

## Product datasheet for **SC313433**

### **GAL3ST3 (NM\_033036) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GAL3ST3 (NM_033036) Human Untagged Clone
Tag:	Tag Free
Symbol:	GAL3ST3
Synonyms:	GAL3ST-3; GAL3ST2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313433 representing NM_033036. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCACCATCCTCCAGCGCCTGCAGCAGGCCACCAAGATGATGAGCCGCCGAAAAATCCTGCTGCTG
GTGCTAGGGTGCAGCACCGTAAGCCTTCTCATCCACCAGGGGCGCAGCTCAGCTGGTACCCCAAGCTG
TTCCCTTGTAGCTGCCCTCCTCTGCGAACTCGCCGCCGCCCAAGCACATGACTGTGGCCTTCTCTG
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GTGACCCCGGCCACGGCGCCGCCGACGTGCTGGCCAGCCACCTGCGCTTCGACCGTGGGAGCTGGAG
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CGCGCGCCCGAGGCATACTACCGCGCTGGCGAGCACTTCGCCATGTTTCGCACACAACACGCTGGCCTAC
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TCGAACTACCTGTTGCGCAAGCAGAAGCGCCGGGCGGTGCGCGGCTCGGCCGAGCCGCTCTGGAC
AATCCCCCGCCTCGGCCATCCGAGTGTGCTCGCGGCCCTCAAGGTCCCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_033036
<b>Insert Size:</b>	1296 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_033036.2</a>
<b>RefSeq Size:</b>	3335 bp
<b>RefSeq ORF:</b>	1296 bp
<b>Locus ID:</b>	89792
<b>UniProt ID:</b>	<a href="#">Q96A11</a>
<b>Cytogenetics:</b>	11q13.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	49 kDa
<b>Gene Summary:</b>	This gene encodes a member of the galactose-3-O-sulfotransferase protein family. The product of this gene catalyzes sulfonation by transferring a sulfate group to the 3' position of galactose in N-acetyllactosamine in both type 2 (Gal-beta-1-4GlcNAc-R) oligosaccharides and core-2-branched O-glycans, but not on type 1 or core-1-branched structures. This gene, which has also been referred to as GAL3ST2, is different from the GAL3ST2 gene located on chromosome 2 that encodes a related enzyme with distinct tissue distribution and substrate specificities, compared to galactose-3-O-sulfotransferase 3. [provided by RefSeq, Jul 2008]