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Product datasheet for SC337535

NDST1 (NM_001301063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDST1 (NM_001301063) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDST1
Synonyms:	HSST; MRT46; NST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF: >NCBI ORF sequence for NM_001301063, the custom clone sequence may differ by one or more nucleotides

ATGCCTGCCCTGGCATGCCTCCGGAGGCTGTGTCGGCACGTGTCCCCGCAGGCTGTCCTTTTCCTGCTGT
TCATCTTCTGCCTGTTCAGCGTTTTCATCTCGGCCTACTACCTATATGGCTGGAAGCGAGGCCTGGAGCC
CTCGGCGGATGCCCCCGAGCCTGACTGCGGGGACCCGCCGCCTGTGGCCCCCAGTCGCCTGCTGCCACTC
AAGCCTGTGCAGGCAGCCACCCCTTCCCGCACAGACCCGTTGGTGCTGGTCTTTGTGGAGAGCCTCTACT
CGCAACTGGGCCAGGAGGTGGTGGCCATCCTGGAGTCCAGCCGCTTCAAATACCGCACAGAGATTGCGCC
GGGCAAGGGTGACATGCCCACGCTCACTGACAAGGGCCGTGGCCGCTTCGCCCTCATCATCTATGAGAAC
ATCCTCAAGTATGTCAACCTGGACGCCTGGAACCGGGAGCTGCTGGACAAGTACTGTGTGGCCTACGGCG
TGGGCATCATTGGCTTCTTCAAGGCCAATGAGAACAGCCTGCTGAGTGCGCAGCTCAAGGGCTTCCCCCT
GTTCCTGCACTCAAACCTGGGCCTGAAGGACTGCAGCATCAACCCCAAGTCCCCGCTGCTCTACGTGACG
CGACCTAGCGAGGTGGAGAAAGGTGTGCTCCCCGGCGAGGACTGGACGGTTTTCCAGTCAAATCACTCCA
CCTATGAGCCAGTGCTGCTGGCCAAGACGCGCTCGTCTGAGTCCATCCCACACCTGGGCGCAGACGCCGG
CCTGCATGCTGCACTGCACGCCACTGTGGTCCAGGACCTGGGCCTGCACGACGGCATCCAGCGCGTGCTG
TTTGGCAACAACCTGAACTTCTGGCTGCACAAGCTTGTCTTCGTGGATGCCGTGGCCTTCCTCACGGGGA
AGCGCCTCTCCCTGCCATTGGACCGCTACATCCTGGTGGACATTGATGACATCTTCGTGGGCAAGGAGGG
CACACGCATGAAGGTGGAGGACGTGAAGGCCCTGTTTGACACACAGAACGAACTACGCGCACACATCCCA
AACTTCACCTTCAACCTGGGCTACTCAGGGAAATTCTTCCACACAGGTACCAATGCTGAGGACGCTGGGG
ATGATCTGCTGCTGTCGTATGTGAAGGAGTTCTGGTGGTTCCCCCACATGTGGAGCCACATGCAGCCCCA
CCTTTTCCACAACCAGTCCGTGTTGGCCGAGCAGATGGCCTTGAACAAGAAGTTCGCTGTCGAGCATGGC
ATTCCCACAGACATGGGGTATGCAGTGGCGCCCCACCACTCGGGCGTGTACCCCGTGCACGTGCAGCTGT
ACGAGGCTTGGAAGCAGGTGTGGAGCATCCGCGTGACCAGCACGGAGGAGTACCCCCACCTGAAGCCAGC
CCGCTACCGCCGTGGCTTCATCCACAATGGCATCATGGTTCTCCCACGGCAGACCTGCGGCCTCTTCACA
CACACCATCTTCTACAACGAGTACCCTGGCGGCTCCAGTGAGCTGGACAAGATCATCAACGGGGGCGAGC
TCTTCCTCACCGTGCTCCTCAATCCTATCAGCATCTTCATGACGCACCTGTCCAACTATGGGAATGACCG
CCTGGGCCTGTACACCTTCAAGCACCTGGTGCGCTTCCTGCACTCCTGGACGAACCTCCGGCTGCAGACA
CTGCCCCCTGTGCAGTTGGCGCAGAAGTACTTCCAGATCTTCTCCGAGGAGAAGGACCCGCTCTGGCAGG
ACCCCTGCGAGGACAAACGTCACAAAGACATCTGGTCCAAGGAGAAGACGTGTGACCGCTTCCCAAAGCT
CCTCATCATCGGCCCCCAGAAAACAGGCACCACTGCCCTCTACCTGTTCCTGGGCATGCACCCTGACCTA
AGCAGCAACTACCCCAGCTCTGAGACCTTTGAGGAGATCCAGTTTTTTAATGGCCACAACTATCACAAAG
GCATCGACTGGTACATGGAGTTCTTCCCCATCCCTTCCAACACCACCTCCGACTTCTACTTTGAGAAAAG
CGCCAACTACTTTGATTCAGAAGTGGCGCCCCGGCGGGCAGCAGCCCTCTTGCCCAAAGCCAAGGTCCTG
ACCATCCTCATCAACCCCGCGGACCGGGCCTATTCCTGGTACCAGATTCTGGTCTTGGATGGCAAACTGC
TTCGCACAGAACCTGCCAAAGTGATGGACATGGTGCAGAAGTTCCTTGGGGTGACCAACACCATTGACTA
CCACAAAACCTTGGCGTTTGATCCAAAGAAAGGATTTTGGTGCCAACTGCTTGAAGGAGGAAAAACCAAG
TGTCTGGGCAAAAGCAAGGGCCGGAAATATCCCGAGATGGACTTGGATTCCCGAGCCTTCCTGAAGGACT
ATTACCGGGACCACAACATCGAGCTCTCCAAGCTGCTGTATAAGATGGGCCAGACACTTCCCACTTGGCT
ACGAGAGGACCTCCAGAACACCAGGTAG

Restriction Sites: SgfI-MluI

ACCN: NM_001301063

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:	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_001301063.1, NP_001287992.1
RefSeq Size:	7970 bp
RefSeq ORF:	2478 bp
Locus ID:	3340
UniProt ID:	P52848
Cytogenetics:	5q33.1
Protein Families:	Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
Gene Summary:	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] Transcript Variant: This variant (2) differs in the 5' UTR and lacks an in-frame exon in the coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.