

Product datasheet for **RG215040**

FUT3 (NM_001097639) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FUT3 (NM_001097639) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FUT3
Synonyms:	CD174; FT3B; FucT-III; LE; Les
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215040 representing NM_001097639 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCCTGGGTGCAGCCAAGCCACAATGGCCATGGCGCGCTGTCTGGCCGACTGCTATTTTCAGC
TGCTGGTGGCTGTGTGTTTCTTCTCCTACCTGCGTGTGTCCCGAGACGATGCCACTGGATCCCTAGGGC
TCCAGTGGTCTCTCCGACAGGACACCCTCCACCCGCCCCACCCTCCTGATCCTGCTATGGACATGG
CCTTTCCACATCCCTGTGGCTCTGTCCCGCTGTTCCAGAGATGGTCCCGGCACAGCCGACTGCCACATCA
CTGCCGACGCAAGGTGTACCCACAGGCAGACACGGTTCATCGTGCACCACTGGGATATCATGTCCAACCC
TAAGTCACGCCTCCACCTTCCCGAGGCCGAGGGCAGCGCTGGATCTGGTTCAACTGGAGCCACCC
CCTAACTGCCAGCACCTGGAAGCCCTGGACAGATACTTCAATCTCACCATGTCCTACCGCAGCGACTCCG
ACATCTTACGCCTACGGCTGGCTGGAGCCGTGGTCCGGCCAGCCTGCCACCCACCGCTCAACCTCTC
GGCCAAGACCGAGCTGGTGGCCTGGGCGGTGTCCAAGTGGAGCCGACTCAGCCAGGGTGCCTACTAC
CAGAGCCTGCAGGCTCATCTCAAGGTGGACGTGTACGGACGCTCCCAAGCCCTGCCAAGGGGACCA
TGATGGAGACGCTGTCCCGGTACAAGTCTACCTGGCCTTCGAGAAGTCTTGCACCCCGACTACATCAC
CGAGAAGCTGTGGAGGAACGCCCTGGAGCCCTGGGCGGTGCCCGTGGTGTGGCCCCAGCAGAAGCAAC
TACGAGAGTTCTGCCACCCGACGCTTCCATCCACGTGGACGACTCCAGAGCCCAAGGACCTGGCCC
GGTACCTGCAGGAGCTGGACAAGGACCAGCCCGCTACCTGAGCTACTTTCGCTGGCGGGAGACGCTGCG
GCCTCGCTCCTTACGCTGGGCACTGGATTTCTGCAAGGCCTGCTGGAACTGCAGCAGGAATCCAGGTAC
CAGACGGTGCAGCATAGCGGCTTGGTTCACC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215040 representing NM_001097639
 Red=Cloning site Green=Tags(s)

MDPLGAAKPQWPWRRCLAALLFQLLVAVCFSSYLRSRDDATGSPRAPSGSSRQDTTPTRPTLLILLWTW
 PFHIPVALSRCSEMPGTADCHITADRKVYPQADTVIVHHWDIMSNPKSRLPPSPRPQGQRWIWFNLEPP
 PNCQHLEALDRYFNL TMSYRSDSDIFTPYGWLEPWSGQPAHPPLNLSAKTELVAWAVSNWKPDSARVRY
 QSLQAHLKVDVYGRSHKPLPKGTMETLSRYKFYLAFENSLHPDYITEKLWRNALEAWAVPVVLGSPRSN
 YERFLPPDAFIHVDDFQSPKDLARYLQELDKDHARYLSYFRWRETLRPRFSWALDFCKACWKLQESRY
 QTVRSIAAWFT

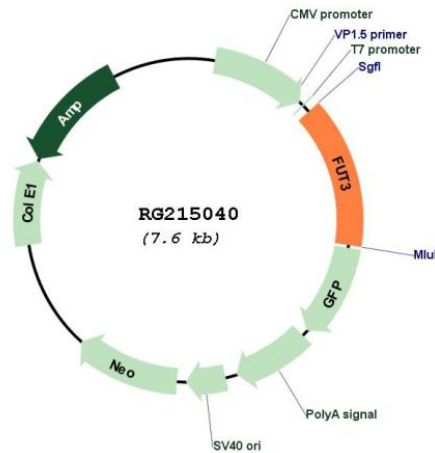
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001097639

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_001097639.3
RefSeq Size:	2259 bp
RefSeq ORF:	1086 bp
Locus ID:	2525
UniProt ID:	P21217
Cytogenetics:	19p13.3
Protein Pathways:	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
Gene Summary:	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]