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Product datasheet for RG221256

A4GNT (NM_016161) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A4GNT (NM_016161) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	A4GNT
Synonyms:	alpha4GnT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG221256 representing NM_016161
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGAAGGAGCTCCAGCTCTCCCTGTCAGTCACCTTGCTGCTTGTCTGTGGCTTCCTCTACCAGTTCA
CCCTGAAGTCCAGCTGCCTCTTCTGCTTGCCTTCTTTCAAGTCCCACCAGGGGCTGGAAGCCCTCCTGAG
CCACAGACGTGGCATTGTGTTTCTAGAGACCTCAGAGAGAATGGAGCCACCCCATTTGGTCTCCTGTTCC
GTAGAGTCTGCTGCCAAGATTTATCCTGAGTGGCCTGTGGTGTTCTTTATGAAGGGTCTTACTGATTCCA
CACCGATGCCCTCAAACTCCACATACCCAGCTTTTTCCTTCCTGTCAGCAATAGACAACGTTTTCCTCTT
CCCTTTGGATATGAAAAGGCTGCTTGAAGACACACCATTGTTTTCATGGTACAATCAAATCAACGCCAGC
GCAGAGAGAAACTGGCTCCACATCAGCTCGGATGCATCCCGCCTGGCCATCATCTGGAAATACGGTGGCA
TCTACATGGACACCGATGTCATCTCCATCAGGCCCATCCCTGAGGAGAACTTTTTGGCTGCGCAGGCTTC
TCGGTACTCTAGTAATGGAATATTTGGGTTCCTCCCCCACCACCCCTTTTTGTGGGAATGCATGGAAAAC
TTTGTTGAACACTATAATTCAGACATTTGGGGCAACCAAGGCCCTGAGTTGATGACAAGGATGTTGAGGG
TATGGTGTAAACTTGAAGACTTCCAGGAGGTGAGCGACCTCAGGTGTCTGAACATATCCTTCTTACACCC
CCAAAGATTTTACCCCATCTCCTATCGAGAGTGGAGGCGCTACTATGAAGTGTGGGATACAGAGCCAAGC
TTCAATGTCTCTTATGCCCTGCATTTGTGGAACCACATGAACCAGGAGGGGCGGGCTGTGATTAGAGGAA
GCAACACACTGGTGGAAAATCTCTATCGCAAGCACTGTCCCAGGACTTACAGGGACCTGATTAAAGGCCC
AGAGGGGTCAGTGACTGGGGAGCTGGGTCCAGGTAACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

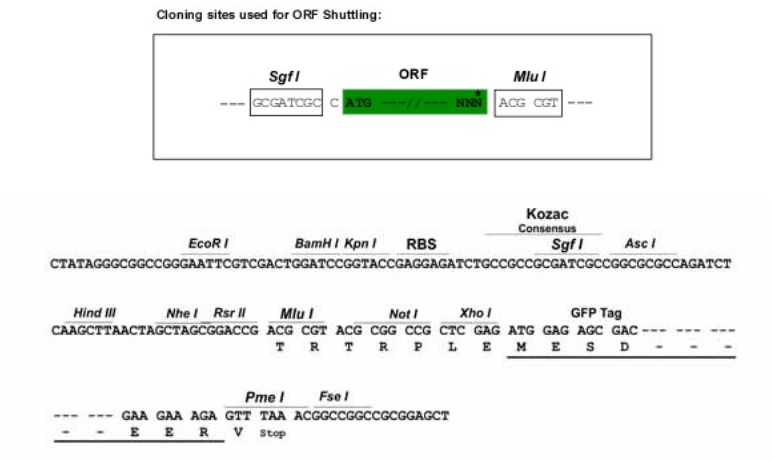
>RG221256 representing NM_016161
Red=Cloning site Green=Tags(s)

MRKELQLSLSVTLLLVCGFLYQFTLKSSCLFCLPSFKSHQGLEALLSHRRGIVFLETSERMEPPHLVSCS
VESAAKIYPEWPVVFFMKGLTDSTPMPSNSTYPAFSFLSAIDNVFLFPLDMKRLLEDTPLFSWYNQINAS
AERNWLHISSDASRLAIIWKYGGIYMDTDVISIRPIPEENFLAAQASRYSSNGIFGFLPHHPFLWECMEN
FVEHYNSDIWGNQGPELMTRMLRVWCKLEDFQEVSDLRCLNISFLHPQRFYPISYREWRRYYEVWDTEPS
FNVSYALHLWNHMNQEGRAVIRGSNTLVENLYRKHCPRTYRDLIKGPEGSVTGELGPGNK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016161

ORF Size: 1020 bp

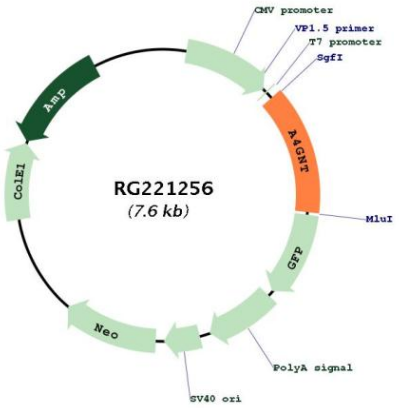
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_016161.1, NP_057245.1
RefSeq Size:	1292 bp
RefSeq ORF:	1023 bp
Locus ID:	51146
UniProt ID:	Q9UNA3
Cytogenetics:	3q22.3
Protein Families:	Transmembrane
Gene Summary:	This gene encodes a protein from the glycosyltransferase 32 family. The enzyme catalyzes the transfer of N-acetylglucosamine (GlcNAc) to core 2 branched O-glycans. It forms a unique glycan, GlcNAcalpha1-->4Galbeta-->R and is largely associated with the Golgi apparatus membrane. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221256