

Product datasheet for **RG204195**

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:	TurboGFP
Symbol:	CD43
Synonyms:	CD43; GALGP; GPL115; LSN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204195 representing NM_003123 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGCTTCTCCTTCTCCTTGGGGTGTGGTAAAGCCCAGACGCTCTGGGGAGCACAACAGCAG
TGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCTGAGCTCAAAGATGTACACCAC
TTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACTTCC
ATCAATGAGGGATCCCTCTTTGGACTTCCATTGGTGCCAGCACTGGTTCCCTTTACCTGAGCCAAACA
CCTACCAGGAAGTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCTGC
TGTTCCATAACAGCAAACCTCTTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTCTCCA
GAAACCTCCAGTAGGACCACTGGAGCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACCTCCAGAGGCA
CCTCTGGACCCCTCTTACCATGGCAACTGTCTCTCTGGAGACTTCAAAGGCACCTCTGGACCCCTGT
TACCATGGCAACTGACTCTCTGGAGACCTCCACTGGGACCACTGGACCCCTGTTACCATGACAAGTGGC
TCTCTGGAGCCCTCCAGCGGGCCAGTGGACCCAGGTCTCTAGCGTAAACTATCTACAATGATGTCTC
CAACGACCTCCACCAACGCAAGCACTGTGCCCTCCGGAACCCAGATGAGAACTCAGGAGCATGCTGCC
AGTGGCTGTGCTTGTGGCCCTGCTGGCGGTATAGTCTCGTGGCTCTGCTCTGCTGTGGCGCCGGCGG
CAGAAGCGCGGACTGGGGCCCTCGTGTGAGCAGAGGGCGCAAGCGTAACGGGGTGGTGGACGCCTGGG
CTGGGCCAGCCCAGGTCCCTGAGGAGGGGCCGTGACAGTGACCGTGGGAGGGTCCGGGGGCGACAAGGG
CTCTGGGTTCCCGATGGGGAGGGTCTAGCCGTGGGCCACGCTCACCCTTTCTTTGGCAGACGGAAG
TCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTCAGGCCCCAGCCTCAAAGGGGAGGAGG
AGCCACTGGTGGCCAGTGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAGCCGAAGGGGGAGACGG
GGTGGCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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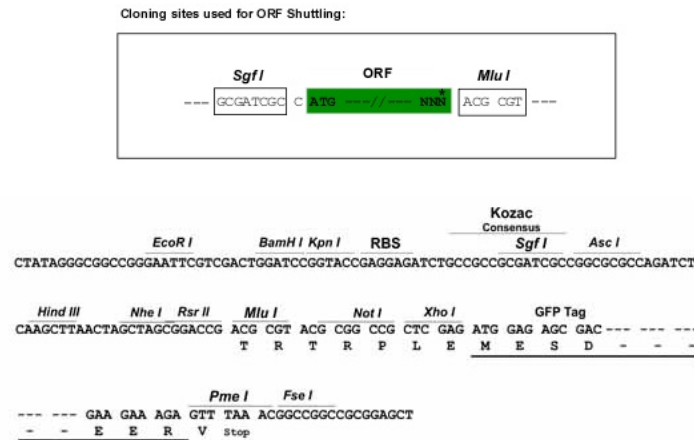
Protein Sequence: >RG204195 representing NM_003123
Red=Cloning site Green=Tags(s)

MATLLLLLVVSPDALGSTTAVQTPSTGEPLVSTSEPLSSKMYTTSITSDPKADSTGDQTSALPPSTS
 INEGSPLWTSIGASTGSPLPEPTTYQEVSIMSSVQPETHATSHPAVPIITANLSGSHVTGGTITNNSP
 ETSSRTSGAPVTTAASSLETSSRGTSPPPLTMATVSLKTSKGTSGPPVTMADTSLETSTGTTGPPVTMTTG
 SLEPSSGASGPQVSSVKLSTMMSPSTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLWRRR
 QKRRTGALVLSRGGKRVVDAWAGPAQVPEEGAVTVTVGGSGGDKGSGFPDGEGRRLTTFGRRR
 SRQGLAMEELKSGSGPSLKGEEELVASEDGAVDAPAPDEPEGGGAAP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003123

ORF Size: 1200 bp

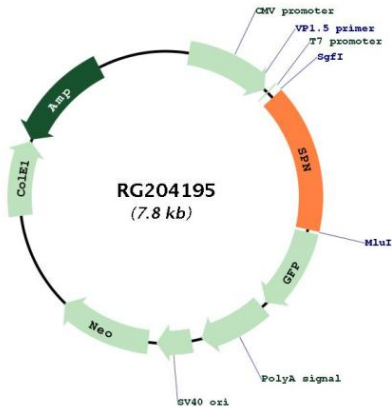
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_003123.6
RefSeq Size:	6871 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:	<p>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]</p>

Product images:



Circular map for RG204195