

Recombinant Human FMR1

Cat. No. FMR1-27458TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human FMRP with N terminal proprietary tag, 36.63kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
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 Weight	36.630kDa inclusive of tags
Tissue specificity	Highest levels found in neurons, brain, testis, placenta and lymphocytes. Also expressed in epithelial tissues and at very low levels in glial cells.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ATKDTFHKIKLDVPEDLRQMCAKEAAHKDFKKAVGAFSVTYDPENYQLVILSINEVTS KRAHMLIDMHFRSLR TKLSLIMRNEEASKQLESSRQLASRFH
Sequence Similarities	Belongs to the FMR1 family. Contains 2 KH domains.

GENE INFORMATION

Gene Name	FMR1 fragile X mental retardation 1 [Homo sapiens]
Official Symbol	FMR1
Synonyms	FMR1; fragile X mental retardation 1; POF, POF1, premature ovarian failure 1; fragile X mental retardation 1 protein; FMRP; FRAXA; MGC87458;
Gene ID	2332
mRNA Refseq	NM_001185075
Protein Refseq	NP_001172004
MIM	309550
Uniprot ID	Q06787

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Chromosome Location	Xq27.3
Pathway	RNA transport, organism-specific biosystem; RNA transport, conserved biosystem;
Function	RNA binding; RNA binding; mRNA binding; protein binding;

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