

Product datasheet for **SC316194**

FUT3 (NM_001097641) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT3 (NM_001097641) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUT3
Synonyms:	CD174; FT3B; FucT-III; LE; Les
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001097641, the custom clone sequence may differ by one or more nucleotides ATGGATCCCCTGGGTGCAGCCAAGCCACAATGGCCATGGCGCCGCTGTCTGGCCGCACTG CTATTTACAGTGTGGTGGCTGTGTGTTTCTTCTCCTACCTGCGTGTGTCCCGAGACGAT GCCACTGGATCCCCTAGGGCTCCCAGTGGGTCTCCCGACAGGACACCACTCCCACCCGC CCCACCCTCCTGATCCTGCTATGGACATGGCCTTCCACATCCCTGTGGCTCTGTCCCGC TGTTTCAGAGATGGTGCCCGGCACAGCCGACTGCCACATCACTGCCGACCGCAAGGTGTAC CCACAGGCAGACCGGTATCGTGCACCACTGGGATATCATGTCCAACCCTAAGTCACGC CTCCCACCTTCCCAGGCGCCAGGGGCAGCGCTGGATCTGGTTCAACTGGAGCCACCC CCTAACTGCCAGCACCTGGAAGCCCTGGACAGATACTTCAATCTCACCATGTCCTACCGC AGCGACTCCGACATCTTACGCCCTACGGCTGGCTGGAGCCGTGGTCCGGCCAGCCTGCC CACCCACCGCTCAACCTCTCGGCCAAGACCGAGCTGGTGGCTGGGCGGTGTCCAAGTGG AAGCCGGACTCAGCCAGGGTGCCTACTACCAGAGCCTGCAGGCTCATCTCAAGTGGAC GTGTACGGACGCTCCACAAGCCCTGCCAAGGGGACCATGATGGAGACGCTGTCCCGG TACAAGTTCTACCTGGCCTTCGAGAATCCTTGCACCCGACTACATCACCGAGAAGCTG TGGAGGAACGCCCTGGAGCCTGGGCCGTGCCCGTGGTGTGGGCCCCAGCAGAAGCAAC TACGAGAGGTTCTGCCACCCGACGCTTCCACAGTGGACGACTTCCAGAGCCCAAG GACCTGGCCCGGTACCTGCAGGAGCTGGACAAGGACCACGCCCGCTACCTGAGTACTTT CGCTGGCGGGAGACGCTGCGGCCTCGCTCCTTACGCTGGGCACTGGATTCTGCAAGGCC TGCTGGAAACTGCAGCAGGAATCCAGGTACCAGACGGTGCAGCATAGCGGCTTGGTTC ACC
Restriction Sites:	Please inquire
ACCN:	NM_001097641
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).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001097641.1</u> , <u>NP_001091110.1</u>
RefSeq Size:	2066 bp
RefSeq ORF:	1086 bp
Locus ID:	2525
UniProt ID:	<u>P21217</u>
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 (4), also known as minor II, differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 4 encode the same protein.</p>