

Product datasheet for **RG201242**

CD20 (MS4A1) (NM_021950) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD20 (MS4A1) (NM_021950) 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:	>RG201242 representing NM_021950 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACAACACCCAGAAATTCAGTAAATGGGACTTCCCGGCAGAGCCAATGAAAGGCCCTATTGCTATGC
AATCTGGTCCAAAACCACTCTTCAGGAGGATGTCTTCACTGGTGGGCCCCACGCAAAGCTTCTTCATGAG
GGAATCTAAGACTTTGGGGGCTGTCCAGATTATGAATGGGCTCTCCACATTGCCCTGGGGGTCTTCTG
ATGATCCCAGCAGGGATCTATGCACCCATCTGTGTGACTGTGTGGTACCCTCTCTGGGGAGGCATTATGT
ATATTATTTCCGGATCACTCCTGGCAGCAACGGAGAAAACTCCAGGAAGTGTGGTCAAAGGAAAAAT
GATAATGAATTCATTGAGCCTCTTTGCTGCCATTTCTGGAATGATTCTTTCAATCATGGACATACTTAAT
ATTAATAATTTCCATTTTTTAAAAATGGAGAGTCTGAATTTTATTAGAGCTCACACACCATATATTAACA
TATACAACTGTGAACCAGCTAATCCCTCTGAGAAAACTCCCATCTACCCAATACTGTTACAGCATACA
ATCTCTGTTCTTGGGCATTTTGTGAGTGTGATCTTTGCCTTCTCCAGGAAGTGTAAATAGCTGGC
ATCGTTGAGAATGAATGGAAAAGAACGTGCTCCAGACCCAAATCTAACATAGTTCTCCTGTCAGCAGAAG
AAAAAAAAGAACAGACTATTGAAATAAAAAGAAGAGTGGTTGGGTAAGTAAACATCTTCCCAACAAA
GAATGAAGAAGACATTGAAATTTTCCAATCCAAGAAGAGGAAGAAGAAGAACAGAGACGAAGTCTTCCA
GAACCTCCCAAGATCAGGAATCCTCACCAATAGAAAATGACAGCTCTCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201242 representing NM_021950
 Red=Cloning site Green=Tags(s)

MTTPRNSVNGTFPAEPMKGP IAMQSGPKPLFRMSSLVGPTQSFMRKSLTGAVQIMNGLFHIALGGLL
 MIPAGIYAPICVTWYPLWGGIMYIISGSLAATEKNSRKCLVKGKMIMNSLSLFAAISGMILSIMDILN
 IKISHFLKMESLNFIRAHTPYINIYNCEPANPSEKNSPSTQYCYSIQSLFLGILSVMLIFAFFQELVIAG
 IVENEWKRTCSRPKSNIVLLSAEEKKEQTIEIKEEVVGLTETSSQPKNEEDIEIPIQEEEEETETNFP
 EPPQDQESSPIENDSSP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021950

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_021950.3](#), [NP_068769.2](#)

RefSeq Size: 3331 bp

RefSeq ORF: 894 bp

Locus ID: 931

UniProt ID: [P11836](#)

Cytogenetics: 11q12.2

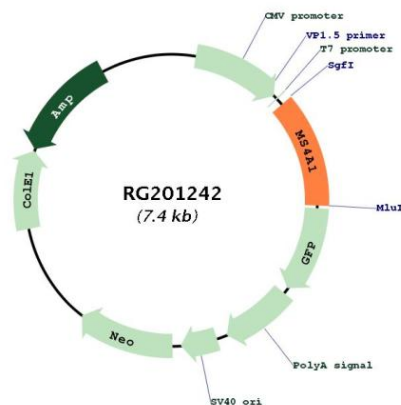
Domains: CD20

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 RG201242