

Product datasheet for **RC213946**

CABP5 (NM_019855) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CABP5 (NM_019855) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CABP5
Synonyms: CABP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC213946 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGTTC~~CCCC~~ATGGGCCCCGCTGCATCTTCTTGAGGAAAGGCATTGCTGAGAAACAGCGGAAAGAC
CACTGGGACAAGATGAGATTGAAGAGCTGCGGGAAGCATTCTTGAGTTCGATAAGGACCGAGATGGGT
CATCTCTTGAAGGATCTGGGAATCTCATGAGGACGATGGGTACATGCCACGGAGATGGAAGTATT
GAGCTCGGCCAGCAAATCCGCATGAACCTGGGTGGCCGTAGACTTTGATGACTTTGTGGAGCTGATGA
CCCCAAATTGCTTGAGAAACAGCTGGGATGATCGGTGTCCAGGAGATCGGGATGCCTTCAAGGAGTT
TGACACGAATGGAGATGGGGAGATCACCCCTGGTGGAGCTACAGCAGGCCATGCAGAGACTCTGGGGGAG
CGGCTCACCCCCGGGAGATCTCTGAGGTTGTCCGGGAGGCTGATGTTAATGGAGACGGCACAGTTGACT
TTGAAGAGTTTGTGAAGATGATGTCTCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213946 protein sequence
Red=Cloning site Green=Tags(s)
MQFPMGPACIFLRKGI~~AEK~~QRRERPLGQDEIEELREAFLEFDKDRDGFISCKDLGNLMRTMGYMPTEMLI
ELGQQIRMNLGGRVDFDFVELMTPKLLAETAGMIGVQEMRDAFKEFDNTGDGEITLVELQQAMQRLLGE
RLTPREISEVVREADVNGDGTVDFFVFKMMSR

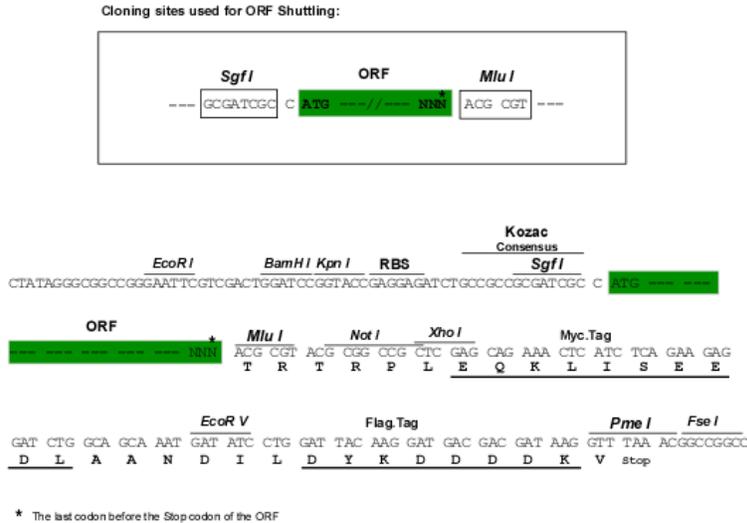
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6465_a05.zip



Restriction Sites: SgfI-MluI

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](#)

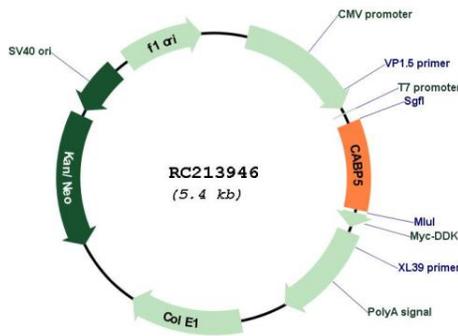
RefSeq Size: 1845 bp

RefSeq ORF: 522 bp

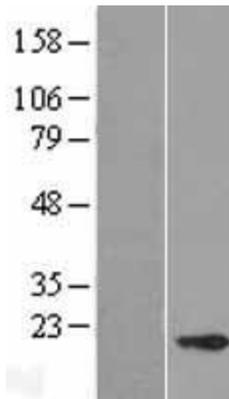
Locus ID: 56344
UniProt ID: [Q9NP86](#)
Cytogenetics: 19q13.33
MW: 19.8 kDa

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]

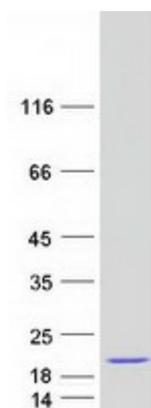
Product images:



Circular map for RC213946



Western blot validation of overexpression lysate (Cat# [LY412686]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213946 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CABP5 protein (Cat# [TP313946]). The protein was produced from HEK293T cells transfected with CABP5 cDNA clone (Cat# RC213946) using MegaTran 2.0 (Cat# [TT210002]).