

## Product datasheet for **RG217551**

### **NDST3 (NM\_004784) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NDST3 (NM_004784) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NDST3
Synonyms:	HSST3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG217551 representing NM\_004784  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTTTTATCATGAAGCTTCACAGACTTTCAAAGAACAGTCATTCTGCTTGCCACTTTTTGTATGG  
 TGAGCATTATCATTCTGCTTACTACCTGTACAGTGGCTACAAACAGGAAAATGAACTCTCTGAGACGGC  
 TTCAGAAGTTGACTGTGGCGACCTCCAACACCTACCATATCAACTAATGGAAGTGAAGCAATGAAGCTT  
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 CCCAGTGTATAGACAAAATGAAAGGCAAATACATTCTCATTATTTATGAGAATATTTAAAGTATATA  
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 GGCTGAGACAGGAGCTGCAGAAAGTAAGA

**ACGGTACGGCGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG217551 representing NM\_004784  
Red=Cloning site Green=Tags(s)

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MSFIMKLHRHFQRTVILLATFCMVSIIISAYLLYSGYKQENELSETASEVDCGDLQHLPHYQLMEVKAMKL
FDASRTDPTVLVFVESQYSSLGQDIIMILESSRFQYHIEIAPGKGDLPVLIDKMKGKYILIIYENILKYI
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EKGSLPGTDWTVFQINHSAYQPVIFAKVKTPENLSPSISKAFYATIIHDLGLHDGIQRVLFGNNLNFWL
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QLRTDPATVMDEVQKFLGVLPHYNYSEALTFDSHKGFWCQLLEEGKTKCLGKSKGRKYPPMDSDSRTFLS
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TRTRPLE - GFP Tag - V

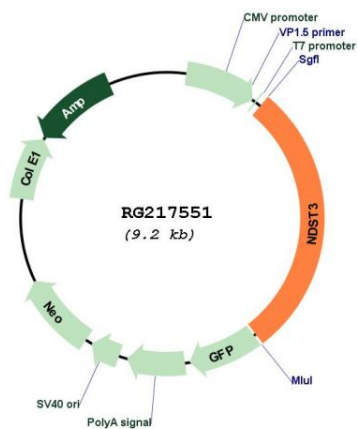
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_004784
<b>ORF Size:</b>	2619 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004784.1</a> , <a href="#">NP_004775.1</a>
<b>RefSeq Size:</b>	3188 bp
<b>RefSeq ORF:</b>	2622 bp
<b>Locus ID:</b>	9348
<b>UniProt ID:</b>	<a href="#">O95803</a>
<b>Cytogenetics:</b>	4q26
<b>Domains:</b>	Sulfotransfer
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Heparan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	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. This monomeric bifunctional enzyme catalyzes the N-deacetylation and N-sulfation of N-acetylglucosamine residues in heparan sulfate and heparin, which are the initial chemical modifications required for the biosynthesis of the functional oligosaccharide sequences that define the specific ligand binding activities of heparan sulfate and heparin. [provided by RefSeq, Nov 2008]

Product images:



Circular map for RG217551