAGTACAAAGATGAGCAAGTCATGCTCTTGAATATATTTACATTTCAATTGTAAA
 TAATATATATGGTTAATAAAGTTTTCCAAAAAAGAAAAGAAATACATCATACTTATTTTCT
 GTTAATATTTACTTAATTTTTTTTTTTGAGAGGGGGACAGAGTCTCACTATGTCACCCAG
 GCTGGAGTGCAATGGTGTGATCTCAGCTCACTGCAACCTCCGCTCCTGGGTTCAAGTGA
 TTCTCCTGCCTCAGCCTCCTGAGGAGCTGGGATTACAGCCATGCACCACCACGCCGGGT
 AATTTTTGTATTTTGTAGTAGTACAGGGTTTACCATGTTGACTAGGCTGATCTTGAAC

CCTGACCTCATGATCCACCCACCTTGGCCTCTCAAAGTGCTGAGATTACAAGCGTGAGCC
 ACCATGCCTGACTACTTAATTTTTAAATGACTGTACATATACATAAAATTTAAGTAGT
 AAATTAATTCCTGCTATGATTATAAGCCTTTATAAAATATTATCAAAGGTATGATTAGA
 AACAAATGGGAGGAAAACCCATAGTAAAAATATTTTCATTGTCTATTTAATGGGTA
 TATCAATTACTAATTAGAAAAATGAATTTGTGAGATCCACTACTATAAAATTTTAACTGTA
 CATTATAATTACTTTTTTAAAGTTTCATGTACCTAAAGCATATGCTAATTTTTAAATATA
 CTATTAGCAGAAAAAATGGAAAAATACCAATTTTTAAGACTCTTGACTCTAAAGCAA
 AATCAAAGTGATTTGGACAAAATTTGGGAAACACAGTCTTCATGCTTACTGCTGTCTTTT
 TATAGCAGCAGATGCCAGACATGCTAGGAAAATTAATAGTCTTCCATCTCCACCAACT
 TAAGAAAAGTGGCTTAGGAAGGTTAAACATGAGAATTGGCCTCAGCAGTTATATACAGTG
 TCATGTTTTCAATTTGGCAACAACATTTATTCTAATAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004784 unedited
 AACCGCCGTTGAGCAAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAG
 CTGTTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTC
 GGCACGAGGCTCCCGTCCCTCAGCTCCCGCTCCCTCCCTTCCCGGGGCGGGCGCGCGG
 GGCCGGGAGCTGGGAGGCGGCGGCTCCCGCCGGGAGGCGGTGGCGAGGGCGGGGAGGC
 GCGGCCGGGCGGGTCCCAGGGCCGTGGTTCTCCAGCGCAGGAGTCCCGCGCACCCGCT
 GCGCTCGCCCCGACGCCGAGCCTGAGCGGCCAAGTCGCCACCAGCTGTGTCCGCGCAG
 ATCCCGGGCGGGAGGGGAGAGGTGCGCCGCTTGTGCCCCCGCCGACCCCGGGCACCG
 CGTAGCACCCAAGCGCCACCCGGACGAGGGGCCCTGGGGAGCGGTGAGGCCGAAGACCC
 GAGGGAAGGAGGAGCCCGGACGGCTGCAGCCCAGACTGTATTTCTGTGAGTCTGA
 TCAAGTGATACAATGAGCTGCAATGGTGACATAAACTCTTGACAGAGATTGAAAAAGTA
 GCTGGAACACCATCTTTTCTTTTAACTTTTTATGGTGCTTCTGTTGGCATAGTTGGGAA
 AGCACCTACAACATGAGTTTTATCATGAAGCTTCACAGACACTTTCAAAGAACAGTCATT
 CTGCTTGGCACTTTTGTATGGTGAGCATTATCATTTCTGCTTACTACCTGTACAGTGGC
 TACAAACAGGAAAATGAAGTCTCTGAGACGGCTTCCAGAGTTGACTGTGGCGACCTAAC
 ACCTACCATATCAACTAATGGAAGTGAAGCAATGAGCTTTTTGATGCCTCAGAAGACCC
 CACAGTCTAGTATTTTGTAGAGAAGCCAGTACTCCATCTTCTTGGTCAGAACATCCA

3' Read Nucleotide Sequence:

>Forward primer walk for NM_004784 unedited
 TGCCCTCTTATAATTCTCGAGCTTAAACGTTTGATTCTCATAAAGGTTTCTGGTGTGAGT
 TACTGGAAGAAGGTAACAACAAATGCCTTGAAAGAGCAAAGGAAGAAAAACCCCTCAA
 TGGATTCTGATAGCAGGACATTTCTGTCAAGCTACTATCGAGATCACAACGTGGAAGTCT
 CAAAGCTGCTGCACAACTGGGTGAGCCTTCCATCCTGGCTGAGACAGGAGCTGCAGA
 AAGTAAGATAGCACTGAGAGAAAATTTGAGACTTCATCGTCCATGTAGAACACACCTTTT
 CCAAAGCTTCCAGAAGCTACCAAAGGCAGTTGAAAAATATACCTCTTCAAATGAGAAAA
 AAGAACAGTTTTCTTCCATGTGCTGGCATGTGGATGATTAGAAAAAAGAAAAAGTATGTG
 TTACAAGCCTTGAGGCTGTGGCCTTTCTCTTAACCCATATCTGAGCCTGTGGATTATT
 GTAGACTACTGTCACTCATGTGGAAGTCAATTGCAACCAACATAAATATCAAACACAAA
 TGCAGAACTGTTCCATTTATAGTAATATTTTACACTTTTATATATCAACTAAGATTGTGT
 CTCTGTAGGTTTTAGACCCTGTTTGCCTGTACGATGTTTTCTTATTATTTTATTCTAT
 AAAGTGCCTATGAAACAAGAAGCAAAATAAACATCACAATGTAGCATAAAATGTCAAAA
 GCATAACACCCATGAAAAATGCTTGCCAAAATTTAAATCCACTTAAGTATTTAGAAATAA
 TTGTAAATATAATTTGTGCTAGATCAGAGTGGAAAAGTTATATATGAGTGTATCTGCA
 CCAAAAAAAAAAATGAGTGTATAGCAAAGTATTTTTCATATACATAGTCTAGTGAATATA
 TTGTAATAATACTAACTTCTTCCATCACAACGTAATTGTTATAACTGGATT

Restriction Sites:

Please inquire

ACCN:

NM_004784

Insert Size:

5300 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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to differ from the protein associated to this reference by a single amino acid.
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:	<u>NM_004784.1</u> , <u>NP_004775.1</u>
RefSeq Size:	3188 bp
RefSeq ORF:	2622 bp
Locus ID:	9348
UniProt ID:	<u>O95803</u>
Cytogenetics:	4q26
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. This monomeric bifunctional enzyme catalyzes the N-deacetylation and N-sulfation of N-acetylglucosamine residues in heparan sulfate and heparin, which are the initial chemical modifications required for the biosynthesis of the functional oligosaccharide sequences that define the specific ligand binding activities of heparan sulfate and heparin. [provided by RefSeq, Nov 2008]</p> <p>Transcript Variant: This variant (1) represents the protein-coding transcript.</p>