

## Product datasheet for **SC124786**

### CD57 (B3GAT1) (NM\_054025) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD57 (B3GAT1) (NM_054025) 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_054025, the custom clone sequence may differ by one or more nucleotides

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ATGCCGAAGAGACGGGACATCCTAGCGATCGTCCTCATCGTGCTGCCCTGGACTCTGCTCATCACTGTCT
GGCACCAGAGACCCTCGCACCCCTGCTCGCGGTACATAAGGATGAGGGCAGTGACCCCCGACGCGAAAC
GCCGCCCGGCGCCGACCCAGGGAGTACTGCACGTCTGACCGCGACATCGTGGAGGTGGTGCACCCGAG
TACGTGTACACGCGGCCCCCGCCATGGTCCGACACGCTGCCACCATCCACGTGGTGACGCCACCTACA
GCCGCCCGGTGCAGAAGCCGAGCTGACGCGCATGGCCAACACGCTGCTGCACGTGCCAACCTCCACTG
GCTGGTGGTGGAGGATGCGCCGCGCCGACGCCGCTGACCGCGCGCTGCTGCGGACACCGGCCTCAAC
TACACGCACCTGCACGTGGAGACGCCCCGCAACTACAAGCTGCGCGGAGACGCCCGGACCCACGCATCC
CGCGGGGCACCATGCAGCGCAACCTGGCCCTGCGCTGGCTGCGCGAGACCTCCCGCGCAACTCCAGCCA
GCCTGGCGTGGTCTACTTCGCCCAGCAGACAACCTACAGCCTGGAGCTCTTGAAGAGATGCGCAGC
ACCAGGAGGGTGTCCGTGTGGCCCGTCGCTTCGTGGGTGGCCTGCGGTACGAGGCCACGGGTGAACG
GGCAGGGAAGGTGGTCCGCTGGAAGACGGTGTGGTGGCCCGCCGCAATTTGCAATAGACATGGCTGG
ATTTGCCGTCAACCTGCGGCTCATTCTGCAGCGAAGCCAGGCCTACTTCAAGCTGCGAGGTGTGAAGGGA
GGCTACCAGGAAAGCAGCCTCCTTCGAGAACTTGTACCCTCAACGACCTGGAGCCCAAGGCAGCCAACT
GCACCAAGATCCTGGTGTGGCACACACGGACAGAGAAGCCAGTGTGGTGAATGAGGGCAAGAAGGGCTT
CACTGACCCCTCGGTGGAGATCTGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_054025 unedited TGTAATACGAACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCACCCCCAGGTTCC TGACCCCTGCCCTGGACAGCGACCCCTTCTCAGACTCCAGTTGGGCCGGACTCTCCAAA CCTGCTCCGCAATGGGTAATGAGGAGCCGTGGGTGCAGCCAGCCTTGGAGATGCCGAAG AGACGGGACATCCTAGCGATCGTCTCATCGTGTGCCCTGGACTCTGCTCATCACTGTC TGGCACCAGAGCACCCCTCGACCCCTGCTCGCGGTACATAAGGATGAGGGCAGTGACCCC CGACGCGAAACGCCGCCCGCGCCGACCCAGGGAGTACTGCACGTCTGACCGCGACATC GTGGAGGTGGTGCGCACCGAGTACGTGTACACGCGGCCCCCGCCATGGTCCGACACGCTG CCCACCATCCACGTGGTACGCCACCTACAGCCGCCCGGTGCAGAAGGCCGAGCTGACG CGCATGGCCAACACGCTGCTGCACGTGCCAACCTCCACTGGCTGGTGGTGGAGGATGCG CCGCGCCGGACGCCGTTGACCGCGCCTGCTGCGCGACACCGGCCTCAACTACACGCAC CTGCACGTGGAGACGCCCGCAACTACAAGCTGCGCGGAGACGCCCGCGACCCACGCATC CCGCGGGGCACCATGCAGCGCAAACCTGGCCCTGCGCTGGCTGGGCGAGACCTTCCGCGC AACTCCACCAGCTTGGGGTGGTCTACTTTGCCGACGACAAAACCTTAAGCCTGGAAC TTTNAAGAGATGCCCCACACCAGGAGGGTCCCGGGGGCCCGTCCCCTTCGGGGTGGCC CGGGGAACAAGCCCAACGGTGAACCGGCATGGTAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_054025
<b>Insert Size:</b>	3620 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_054025.1</a> , <a href="#">NP_473366.1</a>
<b>RefSeq Size:</b>	3666 bp
<b>RefSeq ORF:</b>	3666 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

**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]

Transcript Variant: This variant (2) has multiple differences in the 5' end of the transcript, as compared to variant 1. Variants 1 and 2 encode the same protein.