

Specifications:

Gene:	hMS4A1
Accession:	NP_068769
Insert size:	906bp
Concentration:	10µg at 0.2µg/µL

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.

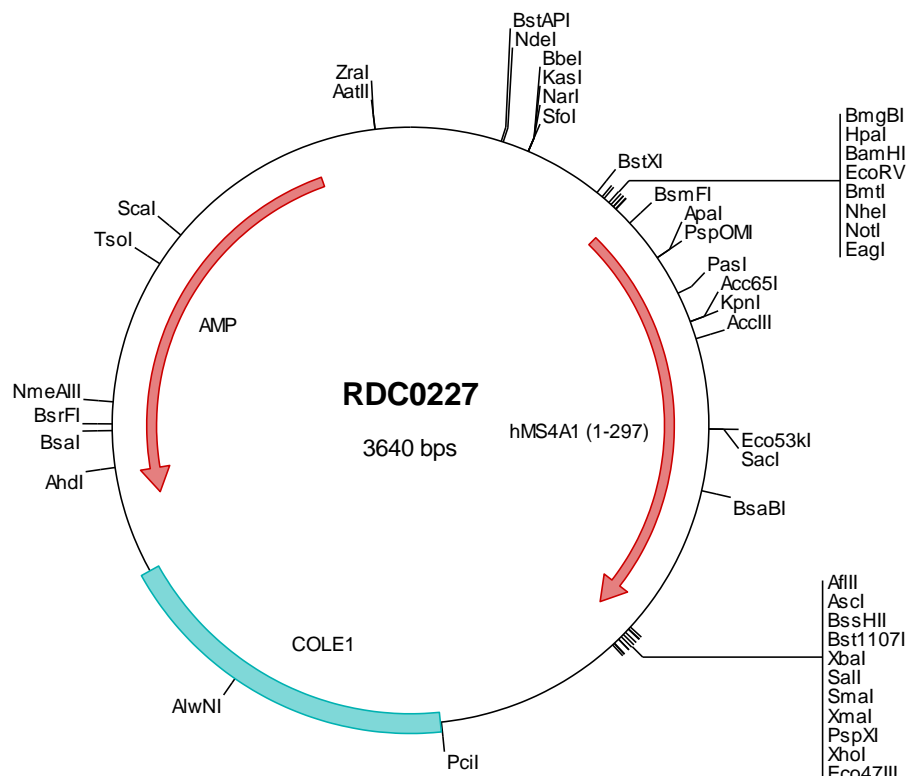
hCD20 cDNA Plasmid

MS4A1 membrane-spanning 4-domains, subfamily A, member 1
[*Homo sapiens*]

Also known as: B1; S7; Bp35;
CD20; CVID5; MS4A2; LEU-16

Summary:

MS4A1 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. MS4A1 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 MS4A1 are the cause of immunodeficiency common variable type 5 (CVID5) also called antibody deficiency due to CD20 defect. CVID5 is a primary immunodeficiency characterized by antibody deficiency, hypogammaglobulinemia, recurrent bacterial infections and an inability to mount an antibody response to antigen.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0227 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcagctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagccc
101 tcaggggcgc tcagcgggtg ttggcgggtg tegggtctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatagcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taacgacgct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccgggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggcgcccacc atgacaacac ccagaaatto agtaaatggg actttccogg cagagccaat
501 gaaaggccct attgctatgc aatctggctc aaaaccactc ttcaggagga tgtcttcact ggtgggcccc acgcaaaagt tcttcoatgag ggaactaag
601 actttggggg ctgtocagat tatgaatggg ctotccoca tgcocctggg gggctctctg atgatocag cagggatcta tgcaccatc tgtgtgactg
701 tgtggtaccc tctctgggga ggcattatgt atattatctc cggatcactc ctggcagcaa cgggaaaaa ctccaggaag tgtttgttca aaggaaaaat
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1501 tgggtgctcc aatgagtgag ctaactcaca ttaattgcgt tgcgctcact gcccgctttc cagtcgggaa acctgtctgt ccagctgcat taatgaatc
1601 gccaacgcgc ggggagaggg ggtttgcgta ttggcgctc ttcgctctcc tcgctcactg actcgtctgc ctccgctgtt cggctgccc gagcggatc
1701 agctcactca aaggcggtaa tacggttatc cacagaatca ggggataacg caggaaaaga catgtgagca aaaggcccag aaaaggcccag gaaccgtaaa
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2401 ggatctcaag aagatccttt gatctttct acggggtctg acgctcagtg gaacgaaaa tcacgttaag ggattttggt catgagatta tcaaaaagga
2501 tcttcaccta gatcctttta aattaaat gaagtttta atcaatctaa agtataatg agtaaaactg gtctgacagt taccaatgct taatcagtgta
2601 ggcacctatc tcagcgatct gtctatttcc ttcacccata gttgctgac tcccgtctgt gtagataact acgatacggg agggcttacc atctggcccc
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3601 ttaacctata aaaaataggc tatcaacgag cctttctcgt

> RDC0227 Translated Insert Sequence

1 mttprnsvng tfaepmkgp iamqsgpkpl frmslvpg tqsfmresk tlgavqimng lfhialggll mipagiyapi cvtwyplwg gimyisgsl
101 laateknsrk clvkqkmin mlslfaaisg milsimdiln ikishflkme slnfirahtp yiniyncepa npseknspt qycysiqslf lgilsvmlif
201 affqelviag ivenewkrct srpksnivll saeekkeqti eikeevvqlt etssqpknee dieiipi qee eeeetetnfp eppqdqess piendssp