

Product datasheet for **RG234004**

POC1B-GALNT4 (NM_001199782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POC1B-GALNT4 (NM_001199782) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POC1B-GALNT4
Synonyms:	GalNAc-T4; GALNT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG234004 representing NM_001199782 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCTTGGTGTGTGGCCACAGCTGACCCGGCGCATACCTCCCGTCTCTTTACAGGGCTGGCGGTGT
CTCGGGGCTCGGCTGGCCATGCCTGGAGCGCGGGTTTGACTGGGCCGCCGTTGTTGTAGTGACCGGAG
GCGCTGCCGCTCTGGGCAGACGGTTCGGGAGCCGCACGGTCCCTCTCCTTCCCATCTCTCCCTCC
CCTCTCCGGGTTCCCCACCCACAGGAGCCTTGGGCCGACCACTCCCCGATGGCCTCAGCCACGGAGGA
CCCCGTTCTGGAGCGTTATTTCAAAGGCCACAAAGCTGCGATCACCTCCTTGGACCTCAGCCCCAACGGC
AAGCAACTTGGAAAGGGACAGGCGGATATCAAGAATTGACCCCATCAGATCACCTACCATGGCTGGAGGA
CTGTTTGTCTGTCAGCAAGAAATATTTTCAGTACCTTGGACGTATGACACAGGAATGGAAGTGTGGGGAG
GTGAAACCTTGAGCTGTCTTTAGGGTGTGGCAGTGTGGTGGCAAATTGGAGATCCACCCGTGTTCCCA
CGTGGGCCATGTGTTCCCAAGCGGGCACCATATGCTCGCCCCAATTTCTACAGAATACTGCTCGGGCA
GCAGAAGTTTGGATGGATGAATACAAAGAGCACTTCTACAATAGAAACCTCCAGCAAGAAAAGAAGCTT
ATGGTGATATTTCTGAAAGAAAATTACTACGAGAGCGGTTGAGATGCAAGAGCTTTGACTGGTATTTGAA
AAACGTTTTTCTAATTTACATGTTCCAGAGGATAGACCAGGCTGGCATGGGGCTATTCGAGTAGAGGG
ATCTCGTCTGAATGTTTAGATTATAATTCTCTGACAACAACCCACAGGTGCTAACCTTTCAGTGTGTTG
GATGCCATGGTCAAGGAGGCAATCAATTCTTTGAATATACTTCAAACAAAGAAATAAGGTTTAATTCTGT
GACAGAGTTATGTGCAGAGGTACCTGAGCAAAAAAATTATGTGGGAATGCAAAATTGTCCAAAGATGGG
TTCCCTGTACCAGCAAACATTATTTGGCATTTTAAAGAAGATGGAATATTTTACCCACACTCAGGAC
TGTGTCTAGTGCTTATCGGACACCGGAGGGCCGACCTGATGTACAAATGAGAACTTGTGATGCTCTAGA
TAAAAATCAAATTTGGAGTTTTGAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG234004 representing NM_001199782
 Red=Cloning site Green=Tags(s)

MAWCVATADPAHTSRPLFTGLAVSRGSAGHAWAGFDWAQVAVVVTGRRCRSGQTVPGAARSPLLPHPLPS
 PLRVPPPTGALGRPLRPWPQPRRTPFWSVSKATKLRSPPWTSAPTASNLERDRRISRIDPIRSPTMAGG
 LFAVSKKYFYQLGTYDTGMEVWGGENLELSFRVWQCGGKLEIHPCHVGHVFPKRAPYARPNFLQNTARA
 AEVWMDEYKEHFYNRNPPARKEAYGDISERKLLRERLRCKSFDWYLNKVFNLHVPEDRPGWHGAIRSRG
 ISSECLDYNPDNNPTGANLSLFGCHGQGGNQFFEYTSNKEIRFNSVTELCAEVPEQKNYVGMQNCPKDG
 FFPVANIWHFKEDGTIFHPHSLCLSAVRTPEGRPDVQMRTCDALDKNQIWSFEK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001199782

ORF Size: 1218 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_001199782.1](#), [NP_001186711.1](#)

RefSeq Size: 4740 bp

RefSeq ORF: 1221 bp

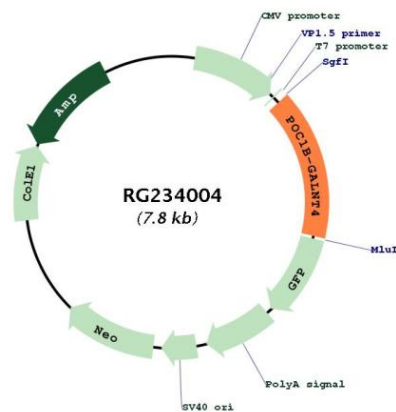
Locus ID: 100528030

UniProt ID: [Q8N4A0](#)

Cytogenetics: 12q21.33

Gene Summary: This locus represents naturally occurring transcripts that splice the 5' exons of the POC1B (POC1 centriolar protein homolog B) gene on chromosome 12 to the GALNT4 (UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4) gene, which is located within a POC1B intron. Alternative splicing results in two transcript variants, one of which encodes a fusion isoform that shares sequence identity with the products of each individual gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG234004