

**Specifications:**

Gene:	caMS4A1
Accession:	NP_001041493
Insert size:	907bp
Concentration:	10µg at 0.2µg/µL

**caCD20 cDNA  
Plasmid**

**MS4A1 membrane spanning 4-  
domains A1 [ *Canis lupus  
familiaris* (dog) ]**

**Also known as:** CD20

**Summary:**

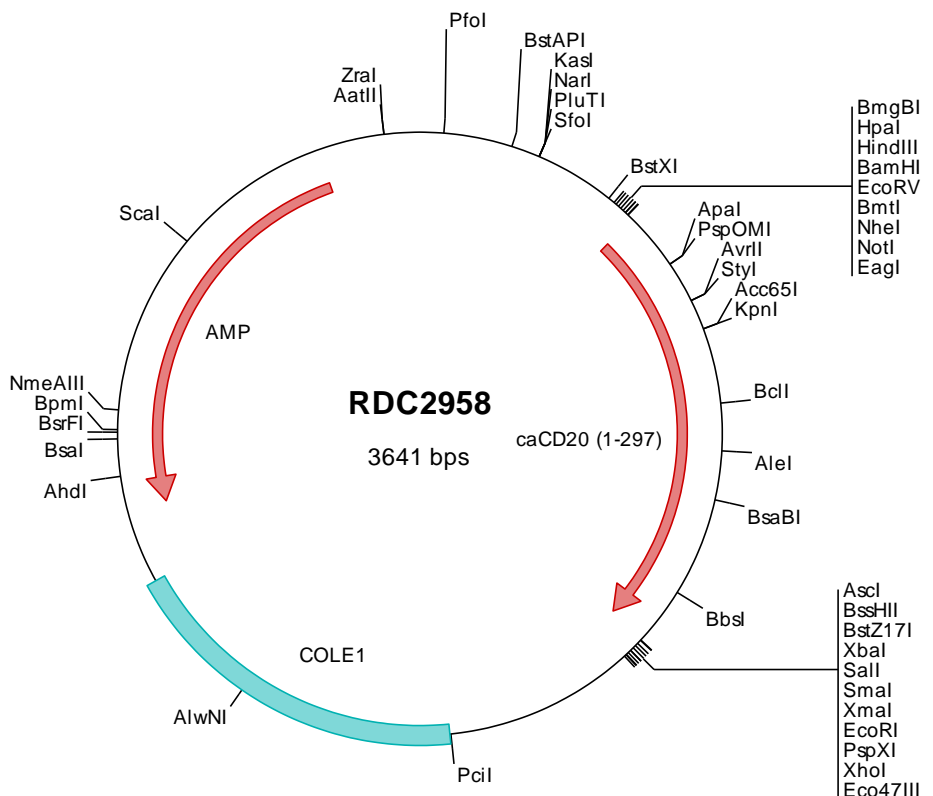
CD20 is a member of the membrane-spanning 4A gene family. Members of this nascent protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. CD20 is expressed on pre-B, naïve and mature B-lymphocytes and B-cell lymphomas. It is a B-lymphocyte surface molecule which plays a role in the development and differentiation of B-cells into plasma cells. Defects in CD20 are the cause of immunodeficiency common variable type 5 (CVID5) also called antibody deficiency due to CD20 defect.

**Description**

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

**Preparation and Storage**

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2958 Plasmid DNA Sequence

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> RDC2958 Translated Insert Sequence

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