

Product datasheet for **RC224551**

FUT3 (NM_001097640) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT3 (NM_001097640) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FUT3
Synonyms:	CD174; FT3B; FucT-III; LE; Les
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224551 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCCTGGGTGCAGCCAAGCCACAATGGCCATGGCGCCGCTGTCTGGCCGCACTGCTATTTTCAGC
TGCTGGTGGCTGTGTGTTTCTTCTCCTACCTGCGTGTGTCCCGAGACGATGCCACTGGATCCCCTAGGGC
TCCAGTGGGTCTCCCGACAGGACACCACTCCCACCCGCCACCCCTCTGATCCTGCTATGGACATGG
CCTTTCCACATCCCTGTGGCTCTGTCCCGCTGTTCCAGAGATGGTCCCGGCACAGCCGACTGCCACATCA
CTGCCGACGCAAGGTGTACCCACAGGCAGACACGGTCATCGTGCACCACTGGGATATCATGTCCAACCC
TAAGTCACGCCTCCCACCTTCCCGAGGCCGACAGGGCAGCGCTGGATCTGGTTCAACTGGAGCCACCC
CCTAACTGCCAGCACCTGGAAGCCCTGGACAGATACTTCAATCTCACCATGTCCTACCGCAGCGACTCCG
ACATCTTACGCCTACGGCTGGCTGGAGCCGTGGTCCGGCCAGCCTGCCACCCACCGCTCAACCTCTC
GGCCAAGACCGAGCTGGTGGCCTGGGCGGTGTCCAAGTGGAGCCGGACTCAGCCAGGGTGGCTACTAC
CAGAGCCTGCAGGCTCATCTCAAGGTGGACGTGTACGGACGCTCCCAAGCCCTGCCAAGGGGACCA
TGATGGAGACGCTGTCCCGGTACAAGTTCTACCTGGCCTTCGAGAAGTCTTGCACCCCGACTACATCAC
CGAGAAGCTGTGGAGGAACGCCCTGGAGCCCTGGGCCGTGCCCGTGGTGTGGCCCCAGCAGAAGCAAC
TACGAGAGTTCTGCCACCCGACGCTTCCACAGTGGACACTCCAGAGCCCAAGGACCTGGCCC
GGTACCTGCAGGAGCTGGACAAGGACCAGCCCGCTACCTGAGCTACTTTCGCTGGCGGGAGACGCTGCG
GCCTCGCTCCTTACGCTGGGCACTGGATTTCTGCAAGGCCTGCTGGAACTGCAGCAGGAATCCAGGTAC
CAGACGGTGCAGCATAGCGGCTTGGTTACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC224551 protein sequence
Red=Cloning site Green=Tags(s)

MDPLGAAKPQWPWRRCLAALLFQLLVAVCFSSYLRSRDDATGSPRAPSGSSRQDTTPTRPTLLILLWTW
 PFHIPVALSRCSEMPGTADCHITADRKYVPQADTVIVHHDIMSNPKSRLPPSPRPQGQRWIWFNLEPP
 PNCQHLEALDRYFNL TMSYRSDSDIFTPYGWLEPWSGQPAHPPLNLSAKTELVAWAVSNWKPDSARVRY
 QSLQAHLKVDVYGRSHKPLPKGTMETLSRYKFYLAFENSLHPDYITEKLWRNALEAWAVPVVLGPSRSN
 YERFLPPDAFIHVDDFQSPKDLARYLQELDKDHARYLSYFRWRETLRPRSFSWALDFCKACWKLQQESRY
 QTVRSIAAWFT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6378_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001097640

ORF Size: 1083 bp

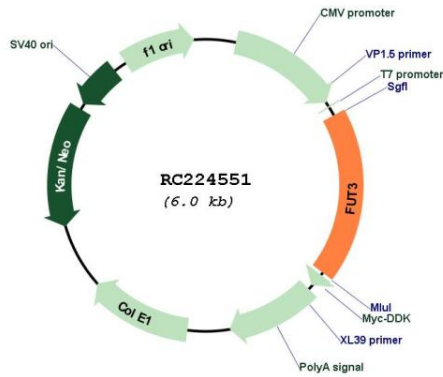
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

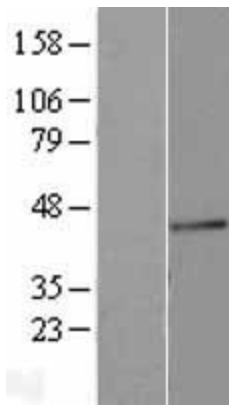
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">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_001097640.3
RefSeq Size:	2205 bp
RefSeq ORF:	1086 bp
Locus ID:	2525
UniProt ID:	P21217
Cytogenetics:	19p13.3
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
MW:	42.1 kDa
Gene Summary:	<p>The Lewis histo-blood group system comprises a set of fucosylated glycosphingolipids that are synthesized by exocrine epithelial cells and circulate in body fluids. The glycosphingolipids function in embryogenesis, tissue differentiation, tumor metastasis, inflammation, and bacterial adhesion. They are secondarily absorbed to red blood cells giving rise to their Lewis phenotype. This gene is a member of the fucosyltransferase family, which catalyzes the addition of fucose to precursor polysaccharides in the last step of Lewis antigen biosynthesis. It encodes an enzyme with alpha(1,3)-fucosyltransferase and alpha(1,4)-fucosyltransferase activities. Mutations in this gene are responsible for the majority of Lewis antigen-negative phenotypes. Differences in the expression of this gene are associated with host susceptibility to viral infection. [provided by RefSeq, Aug 2020]</p>

Product images:



Circular map for RC224551



Western blot validation of overexpression lysate (Cat# [LY420415]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC224601] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).