

Product datasheet for **RG212485**

CD21 (CR2) (NM_001006658) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD21 (CR2) (NM_001006658) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD21
Synonyms:	C3DR; CD21; CR; CVID7; SLEB9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212485 representing NM_001006658 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGCCGGGCTGCTCGGGTTTTCTTGGCTCTCGTCGCACCGGGGCTCTCGGATTTCTGTG
GCTCTCCTCCGCCTATCCTAAATGGCCGATTAGTTATTATTCTACCCCATTCGTTGGTACCGTGT
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CCATAGTACCAGGAGGATACAAAATTAGAGGCTCTACCCCTACAGACATGGTGATTCTGTGACATTTGC
CTGTAAAACCAACTTCTCCATGAACGGAAACAAGTCTGTTTGGTGTCAAGCAAATAATATGTGGGGCCG
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GAAGAGGCACGCTGTAATCTCTAGGACGATTTCCCAATGGGAAGGTAAGGAGCCTCCAATTCTCCGGG
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GTCAACTCTTCTTGTGGTGAAGGTACAAGTTAAGTGGGAGTGTTTATCAGGAGTGTCAAGGCACAATTC
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CTTTTCATTTAGAAGCACGAGAAGTATATTCTGTTGATCCATACAACCCAGCCAGC
    
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212485 representing NM_001006658

Red=Cloning site Green=Tags(s)

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MGAAGLLGVFLALVAPGVLGISCGSPPIILNGRISYYSTPIAVGTVIRYSCSGTFRLLIGEKSLLCITKDK
VDGTWDPKPAKCEYFNKYSSCEPIVPGGYKIRGSTPYRHGDSVTFACKTNFSMNGNKSVMCQANNMWP
TRLPTCVSVFPLECPALPMIHNGHHTSENVGSIAPGLSVTYSCESGYLLVGEKIINCLSSGKWSAVPPTC
EEARCKSLGRFPNGKVKEPPIILRVGVTANFFCDEGYRLQPPSSRCVIAGQGVAWTKMPVCEEIFCPSP
PILNGRHIGNSLANVSYGSIVTYTCDPDPPEEGVNFILIGESTLRCTVDSQKTGTWSGPAPRCELSTSAVQ
CPHPQILRGRMVSGQKDRYTYNDTVIFACMFGFTLKGSKQIRCNAQGTWEPSPAPVCEKECQAPPNINLNGQ
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SIHCMPSGNWSPSAPRCEETCQHVRQSLQELPAGSRVELVNTSCQDGYQLTGHAQYMCQDAENGIWFKKI
PLCKVIHCHPPPVI VNGKHTGMAENFLYGNEVSYECDQGFYLLGEKQLQCRSDSKGHGWSGSPQCLR
SPPVTRCPNPEVKHGYKLNKTHSAYSHNDIVYDCNPGFIMNGSRVIRCHTDNTWVPGVPTCIKKAFIGC
PPPPKTPNGNHTGGNIARFSPGMSILYSCDQGYLLVGEALLLCTHEGTWSQPAPHCKEVCNCSPADMDGI
QKGLEPRKMYQYGA VVTLECEDGYMLEGSPQSQCSQSDHQWNPPLAVCRSRSLAPVLCGIAAGLILLTFLI
VITLYVISKHRARNYYTDTSQEAFHLEAREVYSVDPYNPAS
    
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TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001006658

ORF Size: 3276 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:

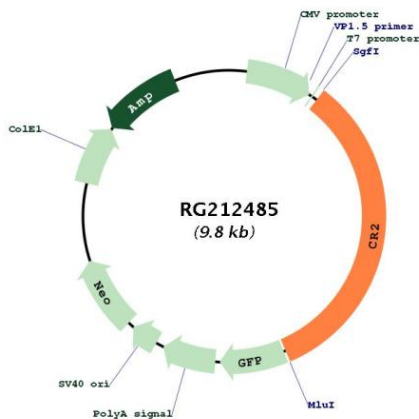
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001006658.3](#)
RefSeq Size: 4184 bp
RefSeq ORF: 3279 bp

Locus ID: 1380
UniProt ID: [P20023](#)
Cytogenetics: 1q32.2
Protein Families: Druggable Genome, Transmembrane
Protein Pathways: B cell receptor signaling pathway, Complement and coagulation cascades, Hematopoietic cell lineage

Gene Summary: This gene encodes a membrane protein, which functions as a receptor for Epstein-Barr virus (EBV) binding on B and T lymphocytes. Genetic variations in this gene are associated with susceptibility to systemic lupus erythematosus type 9 (SLEB9). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RG212485