

Product datasheet for **TP507518**

Terf2 (NM_001083118) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse telomeric repeat binding factor 2 (Terf2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207518 representing NM_001083118 Red =Cloning site Green =Tags(s) MAAGAGTAGPASGPGWVRDPMASQPRKRPSREGGEGEGERRSNTMAGGGGSSDSSGRAASRRASRSGGR ARRGRHEPGLGGAERGAGEARLEEAVNRWVLKFYFHEALRAFRSSRYRDFRQIRDIMQALLVRPLGKEH TVSRLLRVMQCLSRIEEGENLDCSFDMEAELTPLESAINVLEMIKTEFTLTDSMVESSRKLVEAAVIIC IKNKEFEKASKILKKYMSKDPTTQKLRTDLLNIIREKNLAHPVIQNFSEYVFQQKMLRFLESHLDDTEPY LLTMAKKALKSESAASSTMREEKHPEPVEKPLREPPSRQPQNPPATIGIRTLKAAFALSTAQDSEAAFA KLDQKDLVLANLSPSSPAHKHKRPRKDEHESAAPAEEGGSDRQPRNSPMTISRLLEEDSQSTEPSPG LNSSHKAMSASKPRALNQPHPGEEKPKYEDLLCRSLGAGWRAWLGLVLLP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	52.3 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
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 after receiving vials.
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:	NP_001076587
Locus ID:	21750



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UniProt ID: [Q35144](#)

RefSeq Size: 2477

Cytogenetics: 8 53.59 cM

RefSeq ORF: 1410

Synonyms: TRF2

Summary: Binds the telomeric double-stranded 5'-TTAGGG-3' repeat and plays a central role in telomere maintenance and protection against end-to-end fusion of chromosomes. In addition to its telomeric DNA-binding role, required to recruit a number of factors and enzymes required for telomere protection, including the shelterin complex, TERF2IP/RAP1 and DCLRE1B/Apollo. Component of the shelterin complex (telosome) that is involved in the regulation of telomere length and protection. Shelterin associates with arrays of double-stranded 5'-TTAGGG-3' repeats added by telomerase and protects chromosome ends; without its protective activity, telomeres are no longer hidden from the DNA damage surveillance and chromosome ends are inappropriately processed by DNA repair pathways. Together with DCLRE1B/Apollo, plays a key role in telomeric loop (T loop) formation by generating 3' single-stranded overhang at the leading end telomeres: T loops have been proposed to protect chromosome ends from degradation and repair. Required both to recruit DCLRE1B/Apollo to telomeres and activate the exonuclease activity of DCLRE1B/Apollo. Preferentially binds to positive supercoiled DNA. Together with DCLRE1B/Apollo, required to control the amount of DNA topoisomerase (TOP1, TOP2A and TOP2B) needed for telomere replication during fork passage and prevent aberrant telomere topology. Recruits TERF2IP/RAP1 to telomeres, thereby participating in to repressing homology-directed repair (HDR), which can affect telomere length.[UniProtKB/Swiss-Prot Function]