

## Product datasheet for **RG202702**

### **FABP4 (NM\_001442) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FABP4 (NM\_001442) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FABP4  
**Synonyms:** A-FABP; AFABP; ALBP; aP2; HEL-S-104  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202702 representing NM\_001442  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTGTGATGCTTTTGTAGGTACCTGGAACTTGTCTCCAGTGAAAACCTTGTATGATTATATGAAAGAAG  
 TAGGAGTGGGCTTGGCCACCAGGAAAGTGGCTGGCATGGCCAAACCTAACATGATCATCAGTGTGAATGG  
 GGATGTGATCACCATTAATCTGAAAGTACCTTTAAAAATACTGAGATTCCTTCATACTGGCCAGGAA  
 TTTGACGAAGTCACTGCAGATGACAGGAAAGTCAAGAGCACCATAACCTTAGATGGGGGTGTCCTGGTAC  
 ATGTGCAGAAATGGGATGAAAAATCAACCACCATAAAGAGAAAACGAGAGGATGATAAACTGGTGGTGA  
 ATCGTCATGAAAGGCGTCACTTCCACGAGAGTTTATGAGAGAGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG202702 representing NM\_001442  
 Red=Cloning site Green=Tags(s)  
 MCDAFVGTWKLVSSENFDDYMKEVGVGFATRKVAGMAKPNMIISVNGDVITIKSESTFKNTEISFILGQE  
 FDEVTADDRKVKSTITLDGGVLVHVQKWGDKSTTIKRKREDDKLVVECVMKGVTSRVYERA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-Mlul



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**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.

**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  
**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 RG202702