

Product datasheet for **SC108284**

NDST2 (NM_003635) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDST2 (NM_003635) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDST2
Synonyms:	HSST2; N-HSST 2; NST2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003635, the custom clone sequence may differ by one or more nucleotides

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ATGCTCCAGTTGTGGAAGGTGGTACGCCAGCTCGGCAGCTGGAAGTGCACCGCCTCATACTGCTGCTGA
TCGCTTTTCAGCCTGGGCTCCATGGGCTTCTGGCTTATTATGTGTCCACCAGCCCTAAGGCCAAGGAACC
CTTGCCCTGCCCTTGGGAGACTGCAGCAGCGGTGGGGCAGCTGGTCTTGCCCTGCACGGCCTCCAGTT
CCACCTCGGCCCCAGGCTCCAGAGACAGCTCGAACTGAACCGTGGTCTTGTGTTTGTGGAGAGTG
CATACTCACAGCTGGGGCAGAAATTGTGGCCATCCTGGAGTCTAGTCGTTTTCTGTATAGCACTGAGTT
GGCACCTGGCCGAGGGGACATGCCACATTGACTGATAATACCCATGGCCGCTATGTCTTGGTCATTTAT
GAGAACCCTGCTCAAGTATGTCAACCTGGATGCCTGGAGTCGGAACTGCTAGACCGGTAAGTGCCTGGAGT
ATGGTGTGGGCATCATTGGCTTTTTCCGAGCCACGAGCACAGCCTACTGAGCGCCAGCTCAAGGGCTT
TCCCTTTTTTACTCAAACTTGGGGCTCCGGGACTACCAAGTGAATCCTTCTGCCCGCTACTGCAT
CTCACACGCCCCAGCCGCTAGAACCAGGGCCACTGCCTGGTGTGACTGGACCATTCCCAATCCAATC
ATAGTACATATGAACCAGTGTCTTCTGCCAGCCTTCGGCCAGCTGAGCCCGCAGTGCCAGGACCAGTTCT
TCGTGGGCGCCGCTTCCCACTGTGGTACAGGACTGGGGCTTCATGATGGCATCCAGCGGGTGTCTTT
GGACATGGCCTTCTTCTGGCTCCACAACTTATCTTCGTTGATGCTGTTGCATACCTCACTGGCAAGC
GCCTCTGCCTGGACCTTGACCGTACATCTTGGTAGACATCGATGACATCTTGTGGGCAAGGAAGGGAC
CCGCATGAAGGTGGCTGATGTTGAGGCTCTGTTGACCACCCAGAACAACCTCAGGACCTTAGTCCCAAC
TTCACCTTCAACTTGGGCTTCTCGGGCAAGTCTATCATACTGGGACAGAGGAGGAGGATGCAGGGGACG
ACATGCTGCTGAAGCACCAGAAAGATTCTGGTGGTCCCCACATGTGGAGCCACATGCAGCCACACCT
GTTCCACAATCGCTCCGTGCTGGCTGACCAGATGAGGCTCAACAACAGTTTGTCTGGAGCATGGGATT
CCCAGGACCTGGGGTATGCTGTGGCCCCCACCCTCGGGTGTGTACCCCATCCACACGCACTATG
AGGCCTGGAAATCCGTGTGGGGCATCCAGGTGACCAGCACTGAGGAGTATCCCCATCTCCGCCCTGCCCG
CTACCGCCGTGGCTTCATTACAAATGGCATTATGGTGTGCCCCGGCAGACATGTGGCCTTCTCACTCAC
ACAATCTTCTATAATGAGTATCCTGGAGGCTCTCGTGAAGTACAGCCGAGCATCCGAGGTGGAGAGCTCT
TTCTGACAGTGTGCTTAATCCGATCAGCATCTTATGACCCATCTGTCCAATTATGGAAATGACCCGGCT
GGGCCTATACACCTTTGAGAGCTTGGTGCCTTCTCCAGTGTGGACACGGCTGCGCCTACAGACCCTT
CCTCCTGTCCCCTTGCACAGAAGTACTTTGAACCTTTCCCTCAGGAGCGAAGCCCCCTTTGGCAGAATC
CCTGTGATGACAAGAGGCACAAAGATATCTGGTCCAAGGAGAAAACCTGTGATCGTCTCCCGAAGTTCCT
CATTGTGGGACCCAGAAAACAGGGACTACAGCTATTCACCTTCTCCTGAGCCTGCACCCAGCTGTAAC
AGCAGCTTCCCTAGCCCCAGCACATTTGAGGAGATTAGTTCCTCAACAGCCCTAATTACCAACAAGGGTA
TTGACTGGTACATGGATTTCTTCCCTGTTCCCTTCCAATGCCAGCACTGATTTCTATTTGAAAAAGTGC
CACCTACTTTGACTCTGAAGTTGTACCACGGCGGGGGGCTGCCCTCCTGCCACGAGCCAAGATCATCACA
GTGCTCACCAACCCTGCTGACAGGGCCTACTCCTGGTACCAGCATCAGCGAGCCCATGGAGACCCAGTTG
CTCTGAACTATACCTTCTATCAGGTGATTTAGCCTCCTCCAGACCCCTCTGGCACTACGCTCCCTGCA
GAACCGCTGTCTGTCCCTGGCTACTATTCTACCCATCTACAACGCTGGCTGACTACTACCCCTCTGGA
CAGTTGCTGATTGTGGATGGGCAAGAGCTGCGTACCAACCCAGCAGCCTCAATGGAGAGCATCCAGAAGT
TCCTGGGTATCACACCCTTCTGAACTACACACGGACCCTCAGGTTTGATGATAAGGGATTTTGGTG
