

Product datasheet for **SC302510**

CD43 (SPN) (NM_001030288) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD43 (SPN) (NM_001030288) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD43
Synonyms:	CD43; GALGP; GPL115; LSN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302510 representing NM_001030288. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGGCCACGCTTCTCTTCTCCTTGGGGTCTGGTGGTAAGCCCAGACGCTCTGGGGAGCACAACAGCA
GTGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCTGAGCTCAAAGATGTACACC
ACTTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACT
TCCATCAATGAGGGATCCCTCTTTGGACTTCCATTGGTGCCAGCACTGGTTCCTTTACCTGAGCCA
ACAACCTACCAGGAAGTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGAACCAAGTCAT
CCTGCTGTTCCATAACAGCAAACCTCTCTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAAC
TCTCCAGAAACCTCCAGTAGGACCAGTGGAGCCCTGTTACCACGCGAGCTAGCTCTCTGGAGACCTCC
AGAGGCACCTCTGGACCCCTCTTACCATGGCAACTGTCTCTCTGGAGACTTCCAAAGGCACCTCTGGA
CCCCCTGTTACCATGGCAACTGACTCTCTGGAGACCTCCACTGGGACCACTGGACCCCTGTTACCATG
ACAACCTGGCTCTCTGGAGCCCTCCAGCGGGGCCAGTGGACCCAGGTCTCTAGCGTAAACCTATCTACA
ATGATGTCTCAACGACCTCCACCAACGCAAGCACTGTGCCCTTCCGGAACCCAGATGAGAACTCACGA
GGCATGCTGCCAGTGGCTGTGCTTGTGGCCCTGCTGGCGGTATAGTCCTCGTGGCTCTGCTCCTGCTG
TGGCGCCGGCGGCAGAACGCGCGGACTGGGGCCCTCGTGCTGAGCAGAGGCGGCAAGCGTAACGGGGTG
GTGGACGCTGGGCTGGGCCAGCCAGGTCCCTGAGGAGGGGGCCGTGACAGTGACCGTGGGAGGGTCC
GGGGGCGACAAGGCTCTGGGTTCCCCGATGGGGAGGGGTCTAGCCGTGCGGCCACGCTCACCCTTTC
TTTGGCAGACGGAAGTCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTGAGGCCCCAGC
CTCAAAGGGGAGGAGGAGCCACTGGTGGCCAGTGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAG
CCCGAAGGGGAGACGGGGCTGCCCT**TAA**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI



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ACCN:	NM_001030288
Insert Size:	1203 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_001030288.2</u>
RefSeq Size:	6944 bp
RefSeq ORF:	1203 bp
Locus ID:	6693
UniProt ID:	<u>P16150</u>
Cytogenetics:	16p11.2
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)
MW:	40.3 kDa

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 (1) represents the longer transcript. 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.