

## Product datasheet for **RC215040**

### **FUT3 (NM\_001097639) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FUT3 (NM_001097639) 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:	>RC215040 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCCCTGGGTGCAGCCAAGCCACAATGGCCATGGCGCCGCTGTCTGGCCGCACTGCTATTTACAGC  
TGCTGGTGGCTGTGTGTTTCTTCTCCTACCTGCGTGTGTCCCGAGACGATGCCACTGGATCCCTAGGGC  
TCCAGTGGTCTCCCGACAGGACACCACTCCCACCCGCCACCCCTCTGATCCTGCTATGGACATGG  
CCTTTCCACATCCCTGTGGCTCTGTCCCGTGTTCAGAGATGGTCCCGGCACAGCCGACTGCCACATCA  
CTGCCGACGCAAGGTGTACCCACAGGCAGACACGGTCATCGTGCACCACTGGGATATCATGTCCAACCC  
TAAGTCACGCCTCCACCTTCCCGAGGCCGAGGGGCAGCGCTGGATCTGGTTCACCTGGAGCCACCC  
CCTAACTGCCAGCACCTGGAAGCCCTGGACAGATACTTCAATCTCACCATGTCCTACCGCAGCGACTCCG  
ACATCTTACGCCTACGGCTGGCTGGAGCCGTGGTCCGGCCAGCCTGCCACCCACCGCTCAACCTCTC  
GGCCAAGACCGAGCTGGTGGCTGGGCGGTGTCCAAGTGGAGCCGACTCAGCCAGGGTGCCTACTAC  
CAGAGCCTGCAGGCTCATCTCAAGGTGGACGTGTACGGACGCTCCCAAGCCCTGCCAAGGGGACCA  
TGATGGAGACGCTGTCCCGGTACAAGTTCTACCTGGCCTTCGAGAAGTCTTGCACCCCGACTACATCAC  
CGAGAAGCTGTGGAGGAACGCCCTGGAGCCCTGGCCGTGCCCGTGGTGTGGCCCCAGCAGAAGCAAC  
TACGAGAGTTCTGCCACCCGACGCTTCCACAGTGGACACTCCAGAGCCCAAGGACCTGGCC  
GGTACCTGCAGGAGCTGGACAAGGACCAGCCCGCTACCTGAGCTACTTTCGCTGGCGGGAGACGCTGCG  
GCCTCGCTCCTTACGCTGGGCACTGGATTTCTGCAAGGCCTGCTGGAACTGCAGCAGGAATCCAGGTAC  
CAGACGGTGCAGCATAGCGGCTTGGTTCACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA

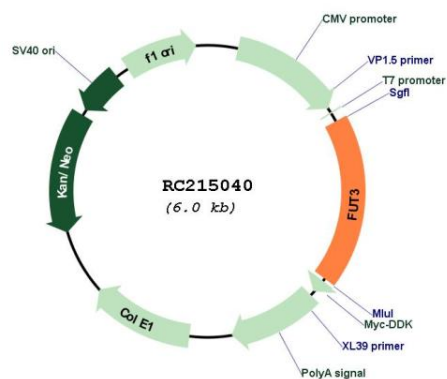


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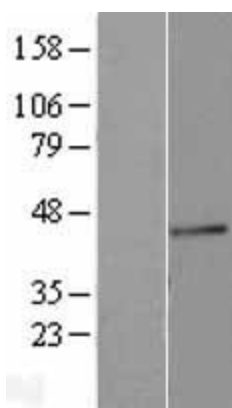


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and 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_001097639.3</a>
<b>RefSeq Size:</b>	2259 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>MW:</b>	42.1 kDa
<b>Gene Summary:</b>	<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 RC215040



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]).