

Product datasheet for **SC215637**

Myelin Basic Protein (MBP) (NM_001025081) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Myelin Basic Protein (MBP) (NM_001025081) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	MBP
ACCN:	NM_001025081
Insert Size:	1624 bp



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Insert Sequence: >SC215637 3'UTR clone of NM_001025081
 The sequence shown below is from the reference sequence of NM_001025081. 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
CGTCTGGATCACCCATGGCTAGACGCTGAAAACCCACCTGGTTCGGGAATCCTGTCTCAGCTTCTTA
ATATAACTGCCTTAAACTTTAATCCCACTTGCCCTGTACCTAATTAGAGCAGATGACCCCTCCCT
AATGCCTGCGGAGTTGTGCACGTAGTAGGGTCAGGCCACGGCAGCCTACCGCAATTTCCGGCAACAG
TTAAATGAGAACATGAAAACAGAAAACGGTAAAACCTGTCCTTTCTGTGTGAAGATCACGTTCTTCC
CCCGCAATGTGCCCCAGACGCACGTGGGTCTTCAGGGGGCCAGGTGCACAGACGTCCTCCACGTTCA
CCCCTCCACCCTTGGACTTTCTTTTCGCCGTGGCTGCGGCACCCTTGGCTTTTGTGGTCACTGCCAT
GGAGGCACACAGCTGCAGAGACAGAGAGGACGTGGGCGGCAGAGAGGACTGTTGACATCCAAGCTTCTT
TTGTTTTTTTTCTGTCTTCTCACCTCCTAAAGTAGACTTCATTTTTCTAACAGGATTAGACAG
TCAAGGAGTGGCTTACTACATGTGGGAGCTTTTGGTATGTGACATGCGGGCTGGGAGCTGTTAGAGTC
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AATTCGCGTGTGGCAGAGGGAGGAAAAGGAGGCAACGTGGGCTGGGCAATGGCCTCACATAGGAAACA
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TGGTGGCCCCAGAGCAGCCTCTATGAACAACCTCGTTTCAAACCCACAGCCACAGCCGGAGAGTCCAG
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TTTTGATTTTAGCGCACCTGTGATTGATAGGCCTTCAAAGAGTCCCACGCTGGCATCACCTCCCCGA
GGACGGAGATGAGGAGTAGTCAGCGTATGCCAAAACGCGTCTTCTTAATCCAATTCTAATTCTGAATG
TTTCGTGTGGCTTAATACCATGTCTATTAATATATAGCCTCGATGATGAGAGATTACAAAAGAACAAA
ACTCCAGACACAACTCCAATTTTTCCAGCAGAAGCACTCTGCGTCGCTGAGCTGAGGTCGGCTCTGC
GATCCATACGTGGCCGACCCACACAGCACGTGCTGTGACGATGGCTGAACGGAAAGTGTACTACTGTT
CTGAATATTGAAATAAAACAATAAACTTTAATGGTA
AGCGGACCGACTTACGCGTAAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCC
CAACCTGCCATCACGAGATTTTCGATTCCACCGCCG
  
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Restriction Sites: Sgfl-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 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_001025081.2](#)

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