

## **Product datasheet for MR219341**

## Capns2 (NM\_027112) Mouse Tagged ORF Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** Capns2 (NM\_027112) Mouse Tagged ORF Clone

Tag: Myc-DDK
Symbol: Capns2

**Synonyms:** 30K-2; 2310005G05Rik

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR219341 representing NM\_027112

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219341 representing NM\_027112

Red=Cloning site Green=Tags(s)

MFLAKAILEGADRGLGGALGGLLGGGGQARAGGGNIGGILGGIVNFISEAAAAQYTPEPPPQQQHFTVVE ASESEEVRRFRQQFTQLAGPDMEVGATDLMNILNKVLSKHKELKTEGFSLDTCRSIVSVMDSDTTGKLGF EEFKYLWNNIKKWQCVFKQYDSDHSGSLGSSQLHGAMQAAGFQLNEQLYLMIVRRYADEDGGMDFNNFIS CLVRLDAMFRAFKALDRDRDGLIQVSIREWLQLTMYS

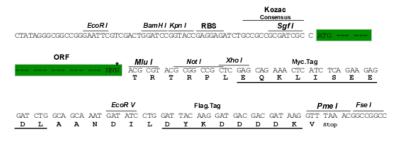
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/ja1988">https://cdn.origene.com/chromatograms/ja1988</a> g08.zip

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_027112

ORF Size: 741 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts

of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:customercom">customercom</a> or by

calling 301.340.3188 option 3 for pricing and delivery.

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

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: <u>NM 027112.1</u>, <u>NP 081388.1</u>

RefSeq Size:1015 bpRefSeq ORF:744 bpLocus ID:69543UniProt ID:Q9D7J7Cytogenetics:8 C5

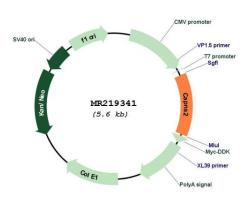
MW: 27.6 kDa

**Gene Summary:** Calcium-regulated non-lysosomal thiol-protease which catalyzes limited proteolysis of

substrates involved in cytoskeletal remodeling and signal transduction. This small subunit may act as a tissue-specific chaperone of the large subunit, possibly by helping it fold into its

correct conformation for activity (By similarity).[UniProtKB/Swiss-Prot Function]

## **Product images:**



Circular map for MR219341