

## Product datasheet for **RG220969**

### **FT1A (FUT6) (NM\_001040701) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FT1A (FUT6) (NM\_001040701) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FUT6  
**Synonyms:** FCT3A; FT1A; Fuc-TVI; FucT-VI  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG220969 representing NM\_001040701  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATCCCTGGGCCCGCCAAGCCACAGTGGTGGTGGCGTGTCTGACCACGCTGCTGTTTCAGC  
 TGCTGATGGCTGTGTGTTTCTTCTCCTATCTGCGTGTGTCTCAAGACGATCCCACTGTGTACCCTAATGG  
 GTCCCGCTTCCCAGACAGCACAGGGACCCCGCCCACTCCATCCCCTGATCCTGCTGTGGACGTGGCCT  
 TTTAAACAACCCATAGCTCTGCCCGCTGCTCAGAGATGGTGCCTGGCACGGCTGACTGCAACATCACTG  
 CCGACCGCAAGGTGTATCCACAGGCAGACGCGGTATCGTGCACCACCGAGAGGTCATGTACAACCCAG  
 TGCCAGCTCCCAGCTCCCGAGGCGGCAGGGGCGAGCATGGATCTGGTTCAGCATGGAGTCCCAAGC  
 CACTGCTGGCAGCTGAAAGCCATGGACGGATACTCAATCTCACCATGTCTACCGCAGCGACTCCGACA  
 TCTTACGCCCTACGGCTGGCTGGAGCCGTGGTCCGGCCAGCCTGCCACCCACCGCTCAACCTCTCGGC  
 CAAGACCGAGCTGGTGGCCTGGGCGAGTGTCCAAGTGGGGCCAACTCCGCCAGGGTGGCTACTACCG  
 AGCCTGCAGGCCATCTCAAGGTGGACGTGTACGGACGCTCCACAAGCCCTGCCCGAGGAACCATGA  
 TGGAGACGCTGTCCCGTACAAGTTCTATCTGGCCTTCGAGAATCCTTGACCCCGACTACATCACCGA  
 GAAGCTGTGGAGGAACGCCCTGGAGGCTGGCCGTGCCCGTGGTGTGGGCCCCAGCAGAAGCAACTAC  
 GAGAGTTCTGCCACCCGACGCTTCACTCCACGTGGACGACTCCAGAGCCCAAGACCTGGCCCGGT  
 ACCTGCAGGAGCTGGACAAGGACCACGCCGCTACCTGAGTACTTTGCTGGCGGAGACGCTGCGGCC  
 TCGCTCCTTACGCTGGGCACTCGTTTTCTGCAAGGCTGCTGGAAACTGCAGGAGGAATCCAGGTACCAG  
 ACACGCGCATAGCGGCTTGGTTCACC

**ACGGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG220969 representing NM\_001040701  
 Red=Cloning site Green=Tags(s)

MDPLGPAKPQWSWRCLTLLFQLLMAVCFSSYLRSVQDDPTVYPNGSRFPDSTGTGTPAHSIPLILLWTWP  
 FNKPIALPRCSEMVPGTADCNITADRKVYPQADAVIVHHREVMYNPSAQLPRSPRRQGQRWIWFSMESPS  
 HCWQLKAMDGYFNLTMSYRSDSDIFTPYGWLEPWSGQPAHPLNLSAKTELVAWAVSNWGPNSARVRYQ  
 SLQAHLKVDVYGRSHKPLPQGTMMETLSRYKFYLAFENSLHPDYITEKLWRNALEAWAVPVVLGPSRSNY  
 ERFLLPPDAFIHVDDFQSPKDLARYLQELDKDHARYLSYFRWRETLRPRSF SWALAFCKACWKLQEESRYQ  
 TRGIAAWFT

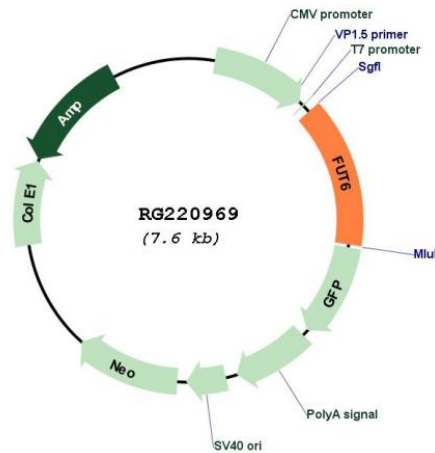
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001040701

<b>ORF Size:</b>	1077 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_001040701.2</a>
<b>RefSeq Size:</b>	3009 bp
<b>RefSeq ORF:</b>	1080 bp
<b>Locus ID:</b>	2528
<b>UniProt ID:</b>	<a href="#">P51993</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Pathways:</b>	Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
<b>Gene Summary:</b>	The protein encoded by this gene is a Golgi stack membrane protein that is involved in the creation of sialyl-Lewis X, an E-selectin ligand. Mutations in this gene are a cause of fucosyltransferase-6 deficiency. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]