

Product datasheet for **RR211917**

Capn3 (NM_017117) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn3 (NM_017117) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn3
Synonyms:	Lp82; Lp84; Lp85; p94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR211917 representing NM_017117
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACCGTTATTAGTCCAACGTGGCCCCAAGGACAGGAGCTGAGCCAGGTCGCCAGGCCAGTTC
 CTCACCCAGCTCAAGGCAAGACCACTGAGGCTGGAGGTGGACACCCGGTGGCATCTATTAGCCATCAT
 CAGCCGCAATTTTCCGATCATTGGTGTAAAGAGAAGACATTCGAGCAGCTCCACAAGAAGTGCCTAGAG
 AAGAAAGTTCTTTACCTGGATCCCGAGTCCCACCGGATGAGACCTCTCTTTTACAGCCAGAAGTTC
 CCATCCAGTTCGCTGGAAGAGACCTCCGAAATTTGTGAGAATCCCGATTTATCATTGGTGGAGCCAA
 CAGGACTGACATCTGCCAAGGAGATCTAGGGGACTGCTGGCTTCTGCAGCCATTGCCTGTCTGACCCTG
 AATGAGCGACTGCTTTTCCGAGTTATACCTCATGATCAAAGTTTCACTGAAAACACGCAGGGATCTTCC
 ACTTCCAGTTCGTCGCGCTATGGAGACTGGGTAGATGTGGTTATTGACGACTGTCTGCCGACATACAACA
 CCAGCTGGTCTTACCAAATCCAACCACCGCAATGAGTCTGGAGTGTCTACTGGAGAAAGCATATGCC
 AAGCTCCATGGTTCTATGAAGCTCTGAAAGGTGGGAACACCACAGAAGCCATGGAGGACTTCACAGGAG
 GGGTGACAGAGTTTTTTGAGATCAAGGATGCTCCGAGTGACATGTACAAGATCATGAGGAAAGCTATCGA
 GAGAGGCTCCCTCATGGGCTGCTCCATTGATGATGGCACCAACATGACTTATGGAACCTCTCCTTCTGGT
 CTGAACATGGGGGAATTGATTGCGCGGATGGTGAGAAATATGGATAACTCGTGTCTCAGAGACTCAGACC
 TGGACCCAGGGCCTCAGATGACAGACCGTCACGGACAATTGTTCCGGTGCAGTATGAAACAAGAATGGC
 CTGTGGACTGGTAAAGGGCACGCTATTCAGTCACTGGGCTGGAGGAGGCCCTGTTCAAAGCGGAGAAG
 GTGAAGCTGGTGGCTGCGGAACCCCTGGGGCCAGGTGGAGTGGAAACGGCTCTTGGAGTATGGTTGGA
 AGGACTGGAGCTTTGTGGACAAAGACGAGAAGGCCCGTCTGCAGCACAGGTACCGAGGATGGAGAGTT
 CTGGATGTCATATGATGACTTTGTCTACATTTTACAAAAGCTGGAGATCTGCAACCTCACAGCTGATGCC
 CTGGAGTCCGATAAGCTTCAGACCTGGACAGTGTCTGTAATGAGGGCCGCTGGGTGAGGGGCTGTTCTG
 CTGGAGGCTGCCGGAACCTCCAGACACTTTCTGGACCAACCCGAGTACCGTCTCAAGCTCCTGGAGGA
 GGATGATGACCCTGATGACTCTGAGGTGATTTGCAGCTTCTCGTGGCTCTGATGCAGAAAAATCGGCGC
 AAGGACCGGAAGCTGGGGCCAACTCTTACCATTGGCTTCGCTATCTACGAGGTTCCCAAAGAGATGC
 ACGGGAATAAGCAACACCTGCAGAAGGACTTCTTCTGTACAATGCCTCCAAGGCCAGGAGCAAAACCTA
 CATCAACATGCGGAGGTGTCCAGCGCTTCCGCTGCCGCCAGCGAGTATGTCATTGTCCCTCCACT
 TACGAGCCCATCAGGAGGGGAATTCATCTCCGGTCTTCTCTGAAAAGAGGAATCTCTCTGAGGAAG
 CTGAGAATACAATCTCTGTGGACCGCCAGTGA AAAAGAAAAAAAACAAGCCCATCATCTTCGTTTCAGA
 CAGAGCAAAACAGCAACAAGGAGCTGGGTGTGGACCAGGAGGCAGAGGAGGGCAAAGACAAAAACAGGGCCG
 GATAAAACAAGGGGAAAGCCACAGCCACGGCTGGCCACACAGACCAGGAGAGTGAGGAGCAGCAGCAAT
 TCCGGAACATCTTCAAGCAGATTGCAGGCGACGACATGGAGATCTGTGCGGATGAACTCAAGATGTCTT
 TAATACGGTGGTGAACAAACACAAGGACCTGAAGACACAAGGGTTCACTCTGGAGTCTGCAGAAGCATG
 ATAGCTCTCATGGATACAGATGGCTCTGGGAGACTGAATCTTCAAGAGTCCATCACCTTGAAAAAGA
 TCAAGGCTGGCAGAAAACTTCAAACACTATGACACTGACCATTCTGGTACCATCAATAGCTATGAGAT
 GCGAAATGCAGTCAATGATGCAGGCTTCCATCTCAACAGCCAACCTATGACATCATCCATGCGCTAC
 GCAGACAAACACATGAACATCGACTTTGACAGTTTCTATCTGCTGCTTCGTCAGGCTGGAAGGGATGTTCA
 GAGCTTTTACGCATTTGACAAGGATGGAGATGGCATCATCAAACCTGAACGTAAGTACTTGAGTGGCTGCAGCT
 TACCATGTATGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211917 representing NM_017117
 Red=Cloning site Green=Tags(s)