CCAGGGACTTGAAGGTGGTAAGACTCGCTGTCTAGGCCGGAGCAAAGGCCGGAGGTATCCAGATATGGAC
ACTGAGTCCCGTCTTTTCTTACGGATTTTTTCCGGAACCATAATTTGGAGTTGTGGAAGCTGCTGAGCC
GGCTTGGACAGCCAGTGCCCTCGTGGCTTCGGGAAGAACTGCAGCATTCCAGTCTGGGCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003635 unedited</p> <pre> GGGGGGGNNGGGGGNNNNNNNNNNNNCCNNNNNGTTTTAACACCCGCCCGTTGNCGC AAAGGGCGGTAGGCGTGTACGGTGGGNAGTCTATATAAGCAGAGCTCATTTAGGTGACAC TATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGGTTGGG CCAGGCTGCGGCAGAGCGTTTCGCTCGGAGATGGCGGAGCAGCCGCGACGCGGCCCGTGGC CCCGAAAGCAGGAAGCCGGGCAGCCCCGGGACGCGCGGAGCCCGGGACAGCGGGGAC GCCGCCAGTCCCTCCGGGTATGAAGCTAAAATGCAGCGGCTAAGAACGCGGCTCTGGAGC TTGACAGGCTGACGTGAATCCAGCCCTCCACCAACTGAGCTGTGTGATCCTGGGCA AGGTAGAGGGGAAGAGATTGAACTTTGCTGACCTTTGATGTGAGGCGCTCAGCCAGGGCC AAGGGGAGAGCCTGGCAAGATTTGCAGCCTGAAGCCATGGGCCAGGGGGCCATGGTGACC TGAGACAAGTGGACTCTGTATAGTTGCCCCCTGCTTCCCTTCTACCTCCCTACCTAT GCTAAGGGGACTCGTCTCCACCTCGTAAAGGAACTCCCAAGGGAATCCCTGTCCCTA TTTTCTATCCTTCTACCTTCCAAGACAGTCTAGCCTATAGAACTCTACCTCCCATC CCCTGAGGTGGTCCCATTCCTCCCTCCCTTCTCCCCCGCCATGCTCCAGTTGTGGAA GGTGGTACGCCAGCTCGGCAGCTGGAAGTGCACCGCCTCATACTGCTGCTGATCGCTNT CAGCCTGGGCTCCATGGGCTTNGTGGCTTATTATGTGTCCACCAGCCCTAGGCCAAGGA ACCTTGGCCCTGCCCTTNGAGACTGCAGCAGCGGTGGGGCAGCTN </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003635 unedited</p> <pre> NTTTAGCTTGNNACCGCGCCGCAATCTAAGATCGAGTTTTTTTTTTTTTTTTTAAAA ATAAGATGTTTATTAAGGACATTTCTAGCCACAGCTAGGGCTCATACTCGGCTCTATGA GCCACTGTCCGACCTCATCCCCATTCAATGTGAATGACATTAGGGAGGCCGGCCACAGG TAGATCCCACTGCCTGGCTAAAGGGCCATAGCAAGGGTCCCTCCCATGCAAGGGGTCT CTCCCATAGCCAGGTATAGAATAGATACTGCTGCGGATGAAGAGGGAAATCTCACTGG ACTAATACATTCCTACACCCTGCCTGGACCCTCTATTCTCCCCACCTCCCAAGATG ATGGGTCAAAGGTACCTAGCACTATTATGTGGGTACCAAAGGAAGCCCTTTATTTGTC CCAGAAGTGTGGGAAAAGGATACCTTCCCTTCTCAGCCATCTCAGGCCTGGGGGCTACT GAGGTAGAGGGGGAGGGGCCAGGCCACTTAATCCCCCTGTGGGCCCTGCTCTGGACCT GCCCTTAGGGAAGCAGGGGGCATTGCTGGTATGGGAGGCTGGGACATCAGCCAGAC TGGAATGCTGCAGTTCTTCCCGAGCCACGNAGGCACTGGCTGTTCAAGCCGGCTCAGCA GCTTCGACAACCTCAAAAATATGGNTTCCGGAAAAATCCGTAAAGGAAAGACGGNACTCAGT GTCCATATCTGGATACCTNCCGNNCTTGTCCGCCTAGACAGCGAGTCTTAACACCTTT CAGTCCCTGGCACCAAATCCCTTACATCATCAAAGTGGTCCGTGTGTAGNTAAAAAGA TGGTGATACCCAGAACTNCTGGAGCTCTCCATTGAGCTGCTGGNTTGGTACGCAGCTCTG CCCATN </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003635
Insert Size:	3900 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_003635.2 , NP_003626.1
RefSeq Size:	3778 bp
RefSeq ORF:	2652 bp
Locus ID:	8509
UniProt ID:	P52849
Cytogenetics:	10q22.2
Domains:	Sulfotransfer
Protein Families:	Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	This gene encodes a member of the N-deacetylase/N-sulfotransferase subfamily of the sulfotransferase 1 proteins. The encoded enzyme has dual functions in processing glucosamine and heparin polymers, including N-deacetylation and N-sulfation. The encoded protein may be localized to the Golgi. [provided by RefSeq, Feb 2009]