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## Datasheet for ABIN4744055 Rat CYCT cDNA Clone in Bacterial Expression Vector (His-MBP)

#### Overview

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

#### Product Details

Purpose:	Bacterial expression of Rat Cyct with His-MBP
Insert Length:	510 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:

by the strong T7 promoter. Below are some basic guidelines for using the pPB vectors for protein production: 1. 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. 2. 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. 3. 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. 4. 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 pLys plasmid. Please note that special cell-lines are also available in the market that cater to expression of toxic proteins.	Target Details	
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Storage Comment: 1 year when stored at -20° C or lower in a non-frost free freezer.	Buffer:	10 mM Tris-HCI, 1 mM EDTA, pH 8.0
	Storage:	-20 °C
Expiry Date: 12 months	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, (

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Publications
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1991)