

Product datasheet for **RC203716**

CD57 (B3GAT1) (NM_054025) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD57 (B3GAT1) (NM_054025) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: B3GAT1
Synonyms: CD57; GLCATP; GLCUATP; HNK1; LEU7; NK-1; NK1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC203716 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGAAGAGACGGGACATCCTAGCGATCGTCTCATCGTGCTGCCCTGGACTCTGCTCATCACTGTCT
GGCACCAGAGCACCTCGCACCCCTGCTCGCGGTACATAAGGATGAGGGCAGTGACCCCCGACGCGAAAC
GCCGCCCGCGCCGACCCAGGGAGTACTGCACGTCTGACCGCGACATCGTGGAGGTGGTGGCACCAGG
TACGTGTACACGCGGCCCGCCATGGTCCGACACGCTGCCACCATCCACGTGGTGACGCCACCTACA
GCCGCCCGGTGCAGAAGGCCGAGCTGACGCGCATGGCCAAACACGCTGCTGCACGTGCCAACTCCACTG
GCTGGTGGTGGAGGATGCGCCGCGCCGGAGCCGCTGACCGCGCGCTGCTGCGGACACCCGGCCTCAAC
TACACGCACCTGCACGTGGAGACGCCCCGCAACTACAAGCTGCGCGGAGACGCCCGGACCCACGCATCC
CGCGGGGCACCATGCAGCGCAACTGGCCCTGCGCTGGCTGCGCGAGACCTCCCGCGCAACTCCAGCCA
GCCTGGCGTGGTCTACTTCGCCGACGACGACAACCTACAGCCTGGAGCTCTTCGAAGAGATGCGCAGC
ACCAGGAGGTGTCCGTGTGGCCCGTGCCTTCGTGGTGGCTGCGGTACGAGGCCACCGGTGAACG
GGCAGGGAAGGTGGTGGTGGAAAGCGTGTTCGACCCACCGGCCATTTGCAATAGACATGGCTGG
ATTTGCCGTCAACTGCGGCTCATTCTGCAGCGAAGCCAGGCCTACTTCAAGCTGCGAGGTGTGAAGGGA
GGCTACCAGGAAAGCAGCCTCCTTCGAGAACTGTCCACCTCAACGACCTGGAGCCCAAGGCAGCCAACT
GCACCAAGATCCTGGTGTGGCACACACGGACAGAGAAGCCAGTGTGGTGAATGAGGGCAAGAAGGGCTT
CACTGACCCCTCGGTGGAGATC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203716 protein sequence
 Red=Cloning site Green=Tags(s)

MPKRRDILAIVLIVLPWTLITVWHQSTLAPLLAVHKDEGSDPRETPPGADPREYCTSDRDIVEVVRTE
 YVYTRPPPWSDTLPTIHVVTPITYSRPVQKAE LTRMANTLLHVPNLHWLVVEDAPRRTPLTARLLRDTGLN
 YTHLHVETPRNYKLRGDARDPRIPRGTMQRNALRLWRETFPRNSSQPGVYVFADDNTYSLELFEEMRS
 TRRVSVWPVAFVGGRLRYEAPRVNGAGKVVGWKT VFDPHRPF AIDMAGFAVNLRLILQRSQAYFKLRGVKG
 GYQESSLLRELVTLNDLEPKAANCTKILVWHTRTEKPVLVNEGKKGFTDPSVEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

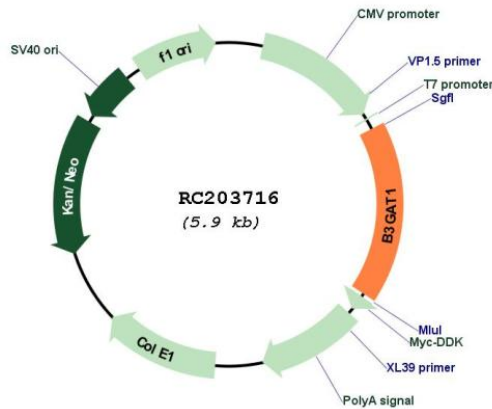
Chromatograms: https://cdn.origene.com/chromatograms/mk6302_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



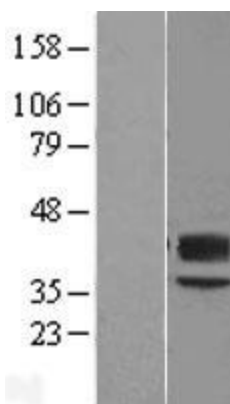
Plasmid Map:



ACCN: NM_054025

ORF Size:	1002 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.
RefSeq:	NM_054025.3
RefSeq Size:	3666 bp
RefSeq ORF:	1005 bp
Locus ID:	27087
UniProt ID:	Q9P2W7
Domains:	Glyco_transf_43
Protein Families:	Transmembrane
Protein Pathways:	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
MW:	38.3 kDa
Gene Summary:	The protein encoded by this gene is a member of the glucuronyltransferase gene family. These enzymes exhibit strict acceptor specificity, recognizing nonreducing terminal sugars and their anomeric linkages. This gene product functions as the key enzyme in a glucuronyl transfer reaction during the biosynthesis of the carbohydrate epitope HNK-1 (human natural killer-1, also known as CD57 and LEU7). Alternate transcriptional splice variants have been characterized. [provided by RefSeq, Jul 2008]

Product images:



Western blot validation of overexpression lysate (Cat# [LY412987]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC222914] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).