

## Product datasheet for **RC232342**

### **GALT (NM\_001258332) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: GALT (NM\_001258332) Human Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: GALT  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
ORF Nucleotide Sequence: >RC232342 representing NM\_001258332  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACCCTCTCAACCCTCTGTGTCCTGGGGCCATCCGAGCCAACGGAGAGTAAGGTCATGTCTCCACC  
CCTGGTCGGATGTAACGCTGCCACTCATGTCCGTCCCTGAGATCCGGGCTGTTGTTGATGCATGGGCCTC  
AGTCACAGAGGAGCTGGGTGCCAGTACCCTTGGGTGCAGATCTTTGAAAACAAAGTGCCATGATGGGC  
TGTTCTAACCCCCACCCCACTGCCAGGTATGGGCCAGCAGTTTCTGCCAGATATTGCCAGCGTGAGG  
AGCGATCTCAGCAGGCCTATAAGAGTCAGCATGGAGAGCCCTGCTAATGGAGTACAGCCGCCAGGAGCT  
ACTCAGGAAGGAACGTCTGGTCCTAACCAGTGAGCACTGGTTAGTACTGGTCCCCTTCTGGGCAACATGG  
CCCTACCAGACTGCTGCTGCCCGTCGGCATGTGCGGCGGCTACCTGAGCTGACCCCTGCTGAGCGTG  
ATGATCTAGCCTCCATCATGAAGAAGCTCTTGACCAAGTATGACAACCTCTTTGAGACGTCCTTTCCCTA  
CTCCATGGGCTGGCATGGGGCTCCACAGGATCAGAGGCTGGGGCCAACGGAACCATTGGCAGCTGCAC  
GCTCATTACTACCCTCCGCTCCTGCGCTCTGCCACTGTCCGAAATTCATGGTTGGCTACGAAATGCTTG  
CTCAGGCTCAGAGGGACCTCACCCCTGAGCAGGCTGCAGAGAGACTAAGGGCACTTCTGAGGTTTACCTA  
CCACCTGGGGCAGAAGGACAGGGAGACAGCAACCATCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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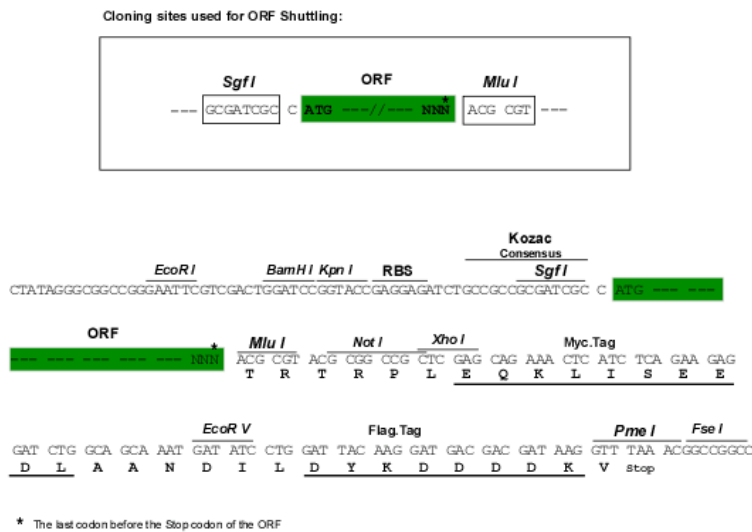
**Protein Sequence:** >RC232342 representing NM\_001258332  
Red=Cloning site Green=Tags(s)

MTLSTLCVLGPSEPTESKVMCFHPWSDVTLPLMSVPEIRAVVDASVTEELGAQYPWWQIFENK GAMMG  
 CSNPHPHCQVWASSFLPDIAQREERSQQAYKSQHGEPLLEMEYSRQELLRKERLVL TSEHWLVLVPFWATW  
 PYQTL LLLPRRHVRRLELTPAERDDLASIMKLLTKYDNL FETSFYPMGWHGAPTGSEAGANWNHWQLH  
 AHYYPLLRSATVRKFMVGYEMLAQQRDLTPEQAAERLRALPEVHYHLGQKDRETATIA

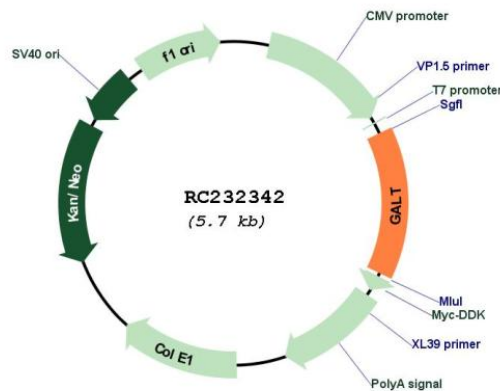
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001258332

**ORF Size:** 810 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001258332.1</a> , <a href="#">NP_001245261.1</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>	31.6 kDa
<b>Gene Summary:</b>	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]