

Recombinant Human FMR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FMR1-4354H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FMR1 MS Standard C13 and N15-labeled recombinant protein (NP_002015) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	71 kDa
AA Sequence	MEELVVEVRGSGNGAFYKAFVKDVHEDSITVAFENNWQPDRQIPFHDVRFPPVGYN KDINESDEVEVYSRANEKEPCCWWLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRS VNPKNPATKDTFHKIKLDVPEDLRQMCAKEAAHKDFKKAVGAFSVTYDPENYQLVIL SINEVTSKRAHMLIDMHFRSLRCLKSLIMRNEEASKQLESSRQLASRFHEQFIVREDL MGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIYGEDQDAVKKARSFLEFAEDVIQ

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VPRNLVGKVGKNGKLIQEIVDKSGVVRVRIEAENEKNVPQEEEIMPPNSLPSNNSRV
 GPNAPEEKKHLDIKENSTHFSQPNSTKVQRVLVASSVVAGESQKPELKAWQGMVPF
 VFVGTKDSIANATVLLDYHLNLYLKEVDQLRLRLQIDEQLRQIGASSRPPPNRTDKEK
 SYVTDDGQGMGRGSRPYRNRGHGRRGPGYTSNTSEASNASETESDHRDELS
 WSLAPTEEERESFLRRGDGRRRGGGGRGQGGRGRGGGFKGNDDHSRTDNRPRN
 PREAKGRTTDGSLQIRVDCNNERSVHTKTLQNTSSEGSRLRTGKDRNQKKEKPDSV
 DGQQPLVNGVPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name FMR1 fragile X mental retardation 1 [Homo sapiens (human)]

Official Symbol FMR1

Synonyms FMR1; fragile X mental retardation 1; POF, POF1, premature ovarian failure 1; fragile X mental retardation protein 1; FMRP; FRAXA; MGC87458; protein FMR-1; fragile X mental retardation 1 protein; POF; POF1;

Gene ID 2332

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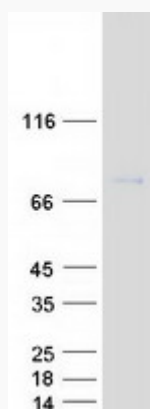
mRNA Refseq [NM_002024](#)

Protein Refseq [NP_002015](#)

MIM [309550](#)

UniProt ID [Q06787](#)

SDS-PAGE



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