

Product datasheet for **RG203338**

Calpain S2 (CAPNS2) (NM_032330) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Calpain S2
Synonyms:	CSS2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG203338 representing NM_032330
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTCTTGCAAAGGCTCTATTGGAAGGAGCAGATCGAGGTCTTGGAGAAGCTCTTGGAGGCCTTTTG
GAGGAGGTGGTCAGAGAAGAGAAGGAGGAGGAAGAAATATTGGAGGGATAGTTGGAGGAATTGTGAATTT
TATCAGTGAGGCTGCAGCAGCTCAGTATACTCCAGAACCCTCCCACTCAGCAGCATTTACCAGTGTG
GAGGCCTCAGAAAGTGAGGAAGTTAGGCGATTTCCGCAACAATTTACACAGCTGGCTGGACCAGACATGG
AGGTGGGTGCCACTGATCTGATGAATATTCTCAACAAAGTCCTTTCTAAGCACAAAGATCTTAAGACTGA
CGGTTTTAGTCTTGACACCTGCCGAGCATTGTGTCTGTCTGACAGTACACGACTGGTAAGCTGGGC
TTTGAAGAATTTAAGTATCTGTGGAACAACATCAAGAAATGGCAGTGTGTTTATAAGCAGTATGACAGGG
ACCATTTCTGGGTCTCTGGGAAGTTCTCAGCTGCGGGGAGCTCTGCAGGCCGAGGCTTCCAGCTAAATGA
ACAACCTTACCAAATGATTGTCCGCCGGTATGCTAATGAAGATGGAGATATGGATTTTAAACAATTCATC
AGCTGCTTGGTCCGCTGGATGCCATGTTTCGTGCCTTCAAGTCTCTGGATAGAGATAGAGATGGCCTGA
TTCAAGTGTCTATCAAAGAATGGCTGCAGTTGACCATGTATTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG203338 representing NM_032330

Red=Cloning site Green=Tags(s)

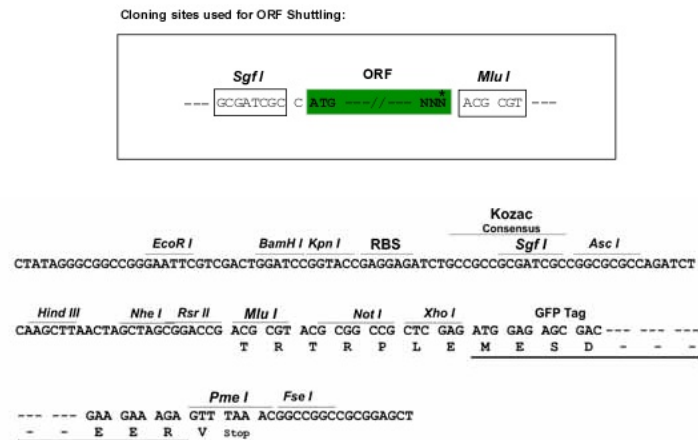
MFLAKALLEGADRGLGEALGGLFGGGQRRREGGGRNIGGIVGGIVNFISEAAAAQYTPPEPPTQQHFTSV
EASESEEVRRFRQQFTQLAGPDMEVGATDLMNINLKVLSKHKDLKTDGFSLDTCRSIVSVMDSDDTTGKLG
FEEFKYLWNNIKKWQCVYKQYDRDHSGSLGSSQLRGALQAAGFQLNEQLYQMIVRRYANEDGDMDFNNFI
SCLVRLDAMFRAFKSLDRDRDGLIQVSIKEWLQTMYS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_032330

ORF Size:

744 bp

OTI Disclaimer:

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:

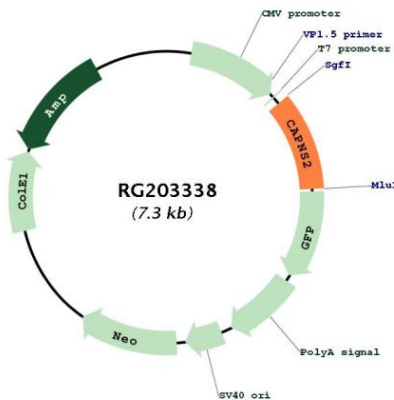
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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_032330.3</u>
RefSeq Size:	1040 bp
RefSeq ORF:	747 bp
Locus ID:	84290
UniProt ID:	<u>Q96L46</u>
Cytogenetics:	16q12.2
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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203338