

Product datasheet for **RR213431**

Gcnt3 (NM_173312) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gcnt3 (NM_173312) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gcnt3
Synonyms:	beta-16-N-acetylglucosaminyltransferase; dl/C2/C4GnT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213431 representing NM_173312 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTTTCATGGAGGAGTTCTGTTGGCACTATCATGGGTGGACCCTGGGCTGCTACATGCTGCTGGCTA
TCATTGCCCTGAACTGTCCCTCAGATTGAAGTGTGATTCGATGTCATGGATCTGGACTCAAAGGAATT
TCAAAGCCAGTACTGCAGGGACCTCCTGTACAAGACCCTGGAGCTGCCAGCAAAGAGTTCATCAACTGT
TCAGGGGTTCATCCGAGGGGAACAGAAAGCGGTGACCCAGGCTCTGCTGAATAACCTGGAACCTAAGAGGA
AGCGGCAGTCCTTCACAGAGGCTGACTACCTTAGCATGACGGCAGACTGTGAGCACTTCAAGACCCAGAG
GAAGTTTATACAGGTCCCACTGAGCAAAGAAGAGGCCAACTTCCCCATTGCGTACTCCATGGTGATTCAT
GAGAAGATTGAGAACTTTGAAAGGCTGCTGCGAGCTGTGTACACCCCTCAGAACATATACTGTGTCCATG
TGGACCAGAAGTCTTCAGAACTTTTCAGCAGGCAGTCAGGGCCATTGTGTCATGCTTCCCAATGTCTT
CATAGCTAATAAGCTGGTGTGTCAGTGGTCTATGCCTCCTGGTCCAGAGTGCAGGCTGATCTGAACTGCATG
GAAGACTTGTCCAGAGCCCCGTGCCGTGGGAGTACCTCCTGAACACCTGTGGACAGACTTCCCATCA
AAACCAATGCCGAGATGGTCAAGGCCCTAAGCTACTGAATGGCAGAACAGCATGGAGTCAGAGTACC
ACCTCCACATAAAACGTTCCGTTGGAAATACCACTATGAGGTGGCCGACACACTATACAGAACCAGCAAG
GAGAAGACCCCGCCCCCTAACACATAACCATGTTCACTGGCAATGCCTACATGGTGGCTTCTCGAGACT
TCATTGAACATGTATTAAGTAACTCAAAGCCCGCAACTGATCGAATGGGTAAAAGACACTTACAGTCC
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TTTGACCTATCAGACATGAGATCCATTGCAAGACTAACCAAGTGGCAGGACCATGAGGGAGACATTGAGA
ATGGGGCGCCTTATACGTCTTGCTCAGGAATCCACCAGCGGGCTATCTGTGTTTACGGGTACGGGGACCT
GCACTGGATACTCAGAACCATCACCTTTGGCCAACAAGTTTGATCAAAGGTGGATGACAATGTTCTT
CAGTGTCTAGAAGAATTTTACGTCACAAGCCATCTATGGGACCGAGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213431 representing NM_173312
 Red=Cloning site Green=Tags(s)

MVSWRRFCWHYHGWTLCGYMLLAIALKLSRLKCDFVMDLDSKEFQSQYCRDLLYKLTLELPAKSSINC
 SGVIRGEQKAVTQALLNNLELKRKRQSFTEADYLSMTADCEHFKTQRKF IQVPLSKEEANFPIAYSMVIH
 EKIEENFERLLRAVYTPQNIYCVHVDQKSSETFQQAVRAIVSFCFNVFIANKLVSVVYASWSRVQADLNCM
 EDLLQSPVPWEYLLNTCGTDFPIKTAEMVKALKLLNGQNSMESEVPPPHKTFRWKYHYEVADTLVRTSK
 EKTPPPNNITMFTGNAYMVASRDFIEHVLNSNSKARQLIEWVKDITYSPDEHLWATLQRASWMPGSDPLHPK
 FDLSDMRSIARLTKWQDHEGDIENGAPYTS CSGIHQRAICVYSGDLHWILQNHLLANKFDPKVDDNVL
 QCLEEYLRHKAIYGTTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

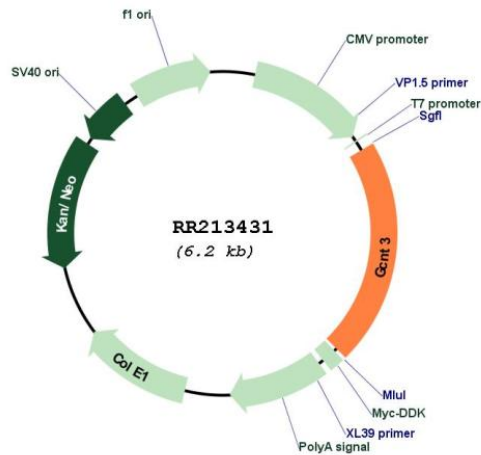
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_173312

ORF Size:	1311 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_173312.2 , NP_775434.1
RefSeq Size:	1991 bp
RefSeq ORF:	1314 bp
Locus ID:	286976
UniProt ID:	Q8CH87
Cytogenetics:	8q24
MW:	50.6 kDa
Gene Summary:	glycosylation enzyme; transfers glycosyl groups to mucins; controls expression of type I antigens on cell surface [RGD, Feb 2006]