

Product datasheet for **TP301785**

FEN1 (NM_004111) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human flap structure-specific endonuclease 1 (FEN1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201785 protein sequence Red =Cloning site Green =Tags(s)
	MGIQGLAKLIADVAPSAIRENDIKSYFGRKVAIDASMSIQFLIAVRQGGDVLQNEEGETTSHLMGMFYR TIRMMENGIKPVYVFDGKPPQLKSGELAKRSERRAEAEKQLQQAQAAGAEQEVEKFTKRLVKVTKQHND CKHLLSLMGIPYLDAPSEAEASCAALVKAGKVYAAATEDMDCLTFGSPVLMRHLTASEAKKLPIQEFHLS RILQELGLNQEQFV DLCILLGSDYCESIRGIGPKRAVDLIQKHKSIEEIVRRLLDPNKYPVPENWLHKEAH QLFLEPEVLDPEVELKWSEPNEEELIKFMCGEKQFSEERIRSGVKRLSKSRQGSGTQGRLLDDFFKVTGSL SSAKRKEPEPKGSTKKKAKTGAAGKFKRGK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	42.4 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:	<u>NP_004102</u>
Locus ID:	2237


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UniProt ID: [P39748](#)

RefSeq Size: 2308

Cytogenetics: 11q12.2

RefSeq ORF: 1140

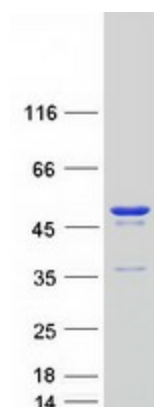
Synonyms: FEN-1; MF1; RAD2

Summary: The protein encoded by this gene removes 5' overhanging flaps in DNA repair and processes the 5' ends of Okazaki fragments in lagging strand DNA synthesis. Direct physical interaction between this protein and AP endonuclease 1 during long-patch base excision repair provides coordinated loading of the proteins onto the substrate, thus passing the substrate from one enzyme to another. The protein is a member of the XPG/RAD2 endonuclease family and is one of ten proteins essential for cell-free DNA replication. DNA secondary structure can inhibit flap processing at certain trinucleotide repeats in a length-dependent manner by concealing the 5' end of the flap that is necessary for both binding and cleavage by the protein encoded by this gene. Therefore, secondary structure can deter the protective function of this protein, leading to site-specific trinucleotide expansions. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Base excision repair, DNA replication, Non-homologous end-joining

Product images:



Coomassie blue staining of purified FEN1 protein (Cat# TP301785). The protein was produced from HEK293T cells transfected with FEN1 cDNA clone (Cat# [RC201785]) using MegaTran 2.0 (Cat# [TT210002]).