

Product datasheet for **RG221939**

C1GALT1 (NM_020156) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1GALT1 (NM_020156) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C1GALT1
Synonyms:	C1GALT; T-synthase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221939 representing NM_020156 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCTAAATCCTGGCTGAATTTTTAACCTCCTCTGTGGATCAGCAATAGGATTTCTTTATGTT
CTCAGCTATTTAGTATTTTGTGGGAGAAAAGTTGACACCCAGCCTAATGTTCTTCATAATGATCCTCA
TGCAAGGCATTCAGATGATAATGGACAGAATCATCTAGAAGGACAAATGAACTTCAATGCAGATTCTAGC
CAACATAAAGATGAGAACACAGACATTGCTGAAAACCTCTATCAGAAAGTTAGAATCTTTGCTGGGTTA
TGACCGGCCCTCAAACCTAGAGAAAAAGGCCAAACACGTCAAAGCTACTGGGCCAGCGTTGTAACAA
AGTGTGTTTATGAGTTCAGAAGAAAATAAAGACTTCCCTGCTGTGGGACTGAAAACCAAAGAAGGCAGA
GATCAACTATACTGGAACAATTAAGCTTTTCAGTATGTTTCATGAACATTATTTAGAAGATGCTGATT
GGTTTTGAAAGCAGATGATGACACGTATGTCATACTAGACAATTTGAGGTGGCTTCTTTCAAATACGA
CCCTGAAGAACCATTTACTTTGGGAGAAGATTAAGCCTTATGTAAGCAGGGCTACATGAGTGGAGGA
GCAGGATATGACTAAGCAAAGAAGCCTTGAAGATTTGTTGATGCATTTAAAACAGACAAGTGTACAC
ATAGTTCCTCCATTGAAGACTTAGCACTGGGGAGATGCATGGAATATGAATGTAGAAGCAGGAGATTC
CAGAGATACCATTGGAAGAAACTTTTCATCCCTTTGTGCCAGAACACCATTTAATTAAGGTTATCTA
CCTAGAACGTTTTGGTACTGGAATTACAACCTATTATCCTCCTGTAGAGGGTCTGGTGTCTGCTGTGATC
TTGCAGTTTCTTTCACTATGTTGATTCTACAACCATGTATGAGTTAGAATACCTCGTTTATCATCTTCG
TCCATATGGTTATTTATACAGATATCAACCTACCTACCTGAACGTATACTAAAGGAAATTAGTCAAGCA
AACAAAAATGAAGATACAAAAGTGAAGTTAGGAAATCCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221939 representing NM_020156
 Red=Cloning site Green=Tags(s)

MASKSWLNFLTFLCGSAIGFLLCSQLFSILLGEKVDTQPNVLHNDPHARHSDDNGQNHLEGQMNFNADSS
 QHKDENTDIAENLYQKVRILCWVMTGPQNLKAKHVKATWAQRCNKVLFMSSEENKDFPAVGLKTKEGR
 DQLYWKTIKAFQYVHEHYLEDADWFLKADDDTYVILDNLRWLLSKYDPEEPIYFGRRFKPYVKQGYMSGG
 AGYVLSKEALKRFVDAFKTDKCTHSSSIEDLALGRCMEIMNVEAGDSRDTIGKETFHFPVPEHHLIKGYL
 PRTFWYWNYNYPVPEVPGCCSDLAVSFHYVDSTMYELEYLVYHLRPYGYLYRYQPTLPERILKEISQA
 NKNEEDTKVKLGNP

TRTRPLE - GFP Tag - V

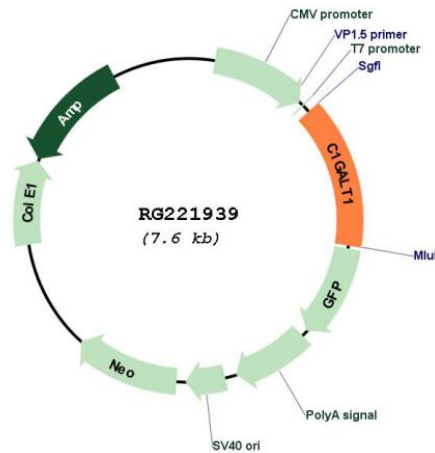
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_020156

ORF Size:	1089 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_020156.5
RefSeq Size:	1794 bp
RefSeq ORF:	1092 bp
Locus ID:	56913
UniProt ID:	Q9NS00
Cytogenetics:	7p22.1-p21.3
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, O-Glycan biosynthesis
Gene Summary:	<p>The protein encoded by this gene generates the common core 1 O-glycan structure, Gal-beta-1-3GalNAc-R, by the transfer of Gal from UDP-Gal to GalNAc-alpha-1-R. Core 1 is a precursor for many extended mucin-type O-glycans on cell surface and secreted glycoproteins. Studies in mice suggest that this gene plays a key role in thrombopoiesis and kidney homeostasis. [provided by RefSeq, Sep 2010]</p>