

## Product datasheet for SC119223

### Fatty Acid Binding Protein 5 (FABP5) (NM\_001444) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fatty Acid Binding Protein 5 (FABP5) (NM_001444) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fatty Acid Binding Protein 5
Synonyms:	E-FABP; EFABP; KFABP; PA-FABP; PAFABP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119223 sequence for NM_001444 edited (data generated by NextGen Sequencing)

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ATGGCCACAGTTCAGCAGCTGGAAGGAAGATGGCGCCTGGTGGACAGCAAAGCCTTTGAT
GAATACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAAATGGGCGCAATGGCCAAG
CCAGATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACTTTG
AAAAACAACACAGTTTTCTGTACCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGC
AGAAAAACTCAGACTGTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGG
GATGGGAAGGAAAGCACAATAACAAGAAAATTGAAAGATGGGAAATTAGTGGTGGAGTGT
GTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTAGAATAA
```

Clone variation with respect to NM\_001444.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001444 unedited CACGAGGGCCACGCCGACGACGCCCTCTCTGCACGCCAGCCCGCCGCACCCACCATG GCCACAGTTCAGCAGCTGGAAGGAAGATGGCGCCTGGTGGACAGCAAAGCCTTTGATGAA TACATGAAGGAGCTAGGAGTGGGAATAGCTTTGCGAAAAATGGGCGCAATGGCCAAGCCA GATTGTATCATCACTTGTGATGGTAAAAACCTCACCATAAAAACTGAGAGCACTTTGAAA ACAACACAGTTTTCTGTACCCTGGGAGAGAAGTTTGAAGAAACCACAGCTGATGGCAGA AAAACCTCAGACTGTCTGCAACTTTACAGATGGTGCATTGGTTCAGCATCAGGAGTGGGAT GGGAAGGAAAGCACAATAACAAGAAAATTGAAAGATGGGAAATTAGTGGTGGAGTGTGTC ATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTAGAATAAAAAATCCATCATCAC TTTGGACAGGAGTTAATTAAGAGAATGACCAAGCTCAGTTCATGAGCAAATCTCCATAC TGTTTCTTTCTTTTTTTTTCATTACTGTGTTCAATTATCTTTATCATAAACATTTTACA TGCAGCTATTTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAAT GTGTTTGTGCTAN
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001444 unedited CAACACATTTATTATTATACCAAGGNTGATCCTAATTAATCCAACACACTTTGAAATA GCTGCATGTAATAATGTTTATGATAAAGATAATTGAACACAGTAATGAAAAAAAAAGAAA GAAACAGTATGGAGATTTGCTCATTGAACTGAGCTTGGTCATTCTCTAATTAACCTCTG TCCAAAGTGATGATGGAATTTTTATTCTACTTTTTCATAGATCCGAGTACAGGTGACATT GTTTCATGACACACTCCACCATAATTTCCCATCTTTCAATTTTCTGTTATTGTGCTTTC CTTCCCATCCCCTCTGATGCTGAACCAATGCACCATCTGTAAGTTGCAGACAGTCTG AGTTTTTCTGCCATCAGCTGTGGTTTCTCAAACCTCTCTCCAGGGTACAAGAAAAGTCTG TGTTGTTTTCAAAGTGCTCTCAGTTTTTATGGTGAGGTTTTTACCATCACAAGTGATGAT ACAATCTGGCTTGGCCATTGCGCCATTTTTCGCAAAGCTATTCCCACTCCTAGCTCCTT CATGTATTCATCAAAGCCTTTGCTGTCCACCAGGCGCCATCTTCTTCCAGCTGTGAAC TGTGGCCATGGTGGTGCGGGCGGGTGGCGTGCANAGAGGGTCTGCGTCGGCGTGGCC CTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATTCTGACGGTTCAC TAAACGAGCTCTGCTTATATAGACCTCCCACCGTACACGCCTACCGNCCATTTGCGTCAC GGGGCGGGTTATTACGACATTNTNGAAAGTCCCGTTGATTTTGGTGCCAAAACAACACTC CCATTGACGTCAATGGGGTGGAGACTTGAAAATCCCCGTGAGTCAAACCTATTCACGC CCATTGGTGTCTGCCAAACCGCATCACCATGGAATAGCGATGACTAATCTANAGTCCTG CCAATAAGAAATCCGTAAGTCATGTCTGGCATAT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001444
<b>Insert Size:</b>	880 bp
<b>OTI Disclaimer:</b>	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).
<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>	<u><a href="#">NM_001444.1</a></u> , <u><a href="#">NP_001435.1</a></u>
<b>RefSeq Size:</b>	662 bp
<b>RefSeq ORF:</b>	408 bp
<b>Locus ID:</b>	2171
<b>UniProt ID:</b>	<u><a href="#">Q01469</a></u>
<b>Cytogenetics:</b>	8q21.13
<b>Domains:</b>	lipocalin

**Protein Pathways:** PPAR signaling pathway

**Gene Summary:** This gene encodes the fatty acid binding protein found in epidermal cells, and was first identified as being upregulated in psoriasis tissue. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. FABPs may play roles in fatty acid uptake, transport, and metabolism. Polymorphisms in this gene are associated with type 2 diabetes. The human genome contains many pseudogenes similar to this locus.[provided by RefSeq, Feb 2011]