OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR209708

Ndst3 (BC079622) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst3 (BC079622) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR209708 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTTTATCATGAAACCTCACAGACACTTTCAGAGAACACTGATTCTGCTTGCCACCTTTTGTATGG
TAAGCATTATTATTTCTGCTTACTACCTGTACAGCGGCTACAAACAGGAAAGTGAAGTCTCCGGGCGGGC
TTCGGAAGTGGACTGTGGTGACCTCCAGCACATACCATCCAGGCTGATGGAAGTGAGGAGGACAATGATT
TCCGATGCTTCAAGGACAGACCCCACAGTCCTGGTGTTTGTGGAGAGCCAGTACTCATCCCTTGGTCAAG
ACATCATTATGATGCTAGAATCCATCCGGTTCCATTATCACACTGAAATCGCTCCTGGAAAAGGAGATCT
TCCGGCACTTACAGACAATGTGAAGGGCAAATATGTTCTCATTATATATGAGAATATTCTAAAGTATATA
AACATGGACTCTTGGAATAGAAGCCTTTTAGATAAATACTGTATAGAGTATGGTGTGGGTATCATTGGAT
TCCATAAAACCAGTGAGAAAAATCTACAGAGCTTTCAGTTCAGGGGCTTCCCCTTTTCCATAAGTGGAAA
CCTGGCAGTAAAAGATTGCTGTATTAATCCTCACTCCCCACTCCTTCGTGTGACCAAATCATCCAAGCTG
GACAGAGGTTCTCTACCTGGAACTGACTGGACAGTTTTTCAGATTAACCACTCCACCTACCAGCCAGTAA
TATTTGCCAAAGTTAAGACTCCAGAAAACCTTTCTCCTCCCATCTCTAAACATGCATTTTATGCCACTAT
CATACACGACCTGGGGCTTCATGACGGGATCCAGCGAGTTCTTTTTGGCAACAACTTGAACTTCTGGCTA
CACAAGCTCATCTTCATAGACGCCATCTCCTTCTTGTCGGGGAAGAGGCTGACACTGTCCTTGGACAGGT
ACATCCTTGTGGACATTGACGACATATTTGTAGGGAAGGAGGGCACAAGGATGAACACCAATGATGTGAA
GGCCCTGCTTGACACTCAGAATCTTTTGCGCACACAAATCACAAATTTTACATTCAACCTTGGATTTTCA
GGGAAATTTTATCACACAGGAACTGAAGAGGAAGATGAAGGGGATGATTGTCTGCTGGGTTCTGTGGACG
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AAACATCATGGTTCTCCCAAGACAAACCTGTGGGCTCTTCACCCACACAATTTTCTACAAGGAGTATCCA
GGGGGTCCCAGGGAACTGGACAAGAGTATTCATGGAGGGGAGCTCTTCTTCACTGTGGTTCTCAACCCAA
TCAGTATTTTCATGACCCATTTGTCTAACTATGGAAACGACCGACTGGGATTATATACATTTGTGAATCT
AGCCAATTTTGTGCAGACCTGGACCAACCTGCGTCTTCAGACCTTGCCTCCAGCTCAGCTGGCTCACAAG
TATTTTGAGCTCTTTCCTGATCAGAAAGACCCTCTCTGGCAGAACCCCTGTGATGACAAACGCCACAGAG
ACATTTGGTCTAAAGAGAAAACCTGCGATCGTTTACCAAAATTCTTGGTAATAGGACCCCAGAAAACTGG
TACCACTGCCTTGTGTCTGTTCCTGATTATGCATCCTTCCATCCTTAGTAACTCCCCCAGCCCAAAATCC
TTTGAGGAGGTACATGGATTTCTTCCCAGTCCCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

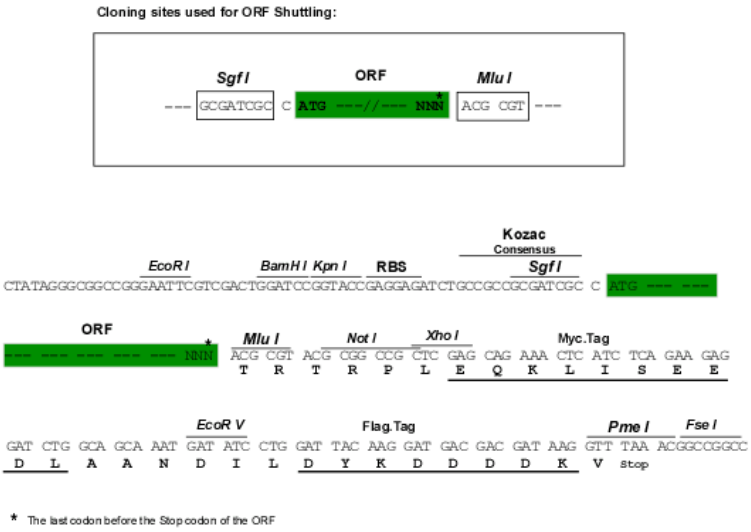
>MR209708 protein sequence
Red=Cloning site Green=Tags(s)

MSFIMKPHRHFQRTLILLATFCMVSIIISAYYLYSGYKQESEVSGRASEVDCGDLQHIPSRLMEVRRTMI
SDASRTDPTVLVFVESQYSSLGQDIIMMLESIRFHYHTEIAPGKGDLPALTDNVKGKYVLIIYENILKYI
NMDSWNRSLLDKYCIEYGVGIIGFHKTSEKNLQSFQFRGFPFSISGNLAVKDCCINPHSPLLRVTKSSKL
DRGSLPGTDWTVFQINHSTYQPVIFAKVKTPENLSPPISKHAFYATIIHDLGLHDGIQRVLFGNNLNFWL
HKLIFIDAISFLSGKRLTLSLDRYILVDIDDIFVGKEGTRMNTNDVKALLDTQNLLRTQITNFTFNLGFS
GKFYHTGTEEEDEGDDCLLGSVDEFWWFPHMWSHMQPHLFHNESSLIEQMILNKKFALEHGIPTDMGYAV
SPHHSGVYPVHVQLYEAWKKVWNIKITSTEEYPHLKPARYRRGFIHKNIMVLPRQTCGLFTHTIFYKEYP
GGPRELDKSIHGGELFFTVVLNPISIFMTHLSNYGNDRLGLYTFVNLANFVQTWTNLRLQTLPPAQLAHK
YFELFPDQKDPLWQNPCDDKRHRDIWSKEKTCDRLPKFLVIGPQKTGTTALCLFLIMHPSILSNSPSPKS
FEEVHGFLPSPI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC079622

ORF Size: 1926 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

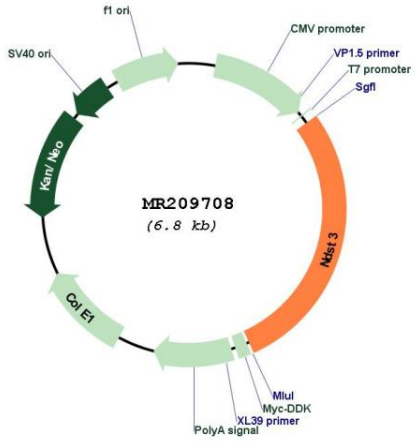
Locus ID: 83398

Cytogenetics: 3 G1

MW: 73.8 kDa

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]

Product images:



Circular map for MR209708