

Product datasheet for **SC321219**

CAP1 (NM_006367) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAP1 (NM_006367) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAP1
Synonyms:	CAP; CAP1-PEN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006367.2
 GCTGATCGCAGTCCGGAGGTGAGGCGGAACTCTGAGGTGGTCCATTATGGCTGACATGCA
 AAATCTGGTAGAAAGATTGGAGAGGGCAGTGGGCCGCCTGGAGGCAGTATCTCATACCTC
 TGACATGCACCGTGGGTATGCAGACAGTCTTCAAAGCAGGAGCAGCTCCATATGTGCA
 GGCATTTGACTCGCTGCTTGCTGGTCTGTGGCAGAGTACTTGAAGATCAGTAAAGAGAT
 TGGGGGAGACGTGCAGAAACATGCGGAGATGGTCCACACAGGTTTGAAGTTGGAGCGAGC
 TCTGTTGGTTACAGCTTCTCAGTGTCAACAGCCAGCAGAAAATAAGCTTTCGGATTTGTT
 GGCACCCATCTCAGAGCAGATCAAAGAAGTGATAACCTTTCGGGAGAAGAACCGAGGCAG
 CAAGTTGTTAATCACCTGTCAGCTGTCAGCGAAAGTATCCAGGCCCTGGGCTGGTGGC
 TATGGCTCCCAAGCCTGGCCCTTATGTGAAAGAAATGAATGATGCCGCCATGTTTATAC
 AAACCGAGTCTCAAAGAGTACAAAGATGTGGATAAGAAGCATGTAGACTGGGTCAAAGC
 TTATTTAAGTATATGGACAGAGCTGCAGGCTTACATTAAGGAGTTCATACCACCGGACT
 GGCCTGGAGCAAACGGGGCCTGTGGCAAAGAAGTGGAGCGACTGCCATCTGGACCCTC
 TGCCGGATCAGGTCTCTCCCTCCACCAGGCCCTCTCCCCAGTCTCTACCAG
 TTCAGGCTCAGATGAGTCTGCTTCCCGCTCAGCACTGTTGCGCAGATTAATCAGGGGA
 GAGCATTACACATGCCCTGAAACATGTATCTGATGACATGAAGACTCACAGAACCCTGC
 CCTGAAGGCTCAGAGTGGTCCAGTACGCAGTGGCCCCAAACCATTCTCTGCACCTAAACC
 CCAAACAGCCATCCCCAAACGAGCCCAAAGAAGGAGCCAGCTGTACTTGAAGTGA
 GGGCAAGAAGTGGAGAGTGGAAAATCAGGAAAATGTTTCAAACCTGGTGATTGAGGACAC
 AGAGCTGAAACAGGTGGCTTACATATACAAGTGTGTAACACGACATTGCAAATCAAGGG
 CAAAATTAACCTCATTACAGTAGATAAAGTGAAGAACTGGCCTGGTATTCGATGACGT
 GGTGGCATTGTGGAGATAATCAACAGTAAGGATGTCAAAGTTCAGGTAATGGGTAAGT
 GCCAACCATATCCATCAACAAAACAGATGGCTGCCATGCTTACCTGAGCAAGAATCCCT
 GGATTGTGAAATAGTCAGTGCCAAATCTCCGAGATGAATGCTCCTCATTCTACAGAAGG
 CGGTGACTTTAATGAATCCAGTTCCTGAGCAGTTCAAGACCCTATGGAACGGGAGAA
 GTTGGTACCACAGTGACAGAAATTGCTGGATAAGCGAAGTGCCACTGGGTTCTTTGCC
 TCCCTTACACCATGGGATAAATCTGTATCAAGACGGTCTTTTCTAGATTTCTCTACC
 TTTTGTCTTAAACTGCTTCTGCTCTGAGAAGCACAGCTACCTGCCTTCACTGAA
 TATACCTCAGGCTGAAATTTGGGTGGGATAGCAGGTGAGTTGATCTTCTGCAGGAAGT
 GCAGCTTTTCCATATCAGCTCAACCACGCCCGCAGTCCATTCTTAAGGAAGTCCCGACTA
 GGACTGATGATGCATTTTAGCTTTGAGCTTTTGGGGTTATTCTACCAACAAACAGTCCA
 TTGGAAAGAAAACAGTCCCTGGAATTAACAGATCAGAATGTTCACTGGTTAATCTTTT
 TTTAACATGAGCATGAAGGTAGCAGAAGCTGGTGTGTTCCAGATGGTCTTCTAACCA
 AACTAATTTTCACTGTTGACAAGCGAGGCAAGGGTTCAGCTGGACCAAAGGCTGAGGCT
 TGGCCATCTAGCATTCCATACAAAATTGTTTCTATAAGCATTCTTTTATTCTCTATTCT
 TATCCTGGGTCTGCCTCAACCGTGAAGATAGGAGAGTCTCTGGTACTAGCTGTAGCAG
 TGCCCTTATCCAGGGCAGTTAATGGAGTCTTGGACCCTTTCTTCTCTGGGATCCCTGC
 CCAGCACCTTCTATAGAGATGACTTTAAAAGGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_006367

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 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_006367.2 , NP_006358.1
RefSeq Size:	2614 bp
RefSeq ORF:	1428 bp
Locus ID:	10487
UniProt ID:	Q01518
Cytogenetics:	1p34.2
Domains:	CAP, CARP
Protein Families:	Druggable Genome
Gene Summary:	<p>The protein encoded by this gene is related to the <i>S. cerevisiae</i> CAP protein, which is involved in the cyclic AMP pathway. The human protein is able to interact with other molecules of the same protein, as well as with CAP2 and actin. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2016]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (a). Variants 1, 2, and 4-10 encode the same isoform (a).</p>