

Product datasheet for **RR212845**

Cap1 (NM_022383) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR212845 representing NM_022383
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGACATGCAAAATCTTGTAGAAAGATTGGAGAGGGCAGTGGGCCCTGGAGCGGTGTACATA
 CTCTGACATGCACTGTGGATATGGAGACAGTCCCTCAAAGGAGCAGTCCATATGTGCAAGCATTGGA
 CTCGCTGCTTGCCAATCCCGTGGCGGAGTACTGAAGATGAGTAAGGAGATTGGGGGAGATGTGCAGAAA
 CACGCGGAGATGGTCCACACAGGCCTGAAGTTGGAGCGAGCTCTCCTGGTTACAGCTTCTCAGTGCCAGC
 AGCCAGCCGGTAATAAACTCTCGGATTTGTTGGCCCTATCTCGGAGCAGATCCAGGAAGTTATAACCTT
 CCGGGAGAAGAACCAGGAGCAGCAAGTTTTTCAATCATCTATCAGCTGTCAGTGAAGCATCCAGGCCCTG
 GGCTGGTGGCTCTGGCTGCGAAACCCGGCCCTTTGTGAAAGAGATGAATGATGCCCCATGTTTTACA
 CAAACCGAGTCTCAAGGAGTACAGAGATGTGGATAAAAAGCATGTGGACTGGTTAGAGCTTACTTGAG
 TATATGGACAGAACTGCAGGCTTACATCAAGGAGTTCCATACCACTGGCCTGGCCTGGAGCAAGACGGGG
 CCTGTGGCAAAAGAACTGAGTGGATTGCCATCTGGACCTTCTGTGGGATCAGGCCACCTCTCCCCAC
 CAGGCCCTCTCTCCCCAGTTCTACAGTTCTGGCTCTGACGACTCTGCTTACGCTCAGCACTGTT
 TGCACAGATTAATCAGGGGAAAGCATCACATGCCCTGAAACATGTATCTGATGACATGAAGACTCAC
 AAGAACCCTGCCCTGAAAGCTCAGAGTGGTCCAGTTCCGAGTGGCCCAAACCAATCTCTGCACCTAAAC
 CCCAACTAGCCCTCCCCAAACCAGCCACAAAGAAGGAGCCAGCTCTGCTGAACTGGAAGGCAAGAA
 ATGGAGAGTGGAAAACCAGGAGAATGTTTCCAACCTGGTATCGATGACACTGAGCTGAAGCAGGTGGCT
 TACATCTACAAGTGTGTCAACACGACATTGCAAATCAAGGGCAAATCAATTCCATTACAGTAGATACT
 GTAAGAAGCTTGGCCTGGTGTGATGACGTGGTGGCATTGTGGAGATAATCAATAGTAGGGATGTCAA
 AGTTCAGGTGATGGGAAAAGTGCCAACCAATTTCCATTAACAAAACAGATGGCTGCCACGCTTACCTGAGT
 AAGAACCCTCGACTGCGAGATAGTCAAGTCCAAATCTCTGAGATGAACGTCCTCATTCTACAGAAG
 GCGGTGATTTAACGAGTCCCAGTCCCTGAGCAGTTCAAGACCTTGTGGAACGGACAGAAGTTGCTCAC
 CACAGTGACAGAAATCGCTGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212845 representing NM_022383
 Red=Cloning site Green=Tags(s)

MADMQNLVERLERAVGRLEAVSHTSDMHCGYGDSPSKGAVPYVQAFDSSLANPVAEYLKMSKEIGGDVQK
 HAEMVHTGLKLERALLVTASQCQPAGNKLSDLLAPISEIQIEVITFREKNRGSKFFNHL SAVSESIQAL
 GWVALAAKPGPFVKEMNDAMFYTNRVLKEYRDVKKHVDWVRAYLSIWTELQAYIKEFHHTGLAWSKTG
 PVAKELSGLPSPGSPVSGSPPPPPGPPPPVPTSSGSDDASRSALFAQINQGESITHALKHVSDDMKTH
 KNPALKAQSGPVRSGPKPFSAPKPQTSPSPKATKKEPALLELEGKKWRVENQENVSNLVIDDTELKQVA
 YIYKCVNTTLQIKGKINSITVDNCKKGLVFDDVVGIVEIINSRDVKVQVMGKVPITISINKTDGCHAYLS
 KNSLDCEIVSAKSSEMNVLIPTEGGDFNEFPVPEQFKTLWNGQKLVTTVTEIAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3217_c11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_022383

ORF Size: 1422 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.

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](#)

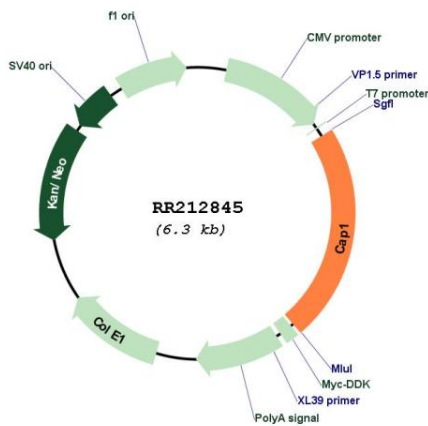
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_022383.2, NP_071778.2</u>
RefSeq Size:	2584 bp
RefSeq ORF:	1425 bp
Locus ID:	64185
UniProt ID:	<u>Q08163</u>
Cytogenetics:	5q36
MW:	51.6 kDa
Gene Summary:	associated with the <i>S. cerevisia</i> adenylyl cyclase-associated protein (CAP); may be involved in the cyclic AMP signalling pathway [RGD, Feb 2006]

Product images:



Circular map for RR212845