OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC222914

CD57 (B3GAT1) (NM_018644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD57 (B3GAT1) (NM_018644) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD57
Synonyms:	CD57; GLCATP; GLCUATP; HNK1; LEU7; NK-1; NK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222914 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGAAGAGACGGGACATCCTAGCGATCGTCCTCATCGTGCTGCCCTGGACTCTGCTCATCACTGTCT
GGCACCAGAGCACCCTCGCACCCCTGCTCGCGGTACATAAGGATGAGGGCAGTGACCCCCGACGCGAAAC
GCCGCCCGGCGCCGACCCCAGGGAGTACTGCACGTCTGACCGCGACATCGTGGAGGTGGTGCGCACCGAG
TACGTGTACACGCGGCCCCCGCCATGGTCCGACACGCTGCCCACCATCCACGTGGTGACGCCCACCTACA
GCCGCCCGGTGCAGAAGGCCGAGCTGACGCGCATGGCCAACACGCTGCTGCACGTGCCCAACCTCCACTG
GCTGGTGGTGGAGGATGCGCCGCGCCGGACGCCGCTGACCGCGCGCCTGCTGCGCGACACCGGCCTCAAC
TACACGCACCTGCACGTGGAGACGCCCCGCAACTACAAGCTGCGCGGAGACGCCCGCGACCCACGCATCC
CGCGGGGCACCATGCAGCGCAACCTGGCCCTGCGCTGGCTGCGCGAGACCTTCCCGCGCAACTCCAGCCA
GCCTGGCGTGGTCTACTTCGCCGACGACGACAACACCTACAGCCTGGAGCTCTTCGAAGAGATGCGCAGC
ACCAGGAGGGTGTCCGTGTGGCCCGTCGCCTTCGTGGGTGGCCTGCGGTACGAGGCCCCACGGGTGAACG
GGGCAGGGAAGGTGGTCGGCTGGAAGACGGTGTTTGACCCCCACCGGCCATTTGCAATAGACATGGCTGG
ATTTGCCGTCAACCTGCGGCTCATTCTGCAGCGAAGCCAGGCCTACTTCAAGCTGCGAGGTGTGAAGGGA
GGCTACCAGGAAAGCAGCCTCCTTCGAGAACTTGTCACCCTCAACGACCTGGAGCCCAAGGCAGCCAACT
GCACCAAGATCCTGGTGTGGCACACACGGACAGAGAAGCCAGTGCTGGTGAATGAGGGCAAGAAGGGCTT
CACTGACCCCTCGGTGGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC222914 protein sequence
Red=Cloning site Green=Tags(s)

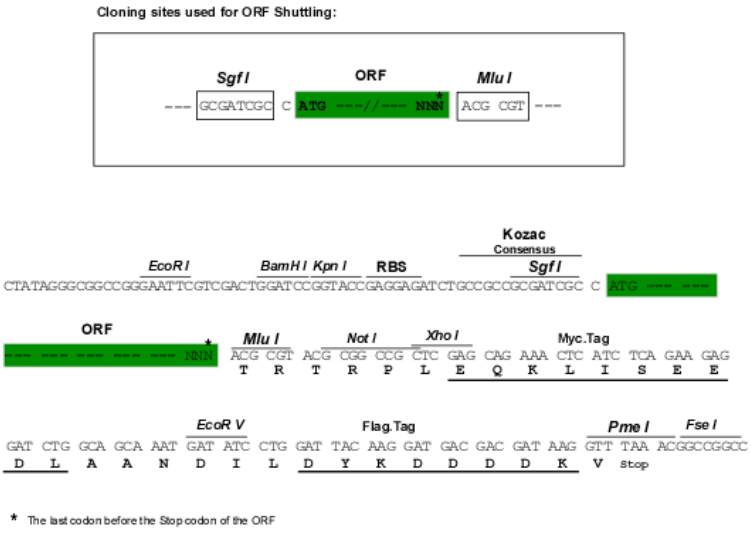
MPKRRDILAIVLIVLPWTLLITVWHQSTLAPLLAVHKDEGSDPRRETPPGADPREYCTSDRDIVEVVRTE
YVYTRPPPWSDTLPTIHVVTPTYSRPVQKAELTRMANTLLHVPNLHWLVVEDAPRRTPLTARLLRDTGLN
YTHLHVETPRNYKLRGDARDPRIPRGTMQRNLALRWLRETFPRNSSQPGVVYFADDDNTYSLELFEEMRS
TRRVSVWPVAFVGGLRYEAPRVNGAGKVVGWKTVFDPHRPFAIDMAGFAVNLRLILQRSQAYFKLRGVKG
GYQESSLLRELVTLNDLEPKAANCTKILVWHTRTEKPVLVNEGKKGFTDPSVEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018644

ORF Size: 1002 bp

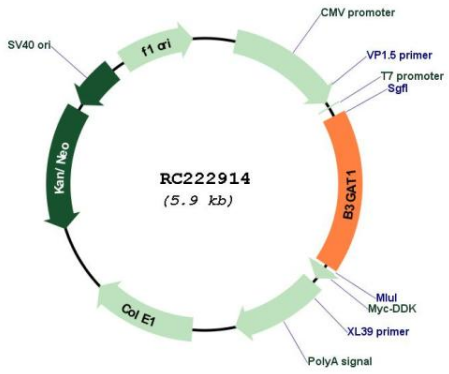
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

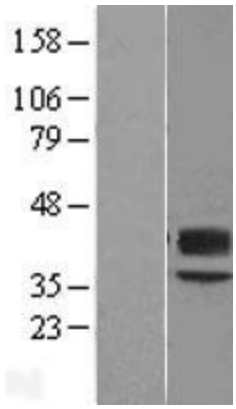
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_018644.3
RefSeq Size:	3534 bp
RefSeq ORF:	1005 bp
Locus ID:	27087
UniProt ID:	Q9P2W7
Cytogenetics:	11q25
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:



Circular map for RC222914



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