

Product datasheet for **RC213969**

FABP6 (NM_001040442) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FABP6 (NM_001040442) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FABP6
Synonyms: I-15P; I-BABP; I-BALB; I-BAP; ILBP; ILBP3; ILLBP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC213969 representing NM_001040442
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGACAGTGACGATGATGATGGTGGTGAGATGCAGGCGCTGACTCAGGTTCTGAGAGCTGTGTTGT
CTGCGTGCACATGGGTGAGCCGAAAGGAGACCTGCAGAGAATGAAACAGACACATAAAGGAAAGCCTCC
CAGCAGCATGGCTTTCACCGCAAGTTCGAGATGGAGAGTGAGAAGAATTATGATGAGTTCATGAAGCTC
CTTGGGATCTCCAGCGATGTAATCGAAAAGGCCGCAACTTCAAGATCGTCACGGAGGTGCAGCAGGATG
GGCAGGACTTCACTTGGTCCCAGCACTACTCCGGGGCCACACCATGACCAACAAGTTCCTGTTGGCAA
GGAAAGCAACATACAGACAATGGGGGGCAAGACGTTTCAAGGCCACTGTGCAGATGGAGGGCGGGAAGCTG
GTGGTGAATTTCCCAACTATCACCAGACCTCAGAGATCGTGGGTGACAAGCTGGTGGAGGTCTCCACCA
TCGGAGGCGTGACCTATGAGCGCGTGAGCAAGAGACTGGCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC213969 representing NM_001040442
Red=Cloning site Green=Tags(s)

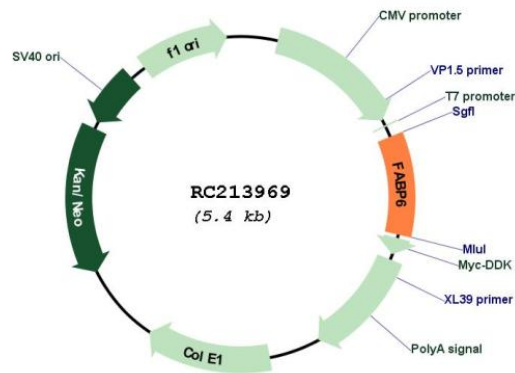
MKTVTMMVEMQALQVLRAVLSACTWVSRKGLQRMKQTHKGPSSMAFTGKFEMESEKNYDEFMKL
LGISSDVIEKARNFKIVTEVQDQDFWTSQHYSGGHTMTNKFVTKESNIQTMGGKTFKATVQMEGGKL
VNFNPNYHQTSEIVGDKLVEVSTIGGVTYERVSKRLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001040442

ORF Size: 531 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:	<ol style="list-style-type: none">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.
RefSeq:	<u>NM_001040442.1</u> , <u>NP_001035532.1</u>
RefSeq Size:	672 bp
RefSeq ORF:	534 bp
Locus ID:	2172
UniProt ID:	<u>P51161</u>
Cytogenetics:	5q33.3
Protein Pathways:	PPAR signaling pathway
MW:	19.7 kDa
Gene Summary:	This gene encodes the ileal fatty acid binding protein. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. FABP6 and FABP1 (the liver fatty acid binding protein) are also able to bind bile acids. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism. Transcript variants generated by alternate transcription promoters and/or alternate splicing have been found for this gene. [provided by RefSeq, Jul 2008]