

## Recombinant Human FMR1, GST-tagged

**Cat. No.** FMR1-12948H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human FMR1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 1-297a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>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.</p> |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

### GENE INFORMATION

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|                            |                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | Xq27.3                                                                                                                                                                                                         |
| <b>Pathway</b>             | RNA transport, organism-specific biosystem; RNA transport, conserved biosystem;                                                                                                                                |
| <b>Function</b>            | RNA binding; RNA binding; mRNA binding; protein binding;                                                                                                                                                       |

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