

Product datasheet for RR212234

Gcnt1 (NM_022276) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt1 (NM_022276) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcnt1
Synonyms:	core 2 GlcNAc-T
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212234 representing NM_022276 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGAGAACTTGTTTCGGAGGAGACTTTTTCTTATCCTACAAAATACTACTTCATGGTTCCTGTTC
TGCTCTAATTACCTTCTCTGTTGAAGAATTCATCAGAAGCCTGAATTTGTTAGTGTCAGTCACCTGGA
GCTTTCTGGAGATGATCCCAATAGCAATGTTAATTGCACCAAAGTTTTACAGGGTGACCCAGAAGAAATC
CAGAAGGTGAAGCTTGAGATACTAACAGTGCAATTCAGAAGCGTCCGAGGCGGACACCGCATGACTATA
TAAACATGACCCGGGACTGCGCCTCCTTCATCAGGACACGCAAAATATATTATGGAGCCCTTACTAAAGA
AGAGGTTGGCTTCCAATTGCATATCCATAGTGGTTCATCATAAGATTGACATGCTTGACAGGCTCCTG
AGGGCCATCTATATGCCACAGAAATTTCTACTGCATTACGTGGACAGAAAAGCAGAGGAATCCTTTTTAG
CCGCGGTGCAGGGCATTGCATCCTGCTTTGATAATGTCTTTGGCCAGCCAGTTGGAGAGTGTGTATA
CGCCTCCTGGAGTCGGGTTAAGGCTGACCTCACTGCAATGAAGGACCTGTACAGAATGAATGCAAACTGG
AAGTACTTGATCAATCTTTGGTATGGATTTCCCTATTAACAACCTGGAAATGTGAGGAAGCTCA
AGTCTTACAGGGGAAAACAGCCTGAAAACAGCAAGATGCCTCCCAACAAGGAAGAGGTGGAAAAA
ACGATACACGGTTGTGGACGGGAAGCTGACAAACACTGGAGTTGTCAAGGCGCAGCCTCCACTCAAAC
CCTCTCTTTTCAGGCAGCGCCTATTTCTGGTCTACTAGGGAATATGTAGGCTATGTGCTGAAAAATAAAA
ATATTCAAAAGTTCATGGAATGGGCACAGGACACATACAGCCCGGATGAGTTCCTCTGGCCACCATCCA
AAGGATCCCTGAAGTCCCTGTTCTCTCCCTCAAGCCATAAGTATGACTTGTCTGACATGAATGCTGTC
GCTAGGTTTGTCAAGTGGAATACTTCGAAGGCGATGTTTCCAATGGCGCGCCTTATCCACCGTGCAGTG
GAGTCCATGTGCGCTCTGTGTGCGTCTTTGGAGTTGGTGACTTGAGCTGGATGCTGCGCAAACCACTT
TTTTGCCAATAAGTTTGACATGGATGTGGATCCCTTTGCCCTCCAGTGTGGGAAGAATCTGAGGCAT
AAAGCCCTGGAGACCTTAGAACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212234 representing NM_022276
Red=Cloning site Green=Tags(s)

MLRNLFRRLFSYPTKYFVMVLVLSLITFSVVRHQKPEFVSVSHLELSGDDPNSNVNCTKVLQGDPEEI
 QKVKLEILTVQFKKRPRTPHDYINMTRDCASFIRTRKYIMEPLTKEEVGFPIAYSIVVHHKIDMLDRLL
 RAIYMPQNFYCIHVDRKAEESFLAAVQGIASCFDNVVASQLESVVYASWSRVKADLNCMKDLYRMNANW
 KYLINLCGMDFFIKTNLEIVRKLKSFTEKMPNKEERWKKRYTVVDGKLTNTGVVKAQPPLKT
 PLFSGSAYFVVTREYVGVLENKNIQKFMWAQDTYSPDEFWATIQRIPVPGSLPSSHKYDLSMNAV
 ARFVKWQYFEGDVSNGAPYPCCSGVHVRVVCVFGVGDLSWMLRKHHFFANKFDMVDVDFALQCLEEHLRH
 KALETLER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

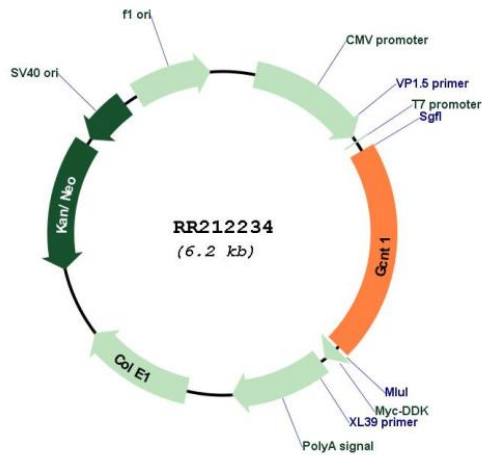
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_022276

ORF Size:	1284 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:	NM_022276.1 , NP_071612.1
RefSeq Size:	5010 bp
RefSeq ORF:	1287 bp
Locus ID:	64043
Cytogenetics:	1q51
MW:	49.8 kDa
Gene Summary:	a key enzyme determining the structure of O-linked glycosylation; may involved in increased deposition of glycoconjugates and the abnormal functions found in the hearts of diabetic rats [RGD, Feb 2006]