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# Product datasheet for TP520912

## Neil2 (NM_201610) Mouse Recombinant Protein

### Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | Purified recombinant protein of Mouse nei like 2 (E. coli) (Neil2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| **Species:** | Mouse |
| **Expression Host:** | HEK293T |
| **Expression cDNA Clone or AA Sequence:** | >MR220912 representing NM_201610<br>Red=Cloning site Green=Tags(s)<br><br>MPEGPSVRKFHHLVSPFVGQKVVKTGGSSKKLHPAAFQSLWLQDAQVHGKKLFLRFDPDEEMEPLNSSPQ<br>PIQGMWQKEAVDRELALGPSAQEPSAGPSGSGEPVPSRSAETYNLGKIPSADAQRWLEVRFGLFGSIWVN<br>DFSRAKKANKKGDWRDPVPRLVLHFSGGGFLVFYNCQMSWSPPPVIEPTCDILSEKFHRGQALEALSQAQ<br>PVCYTLLDQRYFSGLGNIIKNEALYRARIHPLSLGSCLSSSSREALVDHVVEFSKDWLRDKFQGKERHTQ<br>IYQKEQCPSGHQVMKETFGPPDGLQRLTWWCPQCQPQLSSKGPQNLPSS<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-MYC/DDK |
| **Predicted MW:** | 36.8 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_963904 |
| **Locus ID:** | 382913 |
| **UniProt ID:** | Q6R2P8, Q1LZM6 |

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|---|---|
| **RefSeq Size:** | 1914 |
| **Cytogenetics:** | 14 D1 |
| **RefSeq ORF:** | 987 |
| **Synonyms:** | Gm1212; NEH2 |
| **Summary:** | Involved in base excision repair of DNA damaged by oxidation or by mutagenic agents. Has DNA glycosylase activity towards 5-hydroxyuracil and other oxidized derivatives of cytosine with a preference for mismatched double-stranded DNA (DNA bubbles). Has low or no DNA glycosylase activity towards thymine glycol, 2-hydroxyadenine, hypoxanthine and 8-oxoguanine. Has AP (apurinic/apyrimidinic) lyase activity and introduces nicks in the DNA strand. Cleaves the DNA backbone by beta-delta elimination to generate a single-strand break at the site of the removed base with both 3'- and 5'-phosphates (By similarity). [UniProtKB/Swiss-Prot Function] |