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# Product datasheet for RC222699L4V

## FMRP (FMR1) (NM_002024) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | FMRP (FMR1) (NM_002024) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | FMRP |
| **Synonyms:** | FMRP; FRAXA; POF; POF1; POFX |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-mGFP-P2A-Puro (PS100093) |
| **Tag:** | mGFP |
| **ACCN:** | NM_002024 |
| **ORF Size:** | 1896 bp |
| **ORF Nucleotide Sequence:** | `The ORF insert of this clone is exactly the same as(RC222699).` |
| **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. |
| **RefSeq:** | NM_002024.3 |
| **RefSeq Size:** | 4362 bp |
| **RefSeq ORF:** | 1899 bp |
| **Locus ID:** | 2332 |
| **UniProt ID:** | Q06787 |
| **Cytogenetics:** | Xq27.3 |
| **Domains:** | KH |
| **Protein Families:** | Druggable Genome |

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**MW:** 71 kDa

**Gene Summary:** 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]