

## Product datasheet for PH322699

### FMRP (FMR1) (NM\_002024) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	FMR1 MS Standard C13 and N15-labeled recombinant protein (NP_002015)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222699
Predicted MW:	71 kDa
Protein Sequence:	>RC222699 representing NM_002024 Red=Cloning site Green=Tags(s)

MEELVVEVRGNSGAFYKAFVKDVHEDSITVAFENNWQPDQRQIPFHDVRFPPVPGYNKDINESDEVEVYSR  
ANEKEPCCWLLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRVSNPNKPKATKDTFHKIKLDVPEDLRQM  
CAKEAAHKDFKKAVGAFSVTYDPENYQLVILSINEVTSKRAHMLIDMHFRSLRKLKSLIMRNEEASKQLE  
SSRQLASRFHEQFIVREDLMGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIIYGEDQDAVKKARSFLE  
FAEDVIQVPRNLVGKVIKNGKLIQEIVDKSGVVRVRIEAENEKNVPQEEEIMPNSLPSNNSRVGPNAP  
EEKKHLDIKENSTHFSQPNSTKVQRVLLVASSVAGESQKPELKAQGMVFPFVFGTKDSIANATVLLDYH  
LNYLKEVDQLRLERLQIDEQLRQIGASSRPPNRTDKEKSYVTDGQGMGRSRPYRNRGHGRRRGPYTS  
GTNSEASNASETESDHRDELSDWSLAPTEEERESFLRRGDGRRRGGGGGGQGGRRGGGFKGNDHHSRTD  
NRPRNPREAKGRTTDGSLQIRVDCNNERSVHTKTLQNTSSEGSRLRTGKDRNQKKEKPDSDVGGQPLVNG  
VP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_002015</a></u>
RefSeq Size:	4362



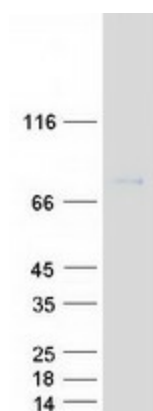
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RefSeq ORF:	1896
Synonyms:	FMRP; FRAXA; POF; POF1; POFX
Locus ID:	2332
UniProt ID:	<a href="#">Q06787</a>
Cytogenetics:	Xq27.3

**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]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified FMR1 protein (Cat# [TP322699]). The protein was produced from HEK293T cells transfected with FMR1 cDNA clone (Cat# [RC222699]) using MegaTran 2.0 (Cat# [TT210002]).