

## Product datasheet for **MC222370**

### **Ndst2 (NM\_010811) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ndst2 (NM_010811) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ndst2
Synonyms:	Mndns; NDST-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC222370 representing NM\_010811  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTCCAGCTGTGGAAGGTGGTGCGCCCTGCTCGGCACTGGAAGTGCACCCGCTCATACTGCTGCTGA  
 TTGGTTTCAGTCTTGCTCCATGGGATTCTGGCTTACTACGTGTCCACCAGCCCAAGGCCAAGGAACC  
 CTTGCCTCTGCCCTTGGGAGACTGTAGTAGCAGTGGGGCAGCTGGCCCTGGCCCTGCACGGCCACCAGTC  
 CCACCTCGACCCCAAAGGCCTCCAGAACTCGAACCGAACCTGTGGTCTTGTGTTGTGAAAGTG  
 CATACTCACAAGTGGGGCAGGAGATTGTGGCCATCTTGAATCTAGTCGCTTTCGTTATAGCACTGAGCT  
 AGCACCTGGCCGAGGGGATATGCCCACACTGACTGATCATACCCATGGCCGCTATGTCTTAGTCATCTAT  
 GAGAACCTTCTAAAGTATGTGAACCTAGATGCCTGGAGCCGGAACTGCTGGACCCGCTACTGTGTGGAGT  
 ATGGCGTGGGTATCATTGGCTTTTCCGAGCCCGGAGCACAGCCTGCTGAGTGGCCAGCTCAAGGGCTT  
 TCCCTTTTCTACACTCAAACCTGGGGCTCCGGGACTACCAAGTGAATCCTTCCGCCCCCTACTACAT  
 CTACCCGCCCTAGCCGCTGGAGCCAGGACCCTGCCTGGTGTGACTGGACCATCTCCAGTCCAATC  
 ACAGCACTTATGAGCCCGTGCTTATTGCCAGCCATCGGCCAGCCGAGCTCTCCATGCCAGGACCAGTTCT  
 TCGGGCGGCCCGGCTCCCAACCGTGGTGCAGGACTTGGGGCTTATGATGGCATAACAGCGGGTGTGTTT  
 GGACATGGCCCTTCTTTTGGCTTACAAAATTGTTTTGTTGATGCTGTGTCATACCTACCCGGGAAGC  
 GCCTCTGCCTGGACCTTGACCGCTACATCTTAGTAGATATCGATGACATCTTGTGGCAAGAAGGTAC  
 TCGCATGAAGGTGGTGTGTTGAGGCTTGTGACCCTCAGAACAACTCAGGACCTTAGTCCCAAC  
 TTCACCTTCAACTTGGGCTTCTCGGGCAAGTCTATCATACCCGGACAGAAGAGGAGGATGCTGGGGACG  
 ACATCTGCTGAAGCACCGCAGGAGTCTGGTGGTCCCTCACATGTGGAGCCACATGCAGCCACGACT  
 CTTCCACAACCGCTCTGTCTAGCTGACCAGATGAGGCTCAACAAACAGTTTGCTTGGAGCATGGGATT  
 CCTACGGATCTGGGGTATGCTGTGGCCCCCACCCTCTGGCGTGTACCCATCCACTCGCAGCTCTATG  
 AGGCTGGAAATCTGCTGGGGCATCCAGGTGACCAGCACTGAGGAGTACCCCATCTGCGTCTGCTCG  
 CTACCGCGTGGCTTCAATCACAATGGCATCATGGTGTCTCCCGGCAACATGTGGCCTTTCACCCAC  
 ACGATCTTCTAATGAGTATCTGGAGTTCTCGTGAAGTATCGAAGCATCCGAGGTGGAGAGCTCT  
 TTCTGACAGTGTCTTAAATCCGATCAGTGTCTTATGACCCATCTGTCAAACATGAAATGACCCGGCT  
 GGGCCTGTACACCTTTGAGAGCCTGGTGCCTTCTCCAGTGTGGACACGACTGCGCTACAGACCCTT  
 CCTCCTGTCCCTTGCACAAAAGTACTTTGAACTTTTTCTCAGGAACGAAGCCCTGTGGCAGAAATC  
 CCTGTGATGACAAGAGGCACAAAGATATCTGGTCCAAGGAGAAAACCTGTGATCGACTCCCAAGTTCT  
 CATTGTGGGACCACAGAAGACAGGCACCACGGCTATTCATTTCTCTGAGCCTGCACCCAGCTGTCA  
 AGCAGTTTTCCAGCCCCAGCACCTTTGAGGAGATTAGTTCTTCAATGGCCCTAATTACCACAAGGGGA  
 TCGACTGGTACATGGACTTCTCCCTGTCTTCCAATGCCAGCACTGACTTCTGTTTGAAGAAAGTGC  
 CACCTACTTTGACTCGGAGGTCTACCACGGCGGGGGCTGCCCTTCTGCCAAGAGCCAAGATAATCACT  
 GTGCTTATCAACCCTGCTGACAGGGCTACTCCTGGTACCAGCACCAGCGAGCACATGGAGACCCATTG  
 CTCTGAACTACACCTTCTACCAAGTGATTTAGCTTCTTCTCAGGCCCTCTGCTACTTCGCTCCTTGA  
 GAACCGTTGTCTTGTTCCTGGCTACTATTCTACCCATCTTCAACGCTGGCTGACTTACTATCCCTGGGA  
 CAGTTGCTGATTATGGATGGGCAGGAGCTTCGTGTCAACCCGGCAGCCTCAATGGAGATCATCCAGAAGT  
 TCTGGGTATCACCCCTTCTGAACTACAGGAGCCCTCAGGTTTGTGAAGATAAAGGATTTTGGTG  
 CCAGGGCCTTGAAGGTGGTAAGACTCGTGTCTTGGGAGAAGCAAGGCCGAGGTACCCAGACATGGAC  
 ATGGAGTCTCGCCTTTCTTACGGATTTTCCGGAACCATAATTTGGAGCTATCAAAGCTGCTGAGTC  
 GGCTTGGCCAGCCAGCCCTTGTGGCTTCGGGAAGAATTGCAACATTCAGTGTGGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_010811

<b>Insert Size:</b>	2652 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_010811.2</a> , <a href="#">NP_034941.2</a>
<b>RefSeq Size:</b>	3907 bp
<b>RefSeq ORF:</b>	2652 bp
<b>Locus ID:</b>	17423
<b>UniProt ID:</b>	<a href="#">P52850</a>
<b>Cytogenetics:</b>	14 A3
<b>Gene Summary:</b>	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. Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]