

Product datasheet for **RG202737**

FABP3 (NM_004102) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FABP3 (NM_004102) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FABP3
Synonyms: FABP11; H-FABP; M-FABP; MDGI; O-FABP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202737 representing NM_004102
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGGACGCTTCTGGGCACCTGGAAGCTAGTGGACAGCAAGAATTCGATGACTACATGAAGTCAC
 TCGGTGTGGTTTTGTACCAGGCAGGTGGCCAGCATGACCAAGCCTACCACAATCATCGAAAAGAAATGG
 GGACATTCTACCCTAAAAACACACAGCACCTTCAAGAACACAGAGATCAGCTTTAAGTTGGGGGTGGAG
 TTCGATGAGACAACAGCAGATGACAGGAAGGTCAAGTCCATTGTGACACTGGATGGAGGAACTTGTTCC
 ACCTGCAGAAATGGGACGGCAAGAGACCACACTTGTGCGGGAGCTAATTGATGGAAAACATCCTGAC
 ACTCACCCACGGCACTGCAGTTTGCACCTCGCACTTATGAGAAAGAGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202737 representing NM_004102
 Red=Cloning site Green=Tags(s)
 MVDAFLGTWKLVDKSNFDDYMKSLGVGFATRQVASMTKPTTIIIEKNGDILTLKTHSTFKNTEISFKLGV
 FDETTADDRKVKSIIVTLDDGKLVHLQKWDGQETTLVRELIDGKILTLTHGTAVCTRTRYEKEA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


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.

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_004102.5](#)

RefSeq Size: 1097 bp

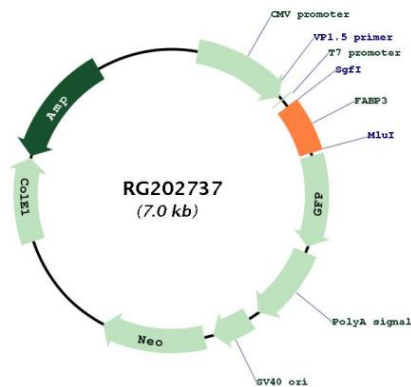
RefSeq ORF: 402 bp

Locus ID: 2170
UniProt ID: [P05413](#)
Cytogenetics: 1p35.2

Protein Pathways: PPAR signaling pathway

Gene Summary: 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:



Circular map for RG202737