

Product datasheet for **RG237364**

B3GALT5 (NM_001278650) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GALT5 (NM_001278650) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	B3GALT5
Synonyms:	3-GalTase 5; B3GalT-V; B3GalTx; B3T5; beta-1; beta-3-Gx-T5; beta3Gal-T5; GLCT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237364 representing NM_001278650. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCTTCCCGAAGATGAGATTGATGTATATTTGCCTTCTGGTTCTGGGGCTCTTTGTTGTATTTT
AGCATGTACAGTCTAAATCCTTTCAAAGAACAGTCCTTTGTTTACAAGAAAGACGGGAATTCCTTAAG
CTCCCAGATACAGACTGCAGGCAGACACCTCCCTTCTCGTCCTGCTGGTGACCTCATCCACAACAG
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CACGGGGACATTATCCAGAAGGATTTCTAGACGTCTATTACAATCTGACCCTGAAGACCATGATGGGC
ATAGAATGGGTCCATCGCTTTTGTCTCAGGCGCGTTTGTGATGAAAACAGACTCAGACATGTTATC
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AATGTCTCAAGAGCGTCCCATACATTA AACTGGAAGACGTGTTTGTGGGGCTCTGCCTCGAAAGGCTG
AACATCAGATTGGAGGAGCTCCACTCCCAGCCGACCTTTTTTCCAGGGGGCTTACGCTTCTCCGTATGC
CTCTTCAGGAGGATCGTGGCCTGCCACTCATCAAGCCTCGACTCTCTTGACTACTGGCAGGCTCTA
GAGAATCCCGGGGGAAGATTGTCCGCTGTC
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237364
 Blue=ORF Red=Cloning site Green=Tag(s)

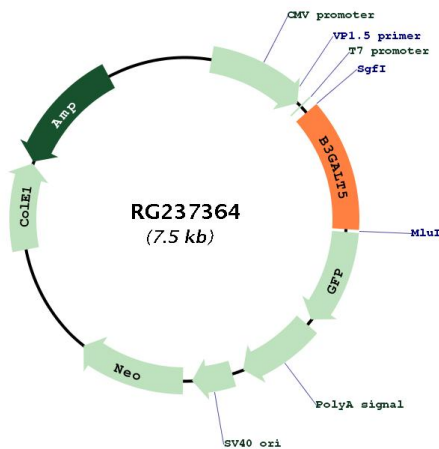
MAFPKMRLMYICLLVLGALCLYFSMYSLNPFKEQSFVYKKGDNFLKLPDTCRQTPPFLVLLVTSSHKQ
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 IEWVHRFCQAAFVTKTSDMFINVLYL TELLKKNRTTRFFTGFLKLNFFIRQPFKWFVSKSEYPW
 DRYPPFCSGTGYVFGSDVASQVYVNSKSVPIKLEDFVGLCLERLNIRLEELHSQPTFFPGGLRF SVC
 LFRRIVACHFIKPRLLDYWQALENSRGEDCPPV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278650

ORF Size:	930 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).
RefSeq:	NM_001278650.1 , NP_001265579.1
RefSeq Size:	2634 bp
RefSeq ORF:	933 bp
Locus ID:	10317
UniProt ID:	Q9Y2C3
Cytogenetics:	21q22.2
Protein Families:	Transmembrane
Protein Pathways:	Glycosphingolipid biosynthesis - globo series, Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways
MW:	36.2 kDa
Gene Summary:	This gene encodes a member of a family of membrane-bound glycoproteins. The encoded protein may synthesize type 1 Lewis antigens, which are elevated in gastrointestinal and pancreatic cancers. Alternatively spliced transcript variants using multiple alternate promoters have been observed for this gene. [provided by RefSeq, Sep 2017]