

## Product datasheet for **RC200539**

### Calpain 6 (CAPN6) (NM\_014289) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calpain 6 (CAPN6) (NM_014289) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Calpain 6
Synonyms:	CalpM; CANPX; CAPNX; DJ914P14.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC200539 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGTCCTCCTCTGAAGCTCTTCAAAAACAGAAATACCAGGAAGTGAAGCAGGAATGCATCAAAGACA  
GCAGACTTTTCTGTGATCCAACATTTCTGCCTGAGAATGATTCTCTTTTCTACAACCGACTGCTTCTGG  
AAAGTGGTGTGAAACGTCCCCAGGACATCTGTGATGACCCCATCTGATTGTGGGCAACATTAGCAAC  
CACCAGCTGACCAAGGGAGACTGGGGCACAAGCCAATGGTTTCTGCATTTTCTGTTTGGCTGTTCCAGG  
AGTCTCATTGGACAAAGACAATCCCAACCATAAGGAACAGGAATGGGACCCTCAAAAAACAGAAAAATA  
CGCTGGGATATTTCACTTTCGTTTCTGGCATTGTTGAGAATGGACTGAAGTGGTATTGATGACTTGTG  
CCCACCATTAACGGAGATCTGGTCTTCTTTTCTCCACTCCATGAATGAGTTTTGGAATGCTCTGCTGG  
AAAAAGCTTATGCAAAGCTGCTAGGCTGTTATGAGGCCCTGGATGGTTTGACCATCACTGATATTATTGT  
GGACTTACGGGCACATTGGCTGAAACTGTTGACATGCAGAAAGGAAGATACACTGAGCTTGTGAGGAG  
AAGTACAAGCTATTCGGAGAAGTACAAAACATTTACCAAAGGTGGTCTGATCTGCTGTTCCATTGAGT  
CTCCCAATCAGGAGGAGCAAGAAGTTGAAACTGATTGGGGTCTGCTGAAGGGCCATACCTATACCATGAC  
TGATATTCGAAAATTCGTCTTGAGAGAGACTTGTGGAAGTCTTCAGTCTGAGAAGGTGATATGGTT  
CGCCTGAGAAAACCCCTTGGGAAGACAGGAATGGAGTGGCCCTGGAGTGAATTTCTGAAGAGTGGCAGC  
AACTGACTGCATCAGATCGAAGAACCTGGGGCTTGTATGTCTGATGATGGAGAGTTTTGGATGAGCTT  
GGAGGACTTTTGGCGCAACTTTCACAACTGAATGTCTGCCGAATGTGAACAACCCTATTTTTGGCCGA  
AAGGAGCTGGAATCGGTGTTGGGATGCTGGACTGTGGATGATGATCCCTGATGAACCGCTCAGGAGGT  
GCTATAACAACCGTGATACCTTCTGCAGAATCCCCAGTACATCTTCACTGTGCCTGAGGATGGCACA  
GGTCATTATGCACTGCAGCAGAAGGACCTGCGCACTTACCGCCGAATGGGAAGACCTGACAATTACATC  
ATTGGCTTTGAGCTCTTCAAGGTGGAGATGAACCGCAAATTCGCTCCACCACCTCTACATCCAGGAGC  
GTGCTGGGACTTCCACCTATATTGACACCCGCACAGTGTCTGAGCAAGTACCTGAAGAAGGGCAACTA  
TGTGCTTGTCCCAACCATGTTCCAGCATGGTCGCACCAGCGAGTTTCTCCTGAGAATCTTCTCTGAAGT  
CCTGTCCAGCTCAGGGAAGTACTGCTGGACATGCCAAAATGCTCCTGCTGGAACCTGGCTCGTGGCTACC  
CGAAAGTAGTTACTCAGATCACTGTTACAGTGTGAGGACCTGGAGAAGAAGTATGCCAATGAACTGT  
AAACCCATATTTGGTCATCAAATGTGAAAGGAGGAAGTCCGTTCTCCTGTCCAGAAGAATACAGTTCAT  
GCCATTTTGGACCCAGGCCATTTTCTACAGAAGGACCACTGACATTCCTATTATAGTACAGGTCTGGA  
ACAGCCGAAAATCTGTGATCAGTCTTGGGGCAGGTTACTCTGGATGCTGACCCAGCGACTGCCGTGA  
TCTGAAGTCTCTGTACCTGCGTAAGAAGGTGGTCCAAGTCCAAAGTCAAGCAAGGCCACATCAGCTTC  
AAGGTTATTTCCAGCGATGATCTCACTGAGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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\\_014289.4](#)

**RefSeq Size:** 3604 bp

**RefSeq ORF:** 1926 bp

**Locus ID:** 827

**UniProt ID:** [Q9Y6Q1](#)

**Cytogenetics:** Xq23

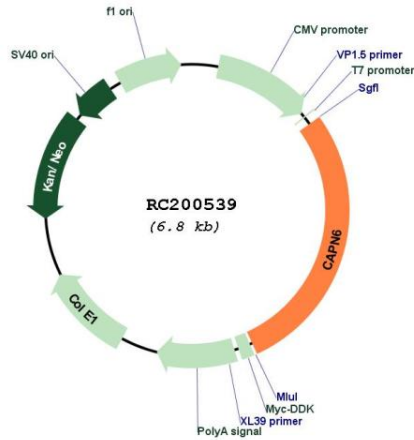
**Domains:** C2, Calpain\_III

**Protein Families:** Druggable Genome, Protease

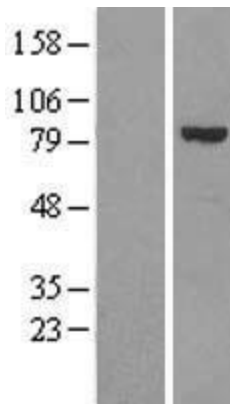
**MW:** 74.6 kDa

**Gene Summary:** Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis. [provided by RefSeq, Nov 2009]

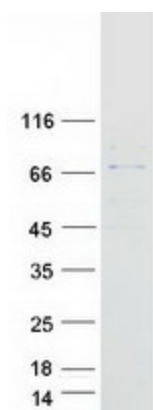
Product images:



Circular map for RC200539



Western blot validation of overexpression lysate (Cat# [LY415376]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200539 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CAPN6 protein (Cat# [TP300539]). The protein was produced from HEK293T cells transfected with CAPN6 cDNA clone (Cat# RC200539) using MegaTran 2.0 (Cat# [TT210002]).