

Product datasheet for **RG214556**

CABP2 (NM_016366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CABP2
Synonyms:	DFNB93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214556 representing NM_016366
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**C

ATGGGGAACTGTGCCAAGCGGCCCTGGCGCCGGGGCCCTAAGGACCCCTTGCACTGGCTCGGCTCCCCAC
CAAGGGGCTCCTGCCCCAGCCCCAGCTCCAGCCCCAAGGAGCAGGGGGACCCCGCCAGGCGTCCAGGG
CTACTCGGTGCTCAACAGCCTGGTGGGGCCTGCCTGCATCTTCTGCGGCCAGCATTGCCGCCACCCAA
CTCGACCGGAGCTGCGGCCCGAGGAGATTGAAGAGCTGCAGTGCCTTCCAGGAGTTTGACCGAGACC
AGGACGGCTACATTGGCTGCCGGGAGCTGGGTGCCTGCATGCGGACCCTGGGCTACATGCCACCGAGAT
GGAGCTCATCGAGATCTCACAGCAAATCAGTGGCGGAAAGGTGGACTTTGAAGACTTCGTGGAGCTGATG
GGCCCCAAGCTGCTGGCAGAGACGGCAGACATGATCGGTGTCCGGGAGCTACGGGACGCCTTCCGGGAGT
TCGACACCAATGGGACGGCCGCATCAGCGTGGGCGAGCTCCGGGCGGCCCTCAAGGCCCTGCTGGGGGA
GCGCCTCAGCCAGCGGGAGGTGGACGAGATCCTCCAGGACGTGGACCTCAATGGGGACGGTCTGGTCGAC
TTCGAAGAGTTTGTGCGAATGATGTCTCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214556 representing NM_016366
Red=Cloning site Green=Tags(s)

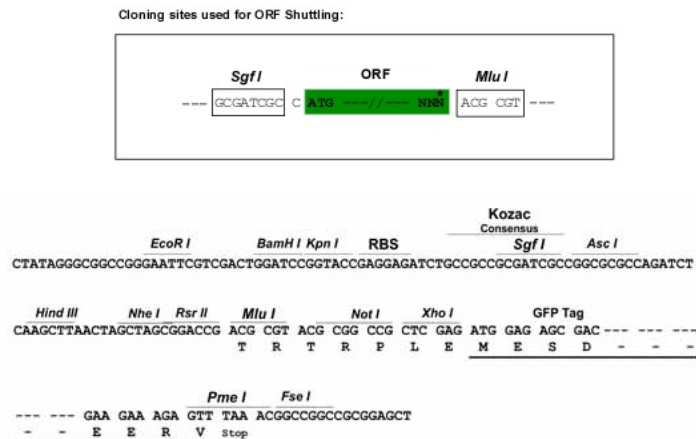
MGNCAKRPWRRGPKDPLQWLGSPPRGSCPSPPSSPKEQGDPA PGVQGYSVLNSLVGPACIFLRPSIAATQ
LDRELRP EEIEELQVAFQEFDRDQDGYIGCRELGACMRTLGYMPTMELIEISQQISGGKVDFEDFVELM
GPKLLAETADMIGVREL RDAFREFD TNGDGRISVGELRAALKALLGERLSQREVDEILQDVLNGDGLVD
FEFVRMSR

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016366

ORF Size: 660 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.
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016366.1](#), [NP_057450.1](#)

RefSeq Size: 986 bp

RefSeq ORF: 663 bp

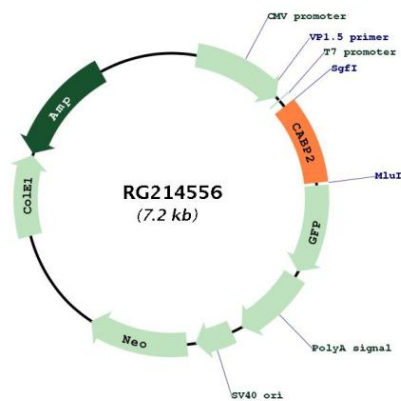
Locus ID: 51475

UniProt ID: [Q9NPB3](#)

Cytogenetics: 11q13.2

Gene Summary: This gene belongs to a subfamily of calcium binding proteins that share similarity to calmodulin. Like calmodulin, these family members can likely stimulate calmodulin-dependent kinase II and the protein phosphatase calcineurin. Calcium binding proteins are an important component of calcium mediated cellular signal transduction. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RG214556