

## Product datasheet for **MR227726**

### **Fabp5 (NM\_001272098) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fabp5 (NM\_001272098) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fabp5  
**Synonyms:** E-FABP; Fabpe; Kl; Klbp; ma; mal1; PA-FABP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR227726 representing NM\_001272098  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGCCAGTCTTAAGGATCTCGAAGGGAAGTGGCGCCTGATGGAAAGCCACGGCTTTGAGGAGTACATGA  
AAGAGCTAGACGGTCTGCACCTTCCAAGACGGTGCCTGGTCCAGCACCAGCAATGGGACGGGAAGGAGA  
GCACGATAACAAGAAACTGAAGGATGGGAAGATGATCGTGGAGTGTGCATGAACAATGCCACCTGCAC  
TCGGGTCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR227726 representing NM\_001272098  
Red=Cloning site Green=Tags(s)

MASLKDLEGKWRLMESHGFEEYMKELDGLHLPRRCPPAPAMGREGEHDNKKTEGWEDDRGVCHEQCHLH  
SGL

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001272098

**ORF Size:** 219 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.

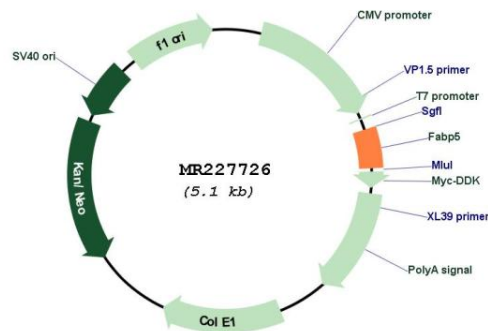
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_001272098.1](#), [NP\\_001259027.1](#)

RefSeq Size: 796 bp  
 RefSeq ORF: 222 bp  
 Locus ID: 16592  
 Cytogenetics: 3 A1  
 MW: 8.8 kDa

**Gene Summary:** The protein encoded by this gene is part of the fatty acid binding protein family (FABP). FABPs are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands and participate in fatty acid uptake, transport, and metabolism. In humans this gene has been associated with psoriasis and type 2 diabetes. In mouse deficiency of this gene in combination with a deficiency in Fabp4 confers protection against atherosclerosis, diet-induced obesity, insulin resistance and experimental autoimmune encephalomyelitis (the mouse model for multiple sclerosis). Alternative splicing results in multiple transcript variants that encode different protein isoforms. The mouse genome contains many pseudogenes similar to this locus. [provided by RefSeq, Jan 2013]

## Product images:



Circular map for MR227726