

## Product datasheet for **MG219343**

### Gcnt2 (NM\_008105) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt2 (NM_008105) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gcnt2
Synonyms:	5330430K10Rik; IGnT; IGnTA; IGnTB; IGnTC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219343 representing NM_008105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTCCGTCGCTGCGTTACTTCTTCATAGTGTCTGTGACTACTGTCATCGTTTTTATTGTGCTCTACG  
TGTTAAGTTTTGGAGGAGATCAAAGCTACCAGAAGCTGAACATCTCAGACTCGGTGATGCTGGCTCAAGT  
GTGCTCATCTTTCATCGACGGGAAAAGCCGGTTCCTGTGGAGAAACAACTAATGATTACGAGAAGCCT  
TCTTGACAGAATATGTGACCCAAAGCCACTATATCACTGCCCTTTATCTCAGGAAGAGGTCGATTTTC  
CTTTGGCGTATGTCATGGTCATCCATCACAATTTTGACACCTTTGCAAGGCTCTTCAGGGCAATCTTCAT  
GCCTCAAATATCTACTGTGTTACGTGGATGAAAAGGCAACAGCTGAATTCAAAGGTGCCGTGGAACAG  
TTAGTGAGCTGCTTCCCAATGCCTTTCTGGCTTCTAAGATGGAGCCGGTGGTCTATGGTGAATCTCCC  
GGCTCCAGGCTGACCTGAACTGCATCAAAGACCTGTCCACCTCCGAGGTCCCCTGGAAGTACGCCATCAA  
CACCTGTGGACAAGACTTCCCCCTGAAAACCAACAAGGAGATAGTTACGTACCTGAAAGGGCTTAAGGGG  
AAGAACCTCACTCCCGGGGTGCTGCCTCCAGCCACGCCATTGGAAGGACCAGGTACGTCCACCGGGAAC  
ACCTAAGCAAAGAGCTTTCCTACGTGATCAGAACCACGGCTCTGAAGCCCCACCTCCCCACAACCTCAC  
CATTTATTTGGCTCTGCCTATGTGCCTGTGCGAGAGATTTGCTAACTTTGTTCTCCGTGACCCACGG  
GCGGTTGATTTGCTCCATTGGTCCAAGATACTTCAGTCCCAGTGCATTTCTGGGTGACGCTCAATA  
GGATCCAGGAGTCCCTGGCTCCATGCCACCAACGCATCCTGGACGGGTAACTCAGAGCTGTGAAGTG  
GATGGACATGGAAGCGAAGCATGGAGGCTGCCATGGTCACTACGTCCATGGCATTGTATCTATGAAAAC  
GGAGACTGCAAGTGGCTGATTAATTCGCAAAGCCTGTTTGCTAACAAATTTGAACTCAACACATACCCTC  
TTACCGTGGAAATGCCTGGAAGTGGCTTCGAGAAAGAACAACCTCAACCAGAGTGAGATCGCCATACAGCC  
GAGCTGGTATTTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219343 representing NM\_008105  
Red=Cloning site Green=Tags(s)

MPPSVRYFFIVSVTTIVIVFIVLYVLSFGGDQSYQKLNISDSVMLAQVCSSFIDGKSRFLWRNKLMIHEKP  
 SCTEYVTQSHYITAPLSQEEVDFFLAYVMVIHHNFDTFARLFRAIFMPQNIYCVHVDEKATAEFKGAVEQ  
 LVSCFPNAFLASKMEPVVYGGISRLQADLNCIKDLSTSEVPWKYAINTCGQDFPLKTNKEIVQYLKGLKG  
 KNLTGVLPPAHAIGRTRYVHREHLSKELSYVIRTALKPPPPHNLTIYFGSAYVALSREFANFVLRDPR  
 AVDLLHWSKDTFSPDEHFVWTLNRIIPGVPGSMPPNASWTGNLRAVKWMDMEAKHGGCHGHYVHGICIIYGN  
 GDLQWLINSQSLFANKFELNTYPLTVECLELRLRERTLNQSEIAIQPSWYF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008105

**ORF Size:** 1203 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\\_008105.3](#), [NP\\_032131.2](#)

**RefSeq Size:** 3973 bp

**RefSeq ORF:** 1206 bp

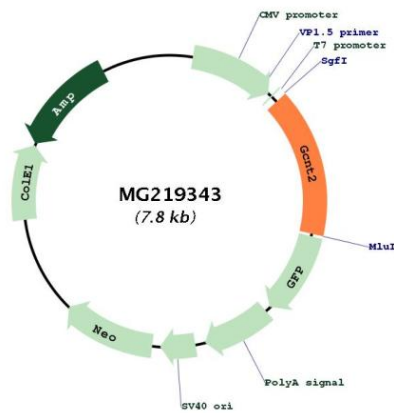
**Locus ID:** 14538

**UniProt ID:** [P97402](#)

**Cytogenetics:** 13 20.12 cM

**Gene Summary:** Branching enzyme that converts linear into branched poly-N-acetylglucosaminoglycans. Introduces the blood group I antigen during embryonic development. It is closely associated with the development and maturation of erythroid cells.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG219343