

## Product datasheet for **RC220046L2V**

### **RAD54 (RAD54L) (NM\_003579) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | RAD54 (RAD54L) (NM_003579) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | RAD54  |
| Synonyms:                 | hHR54; HR54; hRAD54; RAD54A  |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-mGFP (PS100071)   |
| Tag:                      | mGFP   |
| ACCN:                     | NM_003579  |
| ORF Size:                 | 2241 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC220046).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_003579.2</a>  |
| RefSeq Size:              | 3164 bp  |
| RefSeq ORF:               | 2244 bp  |
| Locus ID:                 | 8438   |
| UniProt ID:               | <a href="#">Q92698</a>   |
| Cytogenetics:             | 1p34.1   |
| Domains:                  | SNF2_N, DEAD, helicase_C   |
| Protein Families:         | Druggable Genome, Stem cell - Pluripotency   |



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**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 pairing, and stimulate DNA recombination. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, Dec 2008]