

Product datasheet for **MR221896**

Gal3st1 (NM_001177691) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gal3st1 (NM_001177691) 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:

>MR221896 representing NM_001177691
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTCTGCTGCCAAAGAAGCCCTGCAAGTCCAAGGCCAAGGGTTACTGCTGGGAGCTCTCTTACCA
 GTTTCCTATTGCTGCTGTACTCCTATGTGGTACCTCCACTGTATCCCAACATGGCCTTCACGACCTCAGA
 GGCTGCAGCACCTGCTCCCCTATTCCCAATGAGCCAGTGGCAGCCACTCCCGCCAACGGCTCAGCAGGA
 GGGTGTCAACCTCGGCGAGATATTGTGTTTATGAAGCGCACAAAGACCGCCAGCAGCACACTGCTCAACA
 TCCTGTTCCGCTTCGGCCAGAAGCAGAGCTCAAGTTCGCTTTCCCAATGGCCGAAACGACTTCCACTA
 CCCGTCGACTTTGCACGAAGCCTGGTGCAGGACTACCGCCTGGGGCGTCTTCAACATCATCTGCAAC
 CACATGCGCTTCCACTATGAGGAAGTGCAGCGGCTGGTGCAGCGGGTCCACCTTCATCACCGTATCC
 GCGACCCTGCTCGTCTTTCGAGTCTTCCCTTCCACTACTTTGGATCCGTTGGCCGCTCACCTGGAAGCT
 GTCGAGCCGCGACAAGCTGGCCGAGTTCCTGCAGGACCCGATCGCTACTACGACCCGAGCAGCTACAAC
 GCGCACTACCTCCGAACCTGCTCTTTCGATCTGGGCTATGATAGTAGCTGGACCCGGCCAGCCCGC
 CGGTGCAGGAGCACATCCTGGAGGTGGAGCGCCGCTTCCACTTGGTGTACTGCAGGAGTACTTCGACGA
 ATCCCTGGTGTCTCCGAGAGCTGCTGTGCTGGGACCTGGAGGACGTGCTGATTTCAAGCTCAATGCG
 CGGCGGACTCGCCGGTTCGCGGCTCTCTGGCAGCTGTACCGCCGAGCCACCGCTGGAACCTGCTGG
 ACGTGCGCCTCTACCGTCACTTCAACGCCAGCTTCTGGCGAAAGGTGGAAGCTTTCGGGCGTGAGCGCAT
 GCGCGCGAGGTAGCCGAGCTGCGCCAAGCGAACGAGCACATGCGCCACATCTGCATAGATGGCGGCCAA
 GCAGTTGGTGTGAGGCCATCCAGGACTCGGCCATGCAGCCCTGGCAACCCCTGGGCATCAAGTCCATCC
 TGGGTTACAACCTCAAGAAGAGCATCGGGCCACAACACGAGCAGCTCTGCCGGCGCATGCTCACGCCGA
 AATCCAGTACCTGTGACCTCGGTGCCAATCTCTGGTCAACAAGCTCTGGAAGTTCCTTAGGGACTTT
 CTAAGGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221896 representing NM_001177691
 Red=Cloning site Green=Tags(s)

MTLLPKKPKSKAKGLLLGALFTSFLLLLYSYVPPLYPNMAFTTSEAAAPCSPIPNEPVAATPANGSAG
 GCQPRRDIVFMKTHKTASSTLLNILFRFGQKHELKFAFPNGRDNDFHYPYSYFARSLVQDYRPGACFNIICN
 HMRFHYYEVRGLVRPGATFITVIRDPARLFESSFHYFGSVVPLTWKLSRDKLAFLQDPDRYYDPSSYN
 AHYLRNLLFFDLGYDSSLDPASPRVQEHILEVERRFHLVLLQEYFDESLVLLRELLCWDLEDVL YFKLNA
 RRDSPVPRLSGELYRRATAWNLLDVRLYRHFNASFWRKVEAFGRERMAREVAELRQANEHRHICIDGGQ
 AVGAEAIQDSAMQPWQPLGIKSILGYNLKKSIGPQHEQLCRRMLTPEIQYLSDLGANLWVTKLWKFLRDF
 LRW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001177691

ORF Size: 1269 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](#)

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).

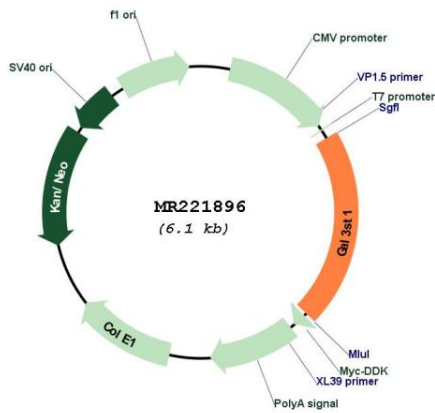
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001177691.1](#), [NP_001171162.1](#)

RefSeq Size: 1620 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 MR221896