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Product datasheet for MR217087

Ndst3 (NM_031186) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst3 (NM_031186) 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:

>MR217087 representing NM_031186
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTTTTATCATGAAACCTCACAGACACTTTCAGAGAACACTGATTCTGCTTGCCACCTTTTGTATGG
TAAGCATTATTATTTCTGCTTACTACCTGTACAGCGGCTACAAACAGGAAAGTGAAGTCTCCGGGCGGGC
TTCGGAAGTGGACTGTGGTGACCTCCAGCACATACCATCCAGGCTGATGGAAGTGAGGAGGACAATGATT
TCCGATGCTTCAAGGACAGACCCCACAGTCCTGGTGTTTGTGGAGAGCCAGTACTCATCCCTTGGTCAAG
ACATCATTATGATGCTAGAATCCATCCGGTTCCATTATCACACTGAAATCGCTCCTGGAAAAGGAGATCT
TCCGGCACTTACAGACAATGTGAAGGGCAAATATGTTCTCATTATATATGAGAATATTCTAAAGTATATA
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TATTTGCCAAAGTTAAGACTCCAGAAAACCTTTCTCCTCCCATCTCTAAACATGCATTTTATGCCACTAT
CATACACGACCTGGGGCTTCATGACGGGATCCAGCGAGTTCTTTTTGGCAACAACTTGAACTTCTGGCTA
CACAAGCTCATCTTCATAGACGCCATCTCCTTCTTGTCGGGGAAGAGGCTGACACTGTCCTTGGACAGGT
ACATCCTTGTGGACATTGACGACATATTTGTAGGGAAGGAGGGCACAAGGATGAACACCAATGATGTGAA
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CAGTCCCATCTAATGTCACCACTGACTTTCTGTTTGAGAAGAGTGCTAATTACTTCCATTCAGAGGACGC
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GGCTGAGACAGGAGCTGCAGAAAGTGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR217087 representing NM_031186
Red=Cloning site Green=Tags(s)

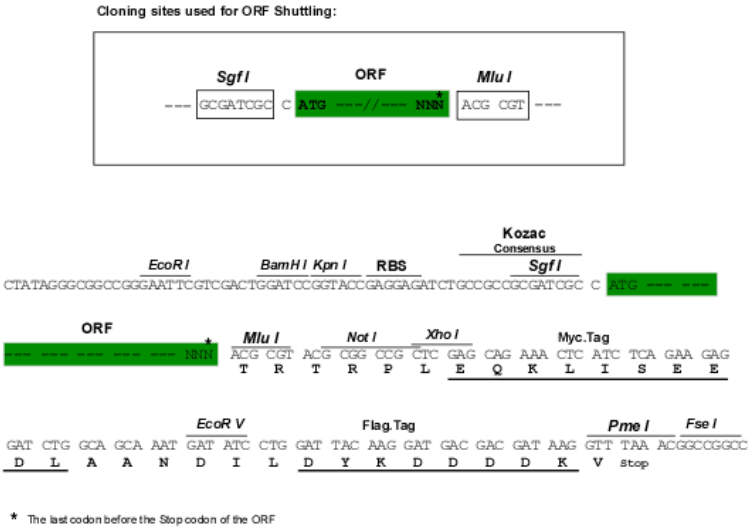
MSFIMKPHRHFQRTLILLATFCMVSIIISAYYLYSGYKQESEVSGRASEVDCGDLQHIPSRLMEVRRTMI
SDASRTDPTVLVFVESQYSSLGQDIIMMLESIRFHYHTEIAPGKGDLPALTDNVKGKYVLIIYENILKYI
NMDSWNRSLLDKYCIEYGVGIIGFHKTSEKNLQSFQFRGFPFSISGNLAVKDCCINPHSPLLRVTKSSKL
DRGSLPGTDWTVFQINHSTYQPVIFAKVKTPENLSPPISKHAFYATIIHDLGLHDGIQRVLFGNNLNFWL
HKLIFIDAISFLSGKRLTLSLDRYILVDIDDIFVGKEGTRMNTNDVKALLDTQNLLRTQITNFTFNLGFS
GKFYHTGTEEEDEGDDCLLGSVDEFWWFPHMWSHMQPHLFHNESSLIEQMILNKKFALEHGIPTDMGYAV
SPHHSGVYPVHVQLYEAWKKVWNIKITSTEEYPHLKPARYRRGFIHKNIMVLPRQTCGLFTHTIFYKEYP
GGPRELDKSIHGGELFFTVVLNPISIFMTHLSNYGNDRLGLYTFVNLANFVQTWTNLRLQTLPPAQLAHK
YFELFPDQKDPLWQNPCDDKRHRDIWSKEKTCDRLPKFLVIGPQKTGTTALCLFLIMHPSILSNSPSPKS
FEEVQFFNRNNYHRGIDWYMDFFPVPSNVTTDFLFEKSANYFHSEDAPKRAASLVPKAKIITILIDPSDR
AYSWYQHQRSHEDPAALKFSFYEVISAGPNAPWELRTLQKRCLVPGWYANHIERWLVYFPPFQLLIIDGQ
QLRTTPATVMDEVQKFLGVSPHYNYSEALTFDSHKGFWCQLLEEGKTKCLGKSKGRKYPPMDSDSRAFLS
SYYRDHNVELSKLLHRLGQPLPSWLRQELQKVR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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ACCN:	NM_031186
ORF Size:	2619 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_031186.3, NP_112463.2
RefSeq Size:	5361 bp
RefSeq ORF:	2622 bp
Locus ID:	83398
UniProt ID:	Q9EQH7
Cytogenetics:	3 G1
MW:	101.5 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]

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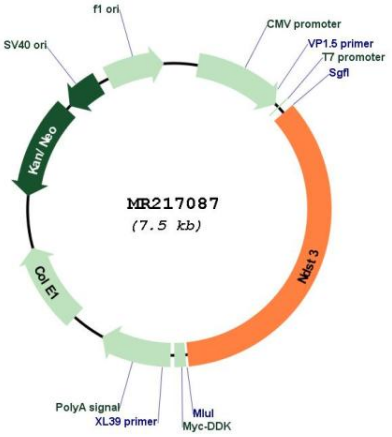
Product images:



Circular map for MR217087

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