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Datasheet for ABIN4706468 Human MSC cDNA Clone in Bacterial Expression Vector (His-MBP)

Overview

Quantity:	500 ng
Gene:	Musculin (MSC)
Species:	Human
Fusion tag:	His-MBP
Insert:	cDNA
Vector:	Bacterial Expression Vector
Application:	Cloning (Clon)

Product Details

Purpose:	Bacterial expression of Human MSC with His-MBP
Insert Length:	621 bp
Vector Backbone:	pPB-His-MBP
Promoter:	T7 Promoter
Bacterial Resistance:	Kanamycin
Expression Type:	Transient
Specificity:	5-Nhel and 3-Xhol Fusion tag: Dual N-terminal tag, 6X Histidine followed by Maltose Binding Protein which is cleavable with Thrombin (Size 43 kDa)
Sequencing Primer:	MBP Forward primer: 5'-CGCAGATGTCCGCTTTCTGG-3', T7 terminator primer: 5'- GCTAGTTATTGCTCAGCGG-3'

Target Details

Gene:

Musculin (MSC)

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Below a 1. The p host E. 2. Reco thiogala 3. The i protein	B vectors are low-medium copy number vectors in which the gene expression is driven
1. The phost E. 2. Reco thiogala 3. The i protein	strong T7 promoter.
host E. 2. Reco thiogala 3. The i protein	are some basic guidelines for using the pPB vectors for protein production:
2. Recc thiogala 3. The i protein	pPB vectors are designed to be used with E. coli strains that are DE3 lysogens i.e. the
thiogala 3. The i protein	coli cell has a source of T7 RNA polymerase.
3. The i protein	pmbinant protein induction is usually done at OD600 of 0.6-1.2 using Isopropyl β -D-1-
protein	actopyranoside (IPTG) at a final concentration of 0.05 -1mM.
	ideal concentration of IPTG must be determined empirically for each recombinant
variable	/cell-line. Similarly, the length of time and temperature for induction provide other
	es that need to be optimized on a case-to-case basis.
4. For t	oxic proteins, it is recommended to go for shorter induction time and also to try and
suppre	ss basal recombinant gene expression through (a) addition of glucose or use of pLysS
plasmic	d. Please note that special cell-lines are also available in the market that cater to
express	sion of toxic proteins.
5. Once	grown for the desired length of time, harvest cells by centrifugation and either freeze
the cell	s at -80°C (as such or after re-suspending in the desired buffer) or proceed with the
purifica	ation.
Restrictions: For Res	search Use only

Handling

Target Details

Format:	Liquid
Buffer:	10 mM Tris-HCI, 1 mM EDTA, pH 8.0
Storage:	-20 °C
Storage Comment:	1 year when stored at -20° C or lower in a non-frost free freezer.
Expiry Date:	12 months
Publications	
Product cited in:	Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)