

## Product datasheet for **MG209428**

### **Fmr1 (BC079671) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fmr1 (BC079671) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fmr1
Synonyms:	Fmr-1; FMRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209428 representing BC079671  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGAGCTGGTGGTGAAGTGC GGCTCCAATGGCGCTTCTACAAGGCATTTGTA AAAAGATGTCC  
 ATGAAGATTCTATAACAGTTGCTTTTGA AAACAACCTGGCAACCAGAGAGACAGATTCCATTCCATGATGT  
 GAGATTCCACCACCTGTAGGTTATAATAAAGATATAAACGAAAGTGATGAAGTTGAGGTTTATCCAGA  
 GCAAAATGAAAAGAGCCTTGCTGTTGGTGGTTAGCTAAAGTGAGGATGATAAAGGGTGAGTTTATGTGA  
 TAGAATATGCAGCATGTGATGCTACGTATAATGAAATTGTCACAATTGAGCGTCTACGATCTGTTAATCC  
 CAACAACTGCTACAAAAGATACTTTCCATAAGATCAAGCTGGAGGTGCCAGAAGATTTACGACAAATG  
 TGTGCCAAAGAATCAGCACATAAGGATTTTAAAAAGGCAGTTGGTGCCTTCTCTGTAACCTATGATCCAG  
 AAAATTATCAGCTGGTAATTTTGTCCATCAATGAAGTCACCTCAAAGCGAGCCACATGTTGATTGACAT  
 GCACTTTGCAAGTCTGCGACCAAGTTGTCTTATACTGAGAAATGAAGAAGCCAGTAAACAACCTGGAG  
 AGTTCAAGGCAGCTTGCCTCAAGATTTTCAAGACGTTTATCGTACGAGAAGATCTGATGGGTTTAGCTA  
 TTGGTACTCATGGTGTAAATTTAGCAAGCTAGAAAAGTGCCTGGCGTCACTGCTATTGATTTAGATGA  
 GGATACCTGCACATTTTATTTTATGGAGAGGATCAAGATGCAAGTGA AAAAGGCTAGAAGCTTTCTGGAA  
 TTTGCTGAAGATGTCATACAGGTTCCACGAACTTAGTAGGCAAAGTAAAGGAAAAATGGAAAGCTGA  
 TTCAAGAGATCGTGGACAAGTCAAGGTTGTGAGGGTGAGGATTGAGGCTGAAAATGAGAAAAGTGTCCC  
 ACAAGAAGAGGAAATTTAGTACAAAGGAAAACACCCATTTTCTCAACCTAACAGTACAAAAGTCCAGA  
 GAAGTGTAGTGGTTTTCATCAATTGTAGCAGGGGACCCAGAACCTGAACCCAAAGGCTTGGCAGGGTAT  
 GGTACCATTTGTTTTTGGGAACAAAAGACAGCATCGCTAATGCCACTGTTCTTTTGGATTATCACCTG  
 AACTATTTAAAGGAAGTAGACCAGTTGCGTTTGGAGAGATTACAATTGATGAGCAGTTGCGACAAATTG  
 GAGCTAGTTCTAGACCACCACCAATCGTACAGATAAGGAAAAAGGCTATGTGACTGATGATGGTCAAGG  
 AATGGGTGAGGAGTAGACCTTACAGAAATAGGGGACGCGCAGACGCGGTCTGGATATACTTCAGGA  
 ACTAATTCTGAAGCATCAAATGCTTCTGAAACAGAACTGACCACAGAGACGAACTCAGTATTGGTTCAT  
 TAGCTCCAACAGAGGAAGAGAGGGAGAGCTTCTGCGCAGAGGAGACGGACGGCGGCTGGAGGAGGAGG  
 AAGAGGACAAGGAGGAAGAGGAAGAGGAGGAGGCTTCAAAGGAAACGACGATCATTCCCAGACAGATAAT  
 CGTCCACGTAATCAAGAGAGGCTAAAGGAAGAACAGCTGATGGATCCCTGCAGAGTGCCTCCAGTGAAG  
 GGAGCCGGCTGCGCACGGGTAAGATCGTAACCCAGAAGAAGGAAAAGCCAGACAGCGTAGATGGGCTGCA  
 ACCGCTGGTGAATGGAGTACCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209428 representing BC079671  
 Red=Cloning site Green=Tags(s)

MEELVVEVRGNSGAFYKAFVKDVHEDSITVAFENNWQPERQIPFHDVRFPPPVGYNKDINESDEVEVYSR  
 ANEKEPCCWWLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRVSNPNKPATKDTFHKIKLEVPEDLRQM  
 CAKESAHKDFKAVGAFSVTYDPENYQLVILSINEVTSKRAHMLIDMHFRSLRKLKSLILRNEEASKQLE  
 SSRQLASRFHEQFIVREDLMGLAIGTHGANIQARKVPGVTAIDLDEDTCTFHIVGEDQDAVKKARSFLE  
 FAEDVIQVPRNLVGKVIKNGKLIQEIVDKSGVVRVRIEAENEKSVPQEEEIMPPSSLPSNNSRVGPNSS  
 EEKKHLDTKENTHFSQPNSTKVQRVLLVSSIVAGGPQKPEPKAWQGMVFPVFGTKDSIANATVLLDYHL  
 NYLKEVDQLRLERLQIDEQLRQIGASSRPPNRTDKEKGYVTDDQGMGRGSRPYRNRGHRRRGPYTSG  
 TNSEASNASETESDHRDELSDWSLAPTEEERESFLRRGDGRRRGGGRRGQGGRRGGGFKGNDHDSRTDN  
 RPRNPREAKGRTADGSLQSASSEGSRLRTGKDRNQKKEKPDSDVGLQPLVNGVP

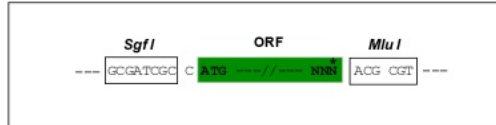
**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

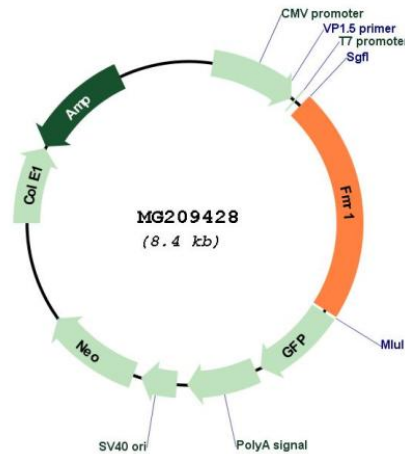
Sgfl-MluI

## Cloning Scheme:

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: BC079671  
 ORF Size: 1844 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC079671</a> , <a href="#">AAH79671</a>
<b>RefSeq Size:</b>	4412 bp
<b>RefSeq ORF:</b>	1844 bp
<b>Locus ID:</b>	14265
<b>Cytogenetics:</b>	X 34.83 cM