

## Product datasheet for **SC215635**

### Myelin Basic Protein (MBP) (NM\_002385) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Myelin Basic Protein (MBP) (NM_002385) Human 3' UTR Clone
Symbol:	Myelin Basic Protein
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_002385
Insert Size:	1624 bp



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**Insert Sequence:** >SC215635 3'UTR clone of NM\_002385  
 The sequence shown below is from the reference sequence of NM\_002385. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CGTCTGGATCACCCATGGCTAGACGCTGAAAACCCACCTGGTTCGGAAATCCTGTCTCAGCTTCTTA
ATATAACTGCCTTAAACTTTAATCCCACTTGCCCTGTACCTAATTAGAGCAGATGACCCCTCCCT
AATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTACCGCAATTTCCGGCAACAG
TTAAATGAGAACATGAAAACAGAAAACGGTTAAACTGTCCCTTCTGTGTGAAGATCACGTTCTTCC
CCCGCAATGTGCCCCAGACGCACGTGGGTCTTCAGGGGGCCAGGTGCACAGACGTCCCTCCACGTTCA
CCCCTCCACCCTTGGACTTTCTTTTCGCCGTGGCTGCGGCACCCTTGGCTTTTGTGGTCACTGCCAT
GGAGGCACACAGCTGCAGAGACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGTTCCT
TTGTTTTTTTTCTGTCTTCTCACCTCCTAAAGTAGACTTCATTTTTCTAACAGGATTAGACAG
TCAAGGAGTGGCTTACTACATGTGGGAGCTTTTGGTATGTGACATGCGGGCTGGGAGCTGTTAGAGTC
CAACGTGGGGCAGCACAGAGAGGGGGCCACCTCCCAGGCCGTGGCTGCCACACACCCCAATTAGCTG
AATTCCGCTGTGGCAGAGGGAGGAAAAGGAGGCAACGTGGGCTGGGCAATGGCCTCACATAGGAAAACA
GGGTCTTCTGGAGATTTGGTGTGGAGATGTCAAGCAGGTGGCCTCTGGACGTCACCGTTGCCCTGCA
TGGTGGCCCCAGAGCAGCCTCTATGAACAACCTCGTTTCAAACCCACAGCCACAGCCGGAGAGTCCAG
GAAGACTTGGCCTCAGAGCAGAAGGGTAGGAGTCTCTAGACAGCCTCGCAGCCGCGCCAGTCCGCC
ATAGACTGGCTGTGACCGGGCTGCTGGCAGCGCAGTGCACAGTGGCCAGCACTAACCTCCCTGA
GAAGATAACCGGCTCATTCACTTCTCCAGAAGACGCGTGGTAGCGAGTAGGCACAGCGGTGCACCTG
CTCCCGAATTACTCACCGAGACACACGGGCTGAGCAGACGGCCCGTGGATGGAGACAAAGAGCTTTC
TGACCATATCCTTCTAACACCCGCTGGCATCTCCTTTGCGCCTCCCTCCCTAACCTACTGACCCACC
TTTTGATTTTAGCGCACCTGTGATTGATAGGCCTTCAAAGAGTCCCACGCTGGCATCACCTCCCCGA
GGACGGAGATGAGGAGTAGTCAGCGTATGCCAAAACGCGTCTTCTTAATCCAATTCTAATTCTGAATG
TTTCGTGTGGCTTAATACCATGTCTAATAATATATAGCCTCGATGATGAGAGATTACAAAGAACAAA
ACTCCAGACACAACTCCAATTTTTTCAGCAGAAGCACTCTGCGTCGCTGAGCTGAGGTCGGCTCTGC
GATCCATACGTGGCCGACCCACACAGCACGTGCTGTGACGATGGCTGAACGGAAAGTGTACTACTGTT
CTGAATATTGAAATAAAACAATAAACTTTAATGGTA
AGCGGACCGACTTACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCC
CAACCTGCCATCACGAGATTTTCGATTCCACCGCCG
  
```

**Restriction Sites:** SgfI-RsrII

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 µg dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_002385.3](#)

**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]

**Locus ID:**

4155

**MW:**

60.6