

Product datasheet for **RR206342**

Ndst1 (NM_024361) Rat Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Ndst1 (NM_024361) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Ndst1 |
| Synonyms: | Hsst |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR206342 representing NM_024361
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGCCTGGCGTGCCTCCGGAGGCTGTGTGGCACCTGTCCCACAGGCTGTCTGTCTCTGTCTGT
 TTGTCTTCTGCCTGTTTCAGCGTGTGTGTCTCGGCCTACTACCTATATGGTTGGAACCGGGCCTCGAGCC
 CTGGCAGATGCTTCTGAGTCCGACTGCGGGGACCCACCCTGTGCCCCCTAGCCGTCTCTGCCAATC
 AAGCCTGTGCAGGCGGTGCCCCCTTCTCGAACAGACCCGCTGGTGTGGTATTTGTGGAGAGCCTTATT
 CACAGCTGGGCCAGGAGGTGGTGGCCATCTGGAATCCAGTTCGCTTCAAGTACCGAACAGAAATGCACC
 GGGGAAGGGGACATGCCACACTCACAGACAAGGGCCGAGGCCGCTTCGCCCTCATCATATGAGAAC
 ATCCTCAAGTATGTCAACCTGGATGCCTGGAACCGGGAGCTGCTGGACAAGTACTGTGTGGCCTACGGCG
 TGGGCATCATTGGCTTCTCAAGGCCAATGAGAACAGCCTGCTGAGTGCACAGCTCAAAGCTTCCCTCT
 TTTCTGCATTGAACTGGGCTTGAAGACTGCAGCATCAACCCCAAGTCCCCACTGCTGTACGTGACA
 CGCCCCAGTGAGGTAGAGAAAGGTGTGCTGCCCGAGAGGACTGGACGGTGTCCAGTCTAACCACTCTA
 CCTATGAGCCAGTGTGCTGGCCAAGACGCGCTCCTCTGAGTCCATCCCACACTGGGCGCAGATGCCGG
 CCTGCATGCTGCCCTGCACGCTACTGTGGTCCAGGACCTGGGCCTCCATGACGGCATTACAGCGTGTGCTG
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 AGCGCCTCTCACTGCCTTTGGACCGATACATCCTGGTGGACATTGATGACATTTTGTAGGCAAGGAGGG
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 AACTTCACCTTCAACCTGGGCTACTCAGGAAAATCTTCCACACAGGTACCGATGCTGAGGATGCTGGGG
 ACGACTGCTGCTGCTATGTGAAAGAGTTCTGGTGGTTCGCCACATGTGGAGCCATATGCAACCCCA
 CCTCTTCCACAACCAAGTCTGTGCTGGCTGAGCAGATGGCCCTGAACAAGAAGTTCGCTGTGAGCACGGC
 ATTCCACAGATATGGGGTATGCAGTGGCACCCACCCTCTGGTGTGTACCCTGTGCATGTGCAGCTGT
 ATGAGGCTGGAAGCAAGTGTGGAACATCCGTGTGACCAGCACAGAGGAGTACCCGCATCTGAAGCCTGC
 CCGTTACCGCGTGGCTTATCCACAATGGCATCATGGTCTCCTCGGCAGACCTGTGGTCTCTTTACA
 CACACCATCTTACAACGAGTACCCTGGAGGCTCCAGTGGCTGGACAAGATCATCAATGGGGGCGAGC
 TCTTTCTACTGTGCTCCTCAATCTATCAGCGTCTTCTGACACACTTATCCAATATGGAATGACCG
 CCTGGGACTGTACACCTCAAGCACCTGGTGGCTTCTGCACTCTGGACCAACCTGAGGCTGCAGACG
 CTGCCCTGTGCAGCTGGCCAGAAGTACTTCCAGATCTTTCTGAGGAGAAGGACCCACTTTGGCAGG
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 GCTCATATTGGCCCCAGAAAACAGGCACCACAGCCCTCTACCTGTTTCTGGGCATGCACCCCGACCTC
 AGCAGCAACTACCCAGCTCCGAGACCTTTGAGGAGATCCAGTTTTTAAATGGCCACAACATACAAAAG
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 TGCCAACACTTTGATTCAGAAGTGGCACACGGCGAGCAGCTGCCCTATTGCCAAGGCCAAGGTTCTC
 ACCATCCTCATCAATCCAGCCGACCGGGCTTACTCCTGGTACCAGCACCAGCGGGCCATGATGACCCGG
 TGGCCCTAAAGTACACCTTCCATGAGGTGATCACAGCTGGCCCTGACGCATCCTCAAAGCTGCGTGCCT
 CCAGAACCGATGCCTGGTCCCCGGCTGGTATGCCACTCATATTGAACGCTGGCTCAGCGCCTTTTCATGCC
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 ATAAGTGGGCCAGACACTGCCACCTGGCTGCGGAAGACCTCCAGAACCAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR206342 representing NM_024361
Red=Cloning site Green=Tags(s)

