

## Product datasheet for **RC234759**

### Calpain 1 (CAPN1) (NM\_001198869) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 1 (CAPN1) (NM_001198869) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calpain 1
Synonyms:	CANP; CANP1; CANPL1; muCANP; muCL; SPG76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC234759 representing NM\_001198869  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTCGGAGGAGATCATCACGCCGTGTACTGCACTGGGGTGTACAGCCCAAGTGCAGAAGCAGCGGGCCA  
GGGAGCTGGGCTGGGCCGCCATGAGAATGCCATCAAGTACCTGGGCCAGGATTATGAGCAGCTGCGGGT  
GCGATGCCTGCAGAGTGGGACCCTCTTCCGTGATGAGGCCTTCCCCCGGTACCCACAGAGCTGGGTAC  
AAGGACCTGGGTCCCAATTCCTCCAAGACCTATGGCATCAAGTGAAGCGTCCCACGGAAGTGTGTCAA  
ACCCCCAGTTCATTGTGGATGGAGCTACCCGCACAGACATCTGCCAGGGAGCACTGGGGACTGCTGGCT  
CTTGGCGGCCATCGCTCCCTCACTCTCAACGACACCCTCTGCACCGAGTGGTCCGCACGGCCAGAGC  
TTCCAGAATGGCTATGCCGGCATCTTCCATTTCCAGCTGTGGCAATTTGGGGAGTGGGTGGACGTGGTGC  
TGGATGACCTGCTGCCCATCAAGGACGGGAAGCTAGTGTTCGTGCACTCTGCCGAAGGCAACGAGTCTG  
GAGCGCCCTGCTTGAAGAAGCCATGCCAAGGTAATGGCAGCTACGAGGCCCTGTCAGGGGGCAGCACC  
TCAGAGGGCTTTGAGGACTTCACAGGCGGGGTTACCGAGTGGTACGAGTTGCGCAAGGCTCCAGTGACC  
TCTACCAGATCATCCTCAAGGCGCTGGAGCGGGGCTCCCTGCTGGGCTGTCCATAGACATCTCCAGCGT  
TCTAGACATGGAGGCCATCACTTTCAAGAAGTTGGTGAAGGGCCATGCCTACTCTGTGACCGGGGCCAAG  
CAGGTGAACTACCGAGGCCAGGTGGTGGCCTGATCCGGATGCGGAACCCCTGGGGCAGGTGGAGTGGAA  
CGGGAGCTGGAGCGACAGCTCCTCAGAGTGAACAACGTGGACCCATATGAACGGGACCAGCTCCGGGT  
CAAGATGGAGGACGGGGAGTTCGGATGTATTCCGAGACTTCATGCGGGAGTTCACCCGCTGGAGATC  
TGCAACCTCACACCCGACGCCCTCAAGAGCCGGACCATCCGCAATGGAACACCACACTCTACGAAGGCA  
CCTGGCGCGGGGAGCACCGCGGGGGCTGCCGAACTACCCAGCCACCTTCTGGGTGAACCCCTCAGTT  
CAAGATCCGGCTGGATGAGACGGATGACCCGGACGACTACGGGGACCGGAGTCAAGGCTGCAGCTTCGTG  
CTCGCCCTTATGCAGAAGCACCGTCGCCCGAGCGCCGCTTCGGCCGCGACATGGAGACTATTGGCTTCG  
CGGTCTACGAGGTCCCTCCGGAGCTGGTGGGCCAGCCGGCCGTACACTTGAAGCGTGACTTCTTCTGGC  
CAATGCGTCTCGGGCGCCTCAGAGCAGTTCATCAACCTGCGAGAGGTGAGCACCCTCCGCTGCCA  
CCCGGGGAGTATGTGGTGGTGCCTCCACCTTCGAGCCCAACAAGGAGGGGCGACTTCGTGCTGCGCTTCT  
TCTCAGAGAAGAGTGTGGGACTGTGGAGCTGGATGACCAGATCCAGGCCAATCTCCCGATGAGCAAGT  
GCTCTCAGAAGAGGAGATTGACGAGAATCAAGGCCCTTTCAGGCAGCTGGCAGGGGAGGACATGGAG  
ATCAGCGTGAAGGAGTTGCGGACAATCCTCAATAGGATCATCAGCAAACAAAGACCTGCGGACCAAGG  
GCTTCAGCCTAGAGTCGTGCCGACGATGGTGAACCTCATGGATCGTGATGGCAATGGGAAGCTGGGCT  
GGTGGAGTTCAACATCCTGTGGAACCGCATCCGGAATTACCTGTCCATCTTCCGGAAGTTTGACCTGGAC  
AAGTCGGGCAGCATGAGTGCCTACGAGATGCGGATGGCCATTGAGTCGGCAGGCTTCAAGCTCAACAAGA  
AGCTGTACGAGCTCATCATACCCGCTACTCGGAGCCGACCTGGCGGTGACTTTGACAATTTGTTTTG  
CTGCTGGTGGGCTAGAGACCATGTTCCGATTTTTCAAACCTCTGGACACAGATCTGGATGGAGTTGTG  
ACCTTTGACTTGTAAAGTGGTTGCAGCTGACCATGTTTGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**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:** [NM\\_001198869.1](#), [NP\\_001185798.1](#)

**RefSeq Size:** 3094 bp

**RefSeq ORF:** 2145 bp

**Locus ID:** 823

**UniProt ID:** [P07384](#)

**Cytogenetics:** 11q13.1

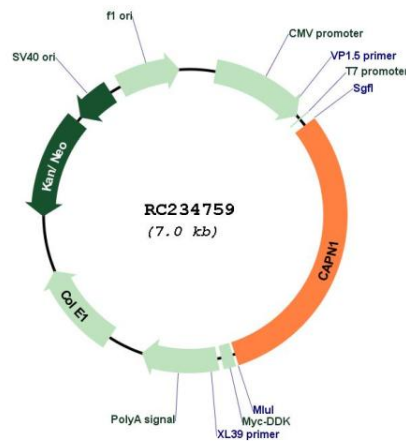
**Protein Families:** Druggable Genome, Protease

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

**MW:** 82.3 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 1. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Nov 2010]

### Product images:



Circular map for RC234759