

## Product datasheet for **RG224601**

### **FUT3 (NM\_001097641) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FUT3 (NM\_001097641) 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:** >RG224601 representing NM\_001097641  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATCCCTGGGTGCAGCCAAGCCACAATGGCCATGGCGCGCTGTCTGGCCGCACTGCTATTTTCAGC  
TGCTGGTGGCTGTGTGTTTCTTCTCCTACCTGCGTGTGTCCGAGACGATGCCACTGGATCCCTAGGGC  
TCCAGTGGTCTCCTCCGACAGGACACCCTCCACCCGCCACCCTCCTGATCCTGCTATGGACATGG  
CCTTTCCACATCCCTGTGGCTCTGTCCCGTGTTCAGAGATGGTCCCGGCACAGCCGACTGCCACATCA  
CTGCCGACGCAAGGTGTACCCACAGGCAGACACGGTCATCGTGCACCACTGGGATATCATGTCCAACCC  
TAAGTCACGCCTCCACCTTCCCGAGGCCGAGGGCAGCGCTGGATCTGGTTCAACTGGAGCCACCC  
CCTAACTGCCAGCACCTGGAAGCCTGGACAGATACTTCAATCTCACCATGTCCTACCGCAGCGACTCCG  
ACATCTTACGCCCTACGGCTGGCTGGAGCCGTGGTCCGGCCAGCCTGCCACCCACCGCTCAACCTCTC  
GGCCAAGACCGAGCTGGTGGCCTGGGCGGTGTCCAAGTGGAGCCGACTCAGCCAGGGTGGCTACTAC  
CAGAGCCTGCAGGCTCATCTCAAGGTGGACGTGTACGGACGCTCCACAAGCCCTGCCAAGGGGACCA  
TGATGGAGACGCTGTCCCGGTACAAGTCTACCTGGCCTTCGAGAAGTCTTGCACCCCGACTACATCAC  
CGAGAAGCTGTGGAGAACGCCCTGGAGCCTGGGCCGTGCCCGTGGTGTGGCCCCAGCAGAAGCAAC  
TACGAGAGTTCTGCCACCCGACGCTTCCATCCACGTGGACACTCCAGAGCCCAAGGACCTGGCCC  
GGTACCTGCAGGAGCTGGACAAGGACCAGCCCGCTACCTGAGCTACTTTCGCTGGCGGGAGACGCTGCG  
GCCTCGCTCCTTACGCTGGGCACTGGATTTCTGCAAGGCCTGCTGGAACTGCAGCAGGAATCCAGGTAC  
CAGACGGTGCAGCATAGCGGCTTGGTTCACC

**ACGGTACCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG224601 representing NM\_001097641  
 Red=Cloning site Green=Tags(s)

MDPLGAAKPQWPWRRCLAALLFQLLVAVCFSSYLRSRDDATGSPRAPSGSSRQDTTPTRPTLLILLWTW  
 PFHIPVALSRCSEMPGTADCHITADRKVYPQADTVIVHHWDIMSNPKSRLPPSPRPQGQRWIWFNLEPP  
 PNCQHLEALDRYFNL TMSYRSDSDIFTPYGWLEPWSGQPAHPPLNL SAKTELVAWAVSNWKPDSARVRY  
 QSLQAHLKVDVYGRSHKPLPKGTMETLSRYKFYLAFENSLHPDYITEKLWRNALEAWAVPVVLGPPSRN  
 YERFLPPDAFIHVDDFQSPKDLARYLQELDKDHARYLSYFRWRETLRPRFSWALDFCKACWKLQESRY  
 QTVRSIAAWFT

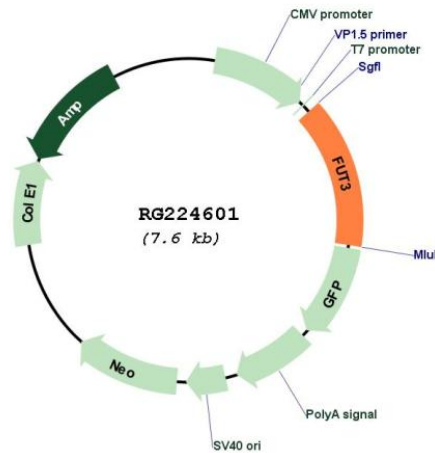
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001097641

<b>ORF Size:</b>	1083 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001097641.3</a>
<b>RefSeq Size:</b>	2066 bp
<b>RefSeq ORF:</b>	1086 bp
<b>Locus ID:</b>	2525
<b>UniProt ID:</b>	<a href="#">P21217</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
<b>Gene Summary:</b>	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]