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Product datasheet for SC313037

FUT2 (NM_000511) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT2 (NM_000511) Human Untagged Clone
Tag:	Tag Free
Symbol:	FUT2
Synonyms:	B12QTL1; SE; Se2; SEC2; sej
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_000511 edited ATGCTGGTCGTTCAGATGCCTTTCTCCTTTCCCATGGCCCACTTCATCCTCTTTGTCTTT ACGGTTTCCACTATATTTCACGTTCAGCAGCGGCTAGCGAAGATTCAAGCCATGTGGGAG TTACCGGTGCAGATACCAGTGCTAGCCTCAACATCAAAGGCACTGGGACCCAGCCAGCTC AGGGGGATGTGGACGATCAATGCAATAGGCCGCCTGGGGAACCAGATGGGCGAGTACGCC ACACTGTACGCCCTGGCCAAGATGAACGGGCGGCCCGCCTTCATCCCGGCCCAGATGCAC AGCACCCTGGCCCCCATCTTCAGAATCACCCTGCCGGTGCTGCACAGCGCCACGGCCAGC AGGATCCCCTGGCAGAACTACCACCTGAATGACTGGATGGAGGAGGAATACCGCCACATC CCGGGGGAGTACGTCCGCTTCACCGGCTACCCCTGCTCCTGGACCTTCTACCACCACCTC CGCCAGGAGATCCTCCAGGAGTTCACCCTGCACGACCACGTGCGGGAGGAGGCCCAGAAG TTCCTGCGGGGCCTGCAGGTGAACGGGAGCCGGCCGGGCACCTTTGTAGGGGTCCATGTT CGCCGAGGGGACTATGTCCATGTCATGCCAAAAGTGTGGAAGGGGGTGGTGGCCGACCGG CGATACCTACAGCAGGCCCTGGACTGGTTCCGAGCTCGCTACAGCTCCCTCATCTTCGTG GTCACCAGTAATGGCATGGCCTGGTGTCGGGAGAACATTGACACCTCCCACGGTGATGTG GTGTTTGCTGGCGATGGCATTGAGGGCTCACCTGCCAAAGATTTTGCTCTACTCACACAG TGTAACCACACCATCATGACCATTGGGACGTTCGGGATCTGGGCCGCATACCTCACGGGC GGAGACACCATCTACCTGGCCAATTACACCCTCCCCGACTCCCCTTTCCTCAAAATCTTT AAGCCAGAGGCAGCCTTCCTGCCGGAGTGGACAGGGATTGCCGCAGACCTGTCCCCCTTA CTCAAGCACTAA

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000511 unedited
AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGTGGAAGGGTTTCTTTGGCC
CTGAGTGAAGAGAGACCCAGAGGGAACACTGAGGTGCCTGCCCAACCACTCTGTCCCGGT
TTCCTTCAGCAGGACCAGGTGAGAGAAGCCATGCTGGTCGTTCAGATGCCTTTCTCCTTT
CCCATGGCCCACTTCATCCTCTTTGTCTTTACGGTTTCCACTATATTTCACGTTCAGCAG
CGGCTAGCGAAGATTCAAGCCATGTGGGAGTTACCGGTGCAGATACCAGTGCTAGCCTCA
ACATCAAAGGCACTGGGACCCAGCCAGCTCAGGGGGATGTGGACGATCAATGCAATAGGC
CGCCTGGGGAACCAGATGGGCGAGTACGCCACACTGTACGCCCTGGCCAAGATGAACGGG
CGGCCCGCCTTCATCCCGGCCCAGATGCACAGCACCCTGGCCCCCATCTTCAGAATCACC
CTGCCGGTGCTGCACAGCGCCACGGCCAGCAGGATCCCCTGGCAGAACTACCACCTGAAT
GACTGGATGGAGGAGGAATACCGCCACATCCCGGNGGAGTACGTCCGCTTCACCGGCTAC
CCCTGCTCCTGGACCTTCTACCACCACCTCCGCCAGGAGATCCTCCAGGAGTTCACCCTG
CACGACCACGTGCGGGAGGAGGCCCANAAGTTCCTGCGGGGCCTGCAGGTGAACGGGAGC
CGGGCCGGCACCTTTGTAGGGGTCCATGGTCGCCGAGGGGACTATGTCCATGTCATGCCN
AAAGTGTGGAAGGGGGGTGGGTGGCCGACCGGCGATACCTACAGCAGGCCCTGGACTGGN
TNCGAGCTCGCTACACTCCTCATCTTCGTGTCACCCCATATGCATGGCCTGGTGTCGGAG
ACATGACACTCACGTGAATTGNGTGTTGCTGCGATGCATGAGGCTACTGCAAGATTGCCT
ATCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000511 unedited
NCACATGTACCCTGCCGCAATCNANGATCGAGTTTTTTTTTTTTTTTTTGAGGAGGAGT
CTCACTCTGTTGTCCAGGCTAGAGTGCAATGGTGTGATCCTGGCTCACTGCAACCTCTGC
CTCCCTGGTGCAAACGATTCTCCTGCTTAAGCCTGCCAAGTAGCTGGGACTACAGGTCTG
CACCACCACCCCTGGCTAATGTTTTGTATGTTTAGTAGAGACAGGGTTTCACTATGTTGC
CCAGGCTAGTCTCGAACTCCTGACCTCAGGTGATCCGCCCGCCTTACCCTCCCAAAGTGC
TGGGATTACAGCCACCATGCCTGGCCTAAGATGTATTTTGGAGTTCATGTGATACTTATG
TAATACGCTCTCAGAGAACCTTTTCTCCCATCCGCAAAGTCATAATTGTGTTTATTCATT
TATTTATTTATAAGAGTCAGGGTATCACTACGTCGTCCAGGCCGCAGTGCAGTGGCTATT
CGCAAGTCCAATCACGGTGCACTATATTCCCTAACTCCTGGCATCAAGCAATCCTCCCAC
CTCAGCCTCCCTGGTAGCTGGGAATACCCAACTCCATGACTGTATGCACACTGGTGATTA
AAAAAAATTATTCCTTTGATGACTGTGTAATGGTTACAAATGTATCCTCTGAGAGGGAAG
GCTGCTGTGGGGGGTTTCACTGCCTGACATGTAACACATGTGCTGCAAACATTTACTGAA
AGAATGAACGGAACGCCCTGAAGTTCACTGACCCAGGCTGGTCTCTCAGTTCTAGCAATG
ATCATCCCAGGCCCTAAAAAGCCAGGATTGAAAAGGCGGACCTATGGCCTTGGATGCATG
CCAGCTACAACCCATATGCCCATTTGTGAAACTGGAAAAAGGTCCCCTTCCAGAGGACTA
ACTAGAAAAACTGGGCTCCTAGGCCGGGCG

Restriction Sites: Please inquire

ACCN: NM_000511

Insert Size: 2100 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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_000511.3, NP_000502.3
RefSeq Size:	3088 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

Gene Summary: 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]
Transcript Variant: This variant (1) represents the longer transcript. 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.