

## Product datasheet for **SC330663**

### **GALT (NM\_001258332) Human Untagged Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: GALT (NM\_001258332) Human Untagged Clone  
Tag: Tag Free  
Symbol: GALT  
Vector: pCMV6-Entry (PS100001)  
Fully Sequenced ORF: >SC330663 representing NM\_001258332.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

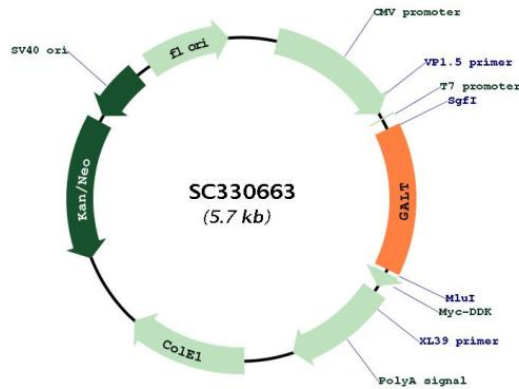
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ATGACCCTCTCAACCCTCTGTGTCCTGGGGCCATCCGAGCCAACGGAGAGTAAGGTCATGTGCTTCCAC
CCCTGGTCGGATGTAACGCTGCCACTCATGTCGGTCCCTGAGATCCGGGCTGTTGTTGATGCATGGGCC
TCAGTCACAGAGGAGCTGGGTGCCAGTACCCTTGGGTGCAGATCTTTGAAAACAAGGTGCCATGATG
GGCTGTTCTAACCCCAACCCCACTGCCAGGTATGGGCCAGCAGTTTCTGCCAGATATTGCCAGCGT
GAGGAGCGATCTCAGCAGGCCTATAAGAGTCAGCATGGAGAGCCCTGCTAATGGAGTACAGCCGCCAG
GAGCTACTCAGGAAGGAACGTCCTGGTCTAACCAGTGAGCACTGGTTAGTACTGGTCCCCTCTGGGCA
ACATGGCCCTACCAGACTGCTGCTGCCCGTCGGCATGTGCGGCGGCTACCTGAGCTGACCCCTGCT
GAGCGTGATGATCTAGCCTCCATCATGAAGAAGCTCTTGACCAAGTATGACAACCTCTTTGAGACGTCC
TTTCCCTACTCCATGGGCTGGCATGGGGCTCCCACAGGATCAGAGGCTGGGGCCAACTGGAACCATTGG
CAGCTGCACGCTCATTACTACCCTCCGCTCCTGCGCTCTGCCACTGTCCGGAAATTCATGGTTGGCTAC
GAAATGCTTGCTCAGGCTCAGAGGGACCTACCCCTGAGCAGGCTGCAGAGAGACTAAGGGCACTTCCT
GAGGTTTCATTACCACCTGGGGCAGAAGGACAGGGAGACAGCAACCATCGCCTGA
```

Restriction Sites: SgfI-MluI



[View online »](#)

**Plasmid Map:**



**ACCN:** NM\_001258332

**Insert Size:** 813 bp

**OTI Disclaimer:** 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).

**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).

<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_001258332.1</a>
<b>RefSeq Size:</b>	1282 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	2592
<b>UniProt ID:</b>	<a href="#">P07902</a>
<b>Cytogenetics:</b>	9p13.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways
<b>MW:</b>	31.1 kDa
<b>Gene Summary:</b>	<p>Galactose-1-phosphate uridylyl transferase (GALT) catalyzes the second step of the Leloir pathway of galactose metabolism, namely the conversion of UDP-glucose + galactose-1-phosphate to glucose-1-phosphate + UDP-galactose. The absence of this enzyme results in classic galactosemia in humans and can be fatal in the newborn period if lactose is not removed from the diet. The pathophysiology of galactosemia has not been clearly defined. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]</p> <p>Transcript Variant: This variant (2) lacks two alternate coding exons compared to variant 1, that causes a frameshift. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.</p>