

## Product datasheet for **MC222336**

### **Ndst3 (NM\_031186) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ndst3 (NM_031186) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ndst3
Synonyms:	4921531K01Rik; 4930511P15Rik; N-HSST 3; NDST-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222336 representing NM\_031186  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTTTTATCATGAAACCTCACAGACACTTTTACAGAGAACACTGATTCTGCTTGCCACCTTTTGTATGG  
 TAAGCATTATTATTTCTGCTTACTACCTGTACAGCGGCTACAAACAGGAAAGTGAAGTCTCCGGGGGGC  
 TTCGGAAGTGACTGTGGTGACCTCCAGCACATACCATCCAGGCTGATGGAAGTGAGGAGACAATGATT  
 TCCGATGCTTCAAGGACAGACCCACAGTCTGGTGTGGTGGAGAGCCAGTACTCATCCCTTGGTCAAG  
 ACATCATTATGATGCTAGAATCCATCCGGTTCATTATCACACTGAAATCGTCTCGGAAAAGGAGATCT  
 TCCGGCACTTACAGACAATGTGAAGGGCAAATATGTTCTCATTATATGAGAATATTCTAAAGTATATA  
 AACATGGACTCTTGAATAGAAGCCTTTAGATAAATACTGTATAGAGTATGGTGTGGGTATCATTGGAT  
 TCCATAAAACCAGTGAGAAAACTACAGAGCTTTCAGTTCAGGGGCTTCCCTTTTCCATAAGTGGAAA  
 CCTGGCAGTAAAAGATTGCTGTATTAATCCTCACTCCCACTCCTTCGTGTGACCAAATCATCCAAGCTG  
 GACAGAGTTCTTACCTGGAACGACTGGACAGTTTTTTCAGATTAACCACTCCACCTACCGCCAGTAA  
 TATTTGCCAAAGTTAAGACTCCAGAAAACCTTTCTCCTCCCATCTCTAAACATGCATTTTATGCCACTAT  
 CATAACGACCTGGGGCTTCATGACGGGATCCAGCGAGTCTTTTTGGCAACAACCTTGAACCTTGGGCTA  
 CACAAGCTCATCTTCATAGACGCCATCTCCTTCTGTGCGGGAAGAGGCTGACACTGTCTTGGACAGGT  
 ACATCCTTGTGGACATTGACGACATATTTGTAGGGAAGGAGGGCACAAGGATGAACACCAATGATGTGAA  
 GGCCCTGCTTGACACTCAGAATCTTTGCGCACACAAATCACAAATTTTACATTCACCTTGGATTTTCA  
 GGGAAATTTTATCACACAGGAACCTGAAGAGGAAGATGAAGGGGATGATTGTCTGCTGGGTCTGTGGACG  
 AGTTCGGTGGTTCCCTCACATGTGGATCAGTGCAGCCCACTCTTCCACAATGATGCCTGCTTTAAT  
 AGAGCAGATGATTCTCAACAAAAAGTTTGCCTTAGAGCACGGCATCCCTACCGATATGGGATATGCAGTG  
 TCCCTCACCAATTCAGGTGTCTACCCTGTCCATGTTTACGCTTTATGAGGCTGGAAGAAGGTTTGAATA  
 TAAAAATCACCAGCACTGAAGAATATCCACATCTGAAACCAGCTAGATATCGGAGAGGCTTCATTACAA  
 AAACATCATGGTTCTCCCAAGACAAACCTGTGGGCTTTCACCCACACAATTTTACAAGGAGTATCCA  
 GGGGGTCCAGGGAACCTGGACAAGAGTATTCATGGAGGGGAGCTTCTTCACTGTGGTTCTCAACCCAA  
 TCAGTATTTTATGACCCATTTGTCTAACTATGGAACGACCGACTGGGATTATACATTTGTGAATCT  
 AGCCAATTTTGTGACACTGGACCAACCTGCGTCTTCAGACCTTGCTCCAGCTCAGCTGGCTCACAAG  
 TATTTTGAAGTCTTTCTGATCAGAAAGACCCTCTCTGGCAGAACCCTGTGATGACAAACGCCACAGAG  
 ACATTTGGTCTAAAGAGAAAACCTGCGATCGTTTACAAAATCTTGGTAAATAGGACCCAGAAAACCTGG  
 TACCCTGCCTTGTGCTGTTCCCTGATTATGCATCCTTCCATCCTTAGTAACTCCCCAGCCAAAATCC  
 TTTGAGGAGGTACAGTCTTTAATAGAAAATACTACCACAGGGGGATTGATTGGTACATGGATTTCTTCC  
 CAGTCCCCTAATGTCACCACTGACTTTCTGTTTGAAGAGTGTCTAATTACTTCCATTGAGGACGC  
 TCCCAAGAGGGCTGCTTCTAGTCCCAGAAAGCCAAAATCATCACCATACTCATTGACCCGTGAGCCGA  
 GCGTACTCCTGGTATCAGCATCAGCGATCCCATGAAGACCCTGCAGCTCTGAAATTTAGCTTCTATGAAG  
 TGATCTCTGCTGGGCCAATGCACCCTGGGAACCTCGAACCCTGCAGAAGAGATGCCTGGTCCCTGGGTG  
 GTATGCCAACCATCGAGAGATGGCTTGTATTTCCCTCCATTTGAGTTGCTAATCATTGATGGACAG  
 CAGCTAAGAACTACCCCTGCGACAGTATGGATGAAGTCCAGAAGTTTCTAGGAGTCTCACCTCATTATA  
 ATTACTCCGAAGCTTTAACGTTTATTCTCATAAAGGCTTCTGGTGTGAGCTGCTGGAAGAAGGGAAAAC  
 AAAATGCCTTGGGAAGAGTAAAGGAAGAAAATACCCCGGATGGACTCTGATAGCAGAGCCTTCTGTCC  
 AGCTACTACCGGACCACAACGTGGAGCTCTCGAAGCTGCTGCACAGGCTGGGGCAGCCTCTGCCCTCT  
 GGCTGAGACAGGAGCTGCAGAAAGTAGG**TAG**

**ACGGCT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_031186  
**Insert Size:** 2622 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031186.3</a> , <a href="#">NP_112463.2</a>
<b>RefSeq Size:</b>	5446 bp
<b>RefSeq ORF:</b>	2622 bp
<b>Locus ID:</b>	83398
<b>UniProt ID:</b>	<a href="#">Q9EQH7</a>
<b>Cytogenetics:</b>	3 G1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer 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.</p>