

Product datasheet for **RG221380**

FXR1 (NM_001013439) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FXR1 (NM_001013439) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FXR1
Synonyms:	FXR1P; MYOPMIL; MYORIBF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221380 representing NM_001013439
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGAAAGGAGAATTTTATGTCATTGAATATGCTGCTTGTGACGCTACTTACAATGAAATAGTCACAT
 TTGAACGACTTCGCGCTGTCAATCAAAATAAACTGTCAAAAAAATACCTCTTTAAATGCACAGTGGA
 TGTTCTGAGGATTTGAGAGAGCGTGTGCTAATGAAAATGCACATAAAGATTTTAAAGAAAGCAGTAGGA
 GCATGCAGAAATTTTACCATCCAGAAACAACACAGCTAATGATACTGTCTGCCAGTGAAGCAACTGTGA
 AGAGAGTAAACATCTTAAGTGACATGCATTTGCGAAGTATTCGTACGAAGTTGATGCTTATGTCCAGAAA
 TGAAGAGGCCACTAAGCATTTAGAATGCACAAAACAACACTGCAGCAGCTTTTCATGAGGAATTTGTTGTG
 AGAGAAGATTTAATGGCCCTGGCAATAGGAACACATGGTAGTAACATCCAGCAAGCTAGGAAGGTTCTGT
 GAGTTACCGCCATTGAGCTAGATGAAGATACTGGAACATTCAGAACTACGGAGAGAGTGTCTGATGCTGT
 AAAAAAGCTAGAGGTTTCTTGGATTTGTGGAGATTTATTACAGTTCTAGGAATCTCGTTGGAAAA
 GTAATTGGAAAAATGGCAAAGTTATTCAGAAAATAGTGGACAAAATCTGGTGTGGTTTCGAGTGAGAAATTG
 AAGGGGACAATGAAAATAAATTACCCAGAGAAGACGGTATGGTCCATTTGTATTTGTTGGCACTAAAGA
 AAGCATTGGAAATGTGCAGGTTCTTCTAGAGTATCATATTGCCTATCTAAAGGAAGTAGAACAGCTAAGA
 ATGGAACGCCTACAGATTGATGAACAGCTGCGACAGATTGGTTCTAGGTCTTATAGCGGAAGAGGCAGAG
 GTCGTGCGGGACCTAATTACACCTCCGGTTATGGTACAAATCTGAGCTGTCTAACCCCTCTGAAACGGA
 ATCTGAGCGTAAAGACGAGCTGAGTATTGGTCAATGGCAGGAGAAGATGATCGAGACAGCCGACATCAG
 CGTGACAGCAGGAGAGACCCAGGAGGAAGAGGCAGAAGTGTTCAGGGGGTCGAGGTCGTGGTGGACCAC
 GTGGTGGCAAATCCTCCATCAGTTCTGTCTCAAAGATCCAGACAGCAATCCATACAGCTTACTTGATAA
 TACAGAATCAGATCAGACTGCAGACACTGATGCCAGCAATCTCATCACAGTACTAACCCGTCGTAGGCGG
 TCTCGTAGACGAAGGACTGATGAAGATGCTGTTCTGATGGATGGAATGACTGAATCTGATACAGTTTCAG
 TTAATGAAAATGGGCTAGTCACAGTTGCAGATTATTTCTAGAGCTGAGTCTCAGAGCAGACAAAAGAAA
 CCTCCCAAGGGAACTTTGGCTAAAAACAAGAAAGAAATGGCAAAAGATGTGATTGAAGAGCATGGTCTCT
 TCAGAAAAGGCAATAAACGGCCCAACTAGTGCTTCTGGCGATGACATTTCTAAGCTACAGCGTACTCCAG
 GAGAAGAAAAGATTAATACCTTAAAAGAAGAAAACACTCAAGAAGCAGCAGTCTGAATGGTGTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221380 representing NM_001013439
 Red=Cloning site Green=Tags(s)

MMKGEFYVIEYAACDATYNEIVTFERLRPVNQNKTVKKNFFKCTVDVPEDLREACANENAHKDFKKAVG
 ACRIFYHPETTQLMILSASEATVKRVNILDMSHLRSIRTKLMLMSRNEEATKHLECTKQLAAAFHEEFV
 REDLMGLAIGTHGSNIQQARKVPGVTAIELDEDGTFRIFYGESADAVKKARGFLEFVEDFIQVPRNLVVK
 VIGKNGKVIQEIYDKSGVVRVRIEGDNENKLPREDGMVPFVFGTKESIGNVQVLLLEYHIAYLKEVEQLR
 MERLQIDEQLRQIGRSYSGRGRRRGNPYTSGYGTNSELSNPSETESERKDELSDWLAGEDDRDSRHQ
 RDSRRRPGRGRSVSGRGRGGPRGGKSSISSVLKDPDSNPYSLLDNTESDQADTADASESHSTNRRRR
 SRRRRRDEDAVLMDGMTESDTASVNEGLVTVADYISRAESQSRQRNLPRETLAKNKKEMAKDVIEEHGP
 SEKAINGPTSASGDDISKLRTPGEEKINTLKEENTQEA AVLNGVS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_001013439
ORF Size:	1608 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:	NM_001013439.3
RefSeq Size:	3118 bp
RefSeq ORF:	1611 bp
Locus ID:	8087
UniProt ID:	P51114
Cytogenetics:	3q26.33
Protein Families:	Druggable Genome
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]