

Product datasheet for RC206322

Fuc-TIX (FUT9) (NM_006581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fuc-TIX (FUT9) (NM_006581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fuc-TIX
Synonyms:	Fuc-TIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206322 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACATCAACATCCAAAGGAATCTTCGCCCATTTTTGATTGTCTGCATTATCCTGGGCTGTTTCATGG
CATGTCTTCTCATTTACATCAAACCTACCAACAGCTGGATCTTCAGTCCAATGGAATCAGCCAGCTCTGT
GCTGAAAATGAAAACCTCTTTCCACCAAACTGATTATTTAATGAACTACTATTCTGGTGTGGGTG
TGGCCATTTGGGCAGACCTTTGACCTTACATCCTGCCAAGCAATGTTCAACATCCAAGGATGCCATCTCA
CAACGGACCGTTCAGTGTACAACAAATCCCATGCAGTTCTGATCCATCACCGAGACATCAGTTGGGATCT
GACAAATTTACCTCAGCAAGCTAGGCCACCTTCCAGAAATGGATTTGGATGAATTTGGAATCACCAACT
CACACTCCCCAAAAGAGTGGCATTGAGCACTTGTTTAACCTGACTCTGACTTACCGCCGTGATTCAGATA
TCCAAGTGCCTTATGGCTTCTTGACGGTAAGCACAAATCCCTTCGTGTTGAAGTGCCAAGCAAAGAGAA
ATTGGTGTGCTGGGTTGTGAGTAACTGGAACCTGAGCATGCCAGAGTCAAGTATTACAATGAGCTAAGC
AAAAGCATTGAAATCCATACCTACGGGCAAGCATTGGAGAATATGTCAATGATAAAAATTTGATTCCTA
CCATATCTGCTTGTAATTTTATCTTTCTTTGAAAATTAATCCACAAGGATTACATCACGGAAAAGCT
ATACAATGCTTTTCTGGCTGGCTCTGTACCTGTGTCTGGGACCATCTAGGGAAAATATGAGAATTAT
ATTCAGCAGATTCATTCATTGATGTGGAAGATTATAACTCTCCAGTGAGCTAGCAAAGTATCTGAAGG
AAGTCGACAAAAACAATAAGTTATACCTTAGTTACTTTAACTGGAGGAAGGATTTCACTGTAAATCTTCC
ACGATTTTGGGAATCACATGCATGTTTGGCTTGCATCATGTGAAAAGGCATCAAGAATATAAGTCTGTT
GGTAATTTAGAGAAATGGTTTTGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC206322 protein sequence
 Red=Cloning site Green=Tags(s)

MTSTSKGILRPFLIVCIIILGCFMACLLIYIKPTNSWIFSPMESASSVLKMKNFFSTKTDYFNETTILVWV
 WPFQGTFDLTSCQAMFNIQGCHLTTDRSLYNKSHAVLIHHRDISWDLTNLPQARPPFQKWIWMNLESPT
 HTPQKSGIEHLFNLTLTYRRSDIQVPYGFLLTVSTNPFVFEVPSKEKLCVWVSNWNPEHARVKYNELS
 KSIEIHTYQAFGEYVNDKNLIPTISACKFYLSFENSIHKDYITEKLYNAFLAGSVPVVLGPSRENYENY
 IPADSFIVHVEDYNPSSELAAYLKEVDKNNKLYLSYFNWRKDFTVNLPFRWFESHACLACDHVKRHHQYKSV
 GNLEKWFVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6041_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_006581

ORF Size: 1077 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006581.4](#)

RefSeq Size: 12815 bp

RefSeq ORF: 1080 bp

Locus ID: 10690

UniProt ID: [Q9Y231](#)

Cytogenetics: 6q16.1

Domains: Glyco_transf_10

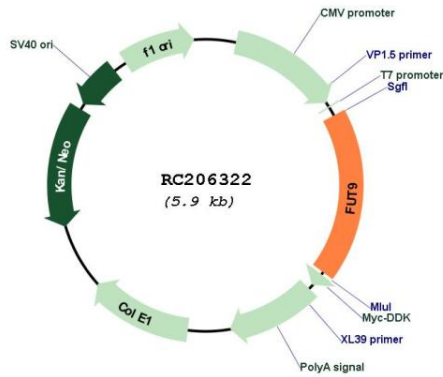
Protein Families: Transmembrane

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

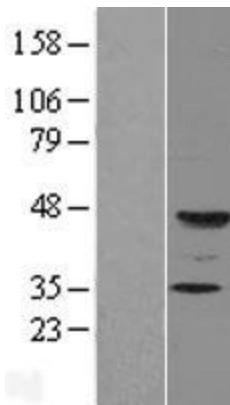
MW: 42 kDa

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]

Product images:



Circular map for RC206322



Western blot validation of overexpression lysate (Cat# [LY401969]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206322 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).