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 MR230013

Ndst3 (NM_001293682) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst3 (NM_001293682) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndst3
Synonyms:	4921531K01Rik; 4930511P15Rik; N-HSST 3; NDST-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

View online »

ORF Nucleotide Sequence:

>MR230013 representing NM_001293682
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGATATGCAGTGTCCCCTCACCATTCAGGTGTCTACCCTGTCCATGTTCAGCTTTATGAGGCCTGGA
AGAAGGTTTGGAATATTAAAATCACCAGCACTGAAGAATATCCACATCTGAAACCAGCTAGATATCGGAG
AGGCTTCATTCACAAAAACATCATGGTTCTCCCAAGACAAACCTGTGGGCTCTTCACCCACACAATTTTC
TACAAGGAGTATCCAGGGGGTCCCAGGGAACTGGACAAGAGTATTCATGGAGGGGAGCTCTTCTTCACTG
TGGTTCTCAACCCAATCAGTATTTTCATGACCCATTTGTCTAACTATGGAAACGACCGACTGGGATTATA
TACATTTGTGAATCTAGCCAATTTTGTGCAGACCTGGACCAACCTGCGTCTTCAGACCTTGCCTCCAGCT
CAGCTGGCTCACAAGTATTTTGAGCTCTTTCCTGATCAGAAAGACCCTCTCTGGCAGAACCCCTGTGATG
ACAAACGCCACAGAGACATTTGGTCTAAAGAGAAAACCTGCGATCGTTTACCAAAATTCTTGGTAATAGG
ACCCCAGAAAACTGGTACCACTGCCTTGTGTCTGTTCCTGATTATGCATCCTTCCATCCTTAGTAACTCC
CCCAGCCCAAAATCCTTTGAGGAGGTACAGTTCTTTAATAGAAATAACTACCACAGGGGGATTGATTGGT
ACATGGATTTCTTCCCAGTCCCATCTAATGTCACCACTGACTTTCTGTTTGAGAAGAGTGCTAATTACTT
CCATTCAGAGGACGCTCCCAAGAGGGCTGCTTCTCTAGTCCCGAAAGCCAAAATCATCACCATACTCATT
GACCCGTCAGACCGAGCGTACTCCTGGTATCAGCATCAGCGATCCCATGAAGACCCTGCAGCTCTGAAAT
TTAGCTTCTATGAAGTGATCTCTGCTGGGCCCAATGCACCCTGGGAACTCCGAACCCTGCAGAAGAGATG
CCTGGTCCCTGGGTGGTATGCCAACCACATCGAGAGATGGCTTGTTTATTTCCCTCCATTTCAGTTGCTA
ATCATTGATGGACAGCAGCTAAGAACTACCCCTGCGACAGTGATGGATGAAGTCCAGAAGTTTCTAGGAG
TCTCACCTCATTATAATTACTCCGAAGCTTTAACGTTTGATTCTCATAAAGGCTTCTGGTGTCAGCTGCT
GGAAGAAGGGAAAACAAAATGCCTTGGGAAGAGTAAAGGAAGAAAATACCCCCCGATGGACTCTGATAGC
AGAGCGTTTCTGTCCAGCTACTACCGCGACCACAACGTGGAGCTCTCGAAGCTGCTGCACAGGCTGGGGC
AGCCTCTGCCCTCCTGGCTGAGACAGGAGCTGCAGAAAGTGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

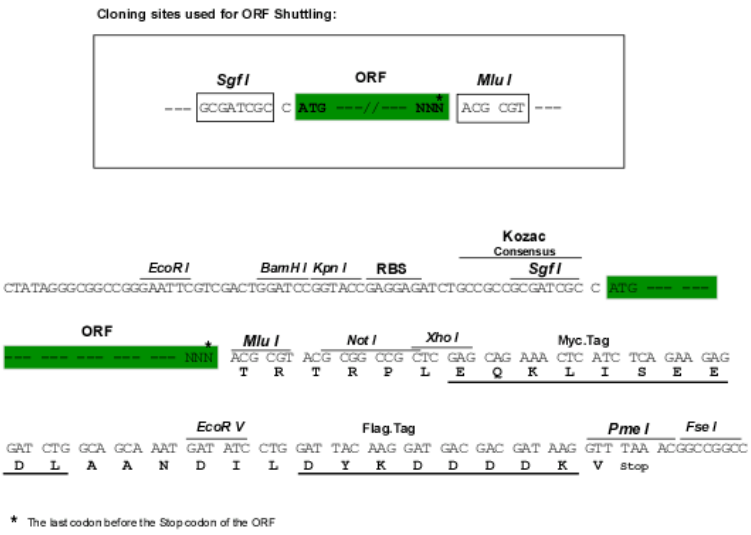
>MR230013 representing NM_001293682
Red=Cloning site Green=Tags(s)

MGYAVSPHHSGVYPVHVQLYEAWKKVWNIKITSTEEYPHLKPARYRRGFIHKNIMVLPRQTCGLFTHTIF
YKEYPGGPRELDKSIHGGELFFTVVLNPISIFMTHLSNYGNDRLGLYTFVNLANFVQTWTNLRLQTLPPA
QLAHKYFELFPDQKDPLWQNPCDDKRHRDIWSKEKTCDRLPKFLVIGPQKTGTTALCLFLIMHPSILSNS
PSPKSFEEVQFFNRNNYHRGIDWYMDFFPVPSNVTTDFLFEKSANYFHSEDAPKRAASLVPKAKIITILI
DPSDRAYSWYQHQRSHEDPAALKFSFYEVISAGPNAPWELRTLQKRCLVPGWYANHIERWLVYFPPFQLL
IIDGQQLRTTPATVMDEVQKFLGVSPHYNYSEALTFDSHKGFWCQLLEEGKTKCLGKSKGRKYPPMDSDS
RAFLSSYYRDHNVELSKLLHRLGQPLPSWLRQELQKVR

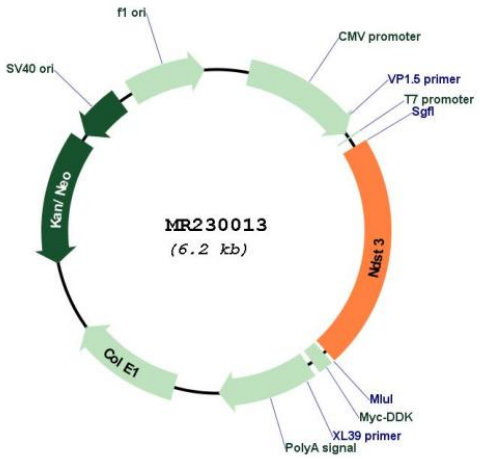
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001293682

ORF Size: 1374 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:	NM_001293682.1, NP_001280611.1
RefSeq Size:	4333 bp
RefSeq ORF:	1377 bp
Locus ID:	83398
UniProt ID:	Q9EQH7
Cytogenetics:	3 G1
MW:	53.9 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]