

## **Product datasheet for SC334615**

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## RAD52 (NM 001297420) Human Untagged Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** RAD52 (NM\_001297420) Human Untagged Clone

Tag:Tag FreeSymbol:RAD52

Mammalian Cell Neomycin

Selection:

E. coli Selection:

Vector:

pCMV6-Entry (PS100001)

Fully Sequenced ORF: >NCBI ORF sequence for NM\_001297420, the custom clone sequence may differ by one or

more nucleotides

Kanamycin (25 ug/mL)

TGCACTTGGAAACTGTATTCTGGACAAAGACTACCTGAGATCACTAAATAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001297420

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a

point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative

RNA splicing form or single nucleotide polymorphism (SNP).

**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 001297420.1</u>, <u>NP 001284349.1</u>

 RefSeq Size:
 712 bp

 RefSeq ORF:
 681 bp

 Locus ID:
 5893

 UniProt ID:
 P43351

 Cytogenetics:
 12p13.33

**Protein Families:** Druggable Genome

**Protein Pathways:** Homologous recombination

**Gene Summary:** The protein encoded by this gene shares similarity with Saccharomyces cerevisiae Rad52, a

protein important for DNA double-strand break repair and homologous recombination. This gene product was shown to bind single-stranded DNA ends, and mediate the DNA-DNA interaction necessary for the annealing of complementary DNA strands. It was also found to interact with DNA recombination protein RAD51, which suggested its role in RAD51 related DNA recombination and repair. A pseudogene of this gene is present on chromosome 2. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.

[provided by RefSeq, Jul 2014]

Transcript Variant: This variant (3) lacks several coding exons, and contains an alternate exon in the coding region, resulting in a novel 3' coding region and 3' UTR compared to variant 1. The encoded isoform (b, also known as beta) has a distinct C-terminus and is shorter than

isoform a.