

Product datasheet for **RG214120**

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:	TurboGFP
Symbol:	SPN
Synonyms:	CD43; GALGP; GPL115; LSN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG214120 representing NM_001030288 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGCTTCTCCTTCTCCTTGGGGTCTGGTGGTAAGCCCAGACGCTCTGGGGAGCACAAACAGCAG
TGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCTGAGCTCAAAGATGTACACCAC
TTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACTTCC
ATCAATGAGGGATCCCTCTTTGGACTTCCATTGGTGCCAGCACTGGTCCCTTTACCTGAGCCAAACA
CCTACCAGGAAGTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCTGC
TGTTCCATAACAGCAAACCTCTTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTCTCCA
GAAACCTCCAGTAGGACCACTGGAGCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACCTCCAGAGGCA
CCTCTGGACCCCTCTTACCATGGCAACTGTCTCTCTGGAGACTTCCAAAGGCACCTCTGGACCCCTGT
TACCATGGCAACTGACTCTCTGGAGACCTCCACTGGGACCACTGGACCCCTGTTACCATGACAACCTGGC
TCTCTGGAGCCCTCCAGCGGGCCAGTGGACCCAGGTCTCTAGCGTAAACTATCTACAATGATGTCTC
CAACGACCTCCACCAACGCAAGCACTGTGCCCTCCGGAACCCAGATGAGAACTCAGGAGCATGCTGCC
AGTGGCTGTGCTTGTGGCCCTGCTGGCGGTCATAGTCTCGTGGCTCTGCTCTGCTGTGGCGCCGGCGG
CAGAAGCGCGGACTGGGGCCCTCGTGTGAGCAGAGGGCGCAAGCGTAACGGGGTGGTGGACGCCTGGG
CTGGGCCAGCCCAGGTCCCTGAGGAGGGGCCGTGACAGTGACCGTGGGAGGGTCCGGGGGCGACAAGGG
CTCTGGGTTCCCGATGGGGAGGGTCTAGCCGTGGGCCACGCTCACCCTTTCTTTGGCAGACGGAAG
TCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTCAGGCCCCAGCCTCAAAGGGGAGGAGG
AGCCACTGGTGGCCAGTGAGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAGCCGAAGGGGGAGACGG
GGTGGCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214120 representing NM_001030288
 Red=Cloning site Green=Tags(s)

MATLLLLLVSPDALGSTTAVQTPSTGEPLVSTSEPLSSKMYTTSITSDPKADSTGDQTSALPPSTS
 INEGSPLWTSIGASTGSPLPEPTTYQEVSIMSSVPEQTPHATSHPAVPITANSLGSHTVTGGTITNNSP
 ETSSRTSGAPVTTAASSLETSSRGTSGPPLTMATVSLKTSKGTSGPPVTMATDSLETSTGTGPPVTMTTG
 SLEPSSGASGPQVSSVKLSTMMSPPTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLWRRR
 QKRRTGALVLSRGKRVVVDADAWGPAQVPEEGAVTVTVGGSGGDKGSGFPDGEGRRLTTFGRRR
 SRQGLAMEELKSGSGPSLKGEELVASEDGAVDAPAPDEPEGGGAAP

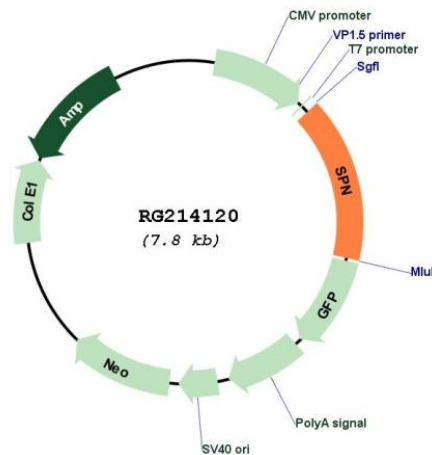
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_001030288.3
RefSeq Size:	6915 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]