

Product datasheet for SC116007

Fuc-TIX (FUT9) (NM_006581) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fuc-TIX (FUT9) (NM_006581) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fuc-TIX
Synonyms:	Fuc-TIX
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116007 sequence for NM_006581 edited (data generated by NextGen Sequencing)

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ATGACATCAACATCCAAAGGAATTCTTCGCCATTTTTAATTGTCTGCATTATCCTGGGC
TGTTTCATGGCATGTCTTCTCATTACATCAAACCTACCAACAGCTGGATCTTCAGTCCA
ATGGAATCAGCCAGCTCTGTGCTGAAAATGAAAACTTCTTTCCACAAAACCTGATTAT
TTAATGAACTACTATTCTGGTGTGGGTGTGGCCATTTGGGCAGACCTTTGACCTTACA
TCCTGCCAAGCAATGTTCAACATCCAAGGATGCCATCTCACAACGGACCGTTCACTGTAC
AACAAATCCCATGCAGTCTGATCCATCACCGAGACATCAGTTGGGATCTGACAAATTTA
CCTCAGCAAGCTAGGCCACCCTCCAGAAATGGATTTGGATGAATTTGGAATCACCAACT
CACACTCCCCAAAAGAGTGGCATTGAGCACTTGTTTAACCTGACTCTGACTTACCGCCGT
GATTCAGATATCCAAGTGCCTTATGGCTTCTTGACGGTAAGCACAAATCCCTTCGTGTTT
GAAGTGCCAAGCAAAGAGAAATGGTGTGCTGGGTTGTGAGTAACCTGGAACCTGAGCAT
GCCAGAGTCAAGTATTACAATGAGCTAAGCAAAAGCATTGAAATCCATACCTACGGGCAA
GCATTTGGAGAATATGTCAATGATAAAAAATTTGATTCCTACCATATCTGCTTGTAATTT
TATCTTTCCTTTGAAAATCAATCCACAAGGATTACATCACGGAAAAGCTATACAATGCT
TTTCTGGCTGGCTCTGTACCTGTTGTTCTGGGACCATCTAGGGAAAACCTATGAGAATTAT
ATTCCAGCAGATTCATTCATTCATGTGGAAGATTATAACTCTCCCAGTGAGCTAGCAAAG
TATCTGAAGGAAGTCGACAAAAACAATAAGTTATACCTTAGTTACTTTAACTGGAGGAAG
GATTTCACTGTAATCTTCCACGATTTTGGGAATCACATGCATGTTTGGCTTGCATCAT
GTGAAAAGGCATCAAGAATATAAGTCTGTTGTTGTAATTTAGAGAAATGGTTTTGGAATTA

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Clone variation with respect to NM_006581.3
709 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006581 unedited
 CCGTCGGGATTTGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGGGCAGCTT
 CAGCGAAGCCGGAGATGGGCAGAGAGCGCGCGCGCAGCAGCTCCAGATTTACTGCTC
 TCCCCTGCAGCTCCCCGCGCCCCGCGCTGTCTGCTGCCCGGTGTCCTCCAGCCCCAGT
 CGCGCTCTTAGGACAGCGCCGCCACCGCCGCTGGCCCTGCCTGCCTCCTGCGCCGCGCA
 GCCCTCGGAGCGCCCCGGATGGCGCTTACCCCTAGGACCGATTTAGAATGTAATAACT
 CAAGGATTTGATAATACAGTGAAGTAGTATAACAACCTGTCTACGTGCTTCCCATGATATG
 TTCTCTATATTGAAAAATTATGACATCAACATCCAAAGGAATTCTTCGCCATTTTTAAT
 TGTCTGCATTATCCTGGGCTGTTTCATGGCATGCTTCTCATTTACATCAAACCTACCAA
 CAGCTGGATCTTCAGTCCAATGGAATCAGCCAGCTCTGTGCTGAAAAATGAAAACTTCTT
 TTCCACAAAACTGATTATTTAATGAACTACTATTCTGGTGTGGGTGTGGCCATTTGG
 GCAGACCTTTGACCTTACATCCTGCCAAGCAATGTTCAACATCCAAGGATGCCATCTCAC
 AACGGACCGTTCACTGTACAACAAATCCCATGCAGTTCTGATCCATCACCGAGACATCAG
 TTGGNGATCTGACANATTTACCTCAGCAAGCTAGGCCACCCTCCAGAAATGGATTTGGA
 TGATTTTGAATCACCAACTCACACTCCCCAAAGAGTGGCATTGAGCACTTGTTTAACT
 GACTCTGACTTACCGCCGTGATTAGATATCCAGTGCCTTATGCTTCTGACGTAAGCAC
 AATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006581 unedited
 ATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTGAGGAAATTATTTGTTTTATTATGACAA
 TACTGATCAGTACGAGAAAGAACTGTCTTAGATTTTCTAAAGTATTATTGGGATTACT
 TCCCAGGTGCTGAAAATCACAACAAATTTGGATATTTAAAAATACTGAATAATTTAATTT
 AAGACCATGAGAATAAGTAGCTGCAAAATCAGCTTAATGAAAATAAATGAGAAGTCTAATA
 GCTTCCTGAATAGAACAGTTCTGCTTCATATCTTTCTTATTCACTCCATGAATAATTTCA
 CCTTCACAAATGTGATAAACAGGTAAAAAAAATAGATCAAATAGAGACAGTTATACACTT
 CATTATCTTAGGAGTCAAAGAGGTTAGAATTCATCGCAACATGTTCTTCTCTGTTAT
 AGTATGCAAAGTTGGAAC TAGACATTGTAATACCTTAGTGAAAATTTTTTATACTTTAAG
 ATGTGCATCTTCAATTTCCAAATAGATTAACAGCTGATCAGTGTGAAACAATATCAAACC
 ACAGCTTCATTATGGCACCTACAAAATGTGAAAAGCATGTTCCAATGATATGAGAATAA
 TACTCTCAGCCCTATTAGTATTCAGGATATTAACCGATGGATGATTGCCTCTGCTGGC
 TTTAAAAATTTACAAAATACCGGTACCCTANAGAGTGATAAAAATAATGGGACCCAAACAC
 CAGTGGATCCTTTTTCTCATCGTGAAGAAACCATCAAATAATACAGGGGCAGGGAGAAA
 ATTTAATCCCAACTTTTTTTATACCACAAATTTTTCTGGGCCTTTTCATGACCCAGCAA
 CTGCTGGGATCCACATCGGAGAATTACAGCACCCCTCCTTAGAAAATAAGAACTATGTTTG
 CACTCTTAACTTGGCCCCGGAGATAATCTCAAAG

Restriction Sites:

NotI-NotI

ACCN:

NM_006581

Insert Size:

2240 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).

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_006581.2](#), [NP_006572.1](#)

RefSeq Size: 3042 bp

RefSeq ORF: 1080 bp

Locus ID: 10690

UniProt ID: [Q9Y231](#)

Cytogenetics: 6q16.1

Domains: Glyco_transf_10

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

Gene Summary: The protein encoded by this gene belongs to the glycosyltransferase family. It is localized to the golgi, and catalyzes the last step in the biosynthesis of Lewis X (LeX) antigen, the addition of a fucose to precursor polysaccharides. This protein is one of the few fucosyltransferases that synthesizes the LeX oligosaccharide (CD15) expressed in the organ buds progressing in mesenchyma during embryogenesis. It is also responsible for the expression of CD15 in mature granulocytes. A common haplotype of this gene has also been associated with susceptibility to placental malaria infection. [provided by RefSeq, Nov 2011]