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Product datasheet for RC204195

CD43 (SPN) (NM_003123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD43 (SPN) (NM_003123) 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:

>RC204195 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACGCTTCTCCTTCTCCTTGGGGTGCTGGTGGTAAGCCCAGACGCTCTGGGGAGCACAACAGCAG
TGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCCTGAGCTCAAAGATGTACACCAC
TTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACTTCC
ATCAATGAGGGATCCCCTCTTTGGACTTCCATTGGTGCCAGCACTGGTTCCCCTTTACCTGAGCCAACAA
CCTACCAGGAAGTTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCCTGC
TGTTCCCATAACAGCAAACTCTCTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTCTCCA
GAAACCTCCAGTAGGACCAGTGGAGCCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACCTCCAGAGGCA
CCTCTGGACCCCCTCTTACCATGGCAACTGTCTCTCTGGAGACTTCCAAAGGCACCTCTGGACCCCCTGT
TACCATGGCAACTGACTCTCTGGAGACCTCCACTGGGACCACTGGACCCCCTGTTACCATGACAACTGGC
TCTCTGGAGCCCTCCAGCGGGGCCAGTGGACCCCAGGTCTCTAGCGTAAAACTATCTACAATGATGTCTC
CAACGACCTCCACCAACGCAAGCACTGTGCCCTTCCGGAACCCAGATGAGAACTCACGAGGCATGCTGCC
AGTGGCTGTGCTTGTGGCCCTGCTGGCGGTCATAGTCCTCGTGGCTCTGCTCCTGCTGTGGCGCCGGCGG
CAGAAGCGGCGGACTGGGGCCCTCGTGCTGAGCAGAGGCGGCAAGCGTAACGGGGTGGTGGACGCCTGGG
CTGGGCCAGCCCAGGTCCCTGAGGAGGGGGCCGTGACAGTGACCGTGGGAGGGTCCGGGGGCGACAAGGG
CTCTGGGTTCCCCGATGGGGAGGGGTCTAGCCGTCGGCCCACGCTCACCACTTTCTTTGGCAGACGGAAG
TCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTCAGGCCCCAGCCTCAAAGGGGAGGAGG
AGCCACTGGTGGCCAGTGAGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAGCCCGAAGGGGGAGACGG
GGCTGCCCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC204195 protein sequence
Red=Cloning site Green=Tags(s)

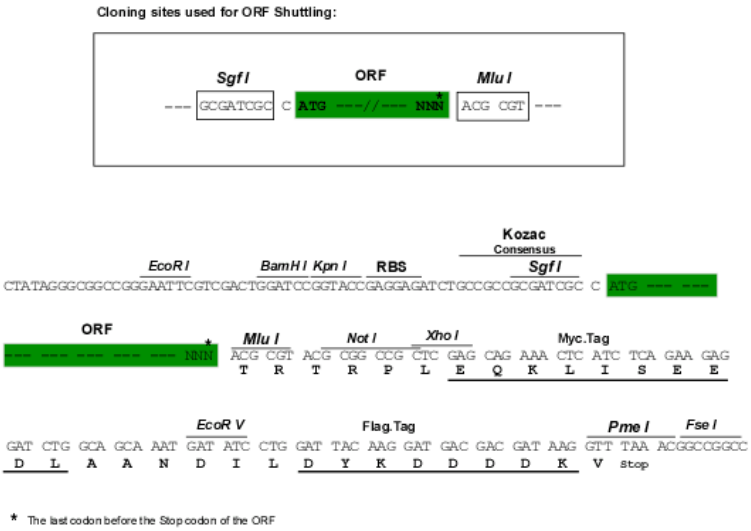
MATLLLLLGVLVVSPDALGSTTAVQTPTSGEPLVSTSEPLSSKMYTTSITSDPKADSTGDQTSALPPSTS
INEGSPLWTSIGASTGSPLPEPTTYQEVSIKMSSVPQETPHATSHPAVPITANSLGSHTVTGGTITTNSP
ETSSRTSGAPVTTAASSLETSRGTSGPPLTMATVSLETSKGTSGPPVTMATDSLETSTGTTGPPVTMTTG
SLEPSSGASGPQVSSVKLSTMMSPTTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLLWRRR
QKRRTGALVLSRGGKRNGVVDAWAGPAQVPEEGAVTVTVGGSGGDKGSGFPDGEGSSRRPTLTTFFGRRK
SRQGSLAMEELKSGSGPSLKGEEEPLVASEDGAVDAPAPDEPEGGDGAAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003123

ORF Size: 1200 bp

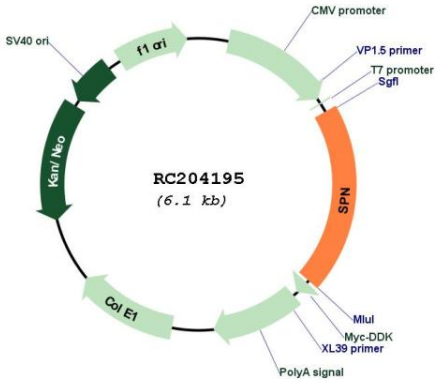
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

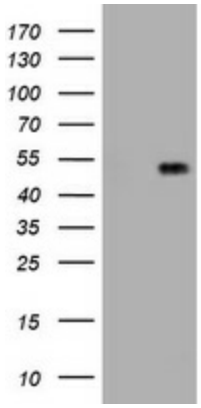
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003123.6
RefSeq Size:	6911 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]

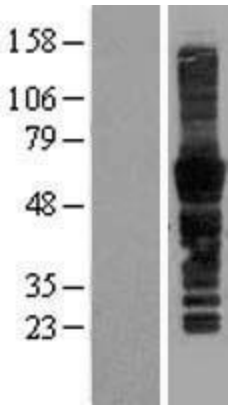
Product images:



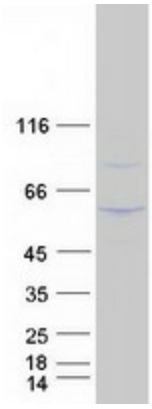
Circular map for RC204195



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SPN (Cat# RC204195, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPN(Cat# [TA800785]). Positive lysates [LY418888] (100ug) and [LC418888] (20ug) can be purchased separately from OriGene.



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



Coomassie blue staining of purified SPN protein (Cat# [TP304195]). The protein was produced from HEK293T cells transfected with SPN cDNA clone (Cat# RC204195) using MegaTran 2.0 (Cat# [TT210002]).