

Product datasheet for **RG210206**

FABP2 (NM_000134) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FABP2 (NM_000134) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FABP2
Synonyms: FABPI; I-FABP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210206 representing NM_000134
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTTTGACAGCACTTGAAGGTAGACCGGAGTGAAAATATGACAAGTTCATGGAAAAATGGGTG
 TTAATATAGTGAAAAGGAAGCTTGCAGCTCATGACAATTTGAAGCTGACAATTACACAAGAAGGAAATAA
 ATTCACAGTCAAAGAATCAAGCGCTTTTCGAAACATTGAAGTTGTTTTGAACTTGGTGACCTTTAAT
 TACAACCTAGCAGACGGAAGTGAAGTCAAGGGGACCTGGAGCCTTGAGGGAAATAAACTTATTGGAAAAAT
 TCAAACGGACAGACAATGGAAACGAAGTGAATACTGTCCGAGAAATTATAGGTGATGAACTAGTCCAGAC
 TTATGTGTATGAAGGAGTAGAAGCCAAAAGGATCTTTAAAAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210206 representing NM_000134
 Red=Cloning site Green=Tags(s)

MAFDSTWKVDRSENYDKFMEKMGVNIIVKRKLAHDNLKLTITQEGNKFTVKESSAFRNIEVVFELGVTFN
 YNLADGTELRTWSLEGKLIKFKRTDNGNELNTVREIIGDELVQTYVYEGVEAKRIFKKD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_000134

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.

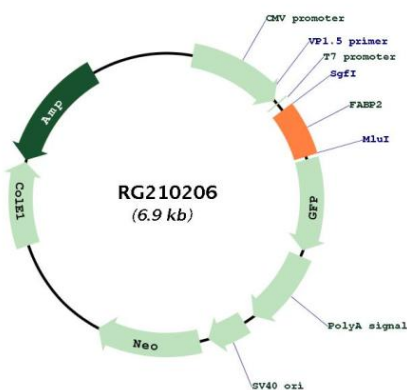
RefSeq: [NM_000134.2](#), [NP_000125.1](#)

RefSeq Size: 2273 bp

RefSeq ORF: 399 bp

Locus ID:	2169
UniProt ID:	P12104
Cytogenetics:	4q26
Protein Pathways:	PPAR signaling pathway
Gene Summary:	The protein encoded by this gene is an intracellular fatty acid-binding protein that participates in the uptake, intracellular metabolism, and transport of long-chain fatty acids. The encoded protein is also involved in the modulation of cell growth and proliferation. This protein binds saturated long-chain fatty acids with high affinity, and may act as a lipid sensor to maintain energy homeostasis. [provided by RefSeq, Aug 2017]

Product images:



Circular map for RG210206