OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC201973

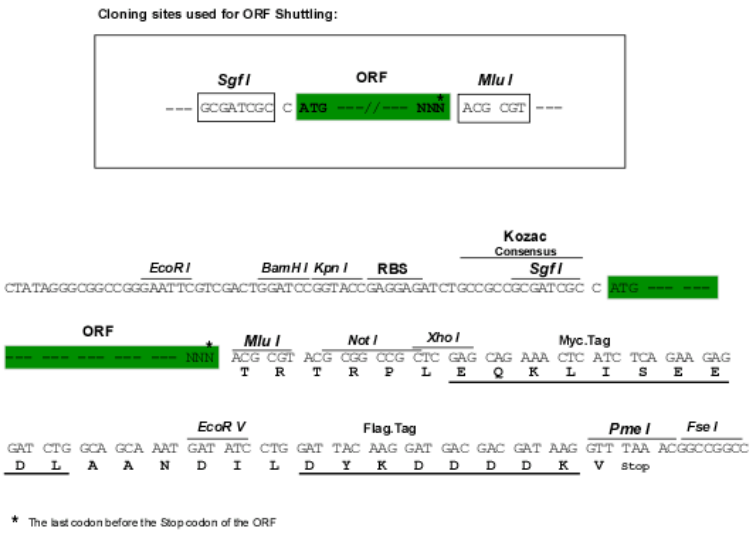
Fatty Acid Binding Protein 5 (FABP5) (NM_001444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fatty Acid Binding Protein 5 (FABP5) (NM_001444) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fatty Acid Binding Protein 5
Synonyms:	E-FABP; EFABP; KFABP; PA-FABP; PAFABP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201973 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCACAGTTCAGCAGCTGGAAGGAAGATGGCGCCTGGTGGACAGCAAAGGCTTTGATGAATACATGA AGGAGCTAGGAGTGGGAATAGCTTTGCGAAAAATGGGCGCAATGGCCAAGCCAGATTGTATCATCACTTG TGATGGTAAAAACCTCACCATAAAAACTGAGAGCACTTTGAAAACAACACAGTTTTCTTGTACCCTGGGA GAGAAGTTTGAAGAAACCACAGCTGATGGCAGAAAAACTCAGACTGTCTGCAACTTTACAGATGGTGCAT TGGTTCAGCATCAGGAGTGGGATGGGAAGGAAAGCACAATAACAAGAAAATTGAAAGATGGGAAATTAGT GGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATGAAAAAGTAGAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC201973 protein sequence Red=Cloning site Green=Tags(s) MATVQQLEGRWRLVDSKGFDEYMKELGVGIALRKMGAMAKPDCIITCDGKNLTIKTESTLKTTQFSCTLG EKFEETTADGRKTQTVCNFTDGALVQHQEWDGKESTITRKLKDGKLVVECVMNNVTCTRIYEKVE TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6011_b03.zip
Restriction Sites:	SgfI-MluI

View online »

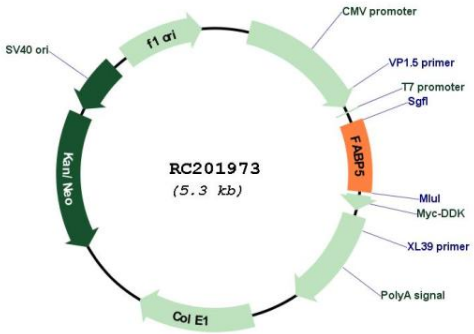
Cloning Scheme:



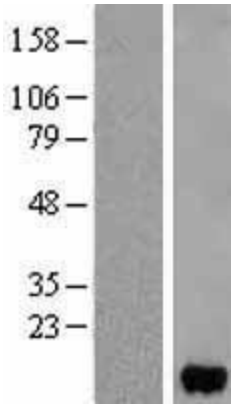
ACCN:	NM_001444
ORF Size:	405 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_001444.3
RefSeq Size:	751 bp
RefSeq ORF:	408 bp

Locus ID:	2171
UniProt ID:	Q01469
Cytogenetics:	8q21.13
Domains:	lipocalin
Protein Pathways:	PPAR signaling pathway
MW:	15.2 kDa
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]

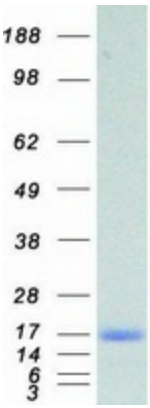
Product images:



Circular map for RC201973



Western blot validation of overexpression lysate (Cat# [LY400560]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201973 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FABP5 protein (Cat# [TP301973]). The protein was produced from HEK293T cells transfected with FABP5 cDNA clone (Cat# RC201973) using MegaTran 2.0 (Cat# [TT210002]).