

Product datasheet for **RC207792**

NDST2 (NM_003635) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDST2 (NM_003635) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDST2
Synonyms:	HSST2; N-HSST 2; NST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207792 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCAGTTGTGGAAGTGGTACGCCAGCTCGGCAGCTGGAAGTGCACCCGCTCATACTGCTGCTGA
 TCGCTTTCAGCCTGGGCTCCATGGGCTTCTGGCTTATTATGTGTCCACCAGCCCTAAGGCCAAGGAACC
 CTTGCCCTGCCCTTGGGAGACTGCAGCAGCGGTGGGGCAGCTGGTCTGGCCCTGCACGGCCTCCAGTT
 CCACCTCGGCCCCAGGCCTCCAGAGACAGCTCGAACTGAACCCGTGGTCTTGTGTTGTGGAGAGTG
 CATACTCACAGCTGGGGCAGGAAATTGTGGCCATCCTGGAGTCTAGTCGTTTTCTGTATAGCACTGAGTT
 GGCACCTGGCCGAGGGGACATGCCACATTGACTGATAATACCCATGGCCGCTATGTCTTGGTCATTTAT
 GAGAACCTGCTCAAGTATGTCAACCTGGATGCCTGGAGTCGGAACTGCTAGACCCGCTACTGCGTGGAGT
 ATGGTGTGGGCATCATTGGCTTTTTCCGAGCCCACGAGCACAGCCTACTGAGCGCCAGCTCAAGGGCTT
 TCCCTTTTTTTACACTCAAACCTGGGGCTCCGGGACTACCAAGTGAATCCTTCTGCCCCGCTACTGCAT
 CTCACACGCCCCAGCCGCTAGAACCCAGGGCCACTGCCTGGTGTGACTGGACCATCTTCCAATCCAATC
 ATAGTACATATGAACCAGTGCTTCTTGCCAGCCTTCGGCCAGCTGAGCCCGCAGTGCCAGGACCAGTTCT
 TCGTCGGGCCCGCTTCCCACTGTGGTACAGGACTGGGGCTTATGATGGCATCCAGCGGGTGCTCTTT
 GGACATGGCCTTCTTCTGGCTCCACAACTTATCTTCTGTTGATGCTGTTGCATACCTCACTGGCAAGC
 GCCTCTGCCTGGACCTTGACCGCTACATCTTGGTAGACATCGATGACATCTTTGTGGCAAGGAAGGGAC
 CCGCATGAAGGTGGCTGATGTTGAGGCTCTGTTGACCACCCAGAACAACCTCAGGACCTTAGTCCCAAC
 TTCACCTTCAACTGGGCTTCTCGGGCAAGTCTATCATACTGGGACAGAGGAGGAGGATGCAGGGGACG
 ACATGCTGCTGAAGCACCCGAAAGAGTTCTGGTGGTTCACACATGTGGAGCCACATGCAGCCACACT
 GTTCCACAATCGCTCCGTGCTGGCTGACCAGATGAGGCTCAACAACAGTTTGCTCTGGAGCATGGGATT
 CCCACGGACCTGGGGTATGCTGTGGCCCCCACCCTCGGGTGTGTACCCCATCCACACGCACTCTATG
 AGGCTGGAAATCCGTGTGGGCATCCAGGTGACCAGCACTGAGGAGTATCCCATCTCCGCCCTGCCCG
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 ACAATCTTCTATAATGAGTATCCTGGAGGCTCTCGTGAAGTACAGCCGAGCATCCGAGGTGGAGAGCTCT
 TTCTGACAGTGTGCTTAATCCGATCAGCATCTTATGACCCATCTGTCCAATTATGAAATGACCCGGCT
 GGGCTATACACCTTTGAGAGCTTGGTGCCTTCTCCAGTGTGGACACGGCTGCGCTACAGACCCTT
 CCTCTGTCCCCTTGCACAGAAGTACTTTGAACTTTTCCCTCAGGAGCGAAGCCCCCTTTGGCAGAATC
 CCTGTGATGACAAGAGGCACAAAGATATCTGGTCCAAGGAGAAAACCTGTGATCGTCTCCCGAAGTTCCT
 CATTGTGGGACCCAGAAAACAGGGACTACAGCTATTCACCTTCTTCTGAGCCTGCACCCAGCTGTAAC
 AGCAGCTTCCCTAGCCCCAGCACATTTGAGGAGATTGAGTTCTTCAACAGCCCTAATTACCACAAGGGTA
 TTGACTGGTACATGGATTTCTTCCCTGTTCCTTCCAATGCCAGCACTGATTTCTATTTGAAAAAAGTGC
 CACCTACTTTGACTCTGAAGTTGTACCACGGCGGGGGGCTGCCCTCCTGCCACGAGCCAAGATCATCACA
 GTGCTACCAACCCTGCTGACAGGGCTACTCCTGGTACCAGCATCAGCGAGCCCATGGAGACCCAGTTG
 CTCTGAACTATACCTTCTATCAGGTGATTTGAGCCTCCTCCAGACCCCTCTGGCACTACGCTCCCTGCA
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 CAGTTGCTGATTGTGGATGGGCAAGAGCTGCGTACCAACCCAGCAGCCTCAATGGAGAGCATCCAGAAGT
 TCTGGGTATCACACCCTTCTGAACTACACACGGACCCTCAGGTTTGTGATGATAAGGGATTTTGGTG
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 GGCTTGGACAGCCAGTGCCTCTGGCTTCGGGAAGAACTGCAGCATTCCAGTCTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207792 protein sequence
 Red=Cloning site Green=Tags(s)

