

Product datasheet for MR206294

Gcnt2 (NM_023887) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt2 (NM_023887) 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:	>MR206294 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCTTGGAAGTACAGTCTTTTCAGCCTATCTCTCATTGCTGCCTTGATGCTTATGTTTATGTACG
ATAGAAAATTATGGAAGAACTATCATTTCCCGAGGGCGGTTTCCAATATTTAGTCTTAGCGGAAGTCTG
CTTGCAGATGTTAGTGGGAGAGTTTTATACAGCGGACAGCGCACGAAAACCACCCTGGAAAACCTC
ACCTGCCCGAGTACAAGATTCAAACCCTACATAACAGAGACTCTCTCTGAAGAAGAAGCCCGCTTCC
CTCTGGCTTTCACTTACTATCCACAAAGATTATGACACTTTGAGAGACTCTTCAAGGCCATTTACAT
GCCCCAGAACGTCTACTGTGTGCACGTGGATAGTAAGGCGACAGACACCTTCAAAGAAGAGGTGCGGCAG
TTACTAAGCTGTTTCCCAATGCCTTCTGGCCTTAGGATGGAGCCGGTGGTCTATGGTGGCTTCTCCC
GGCTCAAAGCTGATCTGAACTGCATGAAAGATCTGGTGGCCTCCAAGATCCCCTGAAAATATGTCCTCAA
CACCTGCGGGCAGGACTTTCCTCTGAAAACCAACAAAGAATAGTTACAGTACCTGAAACGGTTTATTGGG
AAGAACCTCACCCAGGGGTGCTGCCTCCTGCACATGCAGTTGGAAGAACCAAGTACGTCCACCAGGAGC
TGTTAGACCATAAAAAATCCCTACGTGCACAATACAGCAAGATTAAGGCTCCCCACCTCACAACCTGAC
CATTTACTTTGGCACTGCTTATGTGGCTCTCACACGGGAATTTGCTAACTTTGTCCTCAAAGACCAGCGT
TCAGTAGACTTAATCTCCTGGTCCAAGGACACGTATAGTCTGATGAGCACTTCTGGGTGACACTCAATA
GGATCCCTGGAGTCCCTGGCTCCATGCCACCAACGCATCTGGACGGGTAACTCAGAGCTGTGAAGTG
GATGGACATGGAAGCGAAGCATGGAGGCTGCCATGGTCACTACGTCCATGGCATTGTATCTATGAAAAC
GGAGACTGCACTGGCTGATTAATTCGCAAAGCCTGTTTGCTAACAAATTTGAACTCAACACATACCCTC
TTACCGTGGAAATGCCTGGAAGTGGCTTCGAGAAAGAACACTCAACCAGAGTGAGATCGCCATACAGCC
GAGCTGGTATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206294 protein sequence
Red=Cloning site Green=Tags(s)

MGSWKYSLFSLSLIAALMLMFMYDRKLVKKNYHFPRAVSNISVLAEVCLQMFSGESFYTADSARKTTLENF
 TCPEYKIQNHYITETLSEEEARFPLAFTLTIHKDYDTFERLFRAIYMPQNVYCVHVDSKATDTFKEEVRQ
 LLSFCFNAFLASRMPEVVYGGF SRLQADLNCMKDLVASKIPWKYVLTNTCGQDFPLKTNKEIVQYLKRFIG
 KNLTGPVLPAAHAVGRTKYVHQELLDHKNPYVHNTARLKAPPPHNLTIYFGTAYVALTREFANFVLKDQR
 SVDLISWSKDTYSPDEHFVWTLNRIIPGVPGSMPPNASWTGNLRAVKWMDMEAKHGGCHGHYVHGICIIYGN
 GDLQWLINSQSLFANKFELNTYPLTVECLELRRLRERTLNQSEIAIQPSWYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023887

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_023887.4](#), [NP_076376.3](#)

RefSeq Size: 4361 bp

RefSeq ORF: 1206 bp

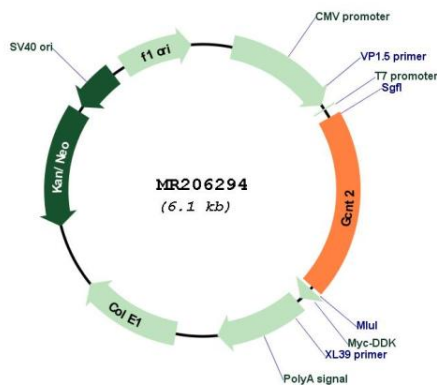
Locus ID: 14538

Cytogenetics: 13 20.12 cM

MW: 46.3 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 MR206294