

Product datasheet for **RG231335**

FMRP (FMR1) (NM_001185076) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FMRP (FMR1) (NM_001185076) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | FMR1 |
| Synonyms: | FMRP; FRAXA; POF; POF1; POFX |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG231335 representing NM_001185076
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAGCTGGTGGTGAAGTGC GGCTCCAATGGCGCTTCTACAAGGCATTTGTAAGGATGTTCC
 ATGAAGATTCAATAACAGTTGCATTTGAAAACAACTGGCAGCCTGATAGGCAGATTCCATTTTCATGATGT
 CAGATTCACCTCCTGTAGGTTATAATAAGATATAAATGAAAGTGATGAAGTTGAGGTGATTCCAGA
 GCAATGAAAAAGAGCCTTGCTGTTGGTGGTTAGCTAAAGTGAGGATGATAAAGGGTGAGTTTTATGTGA
 TAGAATATGCAGCATGTGATGCAACTTACAATGAAATTGTACAATTGAACGTCTAAGATCTGTTAATCC
 CAACAACTGCCACAAAAGATACTTTCCATAAGATCAAGCTGGATGTGCCAGAAGACTACGGCAAATG
 TGTGCCAAAGAGGCGGCACATAAGGATTTAAAAAGGCAGTTGGTGCCTTTCTGTAACCTATGATCCAG
 AAAATTATCAGCTTGTCATTTTGTCCATCAATGAAGTCACTCAAAGCGAGCACATATGCTGATTGACAT
 GCACTTTTCGGAGTCTGCGCACTAAGTTGTCTCTGATAATGAGAAATGAAGAAGCTAGTAAGCAGCTGGAG
 AGTTCAAGGCAGCTTGCCTCGAGATTTTCATGAACAGTTTATCGTAAGAGAAGATCTGATGGGTCTAGCTA
 TTGGTACTCATGGTGCTAATATTCAGCAAGCTAGAAAAGTACCTGGGGTCACTGCTATTGATCTAGATGA
 AGATACCTGCACATTTTCATTTTATGGAGAGGATCAGGATGCAGTGAAAAAGCTAGAAGCTTTCTCGAA
 TTTGCTGAAGATGTAATACAAGTTCCAAGGAAGTCTAGTAGGCAAAGTAAAGGAAAAATGGAAAGCTGA
 TTCAGGAGATTGTGGACAAGTCAAGGAGTTGTGAGGGTGAAGGTTGAGGCTGAAAAATGAGAAAAATGTTCC
 ACAAGAAGAGGAAATATGCCACCAAATTCCTTCTTCCAATAATTCAAGGGTTGGACCTAATGCCCA
 GAAGAAAAAACATTTAGATATAAAGGAAAACAGCACCCATTTTCTCAACCTAACAGTACAAAAGTCC
 AGAGGGGTATGGTACCATTTGTTTTGTGGGAACAAAGGACAGCATCGCTAATGCCACTGTTCTTTTGG
 TTATCACCTGAACATTTTAAAGGAAGTAGACCAGTTGCGTTTGGAGAGATTACAAATTGATGAGCAGTTG
 CGACAGATTGGAGCTAGTTCTAGACCACCACAAATCGTACAGATAAGGAAAAAGCTATGTGACTGATG
 ATGGTCAAGGAATGGTTCGAGGTAGTAGACCTTACAGAAATAGGGGGCACGGCAGACGCGGTCTGGATA
 TACTTCAGGAACTAATTCTGAAGCATCAAATGCTTCTGAAACAGAATCTGACCACAGAGACGAACTCAGT
 GATTGGTCATTAGCTCCAACAGAGGAAGAGAGGGAGAGCTTCTGCGCAGAGGAGACGGACGGCGGCGTG
 GAGGGGGAGGAAGAGGACAAGGAGGAAGAGGACGTGGAGGAGGCTCAAAGGAAACGACGATCACTCCC
 AACAGATAATCGTCCACGTAATCCAAGAGAGGCTAAAGGAAGAACAACAGATGGATCCCTCAGATCAGA
 GTTGACTGCAATAATGAAAGGAGTGTCCACACTAAAACATTACAGAATACCTCCAGTGAAGGTAGTCGGC
 TCGCACGGGTAAAGATCGTAACCAAGAAGAGAAGCCAGACAGCGTGGATGGTCAGCAACCCTCGT
 GAATGGAGTACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG231335 representing NM_001185076
 Red=Cloning site Green=Tags(s)

MEELVVEVRGNSGAFYKAFVKDVHEDSITVAFENWQPDQRQIPFHDVRFPPPVGYNKDINESDEVEVYSR
 ANEKEPCCWWLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRVSNPNKPATKDTFHKIKLDVPEDLRQM
 CAKEAAHKDFKAVGAFSVTYDPENYQLVILSINEVTSKRAHMLIDMHFRSLRKLKSLIMRNEEASKQLE
 SSRQLASRFHEQFIVREDLMGLAIGTHGANIQARKVPGVTAIDLDEDTCTFHIVGEDQDAVKKARSFLE
 FAEDVIQVPRNLVGKVIKNGKLIQEIVDKSGVVRVRIEAENEKNVPQEEEIMPNSLPSNNSRVGPNAP
 EEKHLIDIKENSTHF SQPNSTKVQRGMVFPFVGTGKDSIANATVLLDYHLNLYLKEVDQLRLERLQIDEQL
 RQIGASSRPPNRTDKEKSYVTDDGQGMGRSRPYRNRGHGRRGPGYTSGTNSEASNASETSDHRELS
 DWSLAPTEEERESFLRRGDGRRRGGGGRGQGGRRGGGFKGNDDHSRTDNRPRNPREAKGRITDGSGLQIR
 VDCNNERSVHTKTLQNTSSEGSRLRTGKDRNQKKEKPDSDVGGQQPLVNGVP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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|-------------------------------|--|
| OTI Disclaimer: | <p>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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| OTI Annotation: | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p> |
| Components: | <p>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).</p> |
| 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: | <p>NM_001185076.1, NP_001172005.1</p> |
| RefSeq Size: | <p>4348 bp</p> |
| RefSeq ORF: | <p>1836 bp</p> |
| Locus ID: | <p>2332</p> |
| UniProt ID: | <p>Q06787</p> |
| Cytogenetics: | <p>Xq27.3</p> |
| Protein Families: | <p>Druggable Genome</p> |
| Gene Summary: | <p>The protein encoded by this gene binds RNA and is associated with polysomes. The encoded protein may be involved in mRNA trafficking from the nucleus to the cytoplasm. A trinucleotide repeat (CGG) in the 5' UTR is normally found at 6-53 copies, but an expansion to 55-230 repeats is the cause of fragile X syndrome. Expansion of the trinucleotide repeat may also cause one form of premature ovarian failure (POF1). Multiple alternatively spliced transcript variants that encode different protein isoforms and which are located in different cellular locations have been described for this gene. [provided by RefSeq, May 2010]</p> |