

Product datasheet for **MC227802**

Ndst3 (NM_001293682) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst3 (NM_001293682) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ndst3
Synonyms:	4921531K01Rik; 4930511P15Rik; N-HSST 3; NDST-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227802 representing NM_001293682
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGATATGCAGTGTCCCTCACCATTACAGTGTCTACCCTGTCCATGTTTCAGCTTTATGAGGCCTGGA
AGAAGGTTTGAATATTTAAATCACCAGCACTGAAGAATATCCACATCTGAAACCAGCTAGATATCGGAG
AGGCTTCAATCACAAAAATCATGTTCTCCCAAGACAAACCTGTGGGCTCTTACCCACACAATTTTC
TACAAGGAGTATCCAGGGGGTCCAGGGAAGTGGACAAGAGTATTCATGGAGGGGAGCTCTTCTCACTG
TGGTTCTCAACCAATCAGTATTTTCATGACCCATTTGTCTAACTATGGAACGACCCGACTGGGATTATA
TACATTTGTGAATCTAGCCAATTTGTGCAGACCTGGACCAACCTGCGTCTTTCAGACCTTGCCCTCCAGCT
CAGCTGGCTCACAAATTTTGTGAGCTCTTCTGATCAGAAAGACCCTCTCTGGCAGAACCCTGTGATG
ACAAACGCCACAGAGACATTTGGTCTAAGAGAAAACCTGCGATCGTTTACAAAATTTCTGGTAATAGG
ACCCAGAAAACCTGGTACCACTGCCTTGTGTCTGTTCTGATTATGCATCCTTCCATCCTTAGTAACTCC
CCCAGCCAAAATCCTTTGAGGAGGTACAGTCTTTAATAGAAAATACTACCACAGGGGGATTGATTGGT
ACATGGATTTCTCCAGTCCCATCTAATGTCAACCACTGACTTTCTGTTGAGAAGAGTGCTAATTA
CCATTCAGAGGACGCTCCCAAGAGGGCTGCTTCTCTAGTCCCAGAAAATCATCACCATACTCATT
GACCCGTCAGACCGAGCGTACTCCTGGTATCAGCATCAGCGATCCCATGAAGACCCTGCAGCTCTGAAAT
TTAGCTTCTATGAAGTATCTCTGCTGGGCCAATGCACCCTGGGAACCTCCGAACCCTGCAGAAGAGATG
CCTGGTCCCTGGGTGGTATGCCAACACATCGAGAGATGGCTTGTATTTTCCCTCCATTTCAAGTTGCTA
ATCATTGATGGACAGCAGCTAAGAACTACCCCTGCGACAGTATGGATGAAGTCCAGAAGTTTCTAGGAG
TCTCACCTATTATAATTACTCCGAAGCTTTAACGTTTGATTCTCATAAAGGCTTCTGGTGCAGCTGCT
GGAAGAAGGGAAAACAAAATGCCTTGGGAAGAGTAAAGGAAGAAAATACCCCGATGGACTCTGATAGC
AGAGCGTTTCTGTCCAGCTACTACCGCAGCACAACTGGAGCTCTCGAAGCTGCTGCACAGGCTGGGGC
AGCCTCTGCCCTCTGGCTGAGACAGGAGCTGCAGAAAAGTGAGG**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001293682

Insert Size: 1377 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001293682.1](#), [NP_001280611.1](#)

RefSeq Size: 4333 bp

RefSeq ORF: 1377 bp

Locus ID: 83398

UniProt ID: [Q9EQH7](#)

Cytogenetics: 3 G1

Gene Summary: Essential bifunctional enzyme that catalyzes both the N-deacetylation and the N-sulfation of glucosamine (GlcNAc) of the glycosaminoglycan in heparan sulfate. Modifies the GlcNAc-GlcA disaccharide repeating sugar backbone to make N-sulfated heparosan, a prerequisite substrate for later modifications in heparin biosynthesis. Has high deacetylase activity but low sulfotransferase activity.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) has a different 5' structure, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1.