

Product datasheet for **MC217933**

Ndst3 (BC079622) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst3 (BC079622) 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: >BC079622
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTTTTATCATGAAACCTCACAGACTTTTACAGAGAACACTGATTCTGCTTGCCACCTTTTGTATGG
 TAAGCATTATTATTTCTGCTTACTACCTGTACAGCGGCTACAAACAGGAAAGTGAAGTCTCCGGGCGGGC
 TTCGGAAGTGACTGTGGTGACCTCCAGCACATACCATCCAGGCTGATGGAAGTGAGGAGACAATGATT
 TCCGATGCTTCAAGGACAGACCCACAGTCTGGTGTGGTGGAGAGCCAGTACTCATCCCTTGGTCAAG
 ACATCATTATGATGCTAGAATCCATCCGGTTCATTATCACACTGAAATCGTCTCGGAAAAGGAGATCT
 TCCGGCACTTACAGACAATGTGAAGGGCAAATATGTTCTCATTATATGAGAATATTCTAAAGTATATA
 AACATGGACTCTTGAATAGAAGCCTTTAGATAAATACTGTATAGAGTATGGTGTGGGTATCATTGGAT
 TCCATAAAACCAGTGAGAAAACTACAGAGCTTTCAGTTCAGGGGCTTCCCTTTTCCATAAGTGGAAA
 CCTGGCAGTAAAAGATTGCTGTATTAATCCTCACTCCCACTCCTTCGTGTGACCAAATCATCCAAGCTG
 GACAGAGTTCTTACCTGGAACGACTGGACAGTTTTTTCAGATTAACCACTCCACTACCGCCAGTAA
 TATTTGCCAAAGTTAAGACTCCAGAAAACCTTTCTCCTCCCATCTCTAAACATGCATTTTATGCCACTAT
 CATAACGACCTGGGGCTTCATGACGGGATCCAGCGAGTCTTTTTGGCAACAACCTTGAACCTTCTGGCTA
 CACAAGCTCATCTTCATAGACGCCATCTCCTTCTGTGCGGGAAGAGGCTGACACTGTCTTGGACAGGT
 ACATCCTTGTGGACATTGACGACATATTTGTAGGGAAGGAGGGCACAAGGATGAACACCAATGATGTGAA
 GGCCCTGCTTGACACTCAGAATCTTTGCGCACACAAATCACAAATTTTACATTCACCTTGGATTTTCA
 GGGAAATTTATCACACAGGAACCTGAAGAGGAAGATGAAGGGGATGATTGTCTGCTGGGTCTGTGGACG
 AGTTCCTGGTGGTTTCTCACATGTGGAGTCACATGCAGCCCACTCTCCACAATGAGTCGTCTTTAAT
 AGAGCAGATGATTCTCAACAAAAAGTTTGCCTTAGAGCACGGCATCCCTACCGATATGGGATATGCAGTG
 TCCCTCACCAATTCAGGTGTCTACCCTGTCCATGTTTACGCTTTATGAGGCTGGAAGAAGTTTGAATA
 TAAAAATCACCAGCACTGAAGAATATCCACATCTGAAACCAGCTAGATATCGGAGAGGCTTCATTACAA
 AAACATCATGGTTCTCCCAAGACAAACCTGTGGGCTCTTACCCACACAATTTTCTACAAGGAGTATCCA
 GGGGGTCCAGGGAACCTGGACAAGAGTATTCATGGAGGGGAGCTCTTCTCACTGTGGTTCTCAACCCAA
 TCAGTATTTTATGACCCATTTGTCTAACTATGGAACGACCGACTGGGATTATACATTTGTGAATCT
 AGCCAATTTTGTGACAGCTGGACCAACCTGCGTCTTACAGCCTTGCTCCAGCTCAGCTGGCTCACAAG
 TATTTTGTGCTTCTTCTGATCAGAAAGACCTCTCTGGCAGAACCCTGTGATGACAAACGCCACAGAG
 ACATTTGGTCTAAAGAGAAAACCTGCGATCGTTTACAAAATTCTTGGTAAATAGGACCCAGAAAACCTGG
 TACCCTGCCTTGTGCTGTTTCTGATTATGCATCCTTCCATCCTTAGTAACTCCCCAGCCCAAAATCC
 TTTGAGGAGGTACATGGATTTCTTCCAGTCCCATCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: BC079622

Insert Size: 1929 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:

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: [BC079622](#), [AAH79622](#)

RefSeq Size: 5317 bp

RefSeq ORF: 1928 bp

Locus ID: 83398

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]