-online.com genomics

Datasheet for ABIN4633878 Human SMAD7 cDNA Clone in Bacterial Expression Vector (His tag)

Overview

Quantity:	500 ng
Gene:	SMAD7
Species:	Human
Fusion tag:	His tag
Insert:	cDNA
Vector:	Bacterial Expression Vector
Application:	Cloning (Clon)

Product Details

Purpose:	Bacterial expression of Human smad7 with His tag
Insert Length:	1281 bp
Vector Backbone:	pPB-N-His
Promoter:	T7 Promoter
Bacterial Resistance:	Kanamycin
Expression Type:	Transient
Specificity:	5-Nhel and 3-Xhol Fusion tag: A singel N-terminal 6X-Histidine tag which is cleavable with Thrombin (Size 2.3 kDa)
Sequencing Primer:	T7 promoter primer: 5'-TAATACGACTCACTATAGGG-3', T7 terminator primer: 5'- GCTAGTTATTGCTCAGCGG-3'

Target Details

Gene:	SMAD7
Alternative Name:	Smad7 (SMAD7 Products)

Order at www.genomics-online.com

USA & Canada: +1 877 302 8632 | support@antibodies-online.com

Page 1/2 | Product datasheet for ABIN4633878 | 10/07/2023 | Copyright antibodies-online. All rights reserved.

NCBI Accession:	NM_005904	
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:	
	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 pLysS	
	plasmid. Please note that special cell-lines are also available in the market that cater to	
	expression of toxic proteins.	
	5. Once grown for the desired length of time, harvest cells by centrifugation and either freeze	
	the cells at -80°C (as such or after re-suspending in the desired buffer) or proceed with the	
	purification.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	

Target Details

Format:	Liquid
Buffer:	10 mM Tris-HCl, 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)