

## Product datasheet for **SC317101**

### **CAP1 (NM\_001105530) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CAP1 (NM_001105530) Human Untagged Clone
Tag:	Tag Free
Symbol:	CAP1
Synonyms:	CAP; CAP1-PEN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317101 representing NM\_001105530.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCTGACATGCAAAATCTGGTAGAAAGATTGGAGAGGGCAGTGGGCCCGCTGGAGGCAGTATCTCAT
ACCTCTGACATGCACCGTGGGTATGCAGACAGTCCTTCAAAGCAGGAGCAGCTCCATATGTGCAGGCA
TTTGACTCGCTGCTTGGTCCCTGTGGCAGAGTACTTGAAGATCAGTAAAGAGATTGGGGAGAGCTG
CAGAAACATGCGGAGATGGTCCACACAGGTTTGAAGTTGGAGCGAGCTCTGTTGTTACAGCTTCTCAG
TGTCAACAGCCAGCAGAAATAAGCTTTCCGATTTGTTGGCACCCATCTCAGAGCAGATCAAAGAAGTG
ATAACCTTTGGGAGAAGAACCAGGAGCAGCAAGTTGTTTAAACACCTGTCAGCTGTCAGCGAAAGTATC
CAGGCCCTGGGCTGGGTGGCTATGGCTCCCAAGCTGGCCCTTATGTGAAAGAAATGAATGATGCCGCC
ATGTTTTATACAAACCGAGTCTCAAAGAGTACAAAGATGTGGATAAGAAGCATGTAGACTGGGTCAA
GCTTATTTAAGTATATGGACAGAGCTGCAGGCTTACATTAAGGAGTTCCATACCACCGGACTGGCCTGG
AGCAAACCGGGCTGTGGCAAAGAAGTGAAGCGGACTGCCATCTGGACCCTCTGCCGGATCAGGTCTC
CTCCCCCTCCACAGGCCCCCTCCTCCCCAGTCTCTACCAGTTCAGGCTCAGATGAGTCTGCTTCC
CGCTCAGCACTGTTCCGGCAGATTAATCAGGGGGAGAGCATTACACATGCCCTGAAACATGTATCTGAT
GACATGAAGACTCACAAGAACCTGCCCTGAAGGCTCAGAGTGGTCCAGTACGCAGTGGCCCAAACCA
TTCTCTGCACCTAAACCCCAAACAGCCATCCCCCAAACGAGCCACAAAGAAGGAGCCAGCTGTACTT
GAACTGGAGGGCAAGAAGTGGAGAGTGGAAAATCAGGAAAATGTTTCAAACCTGGTGATTGAGGACACA
GAGCTGAAACAGGTGGCTTACATATAAAGTGTGTCAACACGACATTGCAAAATCAAGGGCAAAATTAAC
TCCATTACAGTAGATAACTGTAAGAACTTGGCCTGGTATTGATGACGTGGTGGCATTGTGGAGATA
ATCAACAGTAAGGATGTCAAAGTTCAGGTAATGGGTAAAGTGCCAACCATATCCATCAACAAAACAGAT
GGCTGCCATGCTTACCTGAGCAAGAATCCCTGGATTGTGAAATAGTCAGTGCCAAATCTTCCGAGATG
AATGTCCTCATTCTACAGAAGGCGGTGACTTTAATGAATCCCAGTTCCTGAGCAGTTCAGACCCCTA
TGGAACGGGCAGAAGTTGGTCACCACAGTGACAGAAAATTGCTGGATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

**Restriction Sites:** Sgfl-Mlul

**Plasmid Map:** □

**ACCN:** NM\_001105530

**Insert Size:** 1428 bp

**OTI Disclaimer:** 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).

**OTI Annotation:** 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.

**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\\_001105530.1](#)

**RefSeq Size:** 2780 bp

**RefSeq ORF:** 1428 bp

**Locus ID:** 10487

**UniProt ID:** [Q01518](#)

**Cytogenetics:** 1p34.2

**Protein Families:** Druggable Genome

**MW:** 51.7 kDa

**Gene Summary:** The protein encoded by this gene is related to the *S. cerevisiae* 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]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 4-10 encode the same isoform (a).