

Product datasheet for MR206293

Gcnt2 (NM_133219) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt2 (NM_133219) 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:	>MR206293 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCCTACGCGGAAAGTTTTCGCTGTCTCTGCGCTCAGCGTGGTGATTTTTGTGGTTTTTATCACA
GCCAGCTAAGCCTGCCAACCTCTACCAGCAGCTCAACAGCTCCAGCGAAAGGACGTCTGTCACCATCTG
TGATTACGGCTTGCAAAATCATACTTCTCACGACGGGGACACATCACCACATCCTTTAGAAAGACTC
TCCTGTCCTCAATACCGGATCCAGAGCCACTATATTACCAGTCCCCTTTCGGAAGAAGAGGCTGCCTTC
CCCTGGCTTACATCATGGTGATCCACAAAGACTTCGATACCTTTGAAAGGCTCTTCAGGGCCATTTACAT
GCCCCAGAACGTCTACTGTGTGCATGTGGATAGTAAGGCCGACAGACACCTTCAAAGAAGCGGTGCCGCAG
TTACTAAGCTGTTTTCCCAATGCCTTCTGGCCTCTAAGGTGGAGCAGGTGGTCTATGGTGGCTTCTCTC
GGCTCCAGGCTGATCTGAACTGCATGAAAGATCTGGTGGCCTCCAAGGTCCCCTGGAAATATGTCCTCAA
CACCTGCGGGCAGGACTTCCCTTTGAAAACCAACAAGGAAATAATTAACCATCTGAAAAGATTTAAGGGG
AAAAACATCACTCCGGGAGTGCTGCCCTGCGTACATAGTTGTACGGACTAAATATGTACACCAGGAAC
GCAAAGGCAAAGACGGATATTTTATGCATAAAACAAATATTTGAAGACTCCACCTCCACACCAACTGAT
CATCTACTTCGGCACAGCCTACGTGGCCCTCACCCGGGACTTTGTCAACTTTATCCTGAATGACGAAAGG
GCCATTGCTCTTTAGAGTGGTCTAAAGATACCTATAGCCCTGATGAACATTTTTGGGTGACACTCAATA
GGATTCCAGGAGTCCCTGGCTCCATGCCACCAACGCATCCTGGACGGGTAACTCAGAGCTGTGAAGTG
GATGGACATGGAAGCGAAGCATGGAGGCTGCCATGGTCACTACGTCCATGGCATTGTATCTATGAAAC
GGAGACTGCAAGTGGCTGATTAATTCGCAAAGCCTGTTTGCTAACAAATTTGAACTCAACACATACCCTC
TTACCGTGGAAATGCCTGGAAGTGGCTTCGAGAAAGAACAACACTCAACCAGAGTGAGATCGCCATACAGCC
GAGCTGGTATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206293 protein sequence
Red=Cloning site Green=Tags(s)

MSLRGKVFAVSALSIVVIFVVFYHSQLSLPNLYQQLNSSERTSVTICDYGLQNHTFFTTGDTSPHPLERL
 SCPQYRIQSHYITSPLEEEAFLAYIMVIHKDFDTFERLFRAIYMPQNVYCVHVDSKATDTFKEAVRQ
 LLSFCFNAFLASKVEQVVYGGFSRLQADLNCMKDLVASKVPWKYVLTNTCGQDFPLKTNKEIINHLKRFKG
 KNITPGVLPAYIVVRTKYVHQERKGDYFMHKTNILKTPPPHQLIIYFGTAYVALTRDFVNFILNDER
 AIALLEWSKDTYSPDEHFWTLNRIIPGVPGSMPPNASWTGNLRAVKWMDMEAKHGCGHGHYVHGICIIYGN
 GDLQWLINSQSLFANKFELNTYPLTVECLELRRLRRTLNQSEIAIQPSWYF

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_133219

ORF Size: 1206 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_133219.1, NP_573482.1

RefSeq Size: 4021 bp

RefSeq ORF: 1206 bp

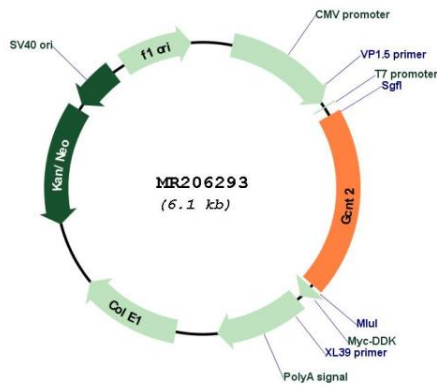
Locus ID: 14538

Cytogenetics: 13 20.12 cM

MW: 46 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 MR206293