

Product datasheet for **SC300013**

FABP2 (NM_000134) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FABP2 (NM_000134) Human Untagged Clone
Tag:	Tag Free
Symbol:	FABP2
Synonyms:	FABPI; I-FABP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000134 edited
CGCCCAAGGACAGACCTGAATCTCTAGCTGCCTAGAGGCTGACTCAACTGAAATCATGGC
GTTTGACAGCACTTGAAGGTAGACCGGAGTGAAAATATGACAAGTTCATGGAAAAAT
GGGTGTTAATATAGTGAAAAGGAAGCTTGCAGCTCATGACAATTTGAAGCTGACAATTAC
ACAAGAAGGAAATAAATTCACAGTCAAAGAATCAAGCGCTTTTCGAAACATTGAAGTTGT
TTTTGAACTTGGTGTACCTTTAATTACAATCTAGCAGACGGAAGTGAAGTCAAGGGGAC
CTGGAGCCTTGAGGGAAATAAATTTATTGGAAAATTCAAACGGACAGACAATGGAACGCA
ACTGAATACTGTCCGAGAAATTATAGGTGATGAACTAGTCCAGACTTATGTATATGAAGG
AGTAGAAGCCAAAAGGATCTTTAAAAAGGATTGAGCATTATTCTTGGCGCACAGTCCAAA
ATACAAATTGGACAGAAGATCTATATTGTACCAGAACTATTTATTTACCCCATCAAGTA
TAAGGTTACTGATTGATTGGTCTTTTATAAACATTGGTATATTTCCATTCATGCCAAAG
CAAAAGAAGTAAAGCTAATTAGGATTTAATTTGTTTTATATTCTAAGATATATATTT
ACTAAAAGAAATTTGTGACATTTTAAAAACAATAAATAATTGCGTCCATGTTGCTTTA
TATGTAGCCTTGCTTTTAAAAAGAAAAAGTATGTGAATATGAATTGACAGATTGTTTTCG
TAGAGAGAGGGTCTTACTCTTTCACTCAGGCTGGAATGTAGTGGAGAGATCATAGCTCAC
TGTAACCTCAAACCTCGACTCATGCAATCTTCTGCCTCAGGCTTCTGAGTAGCTAGG
ACTATGGGTACATTCCACAGTGCCAGCTAATTTTTGTTTTGTTTTCTTTTTATTTTTT
TAGAGATGGGGTCTTGCTATATTGCCAGGCTGGTCTTGAACCCCTGGCCTCAAGCAATC
CTCCTGCCTCAGCCTCTCAAGTTGTTTTTTTCTTTACATTTGATAAACTAAAAGCATAG
GCTGCATATGAGTCTTTAACATCTTGAAGTGGTGTGAATAATTTCTGGCACTGGTTGT
AAGTAATATCTATTATTAATAAATAATATATGCTCAACCAGAAAAGTAAAGAAATAGAA
ACACAAATGTAATAAGTATTTCCATAACTCATAATCCAGAGATAATTGCCATTCTGAT
TTTGATAGATATCCTCTCAGCTCTTCCCTGGGGCAGATATTTCCCAATACATACCAC
TTTGAATAGGATGATAGGAAATAAATGATGTAACATTAATAATTAATTATTGTATTACA
TTTTTGTACACATCAGTATTCCACGCTTGGCTGAAAATCAGGATCATCTGAGAAAATT
AAACAATTTCTGCATTCTTAATCTCCACTGTTATTCTATTATATCAGAATCGCTAATAGA
ACCAAGAATTCTAGAAAATTTCTGGTATTCTGATGCAGCCTGTCCACTAAGTGTCTT
TGAGAACAATGGAGATATCAGTTATCAATGTTATTTTTAACCACCCCTTCTTTTTGTT
GTTGTGGGTTTTTTCACATAAACACATACATTGCCAATTTTCCAGGGCTCAAAAAGTTTC
CTTTTATTCATATTTTCATGACGTAAAATTTATGTGCTTACATAATTGATTTTAG
CAGGGTACATATTAGGGATGGAGAGGGGTACAATTTTAAAGCATTTCAGCTGCAACT
CTATAGACTTTTGACAAATTTCTTTTTCACACTGATGTAGATAACAGCTTAACATTTACAT
AGTTCTTACTACTTGCCACACACTGTTCTAAGTGGTATATACATATGACATATATATTA
AATGTAGGAAGAAAAATGTTTGGAGTACCTGATGAAAATGAATAGAGAGTATGTAATCTTT
GAAAGCTGAATACTGCGTGTCTCACTTATAAGTGGGAGCTAAATAATGTATACACATGG
ACACACCAGAGTGTAGAATAATAGACACTGGAGACTTGGAAAGATTGGAGGGTTGGC
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000134 unedited GGCCGGGTTTCATCATTTTGAATACGACTCATATAGGCGGCCGCGNATTCCTGCAGCCCGG GGGATCCGCCCAAGACAGACCTGAATCTCTAGCTGCCTAGAGGCTGACTCAACTGAAATC ATGGCGTTTGACAGCACTTGAAGGTAGACCCGGAGTAAAACTATGACAAGTTTCATGNGA AAAAATGGGTGTTAATATAGTAAAAGGAAGCTTGCAGCTCATGACAATTTGAAGCTGAC AATTACACAAGAAGGAAATAAATTCACAGTCAAAGAATCAAGCGCTTTTCGAAACATTGA AGTTGTTTTTGAACCTGGTGTACCTTTAATTACAATCTAGCAGACGGAAGTGAAGTCAAG GGGACCTGGAGCCTTGAGGAAATAAACTTATTGGAAAATTCAAACGGACAGACAATGG AAACGAAGTGAATACTGTCCGAGAAATTATAGGTGATGAACTAGTCCAGACTTATGTATA TGAAGGAGTAGAAGCCAAAAGGATCTTTAAAAAGGATTGAGCATTATTCTTGGCGCACAG TCCAAAATACAAATTGGACAGAAGATCTATATTGTACCAGAACTATTTATTTACCCCAT CAAGTATAAGGTTACTGATTGATTGGTCCTTTTATAAACATTGGTATATTTCCATTCATG CCAAAGCAAAGAAGTAAAAGCTAATTAGGATTTAATTTGTTTTATATTCTAAGATAT ATATTTACTAAAAGAATTTGTGACATTTTAAAAACAAAATAAATATTGCGTCCATGTT GCTTTATATGTAGCCTTGCTTTTAAAAGAAAAGTATGTGAATATGAATTGACAGATTGT TTTCGTAGAGAGAGGGTCTTACTCTTCTACTCAGA
Restriction Sites:	Please inquire
ACCN:	NM_000134
Insert Size:	2100 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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:	<u>NM_000134.2</u> , <u>NP_000125.1</u>
RefSeq Size:	2273 bp
RefSeq ORF:	399 bp
Locus ID:	2169
UniProt ID:	<u>P12104</u>
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]