

Product datasheet for **RR217108**

Capn9 (NM_001271140) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Capn9 (NM_001271140) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Capn9
Synonyms:	Ncl-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR217108 representing NM_001271140
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCTTACCTGCATCGGTCCCTGAGACCCAGCCACAGCCAGTCCCAGGGATGCCAGGACTGTCCACT
 CCTCGGGCCACAGCTTTGAGCAGCTGAGGCAAAGCTGTCTGCAGTCGGGCACCTTGTGGAGATGCTGA
 CTTCCCTGCCAGCAATAGTTCAGTGTCTACACGAGAGGCCCCAGTCCCTTTGTGTGGAAGCGGCCA
 GGGGAAATTGTGGAAAACCCAGAATTCATTCTGGGAGGGGCCACAGGACCGACATCTGCCAAGGGGAAAC
 TGGGAGACTGCTGGCTCTGGCCGCCATTGCCTCCCTAACCTCAATCAGAAAGCACTGGCCAGAGTGGT
 ACCCCAGGACCAAGGATTTGGTTCTGGCTATGCTGGGATATTTCACTTCCAGTCTGGCAGCACAGTGA
 TGGCTGGAGCTGGTGATTGATGACCGCTGCCTACCTTCGGGATCGCTGGTCTTCTCCACTCTGCCG
 ACCACAATGAGTCTGGAGCGCACTGCTGGAGAAAGCCTATGCCAAGCTGAACGGGAGTTACGAGGCACT
 GAAGGGGGGCGAGGCCATCGAAGCCATGGAGGACTTCACCGGGGTGTGGCTGAGAACTTCCAAATCCGA
 GAGGCACCAAGGATTTCTACGAGATTCGGAGAAGGCCCTGCGGCGTGGTTCTTGGCTGGGCTGCTCCA
 TAGATACCTGAATGCCTCAGAATCTGAAGCCCGCACACCTTTGGGCTCATTAAAGGGCCATGCCTACAC
 TGTGACTGGACTCGACCAGGTAACCTCCACGGCCAGAGAATCAAGCTCATCAGAGTCCGTAACCCCTTGG
 GGCCAGGTGGAATGGAACGGGCCATGGAGCGACAGCTCTCCTGAGTGGCGCTCCATGAGCCTGGAGGAGC
 AGAAGCGCCTAGGTCACACCGCCCTTGACGATGGAGAATCTGGATGGCATTGAGGACTTCAAGACCCA
 TTTTGACAAAGTGGAGATCTGCAACCTCACGCCTGATGCCCTGGAGGACAACACCTCCACAAGTGGGAG
 GTGACCATCCACCAAGGAAGCTGGGTTCTGGCTCCACCGCCGGCGCTGCCCAACTTCTGGACACCT
 TCTGGACCAACCCACAGATAAAGCTGTCTCTGACAGAGAGGGATGAGGGCCAGGAGGGCTGCATTCTCT
 AGCAGCCTTGATGCAGAAAGACCCGAGGAGGCTCAAGAGGTTTGGTGCCAACATGCTGACCATTGGCTAT
 GCCATTTACCAGTGCCCAGACAAGGACGGACACCTGAATAGGGACTTTTTTCAGGTACCATGCCTCTCTGG
 CCCGAAGTAAGACATTCATCAACTTGAGAGAAGTCTCAGGCCGCTTCCAGCTGCCCCCGGAGACTATAT
 CCTCATCCCCAGCACCTTTGAGCCACACCAGGAGGCTGACTTCTGCCTGAGAATCTTCTCTGAGAAGAAA
 GCTGTTACTCAGGACCTGGATGAGAACATAGACATTGACCTTCTGAGCTTCCAAAGCCGACACCACAGG
 AGGAGGAAACCGAAGAGGAGCGGCACTCCGGGCCCTGTTCCGTCGAATTGCTGGTGAGGACATGGAGGT
 GTCAGCAGAAGAGCTTGAATATGTTCTAAATGCTGTTCTGCAAAAAGAAAACAGCCCTCAAGTTCAAGAGG
 CTGAGCCTGCTTCTCTGCAGAAACATTATCTCCCTGATGGACACCAGCGCAACGGGAAGATGGAGTTCCG
 AAGAGTTCCGGGTGTTCTGGGACAAGCTGAGGACTGGATGGACCTGTTTCTCCAGTTCCATGTGGACAA
 GTCCGGCACCATGTCTTCTATGAGTTGCGGACAGCACTGAAAGCTGCAGGCTTTCAGCTGGGTAGCCAT
 CTCTGACAGTGCCTCCTCAGGTATGCAGACGAGAACCTCCAGCTGGATTTCCATGACTACCTCAACT
 GCCTGGTCCGGCTGGAGAATGCGAGCCGGGTGTTCCAGTGTCTCAGTGTGAAGAACAAGGACTTCATCCA
 TCTCAACATAAACGAGTTCATCAACTTGACCATGAACATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217108 representing NM_001271140
Red=Cloning site Green=Tags(s)

MPYLHRSLRPQPQVPRDARTVHSSGHSFEQLRQSQSGTLFEDADFPASNSSLFYSERPQVPFVWKRPG
 GEIVENPEFILGGATRTDICQGELGDCWLLAAIASLTLNQKALARVVPQDQGFSGYAGIFHFQWQHSE
 WLDVVIDDRLPTFRDRLVFLHSADHNEFWSALLEKAYAKLNGSYEALKGGSAAIEAMEDFTGGVAENFQIR
 EAPEDFYEILEKALRRGSLGCSIDTLNASESEARTPLGLIKGHAYTVTGLDQVNFHGQRIKLIRVRNPW
 GQVEWNGPWSDSPEWRMSLEEQRLGHTALDDGEFWMAFEDFKTHFDKVEICNLTPDALEDNTLHKWE
 VTIHQGSWVRGSTAGGCRNFLDTFWTNPQIKLSLTERDEGQEGCTFLAALMOKDRRRLKRFGANMLTIGY
 AIYQCPDKDGHNLNRDFFRYHASLARSKTFINLREVSGRFQLPPGDYILIPSTFEPHQEADFCLRIFSEKK
 AVTQDLDENIDIDLPELKPPTPQEEETEERQFRALFRIAGEDMEVSAEELEYLVNAVLQKKTALKFKR
 LSLSCRNIISLMDTSGNGKMEFEFRVFDKLRVWMDLFLQFDVDSGTMSYELRTALKAAAGQLGSH
 LLQLIVLRYADENLQLDFDDYLNCLVRLLENASRVFQCLSVKNKDFIHLNINEFINLTMNI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271140

ORF Size: 2070 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_001271140.1](#), [NP_001258069.1](#)

RefSeq Size: 2434 bp

RefSeq ORF: 2073 bp

Locus ID: 116694

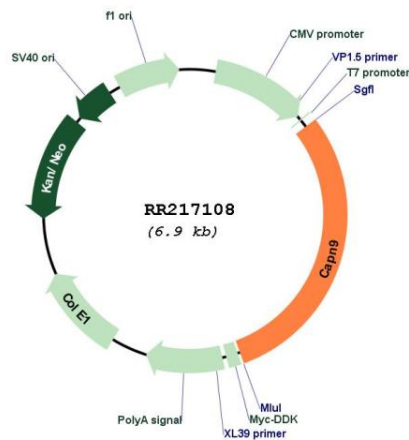
UniProt ID: [O35920](#)

Cytogenetics: 19q12

MW: 79.3 kDa

Gene Summary: member of the calpain large subunit family; predicted to have calpain cysteine protease activity [RGD, Feb 2006]

Product images:



Circular map for RR217108