

## Product datasheet for **SC110387**

### CD57 (B3GAT1) (NM\_018644) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD57 (B3GAT1) (NM_018644) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD57
Synonyms:	CD57; GLCATP; GLCUATP; HNK1; LEU7; NK-1; NK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018644, the custom clone sequence may differ by one or more nucleotides

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ATGCCGAAGAGACGGGACATCCTAGCGATCGTCCTCATCGTGCTGCCCTGGACTCTGCTCATCACTGTCT
GGCACCAGAGACCCTCGCACCCCTGCTCGCGGTACATAAGGATGAGGGCAGTGACCCCGACGCGAAAC
GCCGCCCGGCGCCGACCCAGGGAGTACTGCACGTCTGACCGCGACATCGTGGAGGTGGTGCACCCGAG
TACGTGTACACGCGGCCCCCGCCATGGTCCGACACGCTGCCACCATCCACGTGGTGACGCCACCTACA
GCCGCCCGGTGCAGAAGCCGAGCTGACGCGCATGGCCAACACGCTGCTGCACGTGCCAACCTCCACTG
GCTGGTGGTGGAGGATGCGCCGCGCCGACGCCGCTGACCGCGCGCTGCTGCGGACACCGGCCTCAAC
TACACGCACCTGCACGTGGAGACGCCCCGCAACTACAAGCTGCGCGGAGACGCCCGGACCCACGCATCC
CGCGGGGCACCATGCAGCGCAACCTGGCCCTGCGCTGGCTGCGCGAGACCTCCCGCGCAACTCCAGCCA
GCCTGGCGTGGTCTACTTCGCCGACGACGACAACCTACAGCCTGGAGCTCTTGAAGAGATGCGCAGC
ACCAGGAGGGTGTCCGTGTGGCCCGTCGCTTCGTGGGTGGCCTGCGGTACGAGGCCACCGGTGAACG
GGCAGGGAAGGTGGTCCGCTGGAAGACGGTGTGGTGGCCCGCCGCAATTTGCAATAGACATGGCTGG
ATTTGCCGTCAACCTGCGGCTCATTCTGCAGCGAAGCCAGGCCTACTTCAAGCTGCGAGGTGTGAAGGA
GGCTACCAGGAAAGCAGCCTCCTTCGAGAACTTGTACCCTCAACGACCTGGAGCCCAAGGCAGCCAACT
GCACCAAGATCCTGGTGTGGCACACACGGACAGAGAAGCCAGTGTGGTGAATGAGGGCAAGAAGGGCTT
CACTGACCCCTCGGTGGAGATCTGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_018644 unedited  GATTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGCATGGTGCTC  CATTGTTTCTGGAAGAGAGGGATGAGTGTTCTCTCTGATGAGAAATGGAGAGGAGGAGAG  GAACGGGCTCAGGAGGAGGAGGAATCCGAGAGAGAGCCTGACTGAGGCAGAGAAAGAGGC  AGTGAGACAAGAGACAAAGGCACGGAGGCGCACTGGCGGACAGCAGAGGGAGGCACACAG  GCAGAAGTCAGGGCCTCCCTGACTGAGTGGTGTCCACCCCCAGGGTTCCTGACCCCTGC  CCCTGGACAGCGACCCCTTCTCAGACTCCAGTTGGGCCGGACTCCCAAACCTGCTTCCG  CAATGGGTGGGTTGTGAGTGCTGGTAAGACCTGCTAGCCAACATTCAGCTGCTCTGTCTCT  CTCCATGCCTGGCCGGCCCGGCCATGCCTGTTCTTTTCTCCCCTGTGCTGCCGCCGCC  GTGGCCGCCCTCTCCTGAACTTACCGCACTCAGGTAATGAGGAGCCGTGGGTGCAGCC  AGCCTTGAGATGCCGAAGAGACGGGACATCCTAGCGATCGTCTCATCGTGCTGCCCTG  GACTCTGCTCATCACTGTCTGGCACCAGAGCACCTCGCACCCCTGCTCGCGGTACATAA  GGATGAGGGCAGTGACCCCGACGCGAAACGCCGCCCGGCCGACCCAGGGAGTACTG  CACGTCTGACCGGACATCGTGGAGTGGTGGCACCGAGTACGTGTACACGGGNCCCC  GCCATGGTCCGACAGCTGCCACCATCCACGTGGTGACGCCACCTACGCCGCCGGTG  CAAAGGCCGAGCTGACGGCATGNCACACGCTGCTGCAGTGCCAACCCCTGNNCTGT  GGTGGAGATGCGCGCCGACGCGNTGACGCGCCCTGTGGCGAACCCGGCTCATACCCAC  CTGACGTGAGACGCCCGAC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_018644 unedited  NNTTTTAGCTTGGACCGCGGCCGAATCTANAATCGAGTTTTTTTTTTTTTTTTTTTTTTT  TTT  GGACGGTAAAAAACTGTTTTGATTTTTAATTTTAAAAGCAAATTAATCCCGTTAAATT  AAAACAAACCAATGCCGTTGCCTGGGGGCCCCCTCACCCCAACCTTTGTTTTTAAAAC  CCCAAACCCCGGCCAACTTTTGGGGGGGGGGCTTGCCCCCGGGGAACAGGGAACAA  ACTGGGTTTAAAAAAGGGGGCATTAGGGCCCTTTTTTGATTTAAAACAAACCCCTTC  CCAAAAAAGGGGGCAGCCCCCGGGGTTAATTAATAAAAAAAAAATCCCCCCCC  CTAAAAAGGATTTTAGGGGAAAACAACCTGGCCTAACTTTGCCAAAAAAACCCCAT  TTGTTGTAATTATAAAGCCCTGAAAAAAACCCTAGTTTTTGGCTAAAAAGGGGGCC  TAAAAACAACCAACTGACCTTGGCACTTGGGGGTTTTTGGGAGGCAAAAAAGGGCCCC  CACATAAGCCACCACTGGGCCACCCCTCTTTTTTTCCCATGCCAACCAACTTGT  TCAAAGGGTTTTGTTTTCAAAGGAAATTCAGGGGGGAAAAAGGTGGGAGAAACCCCCC  CAAGGGGGTTCAGGGAATCCGATTCCCCCAAAGGGCCAAGGAAACTGGGGGAAATTA  ACCCTTCCAAATAGGCCCCCCGGCTTATTTTCGAATGTTAGGGTCTGGAAAGGGGCC  CCCCCCCCCCCCCTGGAGAGGGGTTAAAAGCCCTCAACCTCCCTGGAGATTATA  GGGGGGAGGGTTTTATAAAAAACACCCTCTCCAGGCG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018644
<b>Insert Size:</b>	4860 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_018644.2</a> , <a href="#">NP_061114.1</a>
<b>RefSeq Size:</b>	3546 bp
<b>RefSeq ORF:</b>	1005 bp
<b>Locus ID:</b>	27087
<b>UniProt ID:</b>	<a href="#">Q9P2W7</a>
<b>Cytogenetics:</b>	11q25
<b>Domains:</b>	Glyco_transf_43
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Chondroitin sulfate biosynthesis, Heparan sulfate biosynthesis, Metabolic pathways
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript. Variants 1 and 2 encode the same protein.</p>