

# Product datasheet for MR227428

## Mbp (NM\_001025255) Mouse Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

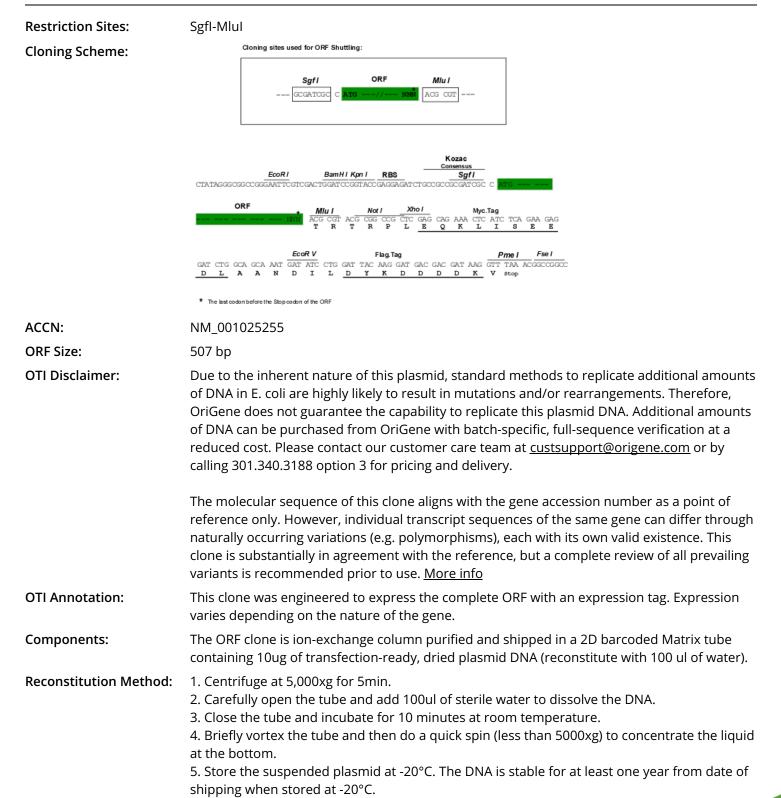
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	Mbp (NM_001025255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Мbр
Synonyms:	C76307; goll; golli-mbp; Hmb; Hmbpr; jv; jve; mld; R75289; shi
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227428 representing NM_001025255 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCATCACAGAAGAGACCCTCACAGCGATCCAAGTACCTGGCCACAGCAAGTACCATGGACCATGCCA GGCATGGCTTCCTCCCAAGGCACAGAGACACGGGCATCCTTGACTCCATCGGGCGCTTCTTTAGCGGTGA CAGGGGTGCGCCCAAGCGGGGGCTCTGGCAAGGACTCACACACGAGAACTACCCATTATGGCTCCCTGCCC CAGAAGTCGCAGCACGGCCGGACCCAAGATGAAAAACCCAGTAGTCCATTTCTTCAAGAACATTGTGACAC CTCGAACACCACCTCCATCCCAAGGGAAGGG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	>MR227428 representing NM_001025255 <mark>Red</mark> =Cloning site Green=Tags(s)
	MASQKRPSQRSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFSGDRGAPKRGSGKDSHTRTTHYGSLP QKSQHGRTQDENPVVHFFKNIVTPRTPPPSQGKGRGLSLSRFSWGAEGQKPGFGYGGRASDYKSAHKGFK GAYDAQGTLSKIFKLGGRDSRSGSPMARR
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/ja1760_e04.zip



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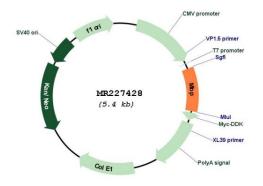
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	Mbp (NM_001025255) Mouse Tagged ORF Clone – MR227428
RefSeq:	<u>NM 001025255.2, NP 001020426.1</u>
RefSeq Size:	2108 bp
RefSeq ORF:	510 bp
Locus ID:	17196
UniProt ID:	<u>P04370</u>
Cytogenetics:	18 55.84 cM
MW:	18.9 kDa
Gene Summary:	The protein encoded 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. Mutation of the Mbp gene is associated with the 'shiverer' and 'myelin deficient' phenotypes in mouse. [provided by RefSeq, Jul 2008]

## **Product images:**



Circular map for MR227428

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