

## Product datasheet for **RC217173**

### **FXR1 (NM\_005087) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FXR1 (NM_005087) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FXR1
Synonyms:	FXR1P; MYOPMIL; MYORIBF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC217173 representing NM\_005087  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAGCTGACGGTGGAGGTTTCGGCTCTAACGGGGCTTTCTACAAGGATTTATCAAAGATGTTCT  
 ATGAAGACTCCCTTACAGTTGTTTTGAAAATAATTGGCAACCAGAACGCCAGGTTCCATTTAATGAAGT  
 TAGATTACCACCACCACCTGATATAAAAAAAGAAATTAGTGAAGGAGATGAAGTAGAGGTATATCAAGA  
 GCAAAATGACCAAGAGCCATGTGGTGGTGGTTGGCTAAAGTTCGGATGATGAAAGGAGAATTTTATGTCA  
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 AAATAAACTGTCAAAAAAATACCTTCTTTAAATGCACAGTGGATGTTCTGAGGATTTGAGAGAGGCG  
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 AAACAACACAGCTAATGATACTGTCTGCCAGTGAAGCAACTGTGAAGAGAGTAAACATCTTAAGTGACAT  
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 TAGGAACACATGGTAGTAACATCCAGCAAGCTAGGAAGGTTCTGGAGTTACCGCCATTGAGCTAGATGA  
 AGATACTGGAACATTCAGAATCTACGGAGAGAGTCTGATGCTGTAAAAAGGCTAGAGGTTTCTTGAA  
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 TTCAAGAAATAGTGGACAAAATCTGGTGTGGTTCGAGTGAAGTTGAAGGGGACAATGAAAATAAATACC  
 CAGAGAAGACGGTATGGTTCCATTTGTATTTGTTGGCACTAAAGAAAGCATTGGAATGTGCAGGTTCTT  
 CTAGAGTATCATATTGCCTATCTAAAGGAAGTAGAACAGCTAAGAATGGAACGCCTACAGATTGATGAAC  
 AGCTGCGACAGATTGGTCTAGGCTTTATAGCGGAAGAGGCAGAGGTCGTGGGGACCTAATTACACCTC  
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 GAAGAGGCAGAAGTGTTCAGGGGGTCGAGGTCGTTGGTGGACCACGTGGTGGCAAATCTCCATCAGTTC  
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 ATGCTGTTCTGATGGATGGAATGACTGAATCTGATACAGCTTCAGTTAATGAAAATGGGCTAGTCACAGT  
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 AACAAAGAAAGAAATGGCAAAAGATGTGATTGAAGAGCATGGTCCCTCAGAAAAGGCAATAAACGGCCCAA  
 CTAGTGCTTCTGGCGATGACATTTCTAAGCTACAGCGTACTCCAGGAGAAGAAAAGATTAATACCTTAAA  
 AGAAGAAAACACTCAAGAAGCAGCAGTCTGAATGGTGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

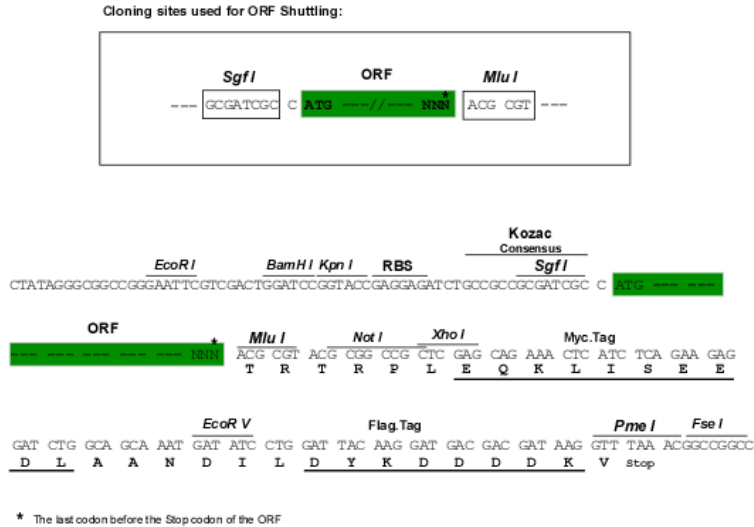
>RC217173 representing NM\_005087  
 Red=Cloning site Green=Tags(s)

MAELTVEVRGNSGAFYKGF IKDVHEDSLTVVFENNWQPERQVPFNEVRLPPPPDIKKEISEGDEVEVYSR  
 ANDQEPGWLLAKVRMMKGEFYVIEYAACDATYNEIVTFERLRPVNQNKTVKNTFFKCTVDVPEDLREA  
 CANENAHKDFKKAVGACRIFYHPETTQLMILSASEATVKRVNILDMLRSIRTKLMLMSRNEEATKHELE  
 CTKQLAAAFHEEFVVREDLMGLAIGTHGSNIQQARKVPGVTAIELDEDTGTFRIYGESADAVKKARGFLE  
 FVEDFIQVPRNLVGKVIKNGKVIQEI VDKSGVVRVRIEGDNENKLPREDGMVFPFVFGTKESIGNVQVL  
 LEYHIAIYLKEVEQLRMERLQIDEQLRQIGRSYSYGRGRRRPNYTSYGTNSLSNPSETESERKDELS  
 DWSLAGEDDRDSRHQRDSRRRPPGGRSVSGGRGRGGPRGKSSISSVLKDPDSNPYSLLDNTESDQTAD  
 TDASESHHSTNRRRRRRTDEDAVLMDGMTESDASVNEGLVTVADYISRAESQSRQRNLPRETLAK  
 NKKEMAKDVIEEHGPSEKAINGPTSASGDDISKLQRTPGEEKINTLKEENTQEAAVLNGVS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005087

**ORF Size:** 1863 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

RefSeq: [NM\\_005087.4](#)

RefSeq Size: 2774 bp

RefSeq ORF: 1866 bp

Locus ID: 8087

UniProt ID: [P51114](#)

Cytogenetics: 3q26.33

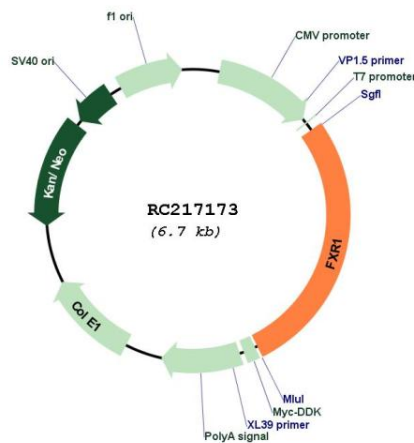
Domains: KH

Protein Families: Druggable Genome

MW: 69.5 kDa

**Gene Summary:** The protein encoded by this gene is an RNA binding protein that interacts with the functionally-similar proteins FMR1 and FXR2. These proteins shuttle between the nucleus and cytoplasm and associate with polyribosomes, predominantly with the 60S ribosomal subunit. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC217173