MPTVISPTVAPRTGAEP RSPGPVPHPAQGKTTEAGGGHPGGIYS AIISRNFP IIGVKEKTFEQLHKKCLE
 KKVLYLDPEFPDETSLFYSQKFPIQFVWKRPEICENPRFIIGGANRTDICQD LGDCWLLAAIACLTL
 NERLLFRVIPHDQSFTENYAGIFHFQFWRYGDWVDVVIDDCLPT YNNQLVFTKSNHRNEFWSALLEKAYA
 KLHGSEALKGGNTTEAMEDFTGGVTEFFEIKDAPSDMYKIMRKA IERGLMGCSIDDGTNMTYGTSPSG
 LNMGELIARMVRNMDNSLLRDSLDPRASDDRPRTIIVPVQYETRMACGLVKGHAYSVTGLEEALFKGEK
 VKLVRLRNPWGQVEWNGSWSDGWKDSFVDKDEKARLQH QVTEDEGEFWM SYDDFVYHFTKLEICNL TADA
 LESDKLQWTWVSVNEGRWVRGCSAGGCRNFPDTFWTNPQYRLK LLEEDDDPDDSEVICSFVALMQKNRR
 KDRKLGANLFTIGFAIYEVPKEMHGKQHLQKDFFLYNASKAR SKTYINMREVSQRFR LPPSEYVIVPST
 YEPHQEGEFILRVFSEKRNLSEE AENTISVDRPVK KKKNKPIIFVSDRANSN KELGVDQEAEEGKDKTGP
 DKQGESPQPRPGHTDQESEEQQFRNIFRQIAGDDMEICADELKNV LNTVVNKHKDLKTQGF TLESCRSM
 IALMDTDGSGRLNLQEFHHLWKKIKAWQKIFKH YDTHSGTINSYEMRNAVNDAGFHLNSQLYDIITMRY
 ADKHMNIDFDSFICCFVRLEGMFRAFHFADKDG DGI I KLNVL EWLQLTMYA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_017117

ORF Size: 2463 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_017117.1](#), [NP_058813.1](#)

RefSeq Size: 3138 bp

RefSeq ORF: 2466 bp

Locus ID: 29155

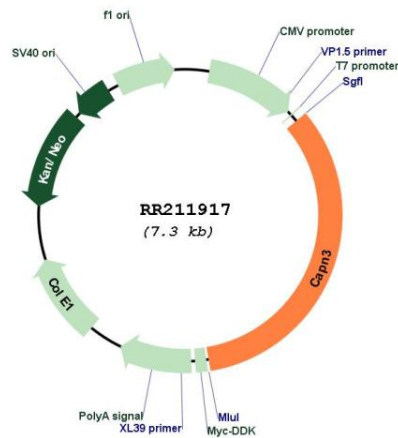
UniProt ID: [P16259](#)

Cytogenetics: 3q35

MW: 94.1 kDa

Gene Summary: calcium-activated protease; alternative splicing produces different protein products; may be involved in astrocyte plasticity and in eye development and pathology [RGD, Feb 2006]

Product images:



Circular map for RR211917