

## Product datasheet for **MR206735**

### Gal3st1 (NM\_001177703) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gal3st1 (NM_001177703) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gal3st1
Synonyms:	Cst; Gcst
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR206735 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGACTCTGCTGCCAAGAAGCCCTGCAAGTCCAAGGCCAAGGGTTACTGCTGGGAGCTCTCTTACCA  
GTTTCCTATTGCTGCTGTACTCCTATGTGGTACCTCCACTGTATCCCAACATGGCCTTCACGACCTCAGA  
GGCTGCAGCACCTGCTCCCCTATTCCCAATGAGCCAGTGGCAGCCACTCCCGCCAACGGCTCAGCAGGA  
GGGTGTCAACCTCGGCGAGATATTGTGTTTATGAAGACGACAGACCGCCAGCAGCAGCACTGCTCAACA  
TCCTGTTCCGCTTCGGCCAGAAGCAGAGCTCAAGTTCGCTTTCCCAATGGCCGAAACGACTTCCACTA  
CCCGTCTACTTTGCACGAAGCCTGGTGCAGGACTACCGCCTGGGGCGTCTTCAACATCATCTGCAAC  
CACATGCGCTTCCACTATGAGGAAGTGCAGGGCTGGTGCAGCCGGTGCACCTTCATCACCCTATCC  
GCGACCCTGCTCGTCTTTCGAGTCTTCCCTTCCACTACTTTGGATCCGTGGTCCCGCTCACCTGGAAGCT  
GTCGAGCCGCGACAAGCTGGCCGAGTTCCTGCAGGACCCGATCGCTACTACGACCCGAGCAGCTACAAC  
GGCAGTACCTCCGCAACCTGCTCTTTCGATCTGGGCTATGATAGTAGCTGGACCCGGCCAGCCCGC  
CGGTGCAGGAGCACATCCTGGAGGTGGAGCGCCGCTTCCACTTGGTGTCTACTGCAGGAGTACTTCGACGA  
ATCCCTGGTGTCTCCGAGAGCTGCTGTGCTGGGACCTGGAGGAGCTGTGATTTCAAGCTCAATGCG  
CGGCGGACTCGCCGGTTCGCGGCTCTCTGGCAGCTGTACCGCCGAGCCACCGCTGGAACCTGCTGG  
ACGTGCGCCTCTACCGTCACTTCAACGCCAGCTTCTGGCGAAAGGTGGAAGCTTTCGGGCGTGAGCGCAT  
GGCGCGGAGGTAGCCGAGCTGCGCCAAGCGAACGAGCAGCATGCGCCACATCTGCATAGATGGCGGCCAA  
GCAGTTGGTGTGAGGCCATCCAGGACTCGGCCATGCAGCCCTGGCAACCCCTGGGCATCAAGTCCATCC  
TGGGTTACAACCTCAAGAAGAGCATCGGGCCACAACACGAGCAGCTCTGCCGGCGCATGCTCAGCCCCGA  
AATCCAGTACCTGTGACCTCGGTGCCAATCTCTGGTCAACAGCTCTGGAAGTTCCTTAGGGACTTT  
CTAAGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>MR206735 protein sequence  
Red=Cloning site Green=Tags(s)

MTLLPKKPKSKAKGLLLGALFTSFLLLLYSYVPPLYPNMAFTTSEAAAPCSPIPNEPVAATPANGSAG  
GCQPRRDIVFMKTHKTASSTLLNILFRFGQKHELKFAFPNGRDNDFHYPYSYFARSLVQDYRPGACFNIICN  
HMRFHYYEVRGLVRPGATFITVIRDPARLFESSFHYFGSVVPLTWKLSRDKLAFLQDPDRYYDPSSYN  
AHYLRNLLFFDLGYDSSLDPASPRVQEHILEVERRFHLVLLQEYFDESLVLLRELLCWDLEDVL YFKLNA  
RRDSPVPRLSGELYRRATAWNLLDVRLYRHFNASFWRKVEAFGRERMAREVAELRQANEHMRHICIDGGQ  
AVGAEAIQDSAMQPWQPLGIKSILGYNLKKSIGPQHEQLCRRMLTPEIQYLSDLGANLWVTKLWKFLRDF  
LRW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

## Restriction Sites:

SgfI-MluI

**Cloning Scheme:**

**ACCN:** NM\_001177703

**ORF Size:** 1272 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

**Components:** 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).

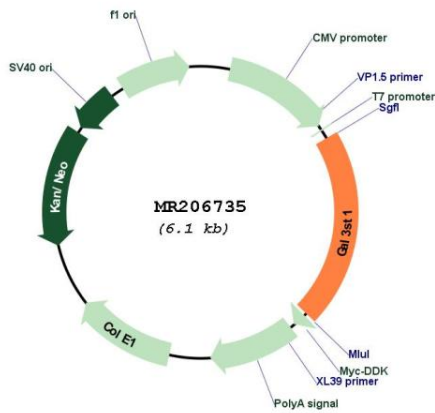
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
  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.

**RefSeq:** [NM\\_001177703.1](#), [NP\\_001171174.1](#)

RefSeq Size: 1751 bp  
 RefSeq ORF: 1272 bp  
 Locus ID: 53897  
 UniProt ID: [Q9JHE4](#)  
 Cytogenetics: 11 A1  
 MW: 49 kDa

**Gene Summary:** Catalyzes the sulfation of membrane glycolipids. Seems to prefer beta-glycosides at the non-reducing termini of sugar chains attached to a lipid moiety. Catalyzes the synthesis of HSO3-3-galactosylceramide (sulfatide), a major lipid component of the myelin sheath and of HSO3-3-monogalactosylalkylacylglycerol (seminolipid), present in spermatocytes. Also acts on lactosylceramide, galactosyl 1-alkyl-2-sn-glycerol and galactosyl diacylglycerol (in vitro). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206735