

## Product datasheet for RC205642L2

#### OriGene Technologies, Inc.

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## Calpain 2 (CAPN2) (NM\_001748) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Calpain 2 (CAPN2) (NM\_001748) Human Tagged Lenti ORF Clone

Tag: mGFP

Symbol: Calpain 2

Synonyms: CANP2; CANPL2; CANPml; mCANP

Mammalian Cell None

Selection:

**Vector:** pLenti-C-mGFP (PS100071)

**E. coli Selection:** Chloramphenicol (34 ug/mL)

ORF Nucleotide

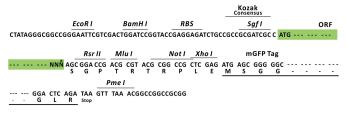
The ORF insert of this clone is exactly the same as(RC205642).

Sequence:

**Restriction Sites:** Sgfl-Rsrll

**Cloning Scheme:** 





 $<sup>\</sup>ensuremath{^*}$  The last codon before the Stop codon of the ORF.

**ACCN:** NM\_001748

ORF Size: 2100 bp





### Calpain 2 (CAPN2) (NM\_001748) Human Tagged Lenti ORF Clone - RC205642L2

**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.

**RefSeq:** <u>NM 001748.3</u>

RefSeq Size:3492 bpRefSeq ORF:2103 bp

Locus ID: 824

 UniProt ID:
 P17655

 Cytogenetics:
 1q41

**Domains:** Calpain III, EFh

**Protein Families:** Druggable Genome, Protease

**Protein Pathways:** Alzheimer's disease, Apoptosis, Focal adhesion

**MW:** 80 kDa

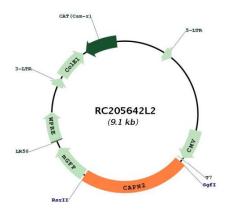
**Gene Summary:** The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine

proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5' UTR have been reported. Two transcript variants encoding different isoforms

have been found for this gene. [provided by RefSeq, Mar 2009]



# **Product images:**



Circular map for RC205642L2