

## Product datasheet for **MR226583L4V**

### **Ndst1 (NM\_008306) Mouse Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	Ndst1 (NM_008306) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Ndst1
Synonyms:	1200015G06Rik; b2b2230Clo; Hsst; NDST-1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_008306
ORF Size:	2646 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR226583).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_008306.4</a>
RefSeq Size:	6088 bp
RefSeq ORF:	2649 bp
Locus ID:	15531
UniProt ID:	<a href="#">Q3UHN9</a>
Cytogenetics:	18 E1



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**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. Compared to other NDST enzymes, its presence is absolutely required. Participates in biosynthesis of heparan sulfate that can ultimately serve as L-selectin ligands, thereby playing a role in inflammatory response. Required for the exosomal release of SDCBP, CD63 and syndecan (By similarity).  
[UniProtKB/Swiss-Prot Function]