

Product datasheet for **MG219341**

Capns2 (NM_027112) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capns2 (NM_027112) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Capns2
Synonyms:	30K-2; 2310005G05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG219341 representing NM_027112 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTCTCGAAAGGCGATCCTGGAAGGTGCAGATCGGGGGCTTGAGGGGCTCTTGAGGCCTTCTTG
 GAGGAGGTGGTCAGGCAAGAGCAGGCGGGGCAACATCGGGGAATCCTTGAGGAATTGTCAATTTAT
 CAGCGAGGCTGCCGAGCTCAGTACACCCAGAGCCGCTCCCAACAGCAGCATTTTACCGTCGTGGAG
 GCCTCAGAAAGTGAGGAAGTCAGACGTTTTCGGCAGCAATTTACACAGCTGGCTGGACCCGACATGGAGG
 TGGGTGCTACTGACCTGATGAATATTCTCAACAAAGTCCTTTCTAAGCATAAAGAGCTGAAGACAGAGGG
 CTTGAGCCTTGATACCTGTAGGAGCATTGTGTCTGTCATGGACAGTGACACCACAGGGAACTGGGATTT
 GAGGAATTTAAGTACCTGTGGAACAACATCAAGAAATGGCAGTGTGTTTTCAAGCAGTACGACAGTGACC
 ATTCTGGCTCCCTCGGAAGCTCCAGCTGCACGGGGCCATGCAGGCAGCGGGCTTCCAGCTCAATGAGCA
 ACTTTACCTAATGATTGTCCGTCGGTATGCTGACGAAGATGGCGGGATGGATTTTAACTTTATCAGC
 TGCCTGGTTCGCTGGATGCTATGTTTCGAGCTTTCAAGGCTCTGGACCGAGATAGGGATGGCCTGATTC
 AGGTGTCCATCCGAGAATGGCTGCAGCTGACCATGTATTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG219341 representing NM_027112
Red=Cloning site Green=Tags(s)

MFLAKAILEGADRGLGGALGGLGGGGQARAGGNGIGILGGIVNFISEAAAAQYTPPPPQQHFTVVE
ASESEEVRRFRQQFTQLAGPDMEVGATDLMNILNKVL SKHKELKTEGFSLDTCRSIVSVMDSDDTGKLG
EEFKYLWNNIKKWQCVFKQYDSHSGSLGSSQLHGAMQAAGFQLNEQLYLMIVRRYADEDDGGMDFNNFIS
CLVRLDAMFRAFKALDRDRDGLIQVSIREWLQLTMYS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027112

ORF Size: 741 bp

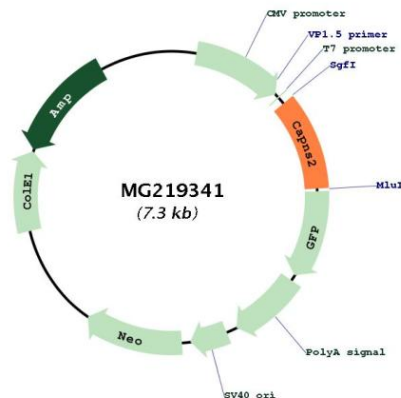
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com 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](#)

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:	<ol style="list-style-type: none"> 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_027112.1</u> , <u>NP_081388.1</u>
RefSeq Size:	1015 bp
RefSeq ORF:	744 bp
Locus ID:	69543
UniProt ID:	<u>Q9D7J7</u>
Cytogenetics:	8 C5
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 MG219341