

Datasheet for ABIN4937814

Human MBP ORF Clone in Mammalian Expression Vector (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Gene:	MBP
Species:	Human
Fusion tag:	DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PEXP)

Product Details

Purpose:	Expression/transfection ready cDNA ORF clone of Human MBP with C terminal DYKDDDDK tag is ideal for express proteins in E.coli & mammalian cells.
Brand:	GenEZ™
Insert Length:	594 bp
Vector Backbone:	pcDNA3.1+C-(K)-DYK
Promoter:	CMV Promoter
Selectable Marker:	Neomycin
Bacterial Resistance:	Ampicillin
Expression Type:	Transient, Stable
Sequence:	ATGGGAAACC ACGCAGGCAA ACGAGAATTA AATGCCGAGA AGGCCAGTAC GAATAGTGAA ACTAACAGAG GAGAATCTGA AAAAAAGAGA AACCTGGGTG AACTTTCACG GACAACCTCA GAGGACAACG AAGTGTTCCG AGAGGCAGAT GCGAACCAGA ACAATGGGAC CTCCTCTCAG GACACAGCGG TGA CTGACTC CAAGCGCACA GCGGACCCGA AGAATGCCTG GCAGGATGCC CACCCAGCTG ACCCAGGGAG CCGCCCCAC TTGATCCGCC TCTTTTCCCG AGATGCCCGC

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Product Details

GGGAGGGAGG ACAACACCTT CAAAGACAGG CCCTCTGAGT CCGACGAGCT CCAGACCATC
CAAGAAGACA GTGCAGCCAC CTCCGAGAGC CTGGATGTGA TGGCGTCACA GAAGAGACCC
TCCCAGAGGC ACGGATCCAA GTACCTGGCC ACAGCAAGTA CCATGGACCA TGCCAGGCAT
GGCTTCTCC CAAGGCACAG AGACACGGGC ATCCTTGACT CCATCGGGCG CTTCTTTGGC
GGTGACAGGG GTGCGCCCAA GCGGGGCTCT GGCAAGGTGA GCTCTGAGGA GTAG

Specificity: ORF Insert Method: CloneEZ® Seamless cloning technology, recombination-based cloning technology

Characteristics: Gene cDNA ORF clone sequences were retrieved from the NCBI Reference Sequence Database (RefSeq). These sequences represent the protein coding region of the gene cDNA ORF which is encoded by the open reading frame (ORF) sequence.

Sequencing Primer:

- Forward primer: 5'-TAATACGACTCACTATAGGG-3'
- Reverse primer: 5'-CCTCGACTGTGCCTTCTA-3'

Grade: End-sequenced

Components: The GenEZ ORF clone is delivered as 10 µg of lyophilized plasmid DNA in a vial.

Target Details

Gene: MBP

Alternative Name: Myelin basic protein ([MBP Products](#))

Background: 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].

Gene ID: 4155

NCBI Accession: [NM_001025100](#)

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Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Storage: RT/-20 °C

Storage Comment:

- Keep the vial sealed and store at -20°C for long-term storage.
- Before use, centrifuge the vial at 6,000 g x g for 1 minute at 4°C.
- Open the lid and add 100 µl (or other volume depending on your desired final concentration) of distilled water (or TE buffer) to dissolve the DNA.
- If necessary, heat the solution at 50°C for 15 minutes to dissolve the DNA.
- Close the lid and vortex the vial for 1 minute.
- Aliquot the dissolved plasmid DNA and store in small aliquots at -20°C.

Expiry Date: 12 months

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)