

## CAPS cDNA

Catalog Number: ATGD0222

### PRODUCT INFORMATION

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**Catalog number**

ATGD0222

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_004049.2

**Alternative Names**

CAPS1

**mRNA Refseq**

NM\_004058.4

**OMIM**

114212

**Chromosome location**

19p13.3

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

570bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

**CAPS cDNA**

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CAPS encodes a calcium-binding protein, which may play a role in the regulation of ion transport. A similar protein was first described as a potentially important regulatory protein in the dog thyroid and was termed as R2D5 antigen in rabbit. Alternative splicing of this gene generates two transcript variants.

**DATA****Sequence nucleotides**

```
ATGCAGTGCCACAGGGATCTGGCTCTGTCCCAGGCCCTGTGGGGCTGGCAGTTGAGTAAGCAGTCAGGCTGGGCGCACCC
ATCCCTCCCCACTCCCCACTGCCAGCACAGTGCATTCATGCAGCTGGGCCCCACCCCATCTCCAGAGGCACCTTCCACTA
GCAACAGTCTCCCCAGGCACAACACAGCTAACACAAGGCCCCGCAGGCAGGACTCTGGGACAGACGCAGGCCAGCTGCCC
AGAGCCCAGACCAAGCATGGACGCCGTGGATGCCACCATGGAGAACTCCGGGCACAGTGCCTGTCCC GCGGGGCCTCG
GGCATCCAGGGCCTGGCCAGGTTTTTCCGCCAACTAGACCGGGACGGGAGCAGATCCCTGGACGCTGATGAGTTCCGGCA
GGGTCTGGCCAACTCGGGCTGGTGCTGGACCAGGCGGAGGCAGAGGGTGTGTGCAGGAAGTGGGACCGCAATGGCAGC
GGGACGCTGGATCTGGAGGAGTTCCTTCGGGCGCTGCGGCCCCCATGTCCCAGGCCCGGGAGGCTGTCATCGCAGCTGC
ATTTGCCAAGCTGGACCGCAGTGGGGACGGCGTCGTGACGGTGGACGACCTCCGCGGGGTGTACAGTGGCCGTGCCAC
CCCAAGGTGCGCAGTGGGGAGTGGACCGAGGACGAGGTGCTGCGCCGCTTCTGGACAACCTTCGACTCCTCTGAGAAGGA
CGGGCAGGTCACACTGGCGGAATTCCAGGACTACTACAGCGGCGTGAGTGCCTCCATGAACACGGATGAGGAGTTCGTGG
CCATGATGACCAGTGCCTGGCAGCTGTGA
```

**Transaction Sequence**

```
MQCHRD LALS QALWGWQLSK QSGWAHPSLP HSPLPSTVHS CSWAPPHLQR HLPLATVSPG TTQLTQGPAG
RTLGQTQASC PEPRPSMDAV DATMEKLRAQ CLSRGASGIQ GLARFFRQLD RDGSRSLDAD EFRQGLAKLG LVLDAQAEAG
VCRKWDRNGS GTLDLEEF LR ALRPPMSQAR EAVIAAAFAK LDRSGDGVVT VDDL RGVVSG RAHPKVRSGE WTEDEV LRRF
LDNFDSSEKD GQVT LAEFQD YYSGV SASMN TDEEFVAMMT SAWQL
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