OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG210361

Galactoside 2 alpha L fucosyltransferase 1 (FUT1) (NM_000148) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Galactoside 2 alpha L fucosyltransferase 1 (FUT1) (NM_000148) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Galactoside 2 alpha L fucosyltransferase 1
Synonyms:	H; HH; HSC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG210361 representing NM_000148
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCTCCGGAGCCATCGTCAGCTCTGCCTGGCCTTCCTGCTAGTCTGTGTCCTCTCTGTAATCTTCT
TCCTCCATATCCATCAAGACAGCTTTCCACATGGCCTAGGCCTGTCGATCCTGTGTCCAGACCGCCGCCT
GGTGACACCCCCAGTGGCCATCTTCTGCCTGCCGGGTACTGCGATGGGCCCCAACGCCTCCTCTTCCTGT
CCCCAGCACCCTGCTTCCCTCTCCGGCACCTGGACTGTCTACCCCAATGGCCGGTTTGGTAATCAGATGG
GACAGTATGCCACGCTGCTGGCTCTGGCCCAGCTCAACGGCCGCCGGGCCTTTATCCTGCCTGCCATGCA
TGCCGCCCTGGCCCCGGTATTCCGCATCACCCTGCCCGTGCTGGCCCCAGAAGTGGACAGCCGCACGCCG
TGGCGGGAGCTGCAGCTTCACGACTGGATGTCGGAGGAGTACGCGGACTTGAGAGATCCTTTCCTGAAGC
TCTCTGGCTTCCCCTGCTCTTGGACTTTCTTCCACCATCTCCGGGAACAGATCCGCAGAGAGTTCACCCT
GCACGACCACCTTCGGGAAGAGGCGCAGAGTGTGCTGGGTCAGCTCCGCCTGGGCCGCACAGGGGACCGC
CCGCGCACCTTTGTCGGCGTCCACGTGCGCCGTGGGGACTATCTGCAGGTTATGCCTCAGCGCTGGAAGG
GTGTGGTGGGCGACAGCGCCTACCTCCGGCAGGCCATGGACTGGTTCCGGGCACGGCACGAAGCCCCCGT
TTTCGTGGTCACCAGCAACGGCATGGAGTGGTGTAAAGAAAACATCGACACCTCCCAGGGCGATGTGACG
TTTGCTGGCGATGGACAGGAGGCTACACCGTGGAAAGACTTTGCCCTGCTCACACAGTGCAACCACACCA
TTATGACCATTGGCACCTTCGGCTTCTGGGCTGCCTACCTGGCTGGCGGAGACACTGTCTACCTGGCCAA
CTTCACCCTGCCAGACTCTGAGTTCCTGAAGATCTTTAAGCCGGAGGCGGCCTTCCTGCCCGAGTGGGTG
GGCATTAATGCAGACTTGTCTCCACTCTGGACATTGGCTAAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

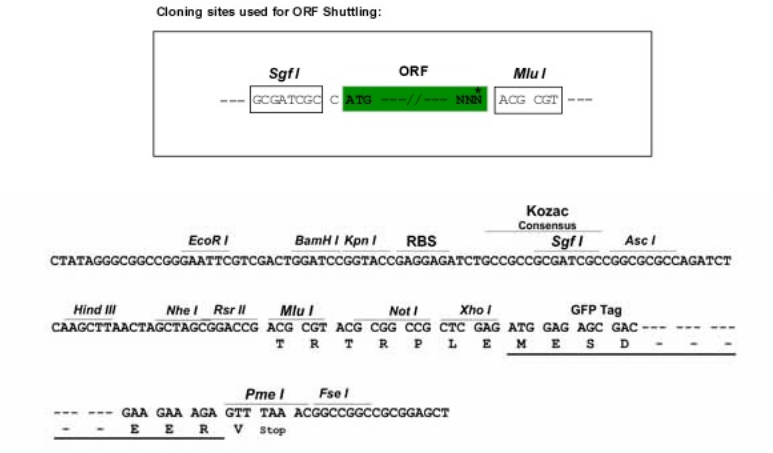
>RG210361 representing NM_000148
Red=Cloning site Green=Tags(s)

MWLRSHRQLCLAFLLVCVLSVIFFLHIHQDSFPHGLGLSILCPDRRLVTPPVAIFCLPGTAMGPNASSSC
PQHPASLSGTWTVYPNGRFGNQMGQYATLLALAQLNGRRAFILPAMHAALAPVFRITLPVLAPEVDSRTP
WRELQLHDWMSEEYADLRDPFLKLSGFPCSWTFFHHLREQIRREFTLHDHLREEAQSVLGQLRLGRTGDR
PRTFVGVHVRRGDYLQVMPQRWKGVVGDSAYLRQAMDWFRARHEAPVFVVTSNGMEWCKENIDTSQGDVT
FAGDGQEATPWKDFALLTQCNHTIMTIGTFGFWAAYLAGGDTVYLANFTLPDSEFLKIFKPEAAFLPEWV
GINADLSPLWTLAKP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000148

ORF Size: 1095 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: 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_000148.4

RefSeq Size: 4244 bp

RefSeq ORF: 1098 bp

Locus ID: 2523

UniProt ID: P19526

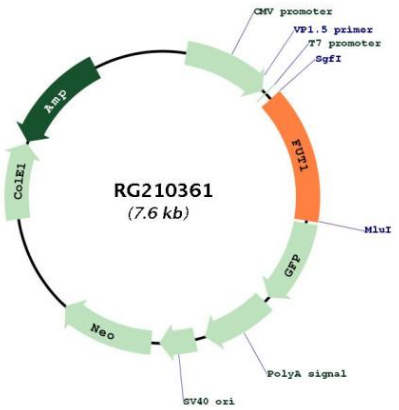
Cytogenetics: 19q13.33

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

Gene Summary: This gene encodes a Golgi stack membrane protein that is involved in the creation of a precursor of the H antigen, which is required for the final step in the synthesis of soluble A and B antigens. This is one of two genes encoding the galactoside 2-L-fucosyltransferase enzyme. Mutations in this gene are a cause of the H-Bombay blood group. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG210361