

Product datasheet for RC211751L2V

OriGene Technologies, Inc.

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RAD50 (NM_005732) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: RAD50 (NM_005732) Human Tagged ORF Clone Lentiviral Particle

Symbol: RAD50

Synonyms: hRad50; NBSLD; RAD502

Mammalian Cell

Selection:

None

Vector: pLenti-C-mGFP (PS100071)

Tag: mGFP

ACCN: NM_005732 **ORF Size:** 3936 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC211751).

Sequence:

OTI Disclaimer: 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 005732.3

 RefSeq Size:
 6597 bp

 RefSeq ORF:
 3939 bp

 Locus ID:
 10111

 UniProt ID:
 Q92878

 Cytogenetics:
 5q31.1

Domains: Rad50_zn_hook

Protein Families: Druggable Genome





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

MW: 154.3 kDa

Gene Summary: The protein encoded by this gene is highly similar to Saccharomyces cerevisiae Rad50, a

protein involved in DNA double-strand break repair. This protein forms a complex with MRE11 and NBS1. The protein complex binds to DNA and displays numerous enzymatic activities that are required for nonhomologous joining of DNA ends. This protein, cooperating with its partners, is important for DNA double-strand break repair, cell cycle checkpoint activation, telomere maintenance, and meiotic recombination. Knockout studies of the mouse homolog suggest this gene is essential for cell growth and viability. Mutations in this gene are the cause of Nijmegen breakage syndrome-like disorder.[provided by RefSeq, Apr

2010]