

Product datasheet for **SC118170**

CD43 (SPN) (NM_003123) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD43 (SPN) (NM_003123) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD43
Synonyms:	CD43; GALGP; GPL115; LSN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118170 sequence for NM_003123 edited (data generated by NextGen Sequencing)

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ATGGCCACGCTTCTCCTTCTCCTTGGGGTCTGGTGGTAAGCCCAGACGCTCTGGGGAGC
ACAACAGCAGTGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCTG
AGCTCAAAGATGTACACCACTTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGAC
CAGACCTCAGCCCTACCTCCCTCAACTTCCATCAATGAGGGATCCCTCTTTGGACTTCC
ATTGGTCCAGCACTGGTTCCTTACCTGAGCCAACAACCTACCAGGAAGTTCCATC
AAGATGTCATCAGTGCCCGAGAAACCCCTCATGCAACCAGTCATCCTGCTGTTCCATA
ACAGCAAACCTCTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTCTCCA
GAAACCTCCAGTAGGACCACTGGAGCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACC
TCCAGAGGCACCTCTGGACCCCTTACCATGGCAACTGTCTCTCTGGAGACTTCCAAA
GGCACCTCTGGACCCCTGTTACCATGGCAACTGACTCTCTGGAGACCTCCACTGGGACC
ACTGGACCCCTGTTACCATGACAACTGGCTCTCTGGAGCCCTCCAGCGGGGCCAGTGGA
CCCCAGGTCTCTAGCGTAAAATCTACAATGATGTCTCCAACGACCTCCACCAACGCA
AGCACTGTGCCCTTCCGGAACCCAGATGAGAACTCACGAGGCATGCTGCCAGTGGCTGTG
CTTGTGGCCCTGCTGGCGGTATAGTCTCGTGGCTCTGCTCTGCTGTGGCCCGGGCGG
CAGAAGCGGCGGACTGGGGCCCTCGTGTGAGCAGAGGCGGAAGCGTAACGGGGTGGTG
GACGCCTGGGCTGGGCCAGCCAGTCCCTGAGGAGGGGGCCGTGACAGTGACCGTGGGA
GGTCCGGGGGCGACAAGGGCTCTGGTTCCCCGATGGGGAGGGGTCTAGCCGTCGGCCC
ACGCTCACCACTTTCTTTGGCAGACGGAAGTCTCGCCAGGGCTCCCTGGCGATGGAGGAG
CTGAAGTCTGGGTGAGGCCCCAGCTCAAAGGGGAGGAGGCCACTGGTGGCCAGTGAG
GATGGGGCTGTGGACGCCCCAGCTCTGATGAGCCCGAAGGGGGAGACGGGGCTGCCCT
TAA

