

Product datasheet for **SC119045**

CD34 (NM_001773) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD34 (NM_001773) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD34
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001773, the custom clone sequence may differ by one or more nucleotides

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ATGCTGGTCCGCAGGGGCGCGCGCAGGGCCCAGGATGCCGCGGGGCTGGACCGCGCTTTGCTTGCTGA
GTTTGCTGCCTTCTGGGTTTCATGAGTCTTGACAACAACGGTACTGCTACCCCAGAGTTACCTACCCAGGG
AACATTTTCAAATGTTTCTACAAATGTATCCTACCAAGAACTACAACACCTAGTACCCTTGAAGTACC
AGCCTGCACCCTGTGTCTCAACATGGCAATGAGGCCACAACAACATCACAGAAACGACAGTCAAATTCA
CATCTACCTCTGTGATAACCTCAGTTTATGAAACACAAACTCTCTGTCCAGTCACAGACCTCTGTAAT
CAGCACAGTGTTCCACCACCCAGCCAACGTTTCAACTCCAGAGACAACCTTGAAGCCTAGCCTGTCACCT
GGAAATGTTTCAGACCTTCAACCACTAGCACTAGCCTTGAACATCTCCCACTAAACCTATACATCAT
CTTCTCCTATCCTAAGTGACATCAAGGCAGAAATCAAATGTTTCAGGCATCAGAGAAGTAAAATTGACTCA
GGGCATCTGCCTGGAGCAAAAATAAGACCTCCAGCTGTGCGGAGTTTAAGAAGACAGGGGAGAGGCCTG
GCCCGAGTGCTGTGTGGGAGGAGCAGGCTGATGCTGATGCTGGGGCCAGGTATGCTCCCTGCTCCTTG
CCCAGTCTGAGGTGAGGCCTCAGTGTCTACTGCTGGTCTTGGCCAACAGAACAGAAATTTCCAGCAAAC
CCAACCTATGAAAAAGCACCAATCTGACCTGAAAAAGCTGGGGATCCTAGATTTCACTGAGCAAGATGTT
GCAAGCCACCAGAGCTATTCCTAAAAGACCTGATTGCACTGGTACCTCGGGAGCCTGCTGGCTGTCT
TGGGCATCACTGGCTATTTCTGATGAATCGCCGACGCTGGAGCCCCACAGGAGAAAGGCTGGAGCTGGA
ACCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001773 unedited
 GTTCAAAATTGTATACGACTCCTATAGGCGGCCCGCAATTCGCACGAGGTAGGAGCCGC
 GCGGGAAGGATGCTGGTCCGCGAGGGCGCGCGCAGGGCCAGGATGCCGCGGGGCTGGA
 CCGCGCTTTGCTTGTCTGAGTTTGTCTGCCTTCTGGGTTTCATGAGTCTTGACAACAACGGTA
 CTGCTACCCAGAGTTACCTACCCAGGGAACATTTTCAAATGTTTCTACAAATGTATCCT
 ACCAAGAACTACAACACCTAGTACCCTTGGAAGTACCAGCCTGCACCCTGTGTCTCAAC
 ATGGCAATGAGGCCACAACAACATCACAGAAACGACAGTCAAATTCACATCTACCTCTG
 TGATAACCTCAGTTTATGGAAACACAACTCTTCTGTCCAGTCAACAGACCTCTGTAAATCA
 GCACAGTGTCCACCACCCAGCCAACTTCAACTCCAGAGACAACCTTGAAGCCTAGCC
 TGTACCTGGAATGTTTCAGACCTTCAACCACTAGCACTAGCCTTGAACATCTCCCA
 CTA AACCTTATACATCATCTTCTCCTATCCTAAGTGACATCAAGGCAGAAATCAAATGTT
 CAGGCATCAGAGAAGTGAATGACTCAGGGCATCTGCCTGGAGCAAAATAGACCTCCA
 GCTGTGCGGAGTTAAAAAGGACAGGGGAGAGGGCCTGGCCCGAGTGCTGTGGGGAGG
 AGCANGCTGATGCTGNATGCTGGGCCAGGTATGCTCCCTGCTCCTTGCCAGTCTGAGG
 TGAGGCCTCAGTGTCTACTGCTGGTCTTGCCAAACAGAAATTTCCAGCAAACCTCC
 AACTTATGANAAAGCACCAATCTGACCTGAANAAAGCTGGGGATCCCCTAGATTNCACTG
 AGCAGAATGNNTGCAGCCACCAGAGCTATTCCTCAAAGACCCTGATGCACTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001773 unedited
 CCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGTTCAGTATCACTTTAA
 TTGCAGTATTTAAACACATCACTTTGTATTTCAGAAAAAATCTACCCAATACTCTCTTCT
 CTGGAAATTTCTATTTCCAACCGTCATTGAAACCAGGATCCCTGCTCAACCCCTCTGGAA
 AGAAATCAACAGCAACAAGGACCTGGGTCAACCCACAGAAGAGGCAGCTGGTGATAAGGG
 TTAGGAGCTGATCTGGGCTATGACCATATGGGGGTGCAGAGCAAGGAAGGGGCTCAGGGT
 GAGGGAGGCAGAGACAGAAAAGCATCTGTTGGGGACTGAGGCAACAGCTCAACCCAGGA
 GTCGCGAGGAGGAGGAGGAAGCCATGGAGATCAGAGGATAAAGGTAGGATCCAGCCTCA
 GAGGAAGAGGATTTTTCGGAAGAGTACAGGTGAGAGGCTCAGCTCCAAGACCTGGTCCCA
 TGGTCTGCTACTTTGATCCAGAGGGAGAAAAAGGAGCCAAAAAGAGTTTCTGTGTGG
 TACCAGAGAGACTACAACCTGAGCTGTCTGTAATAAACTTGCAGAGCCTGTTCTAGGCTC
 CAGCCAGCAAACCTGCGCCGACTTCTGCCAATGGTAGAGGGGACATGGAGCTTAGTGG
 AACTTAAAGAACAACGGAGGCACTGGCGACCCCCCCCAGTGTTCGAGATAGATGACG
 GAAGCGCCTCAAGCCCCCTCTTTCTGGCTTTTCATTACACGAGAGCCGTGCAAAAGGC
 CCTTTGCTTACTCCAAGTTGCGAACGACATCCCGGCACCAACGGCAAAACCAAAGCTTC
 TGGAGAAAATGTACCTAAAAACCACTCTCCCCGGGGGCTCTGATGCGCAAAAAGGACGC
 CCATTCCTCTTTCTTTCCCTCCGCCCTTTTGTATTTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_001773

Insert Size:

2620 bp

OTI Disclaimer:

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).

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_001773.1 , NP_001764.1
RefSeq Size:	2657 bp
RefSeq ORF:	987 bp
Locus ID:	947
UniProt ID:	P28906
Cytogenetics:	1q32.2
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs), Hematopoietic cell lineage
Gene Summary:	<p>The protein encoded by this gene may play a role in the attachment of stem cells to the bone marrow extracellular matrix or to stromal cells. This single-pass membrane protein is highly glycosylated and phosphorylated by protein kinase C. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a.</p>