MLQLWKVVRPARQLELHRLILLIAFSLGSMGFLAYVSTSPKAKEPLPLPLGDCSSGGAAGPGPARPPV
 PPRPPRPETARTEPVVLVVFESAYSQLGQEIVAILESSRFRYSTELAPGRGDMPTLTDNTHGRYLVIIY
 ENLLKYVNLDAWSRELLDRYCVYGVGIIGFFRAHEHSLLSAQLKGFPLFLHNSLGLRDYQVNSAPLLH
 LTRPSRLEPGPLPGDDWTFIQSNHSTYEPVLLASLRPAEPAVPGPVLRRARLPTVVQDLGLHDGIQRVLF
 GHGLSFWLHKLIFVDAVAYLTGKRLCLDLDRYILVDIDDIFVKGEGTRMKVADVEALLTTQNKLRTLVFN
 FTFNLGFSGKFYHTGTEEDAGDDMLLKHKRFWFWPHMWSHMQPHLFHNRSVLADQMRLNKQFALEHGI
 PTDLGYAVAPHHSGVYPIHTQLYEAWKSVWGIQVTSTEEYPHLRPARYRRGF IHNGIMVLPRQTCGLFTH
 TIFYNEYPGGSRELDRSIRGGELFLTVLLNPISIFMTHLSNYGNDRLGLYTFESLVRFLQCWTRLRLQTL
 PPVPLAQKYFELFPQERSPLWQNPCDDKRHKDIWSKEKTCDRLPKFLIVGPQKTGTTAIHFFLSLHPAVT
 SSFPSPSTFEEIQFFNSPNYHKIDWYMDFFPVPASNASTDFLFEKSATYDFSEVVPRRGAALLPRAKIIIT
 VLTNPADRAYSWYQHQRAGDPVALNYTFYQVISASSQTPLALRSLQNRCLVPGYYSTHLQRWLTYYPSG
 QLLIVDQELRTNPAASMESIQKFLGITPFLNYTRTLRFDDDKGFWCQGLEGGKTRCLGRSKGRRYPDMD
 TESRFLFLTDFFRNHNLELSKLLSRLGQPVPSWLREELQHSSLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

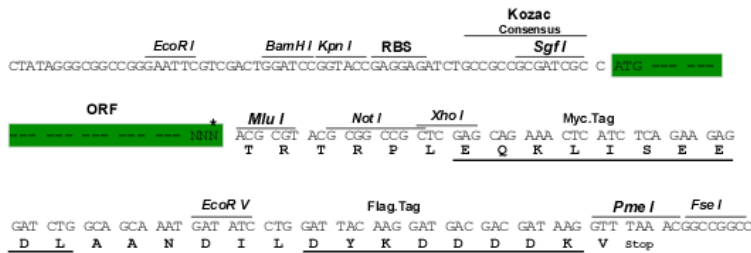
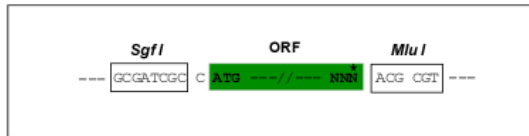
https://cdn.origene.com/chromatograms/mk6859_e09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

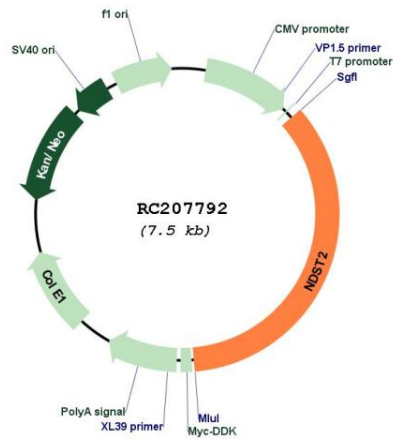
Cloning sites used for ORF Shuttling:



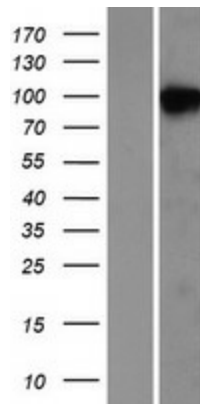
* The last codon before the Stop codon of the ORF

ACCN:	NM_003635
ORF Size:	2649 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_003635.4
RefSeq Size:	4006 bp
RefSeq ORF:	2652 bp
Locus ID:	8509
UniProt ID:	P52849
Cytogenetics:	10q22.2
Domains:	Sulfotransfer
Protein Families:	Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
MW:	100.9 kDa
Gene Summary:	This gene encodes a member of the N-deacetylase/N-sulfotransferase subfamily of the sulfotransferase 1 proteins. The encoded enzyme has dual functions in processing glucosamine and heparin polymers, including N-deacetylation and N-sulfation. The encoded protein may be localized to the Golgi. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RC207792



Western blot validation of overexpression lysate (Cat# [LY418535]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207792 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).