MPALACLRRLLCRHLSQAVLFLFLVFCLFSVSVSAYLLYGWNRGLEPSADASESDCGDPPPVPASRLLPI
 KPVOAVAPSRTDPLVLFVESLSQLGQEVVAILESSRFKYRTEIAPGKGDMPRTLTDKGRGRFALIIYEN
 ILKYVNLDAWNRELLDKYCVAYGVGIIIGFFKANENSLLSAQLKGFPLFLHNSLGLKDCSINPKSPLLYVT
 RPSEVEKGVLPGEDWTVFQSNHSTYEPVLLAKTRSSSEIPHLGADAGLHAALHATVVQDLGLHDGIQRVL
 FGNNLNFWLHKLVFDAVAFLTGKRLSLPLDRYILVDIDDFVVGKEGTRMKVEDVKALFDTQNELRTHIP
 NFTFNLYSGKFFHTGTAEDAGDLLLLSYVKEFWFPHMWSHMOPHLFHNQSVLAEQMALNKKFAVEHG
 IPTDMGYAVAPHHSGVYPVHVQLYEAWKQVWNIIRVTSTEEYPHLKPARYRRGFHNGIMVLPQTCGLFT
 HTIFYNEYPGGSSELDKIINGGELFLTVLLNPISVFMTHLSNYGNDRLGLYTFKHLVRFHLSWTNLRQT
 LPPVQLAQKYFQIFSEEKPLWQDPCEDKRHKDIWSKEKTCDRFPKLLIIGPQKTGTALYLFLGMHPDL
 SSNYPSETFEEIQFFNGHNYHKIDWYMEFFPIPSNTTSDFYFEKSANYFDSEVAPRRAAALLPKAKVL
 TILINPADRAYSWYQHQRADDPVALKYTFHEVITAGPDASSKLRALQNRCLVPGWYATHIERWLSAFHA
 NQILVLDGKLLRTEPAKVMDTVQKFLGVTSTVDYHKTLAFDPKKGFWCQLLEGGKTKCLGKSKGRKYP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

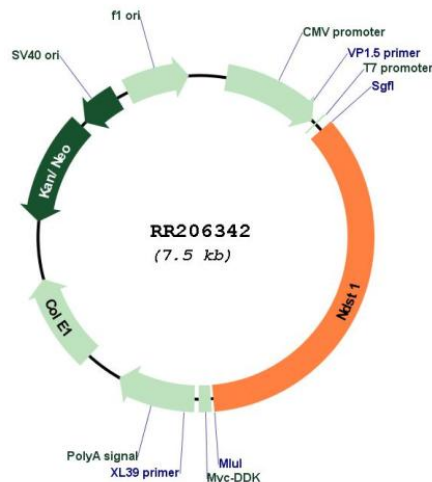
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024361

ORF Size: 2646 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_024361.1](#), [NP_077337.1](#)

RefSeq Size: 4051 bp

RefSeq ORF: 2649 bp

Locus ID: 29633

UniProt ID: [Q02353](#)

Cytogenetics: 18q12.1

MW: 100.8 kDa

Gene Summary: enzyme that catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to the nitrogen of glucosamine in heparan sulfate [RGD, Feb 2006]