

Product datasheet for **SC316185**

FUT2 (NM_001097638) Human Untagged Clone

Product data:

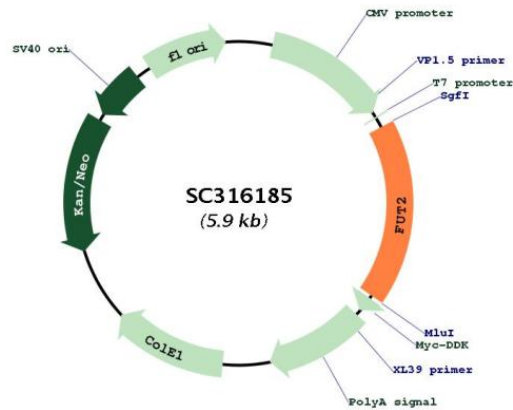
Product Type:	Expression Plasmids
Product Name:	FUT2 (NM_001097638) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUT2
Synonyms:	B12QTL1; SE; Se2; SEC2; sej
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316185 representing NM_001097638. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGGTCGTTTACAGATGCCTTTCTCCTTTCCCATGGCCCACTTCATCCTCTTTGTCTTTACGGTTTCC
ACTATATTTACAGTTCAGCAGCGGCTAGCGAAGATTCAAGCCATGTGGGAGTTACCGGTGCAGATACCA
GTGCTAGCCTCAACATCAAAGGCACTGGGACCCAGCCAGCTCAGGGGGATGTGGACGATCAATGCAATA
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GCCTTCATCCCGCCAGATGCACAGCACCTGGCCCCATCTCAGAATCACCTGCCGGTGCTGCAC
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CAGGAGATCCTCCAGGAGTTCACCTGCACGACCAGTGCAGGAGGAGGCCAGAAAGTTCCTGCGGGGC
CTGCAGGTGAACGGGAGCCGGCCGGGCACCTTTGTAGGGGTCCATGTTCCCGGAGGGGACTATGTCCAT
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GACACCTCCACGGTGTGTGGTGTGCTGGCGATGGCATTGAGGGCTCACCTGCCAAAGATTTTGTCT
CTACTCACACAGTGAACACACCATCATGACCATTGGGACGTTCCGGATCTGGGCCGCATACCTCAG
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GAGGCAGCCTTCTGCGGAGTGGACAGGATTGCCGACAGCTGTCCCTTACTCAAGCACTAA
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001097638

Insert Size: 1032 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: 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:

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_001097638.2](#)

RefSeq Size: 3089 bp

RefSeq ORF: 1032 bp

Locus ID: 2524

UniProt ID:	Q10981
Cytogenetics:	19q13.33
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
MW:	39 kDa
Gene Summary:	<p>The protein encoded by this gene is 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 soluble A and B antigen synthesis pathway. This gene is one of two encoding the galactoside 2-L-fucosyltransferase enzyme. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments. Sequence Note: This RefSeq record represents the SE*01.01.01 allele.</p>