

Product datasheet for **RG221379**

CD21 (CR2) (NM_001877) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CD21 (CR2) (NM_001877) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CR2 |
| 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: | >RG221379 representing NM_001877 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGCCGGGCTGCTCGGGTTTTCTTGGCTCTCGTCGCACCGGGGGTCTCGGGATTTCTGTG
GCTCTCCTCCGCCTATCCTAAATGGCCGGATTAGTTATTATTCTACCCCATTCGTTGGTACCGTGAT
AAGGTACAGTTGTTCAAGTACCTCCGCCTCATTGGAGAAAAAGTCTATTATGCATAACTAAAGACAAA
GTGGATGGAACCTGGGATAAACCTGCTCCTAAATGTGAATATTTCAATAAATATTCTTCTGCCCTGAGC
CCATAGTACCAGGAGGATACAAAATTAGAGGCTCTACCCCTACAGACATGGTGATTCTGTGACATTTGC
CTGTAAAACCAACTTCTCCATGAACGGAAACAAGTCTGTTTGGTGTCAAGCAAATAATATGTGGGGCCG
ACACGACTACCAACCTGTGTAAGTGTTCCTCTCGAGTGTCCAGCACTTCTATGATCCACAATGGAC
ATCACACAAGTGAGAATGTTGGCTCCATTGCTCCAGGATTGTCTGTGACTTACAGCTGTGAATCTGGTTA
CTTGCTTGTGGAGAAAAGATCATTAACTGTTGTCTTCGGGAAAATGGAGTGCTGTCCCCCACCATGT
GAAGAGGCACGCTGTAATCTCTAGGACGATTTCCCAATGGGAAGGTAAGGAGCCTCCAATTCTCCGGG
TTGGTGAAGTCAAACCTTTTTCTGTGATGAAGGTATCGACTGCAAGGCCACCTTCTAGTCGGTGTGT
AATTGCTGGACAGGGAGTTGCTTGGACAAAATGCCAGTATGTGAAGAAATTTTTGCCCATCACCTCCC
CCTATTCTCAATGGAAGACATATAGGCACTCACTAGCAATGTCTCATATGGAAGCATAGTCACTTACA
CTTGAGCCCGACCCAGAGGAAGGAGTGAACCTCATCCTTATTGGAGAGAGCACTCTCCGTTGTACAGT
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CTGTGATATTTGCTTGCATGTTTGGCTTACCTTGAAGGCAGCAAGCAAATCCGATGCAATGCCAAGG
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GTCAACTCTTCTTGTGGTGAAGGTACAAGTTAAGTGGGAGTGTTTATCAGGAGTGTCAAGGCACAATTC
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 AACTGTAGCTCACCAGCAGATATGGATGGAATCCAGAAAGGGCTGGAACCAAGGAAAAATGTATCAGTATG
 GAGCTGTTGTAACCTGGAGTGTGAAGATGGGTATATGCTGGAAGGCAGTCCCAGAGCCAGTGCCAATC
 GGATCACCATGGAACCTCCCCTGGCGGTTTGCAGATCCCGTCACTTGCTCCTGTCTTTGTGGTATT
 GCTGCAGGTTTGATACTTCTACCTTCTTGATTGTCATTACCTTATACGTGATATCAAAAACAGAGCAC
 GCAATTATTATACAGATAACAAGCCAGAAAGAAGCTTTTCATTTAGAAGCACGAGAAGTATATTCTGTTGA
 TCCATACAACCCAGCCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221379 representing NM_001877
 Red=Cloning site Green=Tags(s)

MGAAGLLGVFLALVAPGVLGISCGSPPIILNGRISYYSTPIAVGTVIRYSCSGTFRLLIGEKSLLCITKDK
 VDGTWDPKPAKCEYFNKYSSCEPIVPGGYKIRGSTPYRHGDSVTFACKTNFSMNGNKSVMCQANNMWGP
 TRLPTCVSVFPLECPALPMIHNGHHTSENVGSIAPGLSVTYSCESGYLLVGEKIINCLSSGKWSAVPPTC
 EEARCKSLGRFPNGKVKPEPILRVGVTANFFCDEGYRLQPPSSRCVIAQGQVAWTKMPVCEEIFCPSPP
 PILNGRHIGNSLANVSYGSIVTYTCDPDPEEGVNFILIGESTLRCTVDSQKTGTWSGPAPRCELSTSAVQ
 CPHPQILRGRMVSGQKDRYTYNDTVIFACMFGFTLKGSQKIRCNAGTWEPSAPVCEKECQAPPNINLNGQ
 KEDRHMVRFDPGTSIKYSCNPGYVLVGEESIQTSEGVWTPPVQCKVAACEATGRQLLTKPQHQFVRPD
 VNSSCGEGYKLSGSVYQECQGTIPWFMEIRLCKEITCPPPPVIYNGAHTGSSLEDFPYGTTVITYTCNPGP
 ERGVEFSLIGESTIRCTSNQERGTWSGPAPLCKLSLLAVQCASHVHIANGYKISGKEAPYFYNDTVTFKC
 YSGFTLKGSSQIRCKADNTWDPEIPVCEKETCQHVRQSLQELPAGSRVELVNTSCQDGYQLTGHAQYMCQ
 DAENGIWFKIPLCKVIHCHPPPVIYVNGKHTGMAENFLYGNEVSYECDQGFYLLGEKQLQRSDSKGHG
 SWSGPSPQCLRSPPVTRCPNPEVKHGYKLNKTHSAYSHNDIVYVDCNPGFIMNGSRVIRCHTDNTWVPGV
 PTCIKKAFIGCPPPKTPNGNHTGGNIARFSPGMSILYSCDQGYLLVGEALLLCTHEGTWSQPAPHCKEV
 NCSSPADMDGIQKLEPRKMYQYGAVVTLCECDGYMLEGSPQSQSDHQWNPPLAVCRSRSLAPVLCGI
 AAGLILLTFLIVITLYVISKHRARNYYTDTSQEAFHLEAREVYSDPYNPAS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

| | |
|-------------------------------|---|
| 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_001877.5 |
| RefSeq Size: | 3982 bp |
| RefSeq ORF: | 3102 bp |
| Locus ID: | 1380 |
| UniProt ID: | P20023 |
| Cytogenetics: | 1q32.2 |
| Domains: | CCP |
| 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] |