

## Product datasheet for **SC300016**

### Galactoside 2 alpha L fucosyltransferase 1 (FUT1) (NM\_000148) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Galactoside 2 alpha L fucosyltransferase 1 (FUT1) (NM_000148) Human Untagged Clone
Tag:	Tag Free
Symbol:	Galactoside 2 alpha L fucosyltransferase 1
Synonyms:	H; HH; HSC
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000148 edited  
AAAAGCGGACTGTGGATCTGCCACCTGCAAGCAGCTCGGCCATGTGGCTCCGGAGCCATC  
GTCAGCTCTGCCTGGCCTTCCTGCTAGTCTGTGCCTCTCTGTAATCTTCTTCCCTCCATA  
TCCATCAAGACAGCTTTCCACATGGCCTAGGCCTGTCGATCCTGTGTCCAGACC GCCGCC  
TGGTGACACCCCCAGTGGCCATCTTCTGCCTGCCGGTACTGCGATGGGCCCAACGCCT  
CCTCTTCTGTCCCAGCACCTGCTTCCCTCTCCGGCACCTGGACTGTCTACCCCAATG  
GCCGGTTTGGTAATCAGATGGGACAGTATGCCACGCTGCTGGCTCTGGCCAGCTCAACG  
GCCGCCGGCCTTTATCCTGCCTGCCATGCATGCCGCCCTGGCCCCGGTATTCCGCATCA  
CCCTGCCCGTGTGGCCCCAGAAGTGGACAGCCGCACGCCGTGGCCGGAGCTGCAGCTTC  
ACGACTGGATGTCGGAGGAGTACGCGGACTTGAGAGATCCTTTCTGAAGCTCTCTGGCT  
TCCCCTGCTCTTGACTTTCTTCCACCATCTCCGGGAACAGATCCGCAGAGAGTTCACCC  
TGCACGACCACCTTCGGGAAGAGGCGCAGAGTGTGCTGGGTGAGCTCCGCCTGGGCCGCA  
CAGGGGACCGCCCGCGCACCTTTGTCCGGTCCACGTGCCCGTGGGGACTATCTGCAGG  
TTATGCCTCAGCGCTGGAAGGTGTGGTGGGCGACAGCGCCTACCTCCGGCAGGCCATGG  
ACTGGTTCGGGACGGCACGAAGCCCCGTTTTTCGTGGTACCAGCAACGGCATGGAGT  
GGTGTAAGAAAACATCGACACCTCCCAGGGCGATGTGACGTTTCTGGCGATGGACAGG  
AGGCTACACCGTGGAAAGACTTTGCCCTGCTCACACAGTGAACACACCATTATGACCA  
TTGGCACCTTCGGCTTCTGGGCTGCCTACCTGGCTGGCCGAGACACTGTCTACCTGGCCA  
ACTTCACCCTGCCAGACTCTGAGTTCTTGAAGATCTTTAAGCCGGAGGCCGCTTCTCTGC  
CCGAGTGGGTGGCATTAAATGCAGACTTGTCTCCACTCTGGACATTGGCTAAGCCTTGAG  
AGCCAGGGAGACTTTCTGA

Restriction Sites:	Please inquire
ACCN:	NM_000148
Insert Size:	1200 bp



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<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>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000148.2.
<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>	<u>NM_000148.2, NP_000139.1</u>
<b>RefSeq Size:</b>	4244 bp
<b>RefSeq ORF:</b>	1098 bp
<b>Locus ID:</b>	2523
<b>UniProt ID:</b>	<u>P19526</u>
<b>Cytogenetics:</b>	19q13.33
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
<b>Gene Summary:</b>	<p>This gene encodes a Golgi stack membrane protein that is involved in the creation of a precursor of the H antigen, which is required for the final step in the synthesis of soluble A and B antigens. This is one of two genes encoding the galactoside 2-L-fucosyltransferase enzyme. Mutations in this gene are a cause of the H-Bombay blood group. [provided by RefSeq, Aug 2016]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>