

Product datasheet for **MC204018**

Gal3st1 (NM_016922) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gal3st1 (NM_016922) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gal3st1
Synonyms:	Cst; Gcst
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC026806
 GGCATGGACCAGGCTGCCAGCGCGCGGGTCCC GGCGAGT GCGCCCCGCCGCCAGTGAGCGCCACGGC
 GGCGGGCGGGGCGGGGGCCGACCCTGCCACCCGGAGCCCAAGGAGAACAGGGCAAAGTGCCTCTCACTG
 GGCTCCAAGGAAGAACAAACAAGCACTTGCAGGAAAGCAGTGACTCACAGGACAATGGCAATGGGGGACT
 CTAGGCCCCCTCAGTGGCTTGGGGCAAGCTTCTTGCTTTGGTTGACTCCATGAAATGTGAATGACTAGA
 GAAGACACAGCGGGATGGAGCAGAAGTACCCCAAAGGTTACCAGACTGGAGACCTGGAGTCATCAGGGGT
 TTCCTGAGATGACTCTGCTGCCAAGAAGCCCTGCAAGTCCAAGGCCAAGGGGTTACTGCTGGGAGCTCT
 CTTCAACAGTTTTCTATTGCTGCTGTACTCCTATGTGGTACCTCCACTGTATCCCAACATGGCCTTCAGG
 ACCTCAGAGGCTGCAGCACCCCTGCTCCCTATTCCCAATGAGCCAGTGGCAGCCACTCCCGCCAACGGCT
 CAGCAGGAGGGTGTCAACCTCGGCGAGATATTGTGTTTCAAGAGCAGCACAAGACCGCCAGCAGCACACT
 GCTCAACATCCTGTTCCGCTTCGGCCAGAAGCAGGACTCAAGTTCGCTTTCCCAATGGCCGAAACGAC
 TTCCACTACCCGTCGACTTTGCACGAAGCCTGGTGCAGGACTACCGCCTGGGGCGTGTTC AACATCA
 TCTGCAACCACATGCGCTTCCACTATGAGGAAGTGCAGGGGCTGGTGCAGGGGCTGCCACCTTCATCAC
 CGTCATCCGCGACCTGCTCGTCTTTGAGTCTTCTTCCACTACTTTGGATCCGTGGTGGCGCTCACC
 TGAAGCTGTCGAGCCGCGACAAGTGGCCGAGTTCCTGCAGGACCCCGATCGCTACTACGACCCGAGCA
 GCTACAACGCGCACTACCTCCGCAACCTGCTCTTCTTCGATCTGGGCTATGATAGTAGCCTGGACCCGGC
 CAGCCCCGCGCTGCAGGAGCACATCCTGGAGGTGGAGCGCCGCTTCCACTTGGTGTACTGCAGGAGTAC
 TTCAGCAATCCCTGGTGTGCTCCGAGAGTGTGTGCTGGGACCTGGAGGACGTGCTGTATTTCAAGC
 TCAATGCGCGGCGGACTCGCCGGTTCGCGGCTCTTGCGGAGCTGTACCGCCGAGCCACCGCCTGGAA
 CCTGCTGGACGTGCGCCTCTACCGTCACTTCAACGCCAGCTTCTGGCGAAAGGTGGAAGCTTTGGGGCT
 GAGCGCATGGCGCGGAGGTAGCCGAGCTGCGCCAAGCGAACGAGCACATGCGCCACATCTGCATAGATG
 GCGGCCAAGCAGTTGGTGTGAGGCCATCCAGGACTCGGCCATGCAGCCCTGGCAACCCCTGGGCATCAA
 GTCCACTTGGGTTACAACCTCAAGAAGAGCATCGGGCCACAACACGAGCAGCTCTGCCGCGCATGCTC
 ACGCCCCGAAATCCAGTACCTGTCTGACCTCGGTGCAATCTCTGGGTACCAAGCTCTGGAAGTTCTTA
 GGGACTTTCTAAGTGGTGTATCTGCTCCACCTCCTGTTTGGCTTCTGATGCAGCAAGGCCGGGCA
 GGGAGCCTCTGGCACCTAGCCTTCCCTAGCCACACCTAGTCCACCCTGGGGTCCCTAGGGTCATAGCTG
 TCTGGGACTAGTCTCTCTGCAGGAGAGAGCCTAACGGAGAGGTATTTAACTAATTATGCCATTTTTTTTT
 TATTAATCCCCTTTATTTCCAGCTCCTTTACAAGGGGAGACGCAGAAGTAAAGAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_016922

Insert 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 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](#)

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: [BC026806](#), [AAH26806](#)

RefSeq Size: 1918 bp

RefSeq ORF: 1272 bp

Locus ID: 53897

UniProt ID: [Q9JHE4](#)

Cytogenetics: 11 A1

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]

Transcript Variant: This variant (1, also known as form A) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. An in-frame AUG is located 29 codons upstream of the annotated translation start site but is not being annotated as a start site since it would be inhibited by an overlapping uORF with a strong Kozak sequence. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.