# Recombinant Mouse Twnk Protein, His-tagged

**Cat. No.** Twnk-513M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Mouse Twnk Protein (Val385-Lys636) with N-His tag was expressed in E. coli. |
| **Species** | Mouse |
| **Source** | E.coli |
| **ProteinLength** | Val385-Lys636 |
| **Description** | Enables DNA helicase activity. Involved in mitochondrial DNA replication. Acts upstream of or within DNA unwinding involved in DNA replication. Located in mitochondrion. Used to study Parkinson's disease. Human ortholog(s) of this gene implicated in Perrault syndrome; autosomal dominant progressive external ophthalmoplegia with mitochondrial DNA deletions 3; chronic progressive external ophthalmoplegia; and mitochondrial DNA depletion syndrome 7. Orthologous to human TWNK (twinkle mtDNA helicase). |
| **Form** | Freeze-dried powder |
| **Molecular Mass** | Predicted Molecular Mass: 32.3 kDa<br>Accurate Molecular Mass: 32 kDa |
| **Purity** | > 90% |
| **Applications** | Positive Control; Immunogen; SDS-PAGE; WB. |

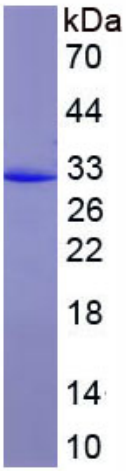
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| **Stability** | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| **Storage Buffer** | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300. |
| **Reconstitution** | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | Twnk twinkle mtDNA helicase [ Mus musculus (house mouse) ] |
| **Official Symbol** | Twnk |
| **Synonyms** | Twnk; twinkle mtDNA helicase; PEO; Peo1; Twinl; D19Ertd626e; twinkle mtDNA helicase; T7 gp4-like protein with intramitochondrial nucleoid localization; progressive external ophthalmoplegia 1 protein homolog; putative T7-like mitochodrial DNA helicase twinky; twinkle protein, mitochondrial; EC 3.6.4.12 |
| **Gene ID** | 226153 |
| **mRNA Refseq** | NM_153796 |
| **Protein Refseq** | NP_722491 |
| **UniProt ID** | Q8CIW5 |

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