

Product datasheet for **MC222328**

Ndst4 (NM_022565) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst4 (NM_022565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ndst4
Synonyms:	4930439H17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222328 representing NM_022565
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATCTTATTTTAAAGTTTCGAAGAAGCTTTCGAACACTGATTGTTCTTAGCTACTTTTTGCTTGG
 TGAGCATCCTCATTCTGCCTACTTCTGTACTCTGGCTACAAACAGGAAATGACTTATTGAAACGAC
 TGCAGAAGCAGAGTGTGCTGACATCAAAGACCTCCCTTATCGGTCTATAGAGCTGAGAACCATCAAGCCT
 ATTGATACATCCAAAAGTACCCCACTGTCTTCTCTTTGTAGAGAGCCAGTATTCGCAACTTGGTCAAG
 ATATTATAGCAATCTTGGAGTCCAGTCCGTTTCAATACCAGATGGTATTGCTCCAGGCAAGGGAGACAT
 ACCGCCTCTTACCGATAGTGGCAAAGGGAAGTACACATTGATTATTTATGAAAATATTCTGAAGTACGTC
 AGCATGGACTCATGGAACCGGGAGCTTTAGAAAAATACTGTATAGAATACAGTGTAGCATAATTGGTT
 TTCATAAAGCCAATGAGAACAGTTTACCAACTACACAAGTAAAGGGTTTCTTTGAACTTATTCAATAA
 CGTAGCTCTGAAGGACTGCTCTGTGAACCCCACTCTCTCTGCTCCATATTACCAAAGGCCCAAAGTT
 GAAAAGGGACCTCTTCTGGGGAAGACTGGACAATTTTCCAGTATAACCATTTCTACCTATCAGCCAGTGC
 TTTTAACTGAGTTACAGTCAGAAAAGTCCCTCTCTTTCTGTCCAGCCAAACACTTTATGCGACAATTAT
 TCAGGATCTGGGGCTTCATGACGGGATTACGCGAGTCTTTTTGGTAACAACCTGAACTTTTGGTTGCAC
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 AAGTTTTACCACACAGGAACCGAAGAAGAGGATGAAGGTGACGACCTTCTGCTGAGGCTGTGGATGAAT
 CTGGTGGTTTTCTCACATGTGGAGTCACATGCAGCCCCACTTCCACAATGAATCATCTTTAGTGGAA
 ACAGATGATTCTCAACAAGAATTTGCCCTGGAACATGGAATTCGATCAACCTGGGCTACGCAAGTGGCC
 CCACATCACTCAGGGTCTACCCAGTCCATATTCAAGTGTATGCAGCTTGGAAAGAAAGTCTGGGGTATTC
 AGGTCACCAGCACTGAAGAGTACCCACATCTGAAACCTGCGCGGTACAGGAAGGGCTTATTATAATAG
 CATCATGGTCTCCCTCGACAGACCTGTGGGCTGTTACACATACTATTTTCTACAAGGAGTATCCAGGA
 GGACCTCAAGAATTGGATAAAAGTATCAAAGGAGGTGAACTTCTCCTCACAACTTCTAAATCCAATCA
 GCATTTTCATGACACATCTTTCTAACTATGAAATGACCGCTCGGCTTGTACACCTTTGTGAAGTGGC
 CAACTTTGTGCACAGCTGGACCAACTTGAAGTGCAGACCCTGCCTCCAGTGAAGTGGCCACAATAAC
 TTCGAGCTCTTCCCTGAGCAGAAAGACCCTCTCTGGCAGAAATCCATGCGACGATAAACGACACAAGACA
 TCTGGTCCAGGGAGAAAACCTGTGACCATTTACCGAAATTCCTTGTGATTGGGCCACAGAAGACAGGAAC
 AACTGCATTTATTTATTTCTTCTAATGCACCCCTCCATCATCAGCAATCTTCTAGCCCCAAAACCTTT
 GAAGAAGTTCAATTTTTAATGGCAACAACATCAACAAGGGAATTGAGTGGTATATGGACTTTTTCCCCA
 CTCCTTCCAACATTACCAGTGAATTTCTATTTGAAAAGAGTGCTAACTACTTCCACTCAGAAGAGGCTCC
 CAAGAGGGCTGCATCTCTTGTCCCAAAGCCAAGATCATTACTATCCTCATAGACCCCTCGGACAGGGCA
 TATTCTTGGTACCAGCACCAACGATCTCATGAAGATCCAGCTGCCCTGAGGTTCAATTTCTATGAAGTTA
 TCACAACAGGACATTGGGCCCTCTGATTTAAAAACATTGCAGAGGAGATGTCTGGTGCCTGGGTGGTA
 TGCAGTGCACATAGAAAGATGGCTGGCCTACTTTTCTACTTCCCAGTTGCTAATTATTGATGGACAACAG
 CTGAGATCTGACCCAGCTACTGTGATGGATGAAGTCCAGAAGTTTCTAGGAGTTACACCTCATTATAATT
 ACTCGGAAGCACTAACGTTTGTATCCCCAGAAAGGCTTTTGGTGTGAGCTACTAGAAGGAGAAAAACCAA
 ATGCCCTTGGGAAAAGCAAAGGCCGAAAATACCCGCCATGGATTAGAGTCCAGAAGTTTCTCTCCAGC
 TACTACCGCAGCCACAACGTGGAAGTCTCGAAGCTGCTGCACAGGCTGGGGCAGCCTCTGCCCTCGTGGC
 TGAGACAGGAGCTGCAGAAAGTGAAGTAG

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1569_e08.zip

Restriction Sites: SgfI-MluI

ACCN: NM_022565

Insert Size:	2619 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:	<ol style="list-style-type: none">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_022565.2 , NP_072087.2
RefSeq Size:	3489 bp
RefSeq ORF:	2619 bp
Locus ID:	64580
UniProt ID:	Q9EQW8
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 low deacetylase activity but high sulfotransferase activity.[UniProtKB/Swiss-Prot Function]