

## Product datasheet for **TP310291M**

### Myelin Basic Protein (MBP) (NM\_001025092) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human myelin basic protein (MBP), transcript variant 4, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC210291 protein sequence  
Red=Cloning site Green=Tags(s)

MASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILD SIGRFFGGDRGAPKRGSGKDSHHPARTAHY  
GSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGAEGQRPGFGYGGGRASDYKSAHKGFKGVDAQGT  
L SKIFKLGGRDSRSGSPMARR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 17.2 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:** [NP\\_001020263](#)

**Locus ID:** 4155

**UniProt ID:** [P02686](#)

**RefSeq Size:** 2189



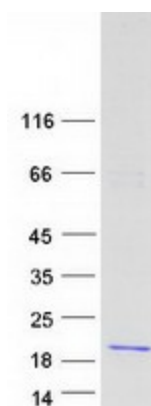
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Cytogenetics: 18q23

RefSeq ORF: 480

**Summary:** The protein encoded by the classic MBP gene is a major constituent of the myelin sheath of oligodendrocytes and Schwann cells in the nervous system. However, MBP-related transcripts are also present in the bone marrow and the immune system. These mRNAs arise from the long MBP gene (otherwise called "Golli-MBP") that contains 3 additional exons located upstream of the classic MBP exons. Alternative splicing from the Golli and the MBP transcription start sites gives rise to 2 sets of MBP-related transcripts and gene products. The Golli mRNAs contain 3 exons unique to Golli-MBP, spliced in-frame to 1 or more MBP exons. They encode hybrid proteins that have N-terminal Golli aa sequence linked to MBP aa sequence. The second family of transcripts contain only MBP exons and produce the well characterized myelin basic proteins. This complex gene structure is conserved among species suggesting that the MBP transcription unit is an integral part of the Golli transcription unit and that this arrangement is important for the function and/or regulation of these genes. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified MBP protein (Cat# [TP310291]). The protein was produced from HEK293T cells transfected with MBP cDNA clone (Cat# [RC210291]) using MegaTran 2.0 (Cat# [TT210002]).