# Recombinant Mouse Prion Protein

**Cat. No.** Prnp-1065M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full length mouse Prion protein PrP, 211 amino acids, with a N-terminal methionine and serine, expressed from a PCR-amplified ORF segment, 23kDa, expressed in E. coli BL21(DE3)pLysS. Swiss ID = P04925. |
| **Species** | Mouse |
| **Source** | E.coli |
| **Cat. No** | Prnp-1065M |
| **Description** | Prion protein PrP is a membrane glycosylphosphatidylinositol anchored glycoprotein that tends to aggregate into rod like structures. The encoded protein contains a highly unstable region of five tandem octapeptide repeats. This gene is found on chromosome 20, approximately 20 kbp upstream of a gene which encodes a biochemically and structurally similar protein to the one encoded by this gene. Mutations in the repeat region as well as elsewhere in this gene have been associated with Creutzfeldt Jakob disease, fatal familial insomnia, Gerstmann Straussler disease, Huntington disease like 1, and kuru. Two transcript variants encoding the same protein have been found for this gene. |
| **Purity** | >95% by SDS-PAGE. |
| **Purification** | Prnp is purified by metal-chelation and ion exchange chromatography, copper refolded. It is solubilized from inclusion bodies in 8 M urea. |

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| **Storage buffer** | Preservative: NoneConstituents: 50mM Sodium acetate buffer |
| **Form** | Liquid |
| **Concentration** | 2.100 mg/ml |
| **Application** | SDS-PAGE Use at an assay dependent dilution. |
| **Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | Prnp prion protein [ Mus musculus ] |
| **Synonyms** | Prnp; prion protein; PrP; PrPC; Sinc; CD230; PrPSc; Prn-i; Prn-p; PrP<C>; AA960666; AI325101; OTTMUSP00000015760 |
| **Gene ID** | 19122 |
| **mRNA Refseq** | NM_011170 |
| **Protein Refseq** | NP_035300 |
| **UniProt ID** | P04925 |
| **Chromosome Location** | 2 75.0 cM |
| **Pathway** | Prion diseases |

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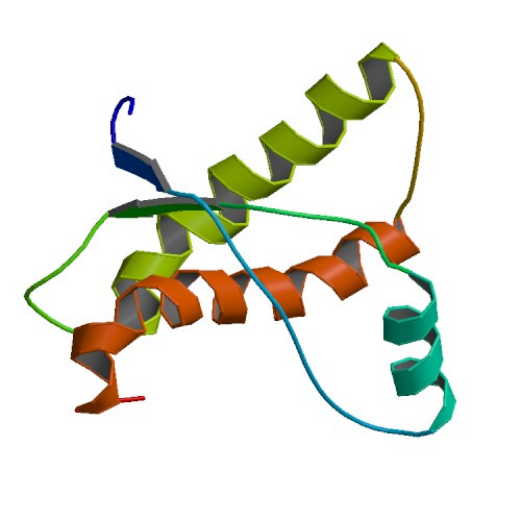
|---|---|
| **Function** | copper ion binding |
| **PDB rendering based on 1ag2.** |  |

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