

Product datasheet for RC220046L1

OriGene Technologies, Inc.

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RAD54 (RAD54L) (NM_003579) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: RAD54 (RAD54L) (NM_003579) Human Tagged Lenti ORF Clone

Tag: Myc-DDK Symbol: RAD54

Synonyms: hHR54; HR54; hRAD54; RAD54A

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC220046).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_003579

ORF Size: 2241 bp





RAD54 (RAD54L) (NM_003579) Human Tagged Lenti ORF Clone - RC220046L1

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.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 003579.2</u>

 RefSeq Size:
 3164 bp

 RefSeq ORF:
 2244 bp

 Locus ID:
 8438

 UniProt ID:
 092698

Cytogenetics: 1p34.1

Domains: SNF2 N, DEAD, helicase C

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Homologous recombination

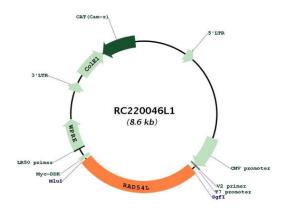
MW: 84.4 kDa

Gene Summary: The protein encoded by this gene belongs to the DEAD-like helicase superfamily, and shares

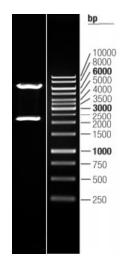
similarity with Saccharomyces cerevisiae Rad54, a protein known to be involved in the homologous recombination and repair of DNA. This protein has been shown to play a role in homologous recombination related repair of DNA double-strand breaks. The binding of this protein to double-strand DNA induces a DNA topological change, which is thought to facilitate homologous DNA paring, and stimulate DNA recombination. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Dec 2008]



Product images:



Circular map for RC220046L1



Double digestion of RC220046L1 using Sgfl-Mlul