

## Specifications:

Gene:	hMS4A3
Accession:	NP_006129
Insert size:	658bp
Concentration:	10µg at 0.2µg/µL

## hMS4A3 cDNA Plasmid

**MS4A3 membrane-spanning 4-domains, subfamily A, member 3 (hematopoietic cell-specific) [ *Homo sapiens* ]**

**Also known as:** HTM4; CD20L

### Summary:

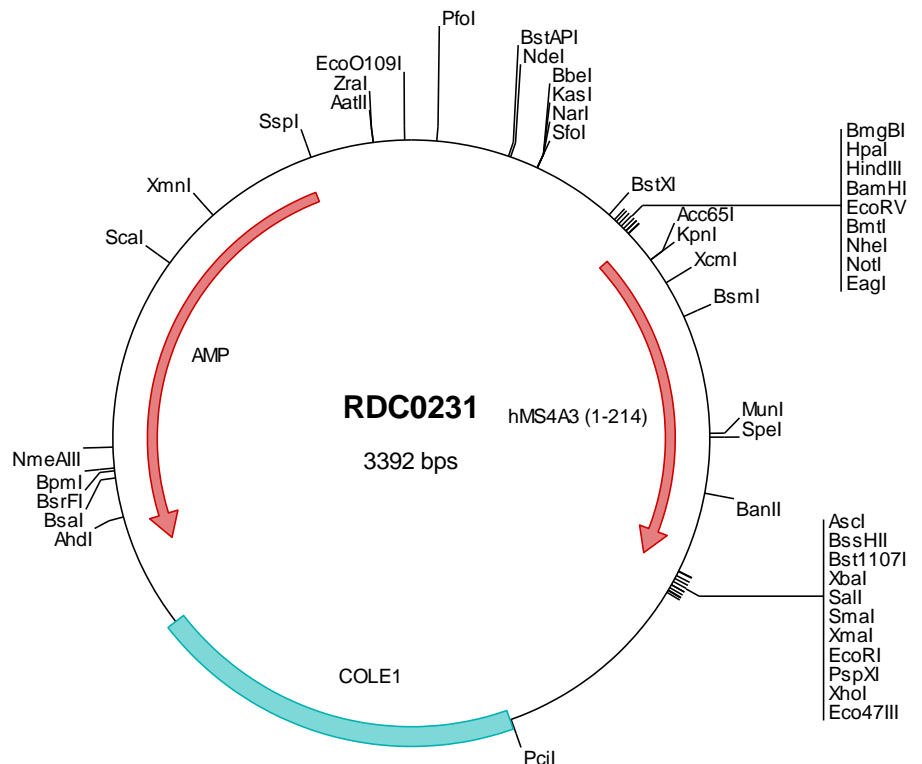
MS4A3 is a member of the membrane-spanning 4A gene family. Members of this protein family are characterized by common structural features and similar intron/exon splice boundaries and display unique expression patterns among hematopoietic cells and nonlymphoid tissues. MS4A3 likely plays a role in signal transduction and may function as a subunit associated with receptor complexes. MS4A3 is a hematopoietic modulator for the G1-S cell cycle transition. MS4A3 modulates the level of phosphorylation of cyclin-dependent kinase 2 (CDK2) through its direct binding to cyclin-dependent kinase inhibitor 3 (CDKN3/KAP).

## 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



## > RDC0231 Plasmid DNA Sequence

```
1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggta cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tetggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gttgtaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggccc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttcccagtc acgacgtgtg aaaacgacgg ccagtgaatt
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501 tggtaccoca ggcagtgagg cggaaccaga agagctgaat acttctgtct accagccat agatggatca ccagattatc agaaagcaaa attacaagtt
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701 tcttcaactt ctacacaggc tacccgattt gggggtgctg gtttttctgt agttcaggaa cottgtctgt tgtagcaggg ataaaacca caagaacatg
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901 aggagttgtc actcttcaat agagtaaccg gaacctatgca attcaatggg ctccaatca aatggcatgg tgtctctact gctgattctc acctgtgtgg
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3301 atttcccga aaagtgcac ctgacgtcta agaaaccatt attatcatga cattaaccta taaaaatag cgtatcaca ggcctttctg tc
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## > RDC0231 Translated Insert Sequence

```
1 mashevdnae lgsasahgtp gseagpeeln tsyqipdgs pdyqkklqv lgaiqilnaa milalgvflg slqypyhfkq hffftfytg ypiwgvfffc
101 ssgtllsvvag ikprrtwiqn sfgmniaasat ialvgtafls lniavniqsl rschsssesp dlnymgsis ngmvslllil ttlelcvtis tiamwcnanc
201 cnsreeissp pnsv
```