

## Product datasheet for RC207592

### liver FABP (FABP1) (NM\_001443) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	liver FABP (FABP1) (NM_001443) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	liver FABP
Synonyms:	FABPL; L-FABP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207592 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGGATCGCC

ATGAGTTTCTCCGGCAAGTACCAACTGCAGAGCCAGGAAAACCTTGAAGCCTTCATGAAGGCAATCGGTC  
TGCCGGAAGAGCTCATCCAGAAGGGGAAGGATATCAAGGGGGTGTGCGAAATCGTCAGAATGGGAAGCA  
CTTCAAGTTCACCATCACCGCTGGGTCAAAGTGATCCAAACGAATTCACGGTGGGGGAGGAATGTGAG  
CTGGAGACAATGACAGGGGAGAAAAGTCAAGACAGTGGTTCAGTTGGAAGGTGACAATAAACTGGTGACAA  
CTTTCAAAAACATCAAGTCTGTGACCGAACTCAACGGCGACATAATCACCAATACCATGACATTGGGTGA  
CATTGTCTTCAAGAGAATCAGCAAGAGAATT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC207592 protein sequence Red=Cloning site Green=Tags(s)
	MSFSGKYQLQSQENFEAFMKAIGLPEELIQKGDIKGVSEIVQNGKHFKFTITAGSKVIQNEFTVGEECE LETMTGEKVKTVVQLEGDNKLVTTFKNIKSVTELNGDIITNTMTLGDIVFKRISKRI
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6019\\_c06.zip](https://cdn.origene.com/chromatograms/mk6019_c06.zip)

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001443

**ORF Size:** 381 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.

**RefSeq:** [NM\\_001443.3](#)

**RefSeq Size:** 598 bp

**RefSeq ORF:** 384 bp

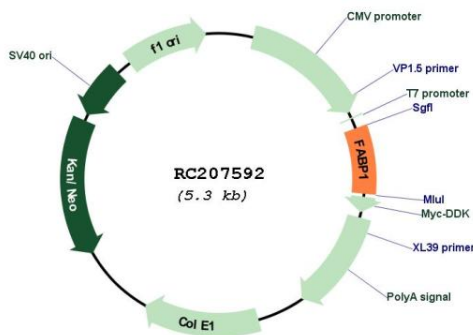
**Locus ID:** 2168

**UniProt ID:** [P07148](#)

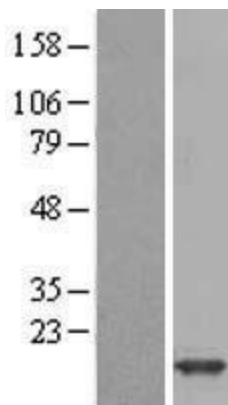
**Cytogenetics:** 2p11.2  
**Domains:** lipocalin  
**Protein Pathways:** PPAR signaling pathway  
**MW:** 14.2 kDa

**Gene Summary:** This gene encodes the fatty acid binding protein found in liver. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. This protein and FABP6 (the ileal fatty acid binding protein) are also able to bind bile acids. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism. [provided by RefSeq, Mar 2011]

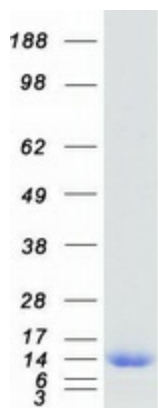
**Product images:**



Circular map for RC207592



Western blot validation of overexpression lysate (Cat# [LY400559]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207592 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FABP1 protein (Cat# [TP307592]). The protein was produced from HEK293T cells transfected with FABP1 cDNA clone (Cat# RC207592) using MegaTran 2.0 (Cat# [TT210002]).