

Product datasheet for **RG239641**

NDST1 (NM_001301063) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDST1 (NM_001301063) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDST1
Synonyms:	HSST; MRT46; NST1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239641 representing NM_001301063.
 Blue=ORF Red=Cloning site Green=Tag(s)

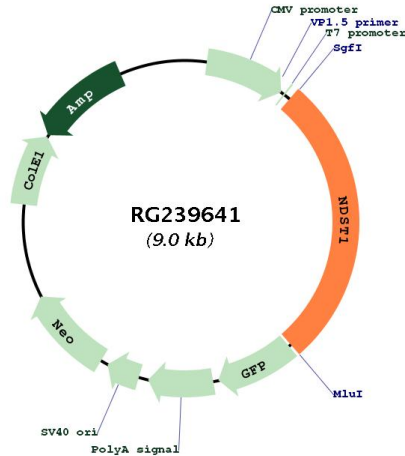
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence: >Peptide sequence encoded by RG239641
Blue=ORF Red=Cloning site Green=Tag(s)

MPALACLRRLLCRHVSPQAVLFLLFIFCLFSVVISAYLYGWKRGLEPSADAEPEPCDGDPPPVPASRLLP
LKPVQAATPSRTDPLVLFVESLYSQLGQEVVAILESSRFKYRTEIAPGKGDMPTLTDKGRGRFALIIY
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FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN:	NM_001301063
ORF Size:	2475 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).
RefSeq:	NM_001301063.2
RefSeq Size:	7970 bp
RefSeq ORF:	2478 bp
Locus ID:	3340
UniProt ID:	P52848
Cytogenetics:	5q33.1
Protein Families:	Transmembrane
Protein Pathways:	Heparan sulfate biosynthesis, Metabolic pathways
MW:	94.8 kDa

Gene Summary:

This gene encodes a member of the heparan sulfate/heparin GlcNAc N-deacetylase/ N-sulfotransferase family. The encoded enzyme is a type II transmembrane protein that resides in the Golgi apparatus. The encoded protein catalyzes the transfer of sulfate from 3'-phosphoadenosine 5'-phosphosulfate to nitrogen of glucosamine in heparan sulfate. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]