

Product datasheet for **SC329794**

RAD54B (NM_001205262) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: RAD54B (NM_001205262) Human Untagged Clone
Tag: Tag Free
Symbol: RAD54B
Synonyms: RDH54
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329794 representing NM_001205262.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGAGACGATCTGCAGCACCAAGTCAGTTGCAGGGGAATTCCTTCAAAAACCAAAATTTATACCTCCA
GGAAGAAGTAATCCAGGTCTGAATGAAGAGATTACAAACTGAATCCAGATATAAAATTATTTGAGGGT
GTTGCAATTAATAACACCTTTCTCCGTCACAAATGATCTTAGAATATGCAGTTAAATCTGCCTAGT
GAAGAAAGTACTAGAGAAATCAATAACAGAGATAATTGCAGTGGAAAATATTGTTTTGAAGCACCTACA
CTGGCAACATTAGATCCACCTCATACAGTGCAAATCTGGATGAGGAGGCACAGGCTGGTACCAGTTCAC
TACAGGTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001205262
Insert Size: 354 bp
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.



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RefSeq: [NM_001205262.2](#)

RefSeq Size: 5380 bp

RefSeq ORF: 354 bp

Locus ID: 25788

UniProt ID: [O95073](#)

Cytogenetics: 8q22.1

Protein Families: Druggable Genome

Protein Pathways: Homologous recombination

MW: 13.3 kDa

Gene Summary: The protein encoded by this gene belongs to the DEAD-like helicase superfamily. It shares similarity with *Saccharomyces cerevisiae* RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary lymphoma and colon cancer. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks several coding exons and uses an alternate 3' terminal exon, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.