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Overview

Rat MBP ORF Clone in Mammalian Expression Vector (Myc-DYKDDDDK Tag)

Quantity:	10 μg
Gene:	MBP
Species:	Rat
Fusion tag:	Myc-DYKDDDDK Tag
Insert:	ORF
Vector:	Mammalian Expression Vector
Application:	Protein Expression (PExp)
Product Details	
Purpose:	Mammalian Vector with ORF clone of Rat myelin basic protein (Mbp) transcript variant 3
Brand:	TrueORF
Insert Length:	465 bp
Vector Backbone:	pCMV6-Entry
Promoter:	CMV Promoter
Bacterial Resistance:	Kanamycin
Expression Type:	Transient
Specificity:	Restriction Site: Sgfl-Mlul
Sequencing Primer:	VP1.5 (forward) 5'GGACTTTCCAAAATGTCG 3', XL39 (reverse) 5'ATTAGGACAAGGCTGGTGGG 3'
Grade:	End-sequenced
Components:	The ORF clone is ion-exchange column purified, transfection-ready dried plasmid DNA, and shipped with 2 vector sequencing primers.

Target Details

Gene:	MBP
Abstract:	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. Mutation of the Mbp gene is
	associated with the 'shiverer' and 'myelin deficient' phenotypes in mouse.
NCBI Accession:	NM_001025293, NP_001020464
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Storage:	4 °C/-20 °C
Publications	
Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (
	1991)