

Product datasheet for **MC205552**

Mbp (NM_001025245) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mbp (NM_001025245) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mbp
Synonyms:	C76307; goll; golli-mbp; Hmb; Hmbpr; jv; jve; mld; R75289; shi
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC051094
 GCGCGCCCGTCCCGGAGCAGCCGCTGTCAGTCACCGCCGCTGCGCGCCAGCGAGGACCAGCCTCTGGCT
 CAGGCGGCTGAGCTTACGACCCGGGACATAGTACCGCGCCAGCGACCCCTAGCCAGCGTTGGG
 TCCCATCCGCGGGATCCCGGGATCCTGGGCCCTCTTGGCCCTCCGAGCAGCAGCCAGCACCCTCTTGA
 ACGCCCCATTGGGTGCGCATGGGAAACCTCTGAAAGAGAGAATTATCTGCTGAGAAGGCCAGTAAGG
 ATGGAGAGATTCACCGAGGAGAGGCTGGAAGAAGAGAAGCGTGGGCAAGCTTTCTCAGACGGCCTCAGA
 GGACAGTGATGTGTTGGGGAGGAGATGCGATCCAGAACAAATGGGACCTCGGCTGAGGACACGGCGGTG
 ACAGACTCCAAGCACACAGCAGACCCAAAGAATAACTGGCAAGGCGCCACCCAGCTGACCCAGGGAACC
 GCCCCACTTGATCCGCCTTTTTCCCGAGATGCCCGGGAAGGGAGGACAACACCTTCAAAGACAGGCC
 CTCAGAGTCCGACGAGCTTCAGACCATCCAAGAAGACCCACAGCAGCTTCCGGAGGCTGGATGTGATG
 GCATCACAGAAGAGACCCTCACAGCGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATGCCAGGC
 ATGGCTTCTCCCAAGGCACAGAGACACGGGCATCCTTGACTCCATCGGGCGCTTCTTAGCGGTGACAG
 GGGTGGCCCAAGCGGGGCTCTGGCAAGGTGAGTCCGAGCCGTAGAGAAGCTGTGGGTTTAAATGCGGA
 AAGGAAGGAGAGGTGGGAGGTGGAAGTGGGCCAGTCACCATCGCAGAGCAACCGTGTCCCTGTGTCTGA
 GATACCAGCCCTGATCGGACAGTGTGATGGCCTGGGGGATTGGGCGTGGAGTGGGCGTGGTCCGCACTT
 AGCCAATTTCTACTTGTGTTTGTCTCCCTTGTCTTCTCACACGGGACTGCGATTGAGTGTCACTCAGGAA
 TGCAATGCCTTGCATCCTAATTGAGGCACCCAGGATGTAGCATTGAGCCTATGGGTTCTTAGGTATA
 CATGCCCTATGCCTGGGCTTACAGCAGATCCCGCCTCTGCGCAGTGCTTCCGGGTTTCGAACCTCAGCTG
 TGCTCATTCTCTGCTGGGTACAGGCTGCTAATTGCTTCCGCTGTGAAACAATGGTCTAATTGAGGCGAG
 GAGGTCTGCCGACTGACCTCTGCACCTCCAGCAAATTTCTTGTCTTATGTAGTTTGGTGGGGTG
 AATGAATGAATGATGTTTCATGACAAAAAAAAAAAAAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	NM_001025245
Insert Size:	588 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	BC051094 , AAH51094
RefSeq Size:	1368 bp
RefSeq ORF:	588 bp
Locus ID:	17196
UniProt ID:	P04370
Cytogenetics:	18 55.84 cM
Gene Summary:	<p>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. Mutation of the Mbp gene is associated with the 'shiverer' and 'myelin deficient' phenotypes in mouse. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (8) contains 3 exons unique to Golli-Mbp and exon 1 of the classic Mbp. It encodes the shorter of the Golli-Mbp isoforms (2).</p>