

Product datasheet for **RG206322**

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:	TurboGFP
Symbol:	Fuc-TIX
Synonyms:	Fuc-TIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206322 representing NM_006581 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACATCAACATCCAAAGGAATCTTCGCCCATTTTTGATTGTCTGCATTATCCTGGGCTGTTTCATGG
CATGTCTTCTCATTTACATCAAACCTACCAACAGCTGGATCTTCAGTCCAATGGAATCAGCCAGCTCTGT
GCTGAAAATGAAAACCTCTTTCCACCAAACTGATTATTTAATGAACTACTATTCTGGTGTGGGTG
TGGCCATTTGGGCAGACCTTTGACCTTACATCCTGCCAAGCAATGTTCAACATCCAAGGATGCCATCTCA
CAACGGACCGTTCACTGTACAACAAATCCCATGCAGTTCTGATCCATCACCGAGACATCAGTTGGGATCT
GACAAATTTACCTCAGCAAGCTAGGCCACCTTCCAGAAATGGATTTGGATGAATTTGGAATCACCAACT
CACACTCCCCAAAAGAGTGGCATTGAGCACTTGTTTAACCTGACTCTGACTTACCGCCGTGATTCAGATA
TCCAAGTGCCTTATGGCTTCTTGACGGTAAGCACAAATCCCTTCGTGTTGAAGTGCCAAGCAAAGAGAA
ATTGGTGTGCTGGGTTGTGAGTAACTGGAACCTGAGCATGCCAGAGTCAAGTATTACAATGAGCTAAGC
AAAAGCATTGAAATCCATACCTACGGGCAAGCATTGGAGAATATGTCAATGATAAAAAATTTGATTCCTA
CCATATCTGCTTGTAATTTTATCTTTCCTTTGAAAATTAATCCACAAGGATTACATCACGGAAAAGCT
ATACAATGCTTTTCTGGCTGGCTCTGTACCTGTGTTCTGGGACCATCTAGGAAAATATGAGAATTAT
ATTCAGCAGATTCATTCATTGATGGAAGATTATAACTCTCCAGTGAAGTATGAAATCTGAAAGG
AAGTCGACAAAAACAATAAGTTATACCTTAGTTACTTTAACTGGAGGAAGGATTTCACTGTAAATCTTCC
ACGATTTTGGGAATCACATGCATGTTTGGCTTGCATCATGTGAAAAGGCATCAAGAATATAAGTCTGTT
GGTAATTTAGAGAAATGGTTTTGGAAT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206322 representing NM_006581
 Red=Cloning site Green=Tags(s)

MTSTSKGILRPFLIVCIIILGCFMACLLIYIKPTNSWIFSPMESASSVLKMKNFFSTKTDYFNETTILVWV
 WPFQGTFDLTSCQAMFNIQGCHLTTDRSLYNKSHAVLIHHRDISWDLTNLPQARPPFQKWIWMNLESPT
 HTPQKSGIEHLFNLTLTYRRSDIQVPYGFLLTVSTNPFVFEVPSKEKLCVWVSNWNPEHARVKYNNELS
 KSIEIHTYQAFGEYVNDKNLIPTISACKFYLSFENSIHKDYITEKLYNAFLAGSVVVLGPSRENYENY
 IPADSFIVHVEDYNPSSELA KYLKEVDKNNKLYLSYFNWRKDFTVNLPWFESHACLADHVKRHQEYKSV
 GNLEKWFVN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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_006581.2](#), [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]

Product images:



Circular map for RG206322