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# Product datasheet for RG203332

## CAP2 (NM_006366) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | CAP2 (NM_006366) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | CAP2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**ORF Nucleotide Sequence:**

>RG203332 representing NM_006366
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAACATGCAGGGACTGGTGGAAAGACTGGAACGAGCTGTCAGCCGCCTGGAGTCGCTGTCTGCAG
AGTCCCACAGGCCCCCTGGGAACTGCGGGGAAGTCAATGGTGTCATTGCAGGTGTGGCACCCTCCGTGGA
AGCCTTTGACAAGCTGATGGACAGTATGGTGGCCGAGTTTTTAAAGAACAGTAGGATCCTTGCTGGGGAC
GTGGAGACCCATGCAGAAATGGTGCACAGTGCTTTCCAGGCCCAGCGGGCTTTCCTTCTGATGGCCTCTC
AGTACCAACAACCCCACGAGAATGACGTGGCCGCACTTCTGAAACCCATATCGGAAAAGATTCAGGAAAT
CCAAACTTTCAGAGAGAGAAACCGGGGGAGTAACATGTTTAATCATCTTTCGGCCGTCAGCGAAAGCATC
CCTGCCCTTGGATGGATAGCTGTGTCTCCCAAACCTGGTCCTTATGTCAAGGAGATGAATGACGCTGCCA
CCTTTTACACTAACAGGGTCTTAAAGGACTACAAACACAGTGATTTGCGTCATGTGGATTGGGTGAAGTC
ATATTTGAACATTTGGAGTGAACTTCAAGCATACATCAAGGAACACCACACCACGGGCCTCACATGGAGC
AAAACAGGTCCTGTAGCATCCACAGTATCAGCGTTTTCTGTCCTCTCCTCTGGGCCTGGCCTTCCTCCAC
CCCCTCCTCCTCTGCCTCCTCCAGGGCCACCTCCACTTTTCGAGAATGAAGGCAAAAAAGAGGAATCTTC
TCCTTCACGCTCAGCTTTATTTGCCCAACTTAACCAGGGAGAAGCAATTACAAAAGGGCTCCGCCATGTC
ACAGATGACCAGAAGACATACAAAAATCCCAGCCTGCGGGCTCAAGGAGGGCAAACTCAATCTCCCACCA
AAAGTCACACTCCAAGTCCCACATCTCCTAAATCTTATCCTTCTCAAAAACATGCCCCAGTGTTGGAGTT
GGAAGGAAAGAAATGGAGAGTGGAGTACCAAGAGGACAGGAATGACCTTGTGATTTCAGAGACTGAGCTG
AAACAAGTGGCTTACATTTTCAAATGCGAAAAATCAACTATTCAGATAAAAGGGAAAGTAAACTCCATTA
TAATTGACAACTGTAAGAAACTCGGCCTGGTGTTTGACAATGTGGTGGGCATTGTGGAAGTGATCAACTC
CCAGGACATTCAAATCCAGGTAATGGGGAGAGTGCCAACAATTTCCATTAATAAGACAGAAGGTTGCCAC
ATATACCTCAGTGAAGATGCATTAGACTGTGAGATCGTGAGCGCCAAGTCATCTGAAATGAACATACTTA
TCCCTCAGGATGGTGATTATAGAGAATTTCCCATTCCTGAACAGTTCAAGACAGCATGGGATGGATCCAA
GTTAATCACTGAACCTGCAGAAATTATGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG203332 representing NM_006366
Red=Cloning site Green=Tags(s)

MANMQGLVERLERAVSRLESLSAESHRPPGNCGEVNGVIAGVAPSVEAFDKLMDSMVAEFLKNSRILAGD
VETHAEMVHSAFQAQRAFLLMASQYQQPHENDVAALLKPISEKIQEIQTFRERNRGSNMFNHLSAVSESI
PALGWIAVSPKPGPYVKEMNDAATFYTNRVLKDYKHSDLRHVDWVKSYLNIWSELQAYIKEHHTTGLTWS
KTGPVASTVSAFSVLSSGPGLPPPPPPLPPPGPPPLFENEGKKEESSPSRSALFAQLNQGEAITKGLRHV
TDDQKTYKNPSLRAQGGQTQSPTKSHTPSPTSPKSYPSQKHAPVLELEGKKWRVEYQEDRNDLVISETEL
KQVAYIFKCEKSTIQIKGKVNSIIIDNCKKLGLVFDNVVGIVEVINSQDIQIQVMGRVPTISINKTEGCH
IYLSEDALDCEIVSAKSSEMNILIPQDGDYREFPIPEQFKTAWDGSKLITEPAEIMA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

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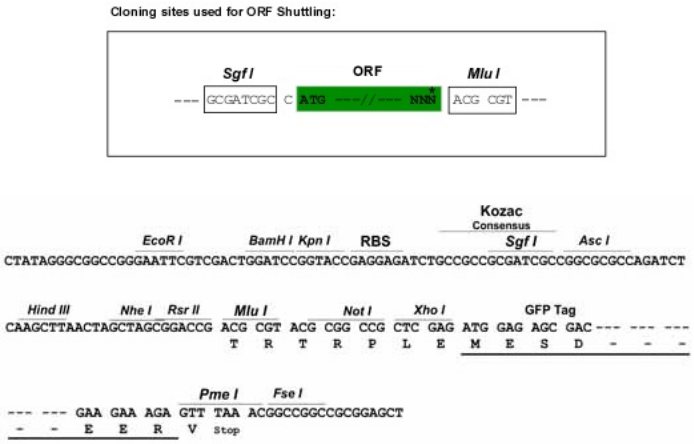
**Cloning Scheme:**




| | |
|---|---|
| **ACCN:** | NM_006366 |
| **ORF Size:** | 1431 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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_006366.1 |
| **RefSeq Size:** | 3080 bp |
| **RefSeq ORF:** | 1434 bp |
| **Locus ID:** | 10486 |
| **UniProt ID:** | P40123 |
| **Cytogenetics:** | 6p22.3 |

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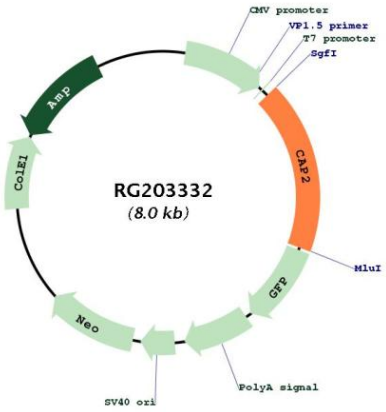
**Domains:** CAP, CARP

**Gene Summary:** This gene was identified by its similarity to the gene for human adenylyl cyclase-associated protein. The function of the protein encoded by this gene is unknown. However, the protein appears to be able to interact with adenylyl cyclase-associated protein and actin. [provided by RefSeq, Jul 2008]

## Product images:




Circular map for RG203332

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