

## Product datasheet for TP300913M

### NEIL2 (NM\_145043) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human nei like 2 (E. coli) (NEIL2), transcript variant 1, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200913 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MPEGPLVRKFHHLVSPFVGQQVVKTTGGSSKLLQPASLQSLWLQDTQVHGKFLFRFDLDEEMGPPGSSPT  
PEPPQKEVQKEGAADPKQVGEPGQKTLDGSSRSAELVPQGEDDSEYLERDAPAGDAGRWLRVSFGLFGS  
VWVNDFSRAKKANKRGDWRDPSRLVLHFGGGGFLAFYNCQLSWSSSPVVTPTCDILSEKFHRGQALEAL  
GQAQPVCYTLLDQRYFSGLGNIIKNEALYRAGIHPLSLGSVLSASRREVLVDHVVEFSTAWLQGKFQGRP  
QHTQVYQKEQCPAGHQVMKEAFGPEDGLQRLTWWCPQCQPQLSEEPEQCQFS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	36.6 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><a href="#">NP_659480</a></u>
Locus ID:	252969



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UniProt ID: [Q969S2](#), [A0A024R361](#)

RefSeq Size: 2746

Cytogenetics: 8p23.1

RefSeq ORF: 996

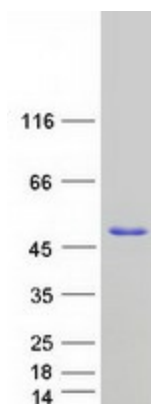
Synonyms: NEH2; NEI2

**Summary:** This gene encodes a member of the Fpg/Nei family of DNA glycosylases. These glycosylases initiate the first step in base excision repair by cleaving oxidatively damaged bases and introducing a DNA strand break via their abasic site lyase activity. This enzyme is primarily associated with DNA repair during transcription and acts preferentially on cytosine-derived lesions, particularly 5-hydroxyuracil and 5-hydroxycytosine. It contains an N-terminal catalytic domain, a hinge region, and a C-terminal DNA-binding domain with helix-two-turn-helix and zinc finger motifs. This enzyme interacts with the X-ray cross complementing factor 1 scaffold protein as part of a multi-protein DNA repair complex. A pseudogene of this gene has been identified. [provided by RefSeq, Mar 2017]

**Protein Families:** Druggable Genome

**Protein Pathways:** Base excision repair

### Product images:



Coomassie blue staining of purified NEIL2 protein (Cat# [TP300913]). The protein was produced from HEK293T cells transfected with NEIL2 cDNA clone (Cat# [RC200913]) using MegaTran 2.0 (Cat# [TT210002]).