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Clone variation with respect to NM_003123.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003123 unedited</p> <pre> NGGTTCCGATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACGAGGGACCTGGC CCCAGTGTCTGCGTCTTATCAGCCGAGCCGGTCCCAGCTCTTGCTCCTGCCTGTTTGCT GGAAATGGCCACGCTTCTCCTTCTCCTTGGGGTGTGGTGGTAAGCCCAGACGCTCTGGG GAGCACAACAGCAGTGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCC CCTGAGCTCAAAGATGTACACCATTCAATAACAAGTGACCCTAAGGCCGACAGCATTGG GGACCAGACCTCAGCCCTACCTCCCTCAACTCCATCAATGAGGGATCCCCTCTTTGGAC TTCCATTGGTGCCAGCACTGGTTCCCTTTACCTGAGCCAACAACCTACCAGGAAGTTTC CATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCCTGCTGTTCC CATAACAGCAAATCTCTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTC TCCAGAAACCTCCAGTAGGACCAGTGGAGCCCCTGTTACCACGGCAGCTAGCTCTCTGGA GACCTCCAGAGGCACCTCTGGACCCCCTTTACCATGGCAACTGTCTCTCTGGAGACTTC CAAAGGCACCTCTGGACCCCCTGTTACCATGGCAACTGACTCTCTGGAGACCTCCACTGG GACCACTGGACCCNCTGTTACCATGACAACCTGGCTCTCTGGAGCCCTCCAGCGGGGCCAG TGGACCCAGGTCTCTAGCGTAAACTATCTACAATGATGTCTCCAACGACCTNCACCAA CGCAAGCACTGTGCCCTTCCCGAACCCAGATGAGAACTCACGAGGCATGCTGCCAGTGGC TGTGCTTGTGGCCCTGTGCNGTCATAGTCTCT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003123 unedited</p> <pre> CGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTTGGAGAAAAAGGGGTGGATGAG GAGGGTTTATTCATTAGTCCACAGACGTTGAGAGGTGCCAGCCCTGCCCTGCCAGGGC CTAGTTGTGGGTGCTGGGTGAGGATGGCAGCAGGAAATCCAGGGTGAGAAGCCTCATGA GGATTCAGAGTGAAGAGTGGGTGAGGAGGCAAGGCGCGGAGGCTCATGTCTGTAATCTC AGCACTTTGGGAGGCTGAGGCAGGTAGATCACCTGAGGTGAGGAGTTTGAGACCAGCCTA GCCAACATGGTGAAACCCCATCTCTACCAAAAATACAAAAAGCAGCTGGGCATGGTGGT GGGTGCCTGTAATCTCAGTTACTCGGGAAGCTGAGGCAGGAGAATCGCCTGAACTTAGGA GGCAGAGGTTGCAGTGAAGTGCATCGTGCATTGCACTCCAGCCTGGGCGACAAAGCGAA ACTCTGTCTCAAAGAAAAAAGGAGATTCGGGTGAGGATCAGGGTGCCGGGTGGA AACATGGGAGCGAGGGGGCAGTGGGATGGTGAGAGGGAAGGTGCTGGAGGCTGGCTGAGA TTCCGGCCTCCAGCCTCACTATTCACCGACACTTAAGGGGCAGCCCCGTCTCCCCCTTC GGCTCATCAGGAGCTGGGGCGTCCACAGCCCCATTCTACTGGCCACCAGTGGCTCCTCC TCCCTTTGAGGCTGGGGCCTGACCCAGACTTACGCTCCNTCATCGCCAGGGAGCCCTG GCGAGACTTCCGTCTGCCAAAGAAAGTGGTGAGCGTTGGCCGACGGCTAGAACCCTCCCC ATCGGGCAACCCATAGCCCTTGTGCCCCCGGCACCTCCCCGGTCACTTGTACGGCCCT TCTTAGGACCTCGGGGTTGGCCGCCCCAGTCGTTCCCCACCCGTACGCTTGCCCCCTT GCCCATACCAGGCCCA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003123
Insert Size:	1880 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:

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_003123.2](#), [NP_003114.1](#)

RefSeq Size: 2288 bp

RefSeq ORF: 1203 bp

Locus ID: 6693

UniProt ID: [P16150](#)

Cytogenetics: 16p11.2

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

Gene Summary: This gene encodes a highly sialylated glycoprotein that functions in antigen-specific activation of T cells, and is found on the surface of thymocytes, T lymphocytes, monocytes, granulocytes, and some B lymphocytes. It contains a mucin-like extracellular domain, a transmembrane region and a carboxy-terminal intracellular region. The extracellular domain has a high proportion of serine and threonine residues, allowing extensive O-glycosylation, and has one potential N-glycosylation site, while the carboxy-terminal region has potential phosphorylation sites that may mediate transduction of activation signals. Different glycoforms of this protein have been described. In stimulated immune cells, proteolytic cleavage of the extracellular domain occurs in some cell types, releasing a soluble extracellular fragment. Defects in expression of this gene are associated with Wiskott-Aldrich syndrome. [provided by RefSeq, Sep 2017]

Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.