

Product datasheet for **MG206243**

Gcnt3 (BC018297) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt3 (BC018297) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcnt3
Synonyms:	2010013H22Rik; 2210021I22Rik; 2210401J11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206243 representing BC018297 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCTGGACTCTGAGGAATTTCAAAGCCAGTACTGCAGGGATCTCCTGTACAAGACCCTGAAGCTGC
CAGCCAAGAGTTCATCAACTGCTCAGGGGTATTTCGAGGGGAGCAGAAAGCGGTGACCCAGGCTCTGCT
GAATAACCTGGAATTAAGAAGAAGCAGCAGCTTTCACAGAGGCCGACTACCTTAGGATGACAGCAGAC
TGTGAGCACTTCAAGACCAAGAGGAAGTTTATACAGGTCCCACTGAGCAAGGAAGAGGCCAGCTTCCCA
TTGCGTACTCCATGGTGGTGCATGAGAAGATTGAGAACTTCGAAAGGTTGCTGCGAGCTGTGTACACCCC
TCAGAATGTATACTGTGTCCACATGGATCAGAAGTCTTCAGAACCCTTTAAGCAGGCAGTCAGGGCCATC
GTGTCATGCTTCCCAATGTCTTCATAGCTAGTAAGTTGGTGTGTCAGTGGTCTATGCTTCCCTGGTCCAGGG
TGCAGGCTGACCTAAACTGCATGGAAGACTTGCTTTCAGAGCCCCGTGCCATGAAAATACCTCCTGAACAC
CTGTGGGACAGACTTTCCCATCAAACCAATGCTGAGATGGTCAAGGCCCTCAAGCTATTGAAAGGGCAG
AACAGTATGGAGTCAGAGGTACCACCTCCACATAAAAAATCCCGCTGGAATATCACTATGAGGTGACAG
ACACATTGCACATGACCAGCAAGAGGAAGACGCCGCCACCTAATAACCTAACCATGTTCACTGGGAATGC
CTACATGGTGGCTTCTCGAGACTTCATTGAACACGTGTTCACTAACTCAAAGCCCGCAACTGATCGAG
TGGGTAAGACACCTATAGTCCCGATGAGCACCTTTGGGCCACCCTCCAGCGTCCCTCGTGGATGCCTG
GATCAGATCCCTTGCATCGAAAATTTGACCTGTCAGACATGAGAGCCATTGCGAGACTAACCAAGTGGTA
CGACCATGAGGGAGACATTGAGAACGGGGCACCTTACACGTCTTGCTCAGGAATCCACCAGCGGGGTGTC
TGTGTTTATGGGTGAGGGGACCTGCACTGGATACTTCAGAACCATCACCTCTTGGCCAACAAGTTTGACC
CAAAGGTGGATGATAATGTTCTTCAGTGTTTAGAAGAATTTTACGTCACAAAGCCATCTATGGGACTGA
ACTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206243 representing BC018297
 Red=Cloning site Green=Tags(s)

MDLDSEEFQSQYCRDLLYKTLKLPKASSINCSGIRGEQKAVTQALLNNLEIKKKQLFTEADYLRMTAD
 CEHFKTKRKFIVPLSKEEASFPIAYSMVVHEKIEFERLLRAVYTPQNVYCVHMDQKSSEPFKQAVRAI
 VSCFPNVFIASKLVSVVYASWSRVQADLNCMEDLLQSPVPWKYLLNLCGTDPIKTNAEMV KALKLLKGQ
 NSMESEVPPPHKKSRWKYHYEVDLHMTSKRKTPPPNNLTMFTGNAYMVASRDFIEHVFNSNKARQLIE
 WVKDTYSPDEHLWATLQRASWMPGSDPLHRKFDLSDMRAIARLTKWYDHEGDIENGAPYTS CSGIHQRAV
 CVYSGDLHWILQNHLLANKFDPKVDDNVLQCLEEYLRHKAIYGTTEL

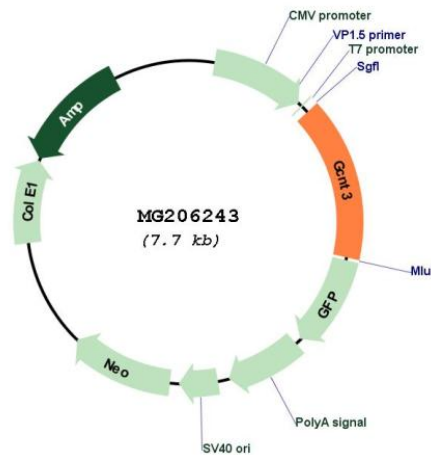
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC018297

ORF Size:	1196 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:	BC018297 , AAH18297
RefSeq Size:	1841 bp
RefSeq ORF:	1196 bp
Locus ID:	72077
Cytogenetics:	9 D
Gene Summary:	Glycosyltransferase that can synthesize all known mucin beta 6 N-acetylglucosaminides. Mediates core 2 and core 4 O-glycan branching, 2 important steps in mucin-type biosynthesis. Has also I-branching enzyme activity by converting linear into branched poly-N-acetyllactosaminoglycans, leading to introduce the blood group I antigen during embryonic development.[UniProtKB/Swiss-Prot Function]