

Product datasheet for **RG225806**

CAP1 (NM_001105530) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CAP1 (NM_001105530) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CAP1
Synonyms:	CAP; CAP1-PEN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225806 representing NM_001105530
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTGACATGCAAAATCTGGTAGAAAGATTGGAGAGGGCAGTGGGCCCTGGAGGCAGTATCTCATA
 CCTCTGACATGCACCGTGGGTATGCAGACAGTCCCTCAAAGCAGGAGCAGCTCCATATGTGCAGGCATT
 TGACTCGCTGCTTGTGCTCCTGTGGCAGAGTACTTGAAGATCAGTAAAGAGATTGGGGGAGACGTGCAG
 AAACATGCGGAGATGGTCCACACAGTTTGAAGTTGGAGCGAGCTCTGTTGGTTACAGCTTCTCAGTGTC
 AACAGCCAGCAGAAAATAAGCTTCCGATTTGTTGGCACCCATCTCAGAGCAGATCAAAGAAGTGATAAC
 CTTTCGGGAGAAGAACCAGGCAGCAAGTTGTTTAAATCACCTGTCAGCTGTCAGCGAAAGTATCCAGGCC
 CTGGGCTGGTGGCTATGGCTCCAAGCCTGGCCCTTATGTGAAAGAAATGAATGATGCCGCCATGTTTT
 ATACAAACCGAGTCTCAAAGAGTACAAAGATGTGGATAAGAAGCATGTAGACTGGGTCAAAGCTTATTT
 AAGTATATGGACAGAGCTGCAGGCTTACATTAAGGAGTCCATACCACCGGACTGGCCTGGAGCAAACG
 GGGCCTGTGGCAAAGAAGTACGCGGACTGCCATCTGGACCCTCTGCCGGATCAGGTCTCTCCCCCTC
 CACCAGGCCCCCTCTCCCCAGTCTCTACCAGTTCAGGCTCAGATGAGTCTGTTCCCGCTCAGCACT
 GTTCGCGCAGATTAATCAGGGGGAGAGCATTACACATGCCTGAAACATGTATCTGATGACATGAAGACT
 CACAAGAACCCTGCCCTGAAGGCTCAGAGTGGTCCAGTACGCAGTGGCCCAAACCATCTCTGCACCTA
 AACCCCAAACAGCCCATCCCCAAACGAGCCACAAGAAGGAGCCAGCTGTACTTGAAGTGGAGGGCAA
 GAAGTGGAGAGTGGAAAATCAGGAAAATGTTTCCAACCTGGTATTGAGGACACAGAGCTGAAACAGGTG
 GCTTACATATAAAGTGTGTCAACACGACATTGCAAATCAAGGGCAAAATTAAGTCCATTACAGTAGATA
 ACTGTAAGAAAATTTGGCCTGGTATTCGATGACGTGGTGGCATTGTGGAGATAATCAACAGTAAGGATGT
 CAAAGTTCAGGTAATGGGTAAAGTGCCAACCATATCCATCAACAAAACAGATGGCTGCCATGCTTACCTG
 AGCAAGAATTCCTGGATTGTGAAATAGTCAGTGCCAAATCTTCCGAGATGAATGTCCTCATTCTACAG
 AAGGCGGTGACTTTAATGAATCCAGTTCCTGAGCAGTCAAGACCCTATGGAACGGGCAGAAGTTGGT
 CACCACAGTGACAGAAATTGCTGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG225806 representing NM_001105530
 Red=Cloning site Green=Tags(s)

MADMQNLVERLERAVGRLEAVSHTSDMHRGYADSPSKAGAAPYVQAFDSLLAGPVAEYLIKISKEIGGDVQ
 KHAEMVHTGLKLERALLVTASQCQQAENKLSDLLAPISEIQIKEVITFREKNRGSKLFNHL SAVSESIQA
 LGWVAMAPKPGPYVKEMNDAAMFYTNRVLKEYKDVDKHHVDWVKAYLSIWTELQAYIKEFHHTGLAWSKT
 GPVAKELSGLPSGPSAGSGPPPPPPPPPPVSTSSGDESASRSALFAQINQGESITHALKHVSDDMKT
 HKNPALKAQSGPVRSGPKPF SAPKPQTSPPKRA TKKEPAVLELEGKWRVENQENVSNL VIEDTELKQV
 AYIYKCVNTTLQIKGKINSITVDNCKLGLVFDDVVGIVEIINSDVKVQVMGKVPTISINKTDGCHAYL
 SKNSLDCEIVSAKSSEMNVLIPTTEGGDFNEFPVPEQFKTLWNGQKLVTTVTEIAG

TRTRPLE – GFP Tag – V

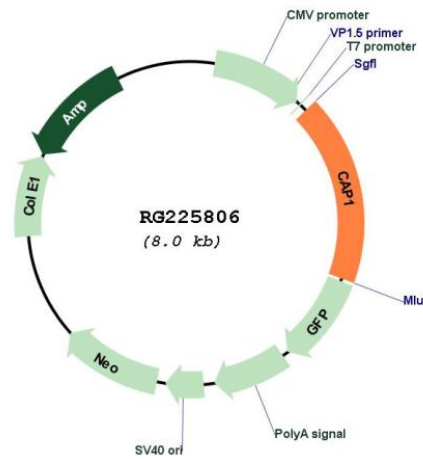
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001105530

ORF Size: 1425 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:	<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:	<u>NM_001105530.1</u> , <u>NP_001099000.1</u>
RefSeq Size:	2780 bp
RefSeq ORF:	1428 bp
Locus ID:	10487
UniProt ID:	<u>Q01518</u>
Cytogenetics:	1p34.2
Protein Families:	Druggable Genome
Gene Summary:	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]