

Product datasheet for **MG209708**

Ndst3 (BC079622) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst3 (BC079622) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ndst3
Synonyms:	4921531K01Rik; 4930511P15Rik; N-HSST 3; NDST-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209708 representing BC079622
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTTTATCATGAAACCTCACAGACTTTTACAGAGAACACTGATTCTGCTTGCCACCTTTTGTATGG
 TAAGCATTATTATTTCTGCTTACTACCTGTACAGCGGCTACAAACAGGAAAGTGAAGTCTCCGGGGGGC
 TTCGGAAGTGACTGTGGTGACCTCCAGACATACCATCCAGGCTGATGGAAGTGAGGAGACAATGATT
 TCCGATGCTTCAAGGACAGACCCACAGTCTGGTGTGGTGGAGAGCCAGTACTCATCCCTTGGTCAAG
 ACATCATTATGATGCTAGAATCCATCCGGTTCATTATCACACTGAAATCGCTCTGGAAAAGGAGATCT
 TCCGGCACTTACAGACAATGTGAAGGGCAAATATGTTCTCATTATATGAGAATATTCTAAAGTATATA
 AACATGGACTCTTGAATAGAAGCCTTTAGATAAATACTGTATAGAGTATGGTGTGGGTATCATTGGAT
 TCCATAAAACCAGTGAGAAAACTACAGAGCTTTCAGTTCAGGGGCTTCCCTTTTCCATAAGTGGAAA
 CCTGGCAGTAAAAGATTGCTGTATTAATCCTCACTCCCACTCCTTCGTGTGACCAAATCATCCAAGCTG
 GACAGAGTTCTTACCTGGAACGACTGGACAGTTTTTTCAGATTAACCACTCCACCTACCGCCAGTAA
 TATTTGCCAAAGTTAAGACTCCAGAAAACCTTTCTCCTCCCATCTCTAAACATGCATTTTATGCCACTAT
 CATAACGACCTGGGGCTTCATGACGGGATCCAGCGAGTCTTTTTGGCAACAACCTTGAACCTTCTGGCTA
 CACAAGCTCATCTTCATAGACGCCATCTCCTTCTGTGCGGGAAGAGGCTGACACTGTCTTGGACAGGT
 ACATCCTTGTGGACATTGACGACATATTTGTAGGGAAGGAGGGCACAAGGATGAACACCAATGATGTGAA
 GGCCCTGCTTGACTCAGAATCTTTGCGCACACAAACACAATTTTACATCAACCTTGGATTTTCA
 GGGAAATTTATCACACAGGAACCTGAAGAGGAAGATGAAGGGGATGATTGTCTGCTGGGTCTGTGGACG
 AGTTCCTGGTGGTTTCTCACATGTGGAGTCACATGCAGCCCCACCTTCCACAATGAGTCGTCTTTAAT
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 TAAAAATCACCAGCACTGAAGAATATCCACATCTGAAACCAGCTAGATATCGGAGAGGCTTCATTACAA
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 GGGGGTCCAGGGAACCTGGACAAGAGTATTCATGGAGGGGAGCTTCTTCACTGTGTTTCAACCCAA
 TCAGTATTTTATGACCCATTTGTCTAACTATGGAACGACCGACTGGGATTATACATTTGTGAATCT
 AGCCAATTTTGTGACAGCTGGACCAACCTGCGTCTTACAGCCTTGCTCCAGCTCAGCTGGCTCACAAG
 TATTTTGAAGCTTTTCTGATCAGAAAGACCTCTCTGGCAGAACCCTGTGATGACAAACGCCACAGAG
 ACATTTGGTCTAAAGAGAAAACCTGCGATCGTTTACAAAATTCTTGGTAAATAGGACCCAGAAAACCTGG
 TACCACCTGCTTGTGCTGTTTCTGATTATGCATCCTTCCATCCTTAGTAACTCCCCAGCCCAAAATCC
 TTTGAGGAGGTACATGGATTTCTTCCAGTCCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209708 representing BC079622
 Red=Cloning site Green=Tags(s)

MSFIMKPHRFQRTLILLATFCMVSIIISAYLYSGYKQSEVSGRASEVDCGLQHIPSRLMEVRRRTMI
 SDASRTDPTLVFVESQYSSLGQDIIMMLESIRFHYHTEIAPGKGDLPALTDNVKGYVLIYENILKYI
 NMDSWNRSLLDKYCIEYGVGIIGFHKTSKLNLSQSFQFRGFPFISGNLAVKDCCINPHSPLLRVTKSSK
 DRGSLPGTDWTVFQINHSTYQPVIFAKVKTPENLSPPIKSHAFYATIIHDLGLHDGIQRVLFNNLNF
 HKLIFIDAI SFLSGKRLTSLDRYILVDIDDIFVKGEGTRMNTNDVKALLDTONLLRTQITNFTFNLGFS
 GKFYHTGTEEEDEGDCLLGSVDEFWFWPHMWSMQPHLFHNESSLIEQMILNKKFALEHGIPDMGYAV
 SPHHSVYYPVHVQLYEAWKKVWNIKITSTEEYPHLKPARYRRGF IHKNIMVLPRTQCGLFTHTFYKEYP
 GPRELDKSIHGELFFTVVLPNPI SIFMTHLSNYGNDRLGLYTFVNLANFVQTWTNLRQLTLPQAHLAK
 YFELFPDQKDPLWQNPCCDKRHRDIWSKEKTCDRLPKFLVIGPQKTGTALCLFLIMHPSILSNSPSPKS
 FEEVHGFLPSPI

TRTRPLE - GFP Tag - V

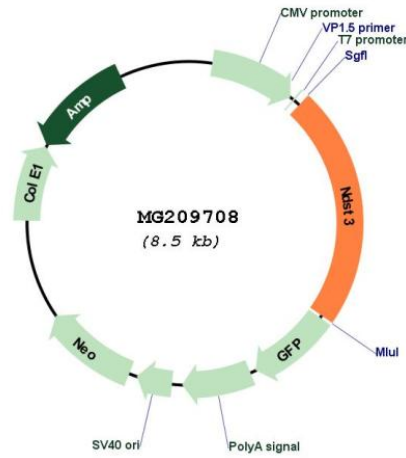
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC079622

ORF Size: 1928 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:	<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:	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]