

## Product datasheet for **SC122692**

### **GAL3ST1 (NM\_004861) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GAL3ST1 (NM_004861) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAL3ST1
Synonyms:	CST
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_004861 edited  
 CTGATTCCAGAAGGTACCTTGGTGTCTGAGATGCTGCCACCGCAGAAGAAGCCCTGGGAG  
 TCCATGGCTAAGGGGCTGGTGTGGGCGCGCTTCTACTAGTTTCTGCTGCTGATGTAC  
 TCCTATGCCGTGCCCGCTGCATGCCGGCTGGCTCCACGACCCCGAGGCCGAGCG  
 TCCTGTCTCCACCTGCACTCGAGCCAGAGGCAGTGATCCGGGCCAACGGCTCGGCGGG  
 GAGTGCCAGCCGCGCGCAACATCGTGTCTTGAAGACGCACAAGACGCCAGCAGCACC  
 CTGCTCAACATCCTGTTCCGCTTCGGCCAGAAGCACCGGCTCAAGTTCGCCTTCCCTAAC  
 GGCCGCAATGACTTCGACTACCCGACCTTCTCGCCCGCAGCCTGGTGCAGGACTATCGG  
 CCCGGGGCTGCTTCAACATCATCTGCAACCACATGCGCTTCCACTACGACGAGGTGCGC  
 GGCTGGTGCCGACCAACGCCATCTTCATCACGGTGTCCGCGACCCCGCCGCTGTTC  
 GAGTCTCTTCCACTACTTCGGGCGGTGGTCCCTCACGTGGAAGCTCTCGGCCGGC  
 GACAAGCTGACCGAGTTCCTGCAAGACCCGGATCGCTACTACGACCCCAACGGCTTCAAT  
 GCCACTACCTCCGAAACCTGCTTCTTCGACCTGGGCTATGACAACAGCCTGGACCC  
 AGCAGCCCGCAGGTGCAGGAGCACATCCTGGAGTGGAGCGTCGTTCCACCTGGTGCTC  
 TTCAAGAGTACTTCGACGAGTCGCTGGTGTGCTGAAGGACCTGCTGTGCTGGGAGCTG  
 GAGGACGTGCTTACTTCAAGCTCAACGCCCGCGGACTCGCCCGTGGCGGGCTCTCG  
 GGGAGCTGTATGGGCGGCCACCGCTGGAACATGCTGGACTCCACCTTACCGCCAC  
 TTCAACGCCAGCTTCTGGCGCAAGGTGGAGGCCTTCGGGCGGGAGCGCATGGCCCGCAG  
 GTGGCCGCGCTGCGCCATGCCAACGAGCGCATGCGGACCATGTCATCGACGGGGCCAC  
 GCCGTGGACGCGCCGCCATCCAGGACGAGGCCATGCAGCCCTGGCAGCCGCTGGGCACC  
 AAGTCCATCCTGGGCTACAACCTCAAGAAGAGCATCGGGCAGCGGCACGCGCAGCTCTGC  
 CGGCGCATGCTCACGCCGAGATCCAGTACCTGATGGACCTCGGCACCACTGTGGGTC  
 ACCAAGCTTGGAAAGTTCATTTCGCGATTTCTTCGCGTGGTGACGTCCCACCGCCAGCG  
 CTTCCTGCCTGCTCGCTCCCTGCAGAGGGGCTGAGCAGGACCGCGCTGGTGTGCGCCG  
 CCCAGCCCTCCTGGTGCACCTCAGACCCCGGGTGAGGGGGGCTCCCTGGGGGA  
 GGCAGCCAGCAAGACTGGGCCATGAACACAGAGAGGGCCTAACCGAGATCAGTATTTA  
 ACTAATTATACCAGTTTTTATTAACCCCTTCCCTCCCGATAAAGAATGTTCTATTTT  
 TGCCTCCCTTAAGGGGAGACCTCAGAAGTAAAGGAATTTGATGTTGTGTTTTTTGTTAA  
 AAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004861 unedited  
 NGGAGTCAAATATTTGTATACGACTCATATAGCCCGCCGCAATTCGCACGAGGCTGAT  
 TCCAGAAGTACCTTGGTGTCTGAGATGCTGCCACCGCAGAAGAAGCCCTGGGAGTCCATG  
 GCTAAGGGGCTGGTGTGGGCGCGCTTCTACTAGTTTCTGCTGCTGATGTACTCTAT  
 GCCGTGCCCGCTGCATGCCGGCTGGCTCCACGACCCCGAGGCCGAGCGTCTCTGC  
 TCTCCACCTGCACTCGAGCCAGAGGCAGTGATCCGGGCCAACGGCTCGGCGGGGAGTGC  
 CAGCCGCGCGCAACATCGTGTCTTGAAGACGCACAAGACGCCAGCAGCACCCTGCTC  
 AACATCCTGTTCCGCTTCGGCCAGAAGCACCGGCTCAAGTTCGCCTTCCCTAACGCCCG  
 AATGACTTCGACTACCCGACCTTCTTCGCCCGCAGCCTGGTGCAGGACTATCGGCCCGG  
 GCCTGCTTCAACATCATCTGCAACCACATGCGCTTCCACTACGACGAGGTGCGCGGCTG  
 GTGCCGACCAACGCCATCTTCATCACGGTGTCCGCGACCCCGCCGCTTGTTCGAGTCC  
 TCCTTCCACTACTTCGGGCGGTGGTCCCTCACGTGGAAGCTCTCGGCCGGCAGCAGG  
 CTGACCGAGTTCCTGCAAGACCCGGATCGCTACTACGACCCCAACGGCTTCAATGCCAC  
 TACCTCCGAAACCTGCTTCTTCGACCTGNGCTATGACAACAGCCTGGACCCAGCAGC  
 CGCCAGTGCAGGAGCACATCCTGGAAGTGGAGCGTCGTTCCACCTGGTGTCTTTCAG  
 AATACTTCGACGAGTTCGCTGGTGTGCTGAAGACCTGCTGTGCTGGGAGCTGGA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004861

**Insert Size:** 1646 bp

<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004861.1</a> , <a href="#">NP_004852.1</a>
<b>RefSeq Size:</b>	1791 bp
<b>RefSeq ORF:</b>	1272 bp
<b>Locus ID:</b>	9514
<b>UniProt ID:</b>	<a href="#">Q99999</a>
<b>Cytogenetics:</b>	22q12.2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, Sphingolipid metabolism
<b>Gene Summary:</b>	<p>Sulfonation, an important step in the metabolism of many drugs, xenobiotics, hormones, and neurotransmitters, is catalyzed by sulfotransferases. This gene encodes galactosylceramide sulfotransferase, which catalyzes the sulfation of membrane glycolipids including the final step in the synthesis of sulfatide, a major lipid component of the myelin sheath. This gene exhibits elevated expression in ovarian epithelial carcinoma and the encoded enzyme exhibits elevated activity in renal cell carcinoma. Mutations in this gene may be associated with reduced insulin resistance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (8) differs in the 5' UTR compared to variant 1. Variants 1-12 encode the same isoform (1).</p>