

## Product datasheet for **RC202737**

### **FABP3 (NM\_004102) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FABP3 (NM\_004102) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** FABP3  
**Synonyms:** FABP11; H-FABP; M-FABP; MDGI; O-FABP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC202737 ORF sequence  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGGTGGACGCTTTCCTGGGCACCTGGAAGCTAGTGGACAGCAAGAATTCGATGACTACATGAAGTCAC**  
**TCGGTGTGGGTTTTGCTACCAGGCAGGTGGCCAGCATGACCAAGCCTACCACAATCATCGAAAAGAAATGG**  
**GGACATTCTACCCTAAAAACACACAGCACCTTCAAGAACACAGAGATCAGCTTTAAGTTGGGGGTGGAG**  
**TTTCGATGAGACAACAGCAGATGACAGGAAGGTCAAGTCCATTGTGACACTGGATGGAGGGAACTTGTTT**  
**ACCTGCAGAAATGGGACGGGCAAGAGACCACACTTGTGCGGGAGCTAATTGATGGAAAACATCCTGAC**  
**ACTCACCCACGGCACTGCAGTTTGCCTCGCACTTATGAGAAAAGAGGCA**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC202737 protein sequence  
**Red=Cloning site Green=Tags(s)**  
  
MVDAFLGTWKLVDKSNFDDYMKSLGVGFATRQVASMTKPTTIIKNGDILTLKTHSTFKNTEISFKLGVE  
FDETTADDRKVKSIIVTLDGGKLVHLQKWDGQETTLVRELIDGKILTLTHGTAVCTRTRYEKA

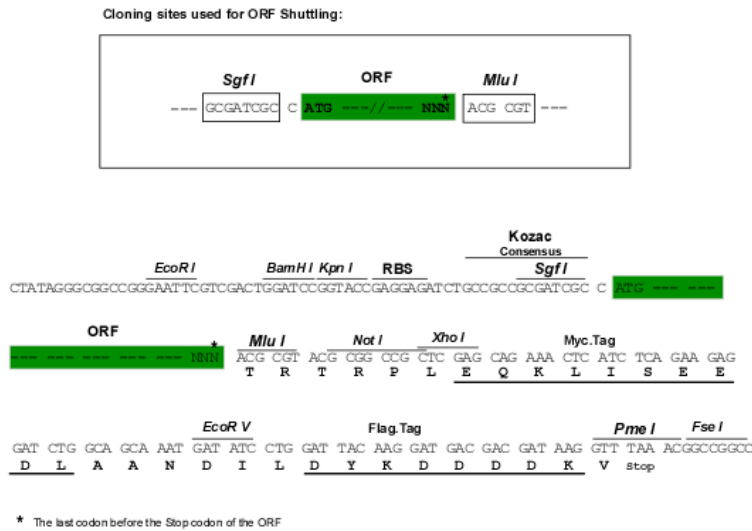
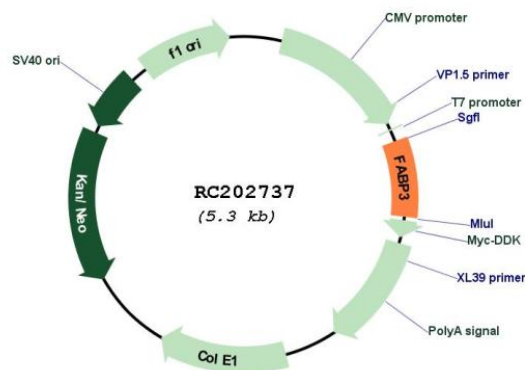
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6414\\_a05.zip](https://cdn.origene.com/chromatograms/mk6414_a05.zip)

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_004102

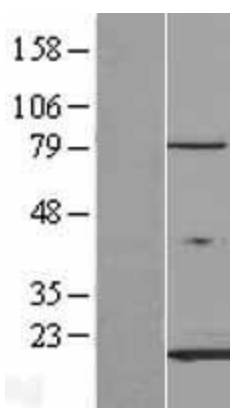
**ORF Size:** 399 bp

**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](#)

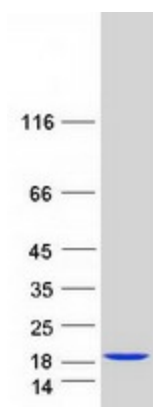
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004102.5</a>
<b>RefSeq Size:</b>	1097 bp
<b>RefSeq ORF:</b>	402 bp
<b>Locus ID:</b>	2170
<b>UniProt ID:</b>	<a href="#">P05413</a>
<b>Cytogenetics:</b>	1p35.2
<b>Protein Pathways:</b>	PPAR signaling pathway
<b>MW:</b>	14.9 kDa
<b>Gene Summary:</b>	The intracellular fatty acid-binding proteins (FABPs) belongs to a multigene family. FABPs are divided into at least three distinct types, namely the hepatic-, intestinal- and cardiac-type. They form 14-15 kDa proteins and are thought to participate in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. They may also be responsible in the modulation of cell growth and proliferation. Fatty acid-binding protein 3 gene contains four exons and its function is to arrest growth of mammary epithelial cells. This gene is a candidate tumor suppressor gene for human breast cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

### Product images:



Western blot validation of overexpression lysate (Cat# [LY418213]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202737 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FABP3 protein (Cat# [TP302737]). The protein was produced from HEK293T cells transfected with FABP3 cDNA clone (Cat# RC202737) using MegaTran 2.0 (Cat# [TT210002]).