

Product datasheet for **SC111633**

GALT (NM_000155) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALT (NM_000155) Human Untagged Clone
Tag:	Tag Free
Symbol:	GALT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000155, the custom clone sequence may differ by one or more nucleotides

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ATGTCGCGCAGTGAACCGATCCTCAGCAACGCCAGCAGGCGTCAGAGGCGGACGCCGAGCAGCAACCT
TCCGGGCAAACGACCATCAGCATATCCGCTACAACCCGCTGCAGGATGAGTGGGTGCTGGTGTCAGCTCA
CCGCATGAAGCGGCCCTGGCAGGGTCAAGTGGAGCCCCAGCTTCTGAAGACAGTCCCCGCCATGACCCCT
CTCAACCCCTCTGTGCTCTGGGGCCATCCGAGCCAACGGAGAGGTGAATCCCCAGTACGATAGCACCTTCC
TGTTTGACAACGACTTCCCAGCTCTGCAGCCTGATGCCCCAGTCCAGGACCCAGTGATCATCCCCTTTT
CCAAGCAAAGTCTGCTCGAGGAGTCTGTAAGGTCATGTGCTTCCACCCCTGGTGGATGTAACGCTGCCA
CTCATGTCCGGTCCCTGAGATCCGGGCTGTTGTTGATGCATGGGCCTCAGTCACAGAGGAGTGGGTGCC
AGTACCCTTGGGTGCAGATCTTTGAAAACAAGGTGCCATGATGGGCTGTTCTAACCCCCACCCCACTG
CCAGGTATGGGCCAGCAGTTTCTGCCAGATATTGCCAGCGTGAGGAGCGATCTCAGCAGGCTATAAG
AGTCAGCATGGAGAGCCCTGCTAATGGAGTACAGCCGCCAGGAGCTACTCAGGAAGGAACGTCTGGTCC
TAACCACTGAGCACTGGTTAGTACTGGTCCCCTTCTGGGCAACATGGCCCTACCAGACTGCTGCTGCC
CCGTCGGCATGTGCGGCGGCTACCTGAGCTGACCCCTGCTGAGCGTGATGATCTAGCCTCCATCATGAAG
AAGCTCTGACCAAGTATGACAACCTCTTTGAGACGTCTTTCCCTACTCCATGGGCTGGCATGGGGCTC
CCACAGGATCAGAGGCTGGGGCCAACTGGAACCATGGCAGCTGCACGCTCATTACTACCCTCCGCTCCT
GCGCTCTGCCACTGTCCGAAATTCATGGTTGGCTACGAAATGCTTGCTCAGGCTCAGAGGGACCTCACC
CCTGAGCAGGCTGCAGAGAGACTAAGGGCACTTCTGAGGTTTCATTACCCTGGGGCAGAAGGACAGGG
AGACAGCAACCATCGCCTGA
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Restriction Sites:	NotI-NotI
ACCN:	NM_000155
Insert Size:	2480 bp



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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).
Reconstitution Method:	<ol style="list-style-type: none">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:	<u>NM_000155.3</u> , <u>NP_000146.2</u>
RefSeq Size:	1407 bp
RefSeq ORF:	1140 bp
Locus ID:	2592
UniProt ID:	<u>P07902</u>
Cytogenetics:	9p13.3
Domains:	GalP_UDP_transf, GalP_UDP_tr_C
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways
Gene Summary:	<p>Galactose-1-phosphate uridyl 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 (1) represents the longer transcript and encodes the longer isoform (1).</p>