

## Product datasheet for RC209414L1V

## OriGene Technologies, Inc.

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## MRE11A (MRE11) (NM 005591) Human Tagged ORF Clone Lentiviral Particle

**Product data:** 

**Product Type:** Lentiviral Particles

**Product Name:** MRE11A (MRE11) (NM\_005591) Human Tagged ORF Clone Lentiviral Particle

Symbol: MRE11

Synonyms: ATLD; HNGS1; MRE11A; MRE11B

**Mammalian Cell** 

Selection:

None

**Vector:** pLenti-C-Myc-DDK (PS100064)

 Tag:
 Myc-DDK

 ACCN:
 NM\_005591

 ORF Size:
 2124 bp

**ORF Nucleotide** 

OTI Disclaimer:

212100

Sequence:

The ORF insert of this clone is exactly the same as(RC209414).

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**RefSeg:** NM 005591.3

RefSeq Size: 5141 bp
RefSeq ORF: 2127 bp
Locus ID: 4361
UniProt ID: P49959
Cytogenetics: 11q21

**Domains:** Metallophos, Mre11\_DNA\_bind

**Protein Families:** Druggable Genome, Stem cell - Pluripotency





## MRE11A (MRE11) (NM\_005591) Human Tagged ORF Clone Lentiviral Particle - RC209414L1V

Protein Pathways: Homologous recombination, Non-homologous end-joining

**MW:** 80.6 kDa

Gene Summary: 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, Jul 2008]