

Product datasheet for **MR217209**

Ndst2 (NM_010811) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndst2 (NM_010811) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndst2
Synonyms:	Mndns; NDST-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR217209 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTCCAGCTGTGGAAGGTGGTGCGCCCTGCTCGGCAACTGGAAGTGCACCCGCTCATACTGCTGCTGA
TTGGTTTCAGTCTTGCTCCATGGGATTCTGGCTTACTACGTGTCCACCAGCCCAAGGCCAAGGAACC
CTTGCCTCTGCCCTTGGGAGACTGTAGTAGCAGTGGGGCAGCTGGCCCTGGCCCTGCACGGCCACCAGTC
CCACCTCGACCCCAAAGGCCTCCAGAAACAACCGAACGGAACCTGTGGTCTTGTGTTTGTGAAAGTG
CATACTCACAACGGGGCAGGAGATTGTGGCCATCTTGAATCTAGTCGCTTTCGTTATAGCACTGAGCT
AGCACCTGGCCGAGGGGATATGCCCACACTGACTGATCATACCCATGGCCGCTATGTCTTAGTCATCTAT
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ATGGCGTGGGTATCATTGGCTTTTTCCGAGCCCGGAGCACAGCCTGCTGAGTGGCCAGCTCAAGGGCTT
TCCCTTTTCTACACTCAAACCTGGGGCTCCGGGACTACCAAGTGAATCCTTCCGCCCCCTACTACAT
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ACAGCACTTATGAGCCCGTGCTTATTGCCAGCCATCGGCCAGCCGAGCTCTCCATGCCAGGACCAGTTCT
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ACGGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217209 protein sequence
 Red=Cloning site Green=Tags(s)

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MLQLWKVVRPARQLELHRLILLIGFSLVSMGFLAYYVSTSPKAKEPLPLPLGDCSSSAGGPGPARPPV
PPRPQRPPEPTRTEPVVLVFVESAYSQLGQEIIVALESSFRYSTELAPGRGDMPTLTDHTHGRVLYIY
ENLLKYVNLDAWSRELLDRYCVYGVGIIGFFRAREHSLLSAQLKGFPLFLHNSLGLRDYQVNPSAPLLH
LTRPSRLEPGPLPGDDWTFQSNHSTYEPVLIASHRPAELSMGPGVLRARLPTVVQDLGLHDGIQRVLF
GHGLSFWLHKLVFVDAVAYLTGKRLCLDLDRYILVDIDDFVVGKEGTRMKVADVEALLTTQNKLRTLVFN
FTFNLGFSGKFYHTGTEEDAGDDMLLKHRREFWVWPHMWSHMQPHLFHNRSVLADQMRLNKQFALEHGI
PTDLGYAVAPHHSGVYPIHSQLYEAWKSVWGIQVTSTEEYPHLRPARYRRGF IHNGIMVLPRTQCGLFTH
TIFYNEYPGGSRELDRSIRGGELFTVLLNPISVFMTHLSNYGNDRLGLYTFESLVRFLQCWTRLRLQTL
PPVPLAQKYFELFPQERSPLWQNPCDDKRHKDIWSKEKTCDRLPKFLIVGPQKTGTTAIHFFLSLHPAVT
SSFPSPTFEEIQFFNGPNYHKIDWYMDFFPVPASNASTDFLFEKSATYDFSEVVPRRGAALLPRAKIIT
VLINPADRAYSWYQHQRAGDPIALNYTFYQVISASSQAPLLLRSLQNRCLVPGYYSTHLQRWLTYYPSG
QLLIMDGQELRVNPAASMEIIQKFLGITPFLNYTRTLRFDEDKGFWCQGLEGGKTRCLGRSKGRRYPDMD
MESRFLFLTDFFRNHNLKSKLLSRLGQPAPLWLREELQHSSVG
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

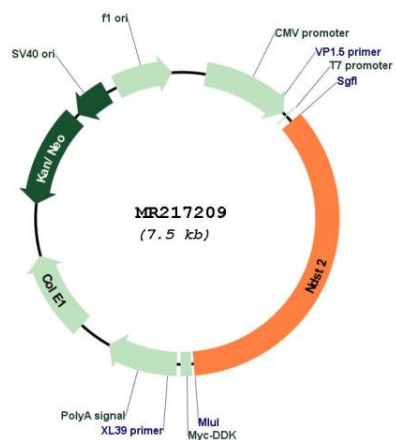
Sgfl-MluI

Cloning Scheme:



ACCN:	NM_010811
ORF Size:	2652 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:	NM_010811.2 , NP_034941.2
RefSeq Size:	3907 bp
RefSeq ORF:	2652 bp
Locus ID:	17423
UniProt ID:	P52850
Cytogenetics:	14 A3
MW:	101.2 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. Plays a role in determining the extent and pattern of sulfation of heparan sulfate. Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217209