

# Recombinant Full Length Human MRE11A Protein, GST-tagged

**Cat. No.** MRE11A-6354HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human MRE11A full-length ORF ( AAH05241, 1 a.a. - 206 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>	206 amino acids
<b>Description</b>	<p>This gene encodes a nuclear protein involved in homologous recombination, telomere length maintenance, and DNA double-strand break repair. By itself, the protein has 3 to 5 exonuclease activity and endonuclease activity. The protein forms a complex with the RAD50 homolog; this complex is required for nonhomologous joining of DNA ends and possesses increased single-stranded DNA endonuclease and 3 to 5 exonuclease activities. In conjunction with a DNA ligase, this protein promotes the joining of noncomplementary ends in vitro using short homologies near the ends of the DNA fragments. This gene has a pseudogene on chromosome 3. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq]</p>
<b>Molecular Mass</b>	48.4 kDa
<b>AA Sequence</b>	<p>MSTADALDDENTFKILVATDIHLGFMEKDAVRGNDTFVTLDEILRLAQENEVDFILLG            GDLFHENKPSRRTLHTCLELLRKYCMGDRPVQFEILSDQSVNFGFSKFPWVNYQDG            NLNISIPVFSIHGNHDDPTGADALCALDILSCAGFVNHFGRSMSVEKIDISPVLLQKGR</p>

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TKIALYGLGSIPDERLYRMFVNKKVTMLRPKED

**Applications**

Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name**

[MRE11A](#) [MRE11](#) [meiotic recombination 11 homolog A \(S. cerevisiae\)](#) [ Homo sapiens ]

**Official Symbol**

[MRE11A](#)

**Synonyms**

[MRE11A](#); [MRE11](#) [meiotic recombination 11 homolog A \(S. cerevisiae\)](#); [meiotic recombination \(S. cerevisiae\) 11 homolog A](#) , [MRE11](#); [double-strand break repair protein MRE11A](#); [AT like disease](#); [ATLD](#); [AT-like disease](#); [MRE11 homolog 1](#); [MRE11 homolog A](#); [endo/exonuclease Mre11](#); [meiotic recombination 11 homolog 1](#); [meiotic recombination 11 homolog A](#); [DNA recombination and repair protein](#); [HNGS1](#); [MRE11](#); [MRE11B](#);

**Gene ID**

[4361](#)

**mRNA Refseq**

[NM\\_005590](#)

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**Protein Refseq** NP\_005581

**MIM** 600814

**UniProt ID** P49959

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