

## Product datasheet for **RR202533**

### Capn5 (NM\_134461) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Capn5 (NM_134461) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn5
Synonyms:	Htra3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR202533 representing NM\_134461  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTTCTCCTGCACAAAGGCCTATGAATACCAGAATTACTCAGCTCTGAAGCGAGCCTGTCTGCGCAGGA  
 AGGTGCTGTTTCGAGGACCCCACTTCCCTGCCTCCGACGACTCACTCTACTATAAGGGTACCCAGGGCC  
 CACAGTCAGGTGGAAGCGGCCTTTTGATATCTGCGATGATCCCCGGCTCTTCGTGATGGCATCAGCTCG  
 CATGACCTGCACAGGGCCAGGTGGGCAACTGCTGGTTTGTGGCCGCTGCTCATCACTCGCCTCCCGGG  
 AGTCACCTGGCAAAAGGTCATCCAGACTGGAAGGAGCAGGAATGGAACCCCGAGAAGCCGACAGCTA  
 TGCTGGCATCTTCCATTTCAACTTCTGGCGCTTTGGGGAGTGGGTGGACGTGGTGTGATGACCGGCTG  
 CCCACAGTCAACAACCACTCATTTACTGCCACTCCAACCTCGAAAAATGAGTTCTGGTGTCCCGGTGG  
 AGAAGGCCTATGCCAAGCTGGCAGGCTGTTACCAGGCCCTGGACGGAGGCAACACAGCCGATGCACTGGT  
 GGATTTACAGGGCGGTGTTTCGGAACCCATCGACCTGACCGAGGGGGACTTGGCCACAGATGAGGCTAAG  
 AGAAGCCAGCTCTTTGAACGTGTGTTGAAGGTGCACAGCAGAGGTGGACTCATCAGTGCCTCCATCAAGG  
 CTATGACAGCAGCTGACATGGAGACCCGCTGGCCTGTGGTCTGGTGAAGGGCCATGCATATGCTGTAC  
 CGATGTGCGCAAGGTGCGCCTGGGCCATGGCCTGCTGGCCTTCTTCAAGTCAGAGAAGCTGGACATGATC  
 CGTCTGAGGAACCCCTGGGGCGAGCGGGTGTGGACCGGGCCCTGGAGTGACACGTGACAGGAATGGCAGA  
 AAGTGAGCAAGAGTGAGAGGGGAGAAAAATGGGCGTGACCGTACAGGACGATGGTGAATTCTGGATGACCTA  
 TGAGGACATGTGCCGATACTTACCAGACATCATTAAGTCCCGCTGATTAATACGTCCTACCTGAGCATC  
 CACAAGACATGGGAGGAGGCCCGCTGCGTGGTGCCTGGACGAGACATGAGGACCCCGAGCAGAACC  
 GTGGAGGCTGCATCAACCACAAGGACACTTTCTCCAGAACCACAGTACATATTTGAAGTCAAGAAGCC  
 AGAAGATGAAGTGTGATCTGCATCCAGCAGCGGCCAAACGCTCGACTCGCCGAGAGGGCAAGGGGAG  
 AATCTGGCCATCGGCTTCGACATCTATAAGGTGGAAGAGAACCAGCCAGTACCGGATGCACAGCCTGCAGC  
 ATAAGGCCCGCAGCTCCATCTACATCAATTCTCGGAGTGTTCCTGCGGACAGAGCTGCCTGAGGGCCG  
 CTACGTGATCATCCCTACCACCTTTGAGCCAGGCCACACTGGCGAGCTCCTGCTCCGCGTCTTACAGAC  
 GTTCCCTCCAAGTCCCGGAGCTACGCCTGGATGAGCCCCCTCGTACCTGCTGGAGCTCCCTGTGTGGCT  
 ACCCTCAGCAGGTGACCCAGGTCCATGTCCTGGGAGCTGCTGGCCTCAAGGACTTCCACAGGAGCAAA  
 CTCATATGTGATCATCAAGTGTGAGGGTAAAAGGTTTCGCTCAGCTGTGCAGAGAGGGACCTCGACGCCA  
 GAGTACAATGTGAAAGGCATCTTCTATCGCAAGAACTGTCTCAGCCCATCACTGTGCAGGTCTGGAATA  
 ACCGAGTCTGAAGGATGAATTCCTGGGCCAGGTGCACCTGAAGACTGCCCGGATGACCTGCAGGACCT  
 GCACAGCTCCATCTCCAGGACCGCAGTGGCCGGCAGCCAGCGACTTGCAGGCATCGTGTGCGT  
 GTCCTCTGCGAGTGCCTCTCTACGGCTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202533 representing NM\_134461  
 Red=Cloning site Green=Tags(s)

MFSCTKAYEYQNYALSALKRACLRRLKRVLFEDPHFPASDDSLYYKGTGPGTPVWRKRPFDICDDPRLFVDGISS  
 HDLHQGVQVGNCFVAACSSLASRESLWQKVIPDWKEQEWNPKEPDSYAGIFHFNFWRFGWVDDVDDRL  
 PTVNNQLIYCHSNKNEFWCAPVEKAYAKLAGCYQALDGGNTADALVDF TGGVSEPIDL TEGDLATDEAK  
 RSQLFERVLKVHSRGLISASIKAMTAADMETRLACGLVKGHAYAVTDVRKVRLLGHLLAFFKSEKLDMI  
 RLRNPWGERVWTGPWSDTSEEWQKVSSEKREKMGVTVQDDGEFWMYEDMCRYFTDIIKRLINTSYLSI  
 HKTWEEARLRGAWTRHEDPQQNRSGGCINHKDTFFQNPQYIFEVKKPEDEVLCIQRPKRSTRREGKGE  
 NLAIGFDIYKVEENRQYRMHSLQHKAAASSIYINSRSVFLRTELPEGRYVIIPPTTFEPGHTGELLRLRVFTD  
 VPSNCRELRLDEPRTCWSSLCGYPQQTQVHVLGAAGLKDSSTGANSYVIKCEGEKVRSAVQRGTSTP  
 EYNVKGIFYRKKLSQPITVQVWNNRVLKDEFLGQVHLKTAPDDLQDLHSLHLQDRSGRQPSDLPGIVAVR  
 VLCASLTAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

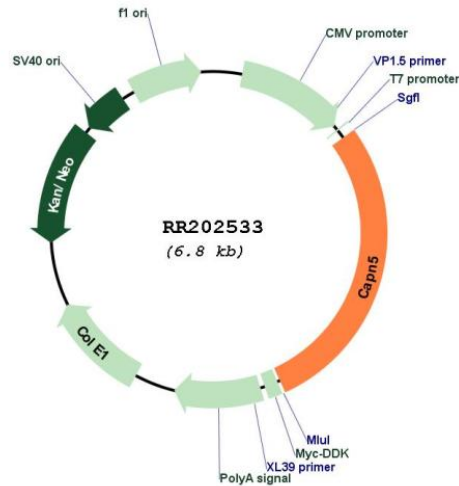
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_134461

ORF Size: 1920 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.

RefSeq: [NM\\_134461.1](#), [NP\\_604456.1](#)

RefSeq Size:	2150 bp
RefSeq ORF:	1923 bp
Locus ID:	171495
Cytogenetics:	1q32
MW:	73.1 kDa
Gene Summary:	human and mouse homologs are members of a subset of the calpain family of proteases that lack a calmodulin-like domain [RGD, Feb 2006]