

Product datasheet for **MR228048**

Fabp5 (NM_001272097) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fabp5 (NM_001272097) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fabp5
Synonyms: E-FABP; Fabpe; Kl; Klbp; ma; mal1; PA-FABP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228048 representing NM_001272097
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGTCTTAAGGATCTCGAAGGGAAGTGGCGCTGATGAAAGCCACGGCTTTGAGGAGTACATGA
AAGAGCTAGGAGTAGGACTGGCTCTTAGGAAGATGGCTGCCATGGCCAAGCCAGACTGTATCATTACGTG
TGATGGCAACAACATCACGGTCAAACCGAGAGCACAGTGAAGACGACTGTGTTCTTTGTAACCTGGGA
GAGAAGTTTGATGAAACGACAGCTGATGGCAGAAAACTGAGACGGTCTGCACCTCCAAGACGGTGCC
TGGTCCAGCACCAGCAATGGGACGGGAAGGAGAGCACGATAACAAGAAAACTGAAGGATGGGAAGATGAT
CGTGTGTGTCATGAACAATGCCACCTGCACTCGGGTCTATGAGAAGGTGCAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228048 representing NM_001272097
Red=Cloning site Green=Tags(s)

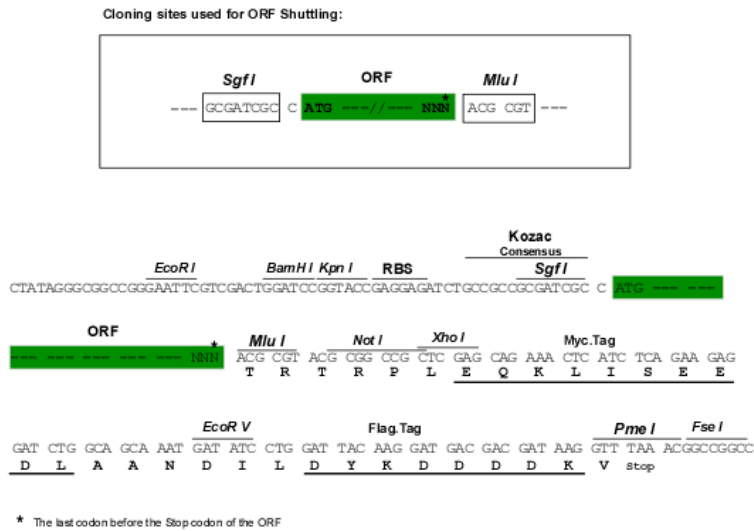
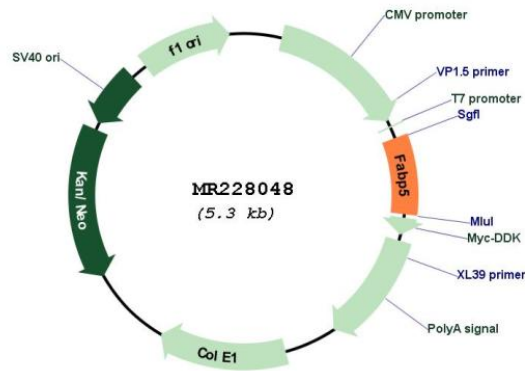
MASLKDLEGKWRLMESHGFEEYMKELGVGLALRKMAAMAKPDCIITCDGNNITVKTESTVKTTFVSCNLG
EKFDETTADGRKTETVCTFQDGALVQHQQWDGKESTITRKLKDGKMIVCVMNNATCTRVYEKVVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001272097

ORF Size: 402 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:	<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_001272097.1</u> , <u>NP_001259026.1</u>
RefSeq Size:	950 bp
RefSeq ORF:	405 bp
Locus ID:	16592
Cytogenetics:	3 A1
MW:	15.5 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]