

## Product datasheet for **TL509817V**

### Ndst1 Mouse shRNA Lentiviral Particle (Locus ID 15531)

#### Product data:

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type: | shRNA Lentiviral Particles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product Name: | Ndst1 Mouse shRNA Lentiviral Particle (Locus ID 15531)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Locus ID:     | 15531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Synonyms:     | 1200015G06Rik; b2b2230Clo; Hsst; NDST-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Vector:       | pGFP-C-shLenti (TR30023)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Format:       | Lentiviral particles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Components:   | Ndst1 - Mouse shRNA lentiviral particles (4 unique 29mer target-specific shRNA, 1 scramble control), 0.5 ml each, >10 <sup>7</sup> TU/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RefSeq:       | <a href="#">BC066098</a> , <a href="#">BC079561</a> , <a href="#">NM_008306</a> , <a href="#">NM_001348100</a> , <a href="#">NM_001348101</a> , <a href="#">NM_001348102</a> , <a href="#">NM_001348103</a> , <a href="#">NM_001348146</a> , <a href="#">NM_008306.1</a> , <a href="#">NM_008306.2</a> , <a href="#">NM_008306.3</a> , <a href="#">NM_008306.4</a> , <a href="#">NM_008306.5</a> , <a href="#">BC009663</a> , <a href="#">BC037482</a>                                                                                                                                                                                                                                                                                                             |
| UniProt ID:   | <a href="#">Q3UHN9</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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).<br>[UniProtKB/Swiss-Prot Function] |
| shRNA Design: | These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact <a href="mailto:techsupport@origene.com">techsupport@origene.com</a> . If you need a special design or shRNA sequence, please utilize our <a href="#">custom shRNA service</a> .                                                                                                                                                                                                                                                                                                                                                                                                                 |

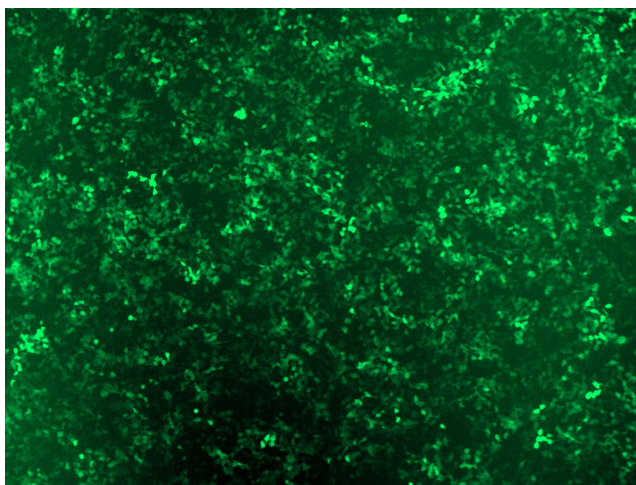


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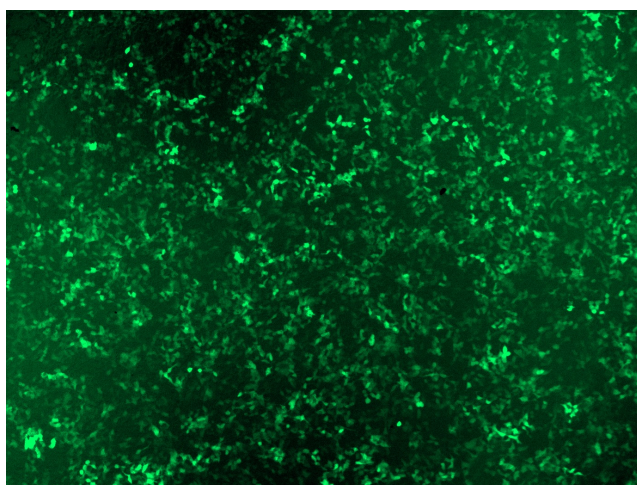
**Performance  
Guaranteed:**

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

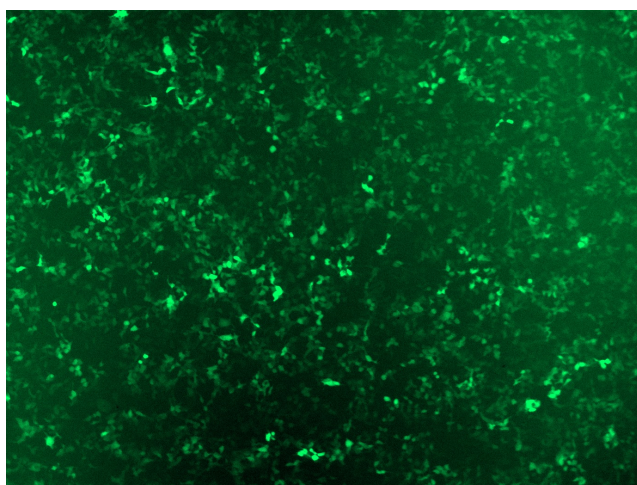
For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at [techsupport@origene.com](mailto:techsupport@origene.com). Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).

**Product images:**

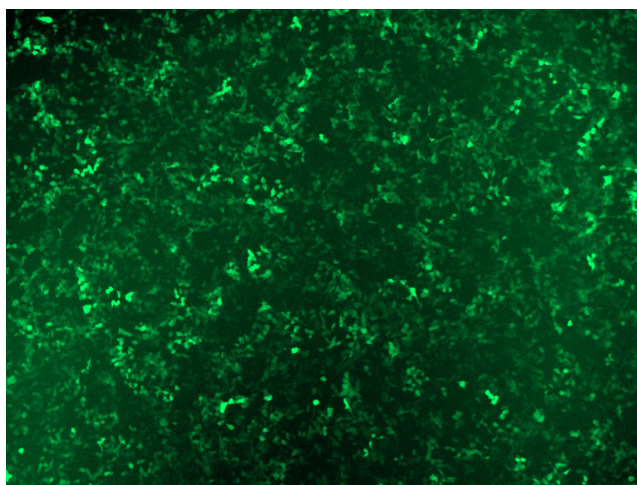
GFP signal was observed under microscope at 48 hours after transduction of TL509817A virus into HEK293 cells. TL509817A virus was prepared using lenti-shRNA TL509817A and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of TL509817B virus into HEK293 cells. TL509817B virus was prepared using lenti-shRNA TL509817B and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL509817C] virus into HEK293 cells. [TL509817C] virus was prepared using lenti-shRNA [TL509817C] and [TR30037] packaging kit.



GFP signal was observed under microscope at 48 hours after transduction of [TL509817D] virus into HEK293 cells. [TL509817D] virus was prepared using lenti-shRNA [TL509817D] and [TR30037] packaging kit.