

Product datasheet for **SC300017**

FUT3 (NM_000149) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT3 (NM_000149) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUT3
Synonyms:	CD174; FT3B; FucT-III; LE; Les
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000149 edited
 GAGAAAGCAGGCAACCACCATGTCATTTGAAAACAGTTTCATCGGGATATAAATTCGCAAC
 CCATACAGTGAATCCATTTAAGATACTCTGACCCATGGATCCCCTGGGTGCAGCCAAGCC
 ACAATGGCCATGGCGCCGCTGTCTGGCCGACTGCTATTTAGCTGCTGGTGGCTGTGTG
 TTTCTTCTCTACCTGCGTGTGTCCCGAGACGATGCCACTGGATCCCCTAGGGCTCCCAG
 TGGGCTCTCCCGACAGGACACCACTCCCACCCGCCACCCTCCTGATCCTGCTATGGAC
 ATGGCCTTTCCACATCCCCTGTGGCTCTGTCCCGCTGTTACAGAGATGGTGGCCGGCACAGC
 CGACTGCCACATCACTGCCGACCGCAAGGTGTACCCACAGGCAGACACGGTCATCGTGCA
 CCACTGGGATATCATGTCCAACCCTAAGTCACGCCTCCCACCTTCCCAGGGCCGACAGG
 GCAGCGCTGGATCTGGTTCAACTGGAGCCACCCCTAACTGCCAGCACCTGGAAGCCCT
 GGACAGATACTTCAATCTCACCATGTCCTACCGCAGCGACTCCGACATCTTACGCCCTA
 CGGCTGGCTGGAGCCGTTGGTCCGGCCAGCCTGCCACCCACCGCTCAACCTCTCGGCCAA
 GACCGAGCTGGTGGCCTGGGCGGTGTCCAAGTGAAGCCGGACTCAGCCAGGGTGCCTA
 CTACCAGAGCCTGCAGGCTCATCTCAAGGTGGACGTGTACGGACGCTCCCACAAGCCCT
 GCCCAAGGGGACCATGATGGAGACGCTGTCCCGTACAAGTTCTACCTGGCCTTCGAGAA
 CTCTTGACCCCGACTACATCACCGAGAAGCTGTGGAGGAACGCCCTGGAGGCCTGGGC
 CGTGCCCGTGGTCTGGGCCCCAGCAGAAGCAACTACGAGAGGTTCTGCCACCCGACGC
 CTTTCATCCACGTGGACGACTTCCAGAGCCCAAGGACCTGGCCCGGTACCTGCAGGAGCT
 GGACAAGGACCACGCCCGCTACCTGAGCTACTTTCGCTGGCGGGAGACGCTGCGGCCTCG
 CTCCTTACAGTGGGCACTGGATTTCTGCAAGGCCCTGTGGAACTGCAGCAGGAATCCAG
 GTACCAGACGGTGCAGCATAGCGGCTTGGTTACCTGAGAGGCCGGCATGGTGCCTGG
 GCTGCCGGGAACCTCATCTGCCTGGGCTCACCTGCTGGAGTCTTTGTGGCCAACCT
 CTCTCTTACCTGGGACCTCACACGCTGGGCTTACGGCTGCCAGGAGCCTCTCCCCTCA
 GAAGACTTGCTGCTGGGACCTCGCCTGCTGGGACCTCGCCTGTTGGGACCTCACCT
 GCTGGGACCTCACCTGCTGGGACCTTGGCTGCTGGAGGCTGCACCTACTGAGGATGTC
 GGCGGTGGGGACTTTACCTGCTGGGACCTGCTCCAGAGACCTTCCACACTGAATCTC
 ACCTGCTGGGACCTCACCTGGAGGGCCCTGGGCCCTGGGAACTGGCTTACTTGGGGC
 CCCACCCGGGAGTGATGGTTCTGGCTGATTTGTTGTGATGTTGTTAGCCGCTGTGAGG
 GGTGCAGAGATCATCACGGCACGGTTTCCAGATGTAATACTGCAAGGAAAAAAAAAAAA
 AAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_000149
- Insert Size:** 1700 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).
- OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000149.1.
- 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:	NM_000149.1 , NP_000140.1
RefSeq Size:	2583 bp
RefSeq ORF:	1086 bp
Locus ID:	2525
UniProt ID:	P21217
Cytogenetics:	19p13.3
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
Gene Summary:	<p>The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Differences in the expression of this gene are associated with host susceptibility to viral infection. [provided by RefSeq, Aug 2020]</p> <p>Transcript Variant: This variant (1), also known as minor I, represents the longest transcript. Variants 1, 2, 3, and 4 encode the same protein.</p>