

Product datasheet for **RG213946**

CABP5 (NM_019855) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CABP5 (NM_019855) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CABP5
Synonyms: CABP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213946 representing NM_019855
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCAGTTCCCATGGGCCCCGCTGCATCTTCTTGAGGAAAGGCATTGCTGAGAAACAGCGGAAAGAC
CACTGGGACAAGATGAGATTGAAGAGCTGCGGGAAGCATTTCTTGAGTTCGATAAGGACCGAGATGGTT
CATCTCTTGTAAAGATCTGGGAATCTCATGAGGACGATGGGTTACATGCCACGGAGATGGAAGTATT
GAGCTCGGCCAGCAAATCCGCATGAACCTGGGTGGCCGTGTAGACTTTGATGACTTTGTGGAGCTGATGA
CCCCCAAATTGCTTGAGAAACAGCTGGGATGATCGGTGTCCAGGAGATGCGGGATGCCTTCAAGGAGTT
TGACACGAATGGAGATGGGGAGATCACCTGGTGGAGCTACAGCAGGCCATGCAGAGACTCTGGGGGAG
CGGCTCACCCCCCGGAGATCTCTGAGGTTGTCCGGGAGGCTGATGTTAATGGAGACGGCACAGTTGACT
TTGAAGAGTTTGTGAAGATGATGTCTCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213946 representing NM_019855
Red=Cloning site Green=Tags(s)

MQFPMGPACIFLRKGIAEKQRRERPLGQDEIEELREAFLEFDKDRDGFISCKDLGNLMRTMGYPTEMLI
 ELGQQIRMNLGGRVDFDDFVELMTPKLLAETAGMIGVQEMRDAFKEFDNNGDGEITLVELQQAMQRLIGE
 RLTPREISEVVREADVNGDGTVDFFEFVKMMSR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_019855

ORF Size: 519 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_019855.3](#), [NP_062829.1](#)

RefSeq Size: 1268 bp

RefSeq ORF: 522 bp

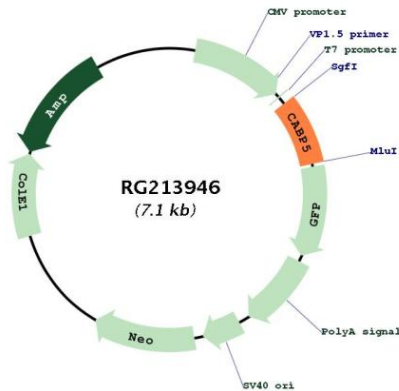
Locus ID: 56344

UniProt ID: [Q9NP86](#)

Cytogenetics: 19q13.33

Gene Summary: The product of this gene belongs to a subfamily of calcium binding proteins, which share similarity to calmodulin. Calcium binding proteins are an important component of calcium mediated cellular signal transduction. Expression of this gene is retina-specific. The mouse homolog of this protein has been shown to express in the inner nuclear layer of the retina, suggested its role in neuronal functioning. The specific function of this gene is unknown. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RG213946