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Datasheet for ABIN4698856 Human C50RF46 cDNA Clone in Bacterial Expression Vector (His-MBP)

Overview

Quantity:	500 ng
Gene:	C50RF46
Species:	Human
Fusion tag:	His-MBP
Insert:	cDNA
Vector:	Bacterial Expression Vector
Application:	Cloning (Clon)

Product Details

Purpose:	Bacterial expression of Human C5orf46 with His-MBP
Insert Length:	219 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:

C50RF46

Target Details	
Alternative Name:	C5orf46
Application Details	
Application Notes:	 The pPB vectors are low-medium copy number vectors in which the gene expression is driven by the strong T7 promoter. Below are some basic guidelines for using the pPB vectors for protein production: The pPB vectors are designed to be used with E. coli strains that are DE3 lysogens i.e. the host E. coli cell has a source of T7 RNA polymerase. Recombinant protein induction is usually done at OD600 of 0.6-1.2 using Isopropyl β-D-1-thiogalactopyranoside (IPTG) at a final concentration of 0.05 -1mM. The ideal concentration of IPTG must be determined empirically for each recombinant protein/cell-line. Similarly, the length of time and temperature for induction provide other variables that need to be optimized on a case-to-case basis. For toxic proteins, it is recommended to go for shorter induction time and also to try and suppress basal recombinant gene expression through (a) addition of glucose or use of pLysS plasmid. Please note that special cell-lines are also available in the market that cater to expression of toxic proteins.
Restrictions:	the cells at -80°C (as such or after re-suspending in the desired buffer) or proceed with the purification. For Research Use only
Handling	
Format:	Liquid
Buffer:	10 mM Tris-HCl, 1 mM EDTA, pH 8.0
Storage:	-20 °C

Storage Comment:

Expiry Date:

Publications

Product cited in:

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

1 year when stored at -20° C or lower in a non-frost free freezer.

12 months