

## Product datasheet for **TP322194L**

### **RAD52 (NM\_134424) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human RAD52 homolog ( <i>S. cerevisiae</i> ) (RAD52), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC222194 representing NM_134424 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSGTEEAILGGRDSPAAGGGSVLCFGQCQYTAEEYQAIQKALRQRLGPEYISSRMAGGGQKVCYIEGHR  
VINLANEMFGYNGWAHSITQQNVDFVDLNNKGFYVGVCAFVRVQLKDGSYHEDVGYGVSEGLKSKALSLE  
KARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLEVDLTKAKRQDLEPSVEEARYNSCRP  
NMALGHPQLQQVTSPSRPSHAVIPADQDCSSRSLSSSAVESEATHQRKLRQKQLQQQFRERMEKQQVRVS  
TPSAEKSEAAPPAPPVTHSTPVTVSEPLLEKDFLAGVTQELIKTLEDNSEKWAVTPDAGDGVVKPSSRAD  
PAQTSDTLALNNQMVTQNRTPHSVCHQKPQAKSGSWDLQTYADQRTTGNWESHRSQDMKKRKYDPS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	46 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_602296</a>
Locus ID:	5893



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UniProt ID: [P43351](#), [Q5DR82](#)

RefSeq Size: 2673

Cytogenetics: 12p13.33

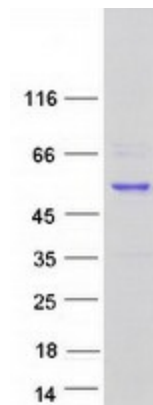
RefSeq ORF: 1254

**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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Homologous recombination

### Product images:



Coomassie blue staining of purified RAD52 protein (Cat# [TP322194]). The protein was produced from HEK293T cells transfected with RAD52 cDNA clone (Cat# [RC222194]) using MegaTran 2.0 (Cat# [TT210002]).