

## Product datasheet for **RG221570**

### CD20 (MS4A1) (NM\_152866) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** CD20 (MS4A1) (NM\_152866) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** CD20  
**Synonyms:** B1; Bp35; CD20; CVID5; FMC7; LEU-16; MS4A2; S7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG221570 representing NM\_152866  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAACACCCAGAAATTCAGTAAATGGGACTTCCCGGCAGAGCCAATGAAAGGCCCTATTGCTATGC  
AATCTGGTCCAAAACCACTCTTCAGGAGGATGTCTTCACTGGTGGGCCCCACGCAAAGCTTCTTCATGAG  
GGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAATGGGCTCTCCACATTGCCCTGGGGGTCTTCTG  
ATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATTATGT  
ATATTATTTCCGGATCACTCCTGGCAGCAACGGAGAAAACTCCAGGAAGTGTGGTCAAAGGAAAAAT  
GATAATGAATTCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAAT  
ATTAATAATTTCCATTTTTTAAAAATGGAGAGTCTGAATTTTATTAGAGCTCACACACCATATATTAACA  
TATACAACTGTGAACCAGCTAATCCCTCTGAGAAAACTCCCATCTACCCAATACTGTTACAGCATACA  
ATCTCTGTTCTTGGGCATTTTGTGAGTGTGATCTTTGCCTTCTCCAGGAAGTGTAAATAGCTGGC  
ATCGTTGAGAATGAATGGAAAAGAACGTGCTCCAGACCCAAATCTAACATAGTTCTCCTGTGAGCAGAA  
AAAAAAGAAGACAGACTATTGAAATAAAGAAGAAGTGGTGGGTAAGTAAACATCTTCCCAACAAA  
GAATGAAGAAGACATTGAAATTTCCAATCCAAGAAGAGGAAGAAGAAGAACAGAGACGAAGTCTTCCA  
GAACCTCCCAAGATCAGGAATCCTCACCAATAGAAAATGACAGCTCTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG221570 representing NM\_152866  
Red=Cloning site Green=Tags(s)

MTTPRNSVNGTFPAEPMKGIAMQSGPKPLFRMSSLVGPTQSFMRKSLTLGAVQIMNGLFHIALGGLL  
MIPAGIYAPICVTWYPLWGGIMYIISGSLLAATEKNSRKCLVKGKMIMNSLSLFAAISGMILSIMDILN  
IKISHFLKMESLNFIRAHTPYINIYNCEPANPSEKNSPSTQYCYSIQSLFLGILSVMLIFAFFQELVIAG  
IVENEWKRTCSPKSNIVLLSAEEKKEQTIETIKKEEVVGLTETSSQPKNEEDIEIPIQEEEEETETNFP  
EPPQDQESSPIENDSSP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152866

**ORF Size:** 891 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.

**RefSeq:** [NM\\_152866.3](#)

**RefSeq Size:** 3594 bp

**RefSeq ORF:** 894 bp

**Locus ID:** 931

**UniProt ID:** [P11836](#)

**Cytogenetics:** 11q12.2

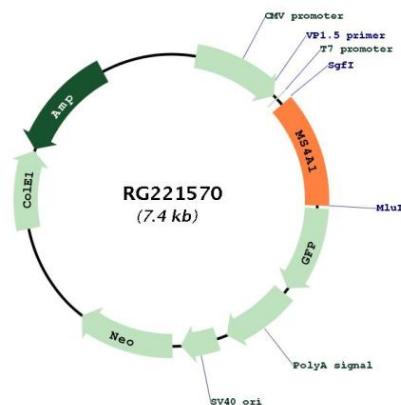
**Domains:** CD20

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Hematopoietic cell lineage

**Gene Summary:** This gene encodes a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. This gene encodes a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. This family member is localized to 11q12, among a cluster of family members. Alternative splicing of this gene results in two transcript variants which encode the same protein. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG221570