

Product datasheet for **RG205418**

GALNTL5 (NM_145292) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GALNTL5 (NM_145292) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GALNTL5
Synonyms:	GalNAc-T5L; GALNACT19; GALNT15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205418 representing NM_145292 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAATGCCATAATTCAAGGTTTATTCTATGGGTCCTTGACATTTGGGATCTGGACAGCTCTGTTAT
TCATATATTTGCACCATAATCATGTGAGCAGCTGGCAGAAGAAAAGCCAGGAGCCTCTGTCAGCTTGGTC
CCCTGGAAAAAAGTGCATCAGCAAATTATCTATGGCTCAGAGCAAATACCAAACCTCATGTAATAGTC
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TGCTTCTATAATGAAGAATGTAATGCCTTGTTTCAGACCATGTCCAGTGTACGAACTCACGCCCACT
ATTTTCTTGAAGAAATATTTTGGTAGATGACATGAGCAAAGTTGATGATTTGAAAGAAAACTAGACTA
TCACCTGGAAACTTTTCGGGAAAGGTTAAAAATAAGAAACAAAAAGAGAGAGGGGCTGATTCGAGCA
AGGCTGATTGGAGCTTCTCATGCTTCAGGGGATGTTCTGGTGTTCCTGGACAGCCACTGTGAGGTGAACA
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TGTCATTGATGATAGAAGTCTGGAGTATAAGCCCTCTCCTCTTGAAGGGAACTTTTGATTGGAACCTA
CAATTTAAATGGGATAATGTTTTCTTATGAGATGGATGGACCAGAAGGATCTACTAAACCAATCCGGT
CACCTGCAATGTCTGGAGGAATTTTGGCTATACGTCGGCATTATTTTAAAGAAATGGACAGTATGACAA
GGATATGGATTTTGGGGAAGAGAAAATTTGGAACCTTCACTAAGGATCTGGATGTGTGGAGGCCAACTC
TTTATAATCCCCTGCTCTCGAGTAGGACATATCAGTAAGAAACAACTGGAAAACCTTCTACAATCATCA
GTGCTATGACACATAACTACCTAAGACTGGTGCACGTTTGGCTGGATGAATATAAGGAGCAGTTTTTCT
TCGAAAGCCTGGTCTGAAATATGCACCTACGGAAATATTCGCGAGCGTGTGAGTTAAGGAAACGACTG
GGTTGCAAGTCATTTAGTGGTATTTGGATAATGTCTCCAGAGTTGGAGGCATCTGTGAACAGCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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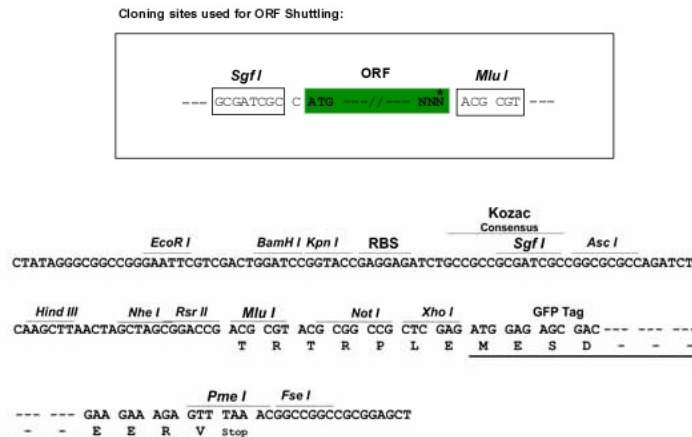
Protein Sequence: >RG205418 representing NM_145292
Red=Cloning site Green=Tags(s)

MRNAIIQGLFYGSLTFGIWTALLFIYLHHNHVSSWQKKSQEPLSAWSPGKKVHQQIIYGSEQIPKPHVIV
 KRTDEDKAKSMLGTFNHTNPPELHKELLKYGFNVIIISRLGIEREVPDTRSKMRLQKHYPARLPTASIVI
 CFYNEECNALFQTMSSVTNLTPHYFLEEIILVDDMSKVDDLKEKLDYHLETFRGKVKIIRNKKREGLIRA
 RLIGASHASGDVLFVLDHSHCEVNRVWLEPLLHAIKDPKMVVCPLIDVIDDRTLEYKPSPLVRGTFDWNL
 QFKWDNVFSYEMDGPSTKPIRSPAMSGGIFAIRRHVFNEIGQYDKDMDFWGRENLELSLRIWMCQGQL
 F.IIPCSRVGHIKSKQTGKPTIISAMTHNYLRLVHWLDEYKEQFFLRKPLKYVYGNIRERVELRKRL
 GCKSFQWYLDNVFPELEASVNSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145292

ORF Size: 1329 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_145292.2](#), [NP_660335.1](#)

RefSeq Size: 1696 bp

RefSeq ORF: 1332 bp

Locus ID: 168391

UniProt ID: [Q7Z4T8](#)

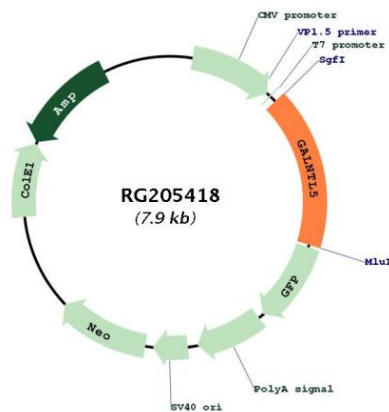
Cytogenetics: 7q36.1

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, O-Glycan biosynthesis

Gene Summary: Probable inactive glycosyltransferase required during spermatid development. May participate in protein loading into the acrosomes and accumulation of ubiquitin-proteasome systems around the head-tail coupling apparatus region.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205418