

Product datasheet for MR219343

Gcnt2 (NM_008105) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt2 (NM_008105) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcnt2
Synonyms:	5330430K10Rik; IGnT; IGnTA; IGnTB; IGnTC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219343 representing NM_008105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCGTCGCGTACTTCTTCATAGTGTCTGTGACTACTGTCATCGTTTTATTGTGCTCTACG
TGTTAAGTTTTGGAGGAGATCAAAGCTACCAGAAGCTGAACATCTCAGACTCGGTGATGCTGGCTCAAGT
GTGCTCATCTTTCATCGACGGGAAAAGCCGGTTCCTGTGGAGAAACAACTAATGATTACAGAGAAGCCT
TCTTGACAGAATATGTGACCCAAAGCCACTATATCACTGCCCTTTATCTCAGGAAGAGGTCGATTTTC
CTTTGGCGTATGTCATGGTCATCCATCACAATTTTGACACCTTTGCAAGGCTCTTCAGGGCAATCTTCAT
GCCTCAAATATCTACTGTGTTACGTGGATGAAAAGGCAACAGCTGAATTCAAAGGTGCCGTGGAACAG
TTAGTGAGCTGCTTCCCAATGCCTTTCTGGCTTCTAAGATGGAGCCGGTGGTCTATGGTGAATCTCCC
GGCTCCAGGCTGACCTGAACTGCATCAAAGACCTGCCACCTCCGAGGTCCCCTGGAAGTACGCCATCAA
CACCTGTGGACAAGACTTCCCCCTGAAAACCAACAAGGAGATAGTTACGTACCTGAAAGGGCTTAAGGGG
AAGAACCTCACTCCCGGGGTGCTGCCTCCAGCCACGCCATTGGAAGGACCAGGTACGTCCACCGGGAAC
ACCTAAGCAAAGAGCTTTCCTACGTGATCAGAACCACGGCTCTGAAGCCCCACCTCCCCACAACCTCAC
CATTTATTTGGCTCTGCCTATGTGCCCTGTCGAGAGAGTTTGCTAACTTTGTTCTCCGTGACCCACGG
GCGGTTGATTTGCTCCATTGGTCCAAGATACTTTCAGTCCCAGTGCATTTCTGGGTGACGCTCAATA
GGATCCAGGAGTCCCTGGCTCCATGCCACCAACGCATCTGGACGGGTAACTCAGAGCTGTGAAGTG
GATGGACATGGAAGCGAAGCATGGAGGCTGCCATGGTCACTACGTCCATGGCATTGTATCTATGAAAAC
GGAGACTGCAAGTGGCTGATTAATTCGCAAAGCCTGTTTGCTAACAAATTTGAACTCAACACATACCCTC
TTACCGTGGAAATGCCTGGAAGTGGCTTCGAGAAAGAACAACCTCAACCAGAGTGAGATCGCCATACAGCC
GAGCTGGTATTTTC

ACGGTACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219343 representing NM_008105
 Red=Cloning site Green=Tags(s)

MPPSVRYFFIVSVTTVIVFIVLYVLSFGGDQSYQKLNISDSVMLAQVCSSFIDGKSRFLWRNKLMIHEKP
 SCTEYVTQSHYITAPLSQEEVDFPLAYVMVIHHNFDTFARLFRAIFMPQNIYCVHVEKATAEFKGAVEQ
 LVSCFPNAFLASKMEPVVYGGISRLQADLNCIKDLSTSEVPWKYAINTCGQDFPLKTNKEIVQYLKGLKG
 KNLTGVLPPAHAIGRTRYVHREHLSKELSYVIRTALKPPPHNLTIYFGSAYVALSREFANFVLRDPR
 AVDLLHWSKDTFSPDEHFVWTLNRIIPGVPGSMPPNASWTGNLRAVKWMDMEAKHGGCHGHYVHGICIYGN
 GDLQWLINSQSLFANKFELNTYPLTVECLELRLRERTLNQSEIAIQPSWYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

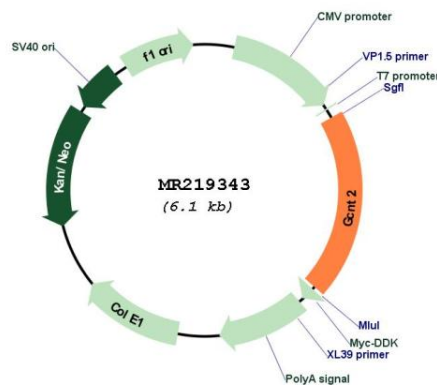
UniProt ID: [P97402](#)

Cytogenetics: 13 20.12 cM

MW: 46.1 kDa

Gene Summary: Branching enzyme that converts linear into branched poly-N-acetyllactosaminoglycans. 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 MR219343