

Product datasheet for **MR205855L3V**

Chst14 (NM_028117) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

| | |
|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | Chst14 (NM_028117) Mouse Tagged ORF Clone Lentiviral Particle |
| Symbol: | Chst14 |
| Synonyms: | 2600016L03Rik; D4ST-1; D4st1 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| Tag: | Myc-DDK |
| ACCN: | NM_028117 |
| ORF Size: | 1131 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR205855). |
| 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. |
| RefSeq: | NM_028117.2 , NP_082393.3 |
| RefSeq Size: | 2089 bp |
| RefSeq ORF: | 1131 bp |
| Locus ID: | 72136 |
| UniProt ID: | Q80V53 |
| Cytogenetics: | 2 E5 |



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Gene Summary:

Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of dermatan sulfate. Plays a pivotal role in the formation of 4-O-sulfated IdoA blocks in dermatan sulfate. Transfers sulfate to the C-4 hydroxyl of beta1,4-linked GalNAc that is substituted with an alpha-linked iduronic acid (IdoUA) at the C-3 hydroxyl. Transfers sulfate more efficiently to GalNAc residues in -IdoUA-GalNAc-IdoUA- than in -GlcUA-GalNAc-GlcUA- sequences. Has preference for partially desulfated dermatan sulfate. Addition of sulfate to GalNAc may occur immediately after epimerization of GlcUA to IdoUA. Appears to have an important role in the formation of the cerebellar neural network during postnatal brain development.[UniProtKB/Swiss-Prot Function]