

Product datasheet for RC214120

CD43 (SPN) (NM_001030288) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD43 (SPN) (NM_001030288) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD43
Synonyms:	CD43; GALGP; GPL115; LSN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214120 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGCTTCTCCTTCTCCTTGGGGTCTGGTGGTAAGCCCAGACGCTCTGGGGAGCACAACAGCAG
TGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCTGAGCTCAAAGATGTACACCAC
TTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACTTCC
ATCAATGAGGGATCCCTCTTTGGACTTCCATTGGTGCCAGCACTGGTTCCCTTTACCTGAGCCAAACA
CCTACCAGGAAGTTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCTGC
TGTTCCCATAAACAGAACTCTCTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTCTCCA
GAAACCTCCAGTAGGACCACTGGAGCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACCTCCAGAGGCA
CCTCTGGACCCCTCTTACCATGGCAACTGTCTCTCTGGAGACTTCCAAAGGCACCTCTGGACCCCTGT
TACCATGGCAACTGACTCTCTGGAGACCTCCACTGGGACCACTGGACCCCTGTTACCATGACAAGTGGC
TCTCTGGAGCCCTCCAGCGGGCCAGTGGACCCAGGTCTCTAGCGTAAAATATCTACAATGATGTCTC
CAACGACCTCCACCAACGCAAGCACTGTGCCCTCCGGAACCCAGATGAGAACTCAGGAGCATGCTGCC
AGTGGCTGTGCTTGTGGCCCTGCTGGCGGTTCATAGTCTCGTGGCTCTGCTCTGCTGTGGCGCCGGCGG
CAGAAGCGCGGACTGGGGCCCTCGTGTGAGCAGAGGCGGCAAGCGTAACGGGGTGGTGGACGCTGGG
CTGGGCCAGCCAGGTCCCTGAGGAGGGGCCGTGACAGTGACCGTGGGAGGGTCCGGGGGCGACAAGGG
CTCTGGGTTCCCGATGGGGAGGGTCTAGCCGTGGGCCACGCTCACCCTTTCTTTGGCAGACGGAAG
TCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTCAGGCCCCAGCCTCAAAGGGGAGGAGG
AGCCACTGGTGGCCAGTGAGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAGCCGAAGGGGGAGACGG
GGTGGCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC214120 protein sequence
Red=Cloning site Green=Tags(s)

MATLLLLLGVLVVSPDALGSTTAVQTPSTGEPLVSTSEPLSSKMYTTSITSDPKADSTGDQTSALPPSTS
 INEGSPLWTSIGASTGSPLPEPTTYQEVSIMSSVPQETPHATSHPAVPIITANSLGSHVTGGTITNNSP
 ETSSRTSGAPVTTAASSLETSSRGTSGPPLTMATVLSLETSGKTSGPPVMTADSLSTGTTGPPVTMTTG
 SLEPSSGASGPQVSSVKLSTMMSPTTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLLWRRR
 QKRRTGALVLSRGGKRVVDAWAGPAQVPEEGAVTVTVGGSGDGKSGFDPGEGSSRRPTLTFFGRRK
 SRQGLAMEELKSGSGPSLKGEELVASEDGAVDAPAPDEPEGGGAAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6430_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001030288

ORF Size: 1200 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001030288.3](#)

RefSeq Size: 6944 bp

RefSeq ORF: 1203 bp

Locus ID: 6693

UniProt ID: [P16150](#)

Cytogenetics: 16p11.2

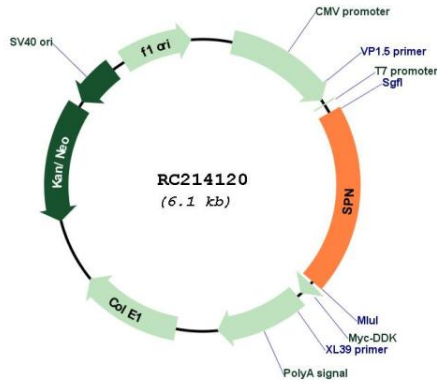
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs)

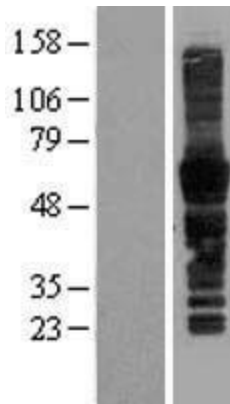
MW: 40.3 kDa

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]

Product images:



Circular map for RC214120



Western blot validation of overexpression lysate (Cat# [LY422249]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214120 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).