

## Product datasheet for **TP312684**

### **XRCC4 (NM\_003401) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), transcript variant 1, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC212684 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MERKISRIHLVSEPSITHFLQVSWEKTLESGFVITLTDGHSAWTGTVSESEISQEADDMAMEKKGKYVGEL  
RKALLSGAGPADVYTFNFSKESCYFFFEKLNKDVSRFGSFLNLEKVENPAEVIRELICVCLDTIAENQAK  
NEHLQKENERLLRDWQGRFEKCVSAKEALETDLTKRFLVNEKKTIRSLHNKLLNAAQEREKDIK  
QEGETAICSEMTADRPVYDESTDEESENQTDLSGLASAAVSKDDSISSLDVTDIAPSRKRRQRMQRNL  
GTEPKMAPQENQLQEKENSRPDSSLPETSKKEHISAENMSLETLRNSSPEDLFDEI

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	37.9 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_003392</a>
<b>Locus ID:</b>	7518



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UniProt ID: [Q13426](#), [A0A024RAL0](#), [Q7Z763](#)

RefSeq Size: 1688

Cytogenetics: 5q14.2

RefSeq ORF: 1008

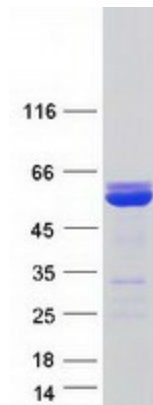
Synonyms: SSMED

**Summary:** The protein encoded by this gene functions together with DNA ligase IV and the DNA-dependent protein kinase in the repair of DNA double-strand breaks. This protein plays a role in both non-homologous end joining and the completion of V(D)J recombination. Mutations in this gene can cause short stature, microcephaly, and endocrine dysfunction (SSMED). Alternate transcript variants such as NM\_022406 are unlikely to be expressed in some individuals due to a polymorphism (rs1805377) in the last splice acceptor site. [provided by RefSeq, Oct 2019]

**Protein Families:** Druggable Genome

**Protein Pathways:** Non-homologous end-joining

### Product images:



Coomassie blue staining of purified XRCC4 protein (Cat# TP312684). The protein was produced from HEK293T cells transfected with XRCC4 cDNA clone (Cat# [RC212684]) using MegaTran 2.0 (Cat# [TT210002]).