

Product datasheet for **MR206058L4V**

Chst4 (NM_011998) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Chst4 (NM_011998) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Chst4
Synonyms:	Gn6st-2; GST-3; HEC-GlcNAc6ST
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_011998
ORF Size:	1167 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR206058).
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_011998.3 , NP_036128.2
RefSeq Size:	2000 bp
RefSeq ORF:	1167 bp
Locus ID:	26887
UniProt ID:	Q9R111
Cytogenetics:	8 D3



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Gene Summary:

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues within mucin-associated glycans that ultimately serve as SELL ligands. SELL ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Participates in biosynthesis of SELL ligand sialyl 6-sulfo Lewis X on SELL counter-receptors SPN/CD43, GLYCAM1 and MADCAM1. Also involved in biosynthesis of SELL ligand recognized by MECA-79 antibody. Plays a central role in lymphocyte trafficking during chronic inflammation. Has a catalytic preference for core 2-branched mucin-type O-glycans. Can use GlcNAc β 1-6[Gal β 1-3]GalNAc-pNP (core 2), GlcNAc β 1-6ManOMe and GlcNAc β 1-2Man oligosaccharide structures as acceptors. Has also activity toward core 3 of GlcNAc β 1-3GalNAc-pNP. Its substrate specificity may be influenced by its subcellular location.[UniProtKB/Swiss-Prot Function]