

# Recombinant Full Length Human FMR1 Protein, GST-tagged

**Cat. No.** FMR1-4996HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Human FMR1 full-length ORF ( AAH38998.1, 1 a.a. - 297 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 297 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | 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). [provided by RefSeq] |
| <b>Molecular Mass</b>   | 58.41 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | MEELVVEVRGSGNGAFYKAFVKDVHEDSITVAFENNWQPDRQIPFHDVRFPPVGYN<br>KDINESDEVEVYSRANEKEPCCWWLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRS<br>VNPKNPATKDTFHKIKLDVPEDLRQMCAKEAAHKDFKKAVGAFSVTYDPENYQLVIL<br>SINEVTSKRAHMLIDMHFRSLRTKLSLIMRNEEASKQLESSRQLASRFHEQFIVREDL<br>MGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIYGEDQDAVKKARSFLEFAEDVIQ<br>VPRNLVGLKI                                                                                                                       |

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                              |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                         |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                       |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                       |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                |
| <b>Gene Name</b>        | FMR1 fragile X mental retardation 1 [ Homo sapiens ]                                                                                                                                                           |
| <b>Official Symbol</b>  | FMR1                                                                                                                                                                                                           |
| <b>Synonyms</b>         | 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; |
| <b>Gene ID</b>          | 2332                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>      | NM_001185075                                                                                                                                                                                                   |
| <b>Protein Refseq</b>   | NP_001172004                                                                                                                                                                                                   |
| <b>MIM</b>              | 309550                                                                                                                                                                                                         |
| <b>UniProt ID</b>       | Q06787                                                                                                                                                                                                         |

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