

Product datasheet for **RN212845**

Cap1 (NM_022383) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cap1 (NM_022383) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cap1
Synonyms:	Mch1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN212845 representing NM_022383
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGACATGCAAAATCTTGTAGAAAGATTGGAGAGGGCAGTGGGCCCTGGAGCGGTGTACATA
 CTCTGACATGCACTGTGGATATGGAGACAGTCCCTTCAAAGGAGCAGTCCATATGTGCAAGCATTGGA
 CTCGCTGCTTGCCAATCCCGTGGCGGAGTACTGAAGATGAGTAAGGAGATTGGGGGAGATGTGCAGAAA
 CACGCGGAGATGGTCCACACAGGCCTGAAGTTGGAGCGAGCTCTCCTGGTTACAGCTTCTCAGTGCCAGC
 AGCCAGCCGGTAATAACTCTCGGATTTGTTGGCCCTATCTCGGAGCAGATCCAGGAAGTTATAACCTT
 CCGGGAGAAGAACCAGGAGCAGCAAGTTTTTCAATCATCTATCAGCTGTCAGTCAAAGCATCCAGGCCCTG
 GGCTGGTGGCTCTGGCTGCGAAACCCGGCCCTTTGTGAAAGAGATGAATGATGCCCCATGTTTTACA
 CAAACCGAGTCTCAAGGAGTACAGAGATGTGGATAAAAAGCATGTGGACTGGGTTAGAGCTTACTTGAG
 TATATGGACAGAACTGCAGGCTTACATCAAGGAGTCCATACCACTGGCCTGGCCTGGAGCAAGACGGGG
 CCTGTGGCAAAGAAGTGAAGTGGATTGCCATCTGGACCTTCTGTGGGATCAGGCCACCTCTCCCCAC
 CAGGCCCTCTCTCCCCAGTTCTACAGTTCTGGCTCTGACGACTCTGCTTACGCTCAGCACTGTT
 TGCACAGATTAATCAGGGGAAAGCATCACATGCCCTGAAACATGTATCTGATGACATGAAGACTCAC
 AAGAACCCTGCCCTGAAAGCTCAGAGTGGTCCAGTTCCGAGTGGCCCAAACCAATCTCTGCACCTAAAC
 CCCAACTAGCCCTCCCCAAACCAGCCACAAAGAAGGAGCCAGCTCTGCTGAACTGGAAGGCAAGAA
 ATGGAGAGTGGAAACCAGGAGAATGTTTCCAACCTGGTATCGATGACACTGAGCTGAAGCAGGTGGCT
 TACATCTACAAGTGTGTCAACACGACATTGCAAATCAAGGGCAAATCAATTCCATTACAGTAGATAACT
 GTAAGAAGCTTGGCCTGGTGTGTTGATGACGTGGTGGCATTGTGGAGATAATCAATAGTAGGGATGTCAA
 AGTTCAGGTGATGGGAAAAGTGCCAACCAATTTCCATTAACAAAACAGATGGCTGCCACGCTTACCTGAGT
 AAGAACCCTCGACTGCGAGATAGTCAAGTCCAAATCTCTGAGATGAACGTCCTCATTCTACAGAAG
 GCGGTGATTTAACGAGTCCAGTCCCTGAGCAGTTCAGACCTTGTGGAACGGACAGAAGTTGTCAC
 CACAGTGACAGAAATCGCTGGA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_022383

Insert Size: 1425 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_022383.2](#), [NP_071778.2](#)

RefSeq Size: 2584 bp

RefSeq ORF: 1425 bp

Locus ID: 64185

UniProt ID: [Q08163](#)

Cytogenetics: 5q36

Gene Summary: associated with the *S. cerevisia* adenylyl cyclase-associated protein (CAP); may be involved in the cyclic AMP signalling pathway [RGD, Feb 2006]