

Product datasheet for RC202702

FABP4 (NM_001442) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FABP4 (NM_001442) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FABP4
Synonyms: A-FABP; AFABP; ALBP; aP2; HEL-S-104
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202702 representing NM_001442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGTGTGATGCTTTTGTAGGTACCTGGAACTTGTCTCCAGTGAAACTTTGATGATTATATGAAAGAAG
 TAGGAGTGGGCTTTGCCACCAGGAAAGTGGCTGGCATGGCCAAACCTAACATGATCATCAGTGTGAATGG
 GGATGTGATCACCATTAATCTGAAAGTACCTTTAAAAATACTGAGATTCCTTCATACTGGCCAGGAA
 TTTGACGAAGTCACTGCAGATGACAGGAAAGTCAAGAGCACCATAACCTTAGATGGGGGTGCCTGGTAC
 ATGTGCAGAAATGGGATGAAAAATCAACCACCATAAAGAGAAAACGAGAGGATGATAAACTGGTGGTGA
 ATCGTCATGAAAGGCGTCACTCCACGAGAGTTATGAGAGAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202702 representing NM_001442
 Red=Cloning site Green=Tags(s)
 MCDAFVGTWKLVSSENFDDYMKVEVGVFATRKVAGMAKPNMIISVNGDVITIKSESTFKNTEISFILGQE
 FDEVTADDRKVKSTITLDGGVLVHVQKWGDKSTTIKRKREDDKLVVECMKGVSTRVYERA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2583_g09.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001442

ORF Size: 396 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_001442.3](#)

RefSeq Size: 619 bp

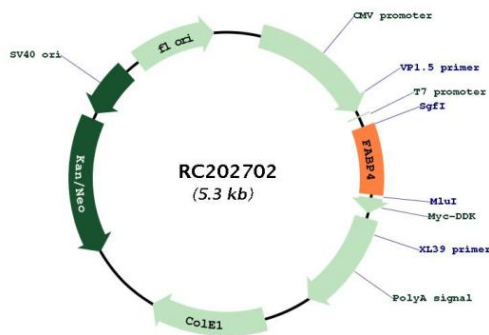
RefSeq ORF: 399 bp

Locus ID: 2167
UniProt ID: [P15090](#)
Cytogenetics: 8q21.13

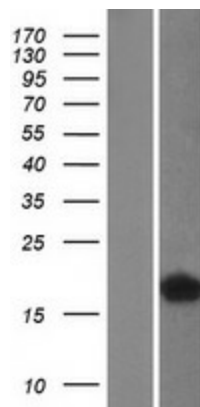
Protein Families: Druggable Genome
Protein Pathways: PPAR signaling pathway
MW: 14.7 kDa

Gene Summary: FABP4 encodes the fatty acid binding protein found in adipocytes. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism. [provided by RefSeq, Jul 2008]

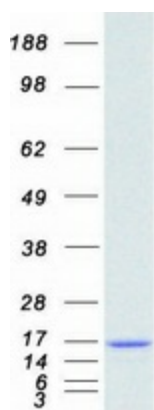
Product images:



Circular map for RC202702



Western blot validation of overexpression lysate (Cat# [LY400558]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202702 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FABP4 protein (Cat# [TP302702]). The protein was produced from HEK293T cells transfected with FABP4 cDNA clone (Cat# RC202702) using MegaTran 2.0 (Cat# [TT210002]).