

Product datasheet for **MG223745**

Gcnt1 (NM_010265) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt1 (NM_010265) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcnt1
Synonyms:	5630400D21Rik; B130048E03; C2 GlcNAcT; C2GNT; IGnT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223745 representing NM_010265 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGAACTGTTTCGGAGGAGACTTTTCTCTTGTCTACAAAATACTACTTTATGCTCCTTGTC
TCTCTTTAATTACCTTCTCTGTTTTAAGAATTCATCAGAAGCCTGAATTTTTAGTGTGACAGACCTGGA
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TAAACATGACCCGTGACTGTGCCTTTTTCATCAGGACACGAAAATATTTGTGGAGCCCTTACTAAAGA
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GAGTCCACGTGCGCTCTGTGCGTCTTCGGAGCTGGTACTTGAGCTGGATGCTGCGCCAAACACCT
TTTTGCCAATAAGTTTGACATGGATGTCGACCCCTTTGCCATCCAGTGTGGATGAACATCTGAGGCAT
AAAGCCCTGGAGAACTTAGAACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223745 representing NM_010265
 Red=Cloning site Green=Tags(s)

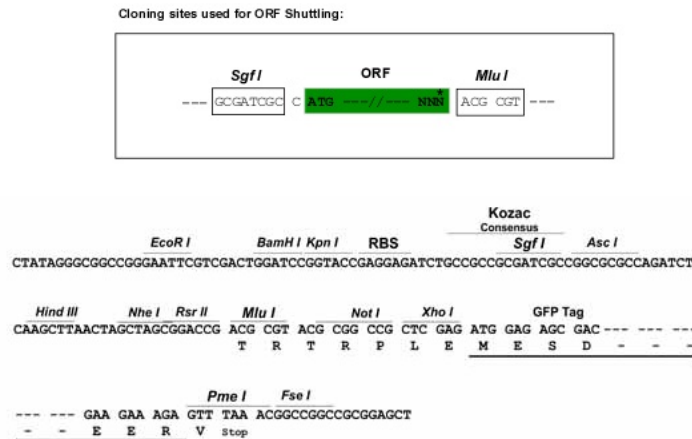
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 QKVKLEILTVQFKRPRRTPHDYINMTRDCASFIRTRKYIVEPLTKEEVGFPIAYSIVVHHKIEMLDRLL
 RAIYMPQNFYCIHVDRKAEESFLAAVQGIASCFDNVVASQLESVVYASWSRVKADLNCMKDLYRMNANW
 KYLINLTCGMDFFIKTNLEIVRKLKSTGENNLETEKMPNKEERWKKRYTVVDGKLTNTGIKAPPLKT
 PLFSGSAYFVVTREYVGVYLENENIQKLEWAQDTYSPDEFWATIQRIPVPGSFPSSNKYDLSMNAI
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 KALENLEH

TRTRPLE - GFP Tag - V

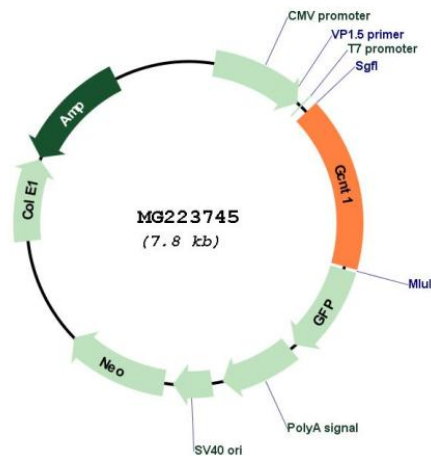
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_010265

ORF Size:	1284 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:	<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_010265.5 , NP_034395.4
RefSeq Size:	4592 bp
RefSeq ORF:	1287 bp
Locus ID:	14537
UniProt ID:	Q09324
Cytogenetics:	19 12.75 cM
Gene Summary:	Glycosyltransferase that catalyzes the transfer of an N-acetylglucosamine moiety onto mucin-type core 1 O-glycan to form the branched mucin-type core 2 O-glycan. Mucin-type core 2 O-glycans play an important role in leukocyte extravasation as they serve as scaffolds for the display of the selectin ligand sialyl Lewis X by leukocytes.[UniProtKB/Swiss-Prot Function]