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Datasheet for ABIN4842447

# **Human TRPM1 cDNA Clone in Bacterial Expression Vector (His-GST)**

Quantity:500 ngGene:TRPM1Species:HumanFusion tag:His-GSTInsert:cDNAVector:Bacterial ExpressionApplication:Cloning (Clon)Product DetailsBacterial expressionPurpose:Bacterial expressionInsert Length:411 bpVector Backbone:pPB-His-GSTPromoter:T7 PromoterBacterial Resistance:Kanamycin	n Vector
Species: Human  Fusion tag: His-GST  Insert: cDNA  Vector: Bacterial Expression  Application: Cloning (Clon)  Product Details  Purpose: Bacterial expression  Insert Length: 411 bp  Vector Backbone: pPB-His-GST  Promoter: T7 Promoter	n Vector
Fusion tag: His-GST  Insert: cDNA  Vector: Bacterial Expression  Application: Cloning (Clon)  Product Details  Purpose: Bacterial expression  Insert Length: 411 bp  Vector Backbone: pPB-His-GST  Promoter: T7 Promoter	n Vector
Insert: cDNA  Vector: Bacterial Expression  Application: Cloning (Clon)  Product Details  Purpose: Bacterial expression  Insert Length: 411 bp  Vector Backbone: pPB-His-GST  Promoter: T7 Promoter	n Vector
Vector:Bacterial ExpressionApplication:Cloning (Clon)Product DetailsBacterial expressionPurpose:Bacterial expressionInsert Length:411 bpVector Backbone:pPB-His-GSTPromoter:T7 Promoter	n Vector
Application:  Cloning (Clon)  Product Details  Purpose:  Bacterial expression  Insert Length:  411 bp  Vector Backbone:  pPB-His-GST  Promoter:  T7 Promoter	n Vector
Product Details  Purpose: Bacterial expression  Insert Length: 411 bp  Vector Backbone: pPB-His-GST  Promoter: T7 Promoter	
Purpose: Bacterial expression Insert Length: 411 bp  Vector Backbone: pPB-His-GST  Promoter: T7 Promoter	
Insert Length: 411 bp  Vector Backbone: pPB-His-GST  Promoter: T7 Promoter	
Vector Backbone:pPB-His-GSTPromoter:T7 Promoter	n of Human TRPM1 with His-GST
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 Glutathione-S-Transferase Protein
which is cleavable	with TEV (Size 27.9 kDa)
Sequencing Primer: GST Forward prime	er: 5'-CACGTTTGGTGGTGGCGAC3', T7 terminator primer: 5'-
GCTAGTTATTGCT	CAGCGG-3'
Target Details	
Gene: TRPM1	

TRPM1 (TRPM1 Products)

# **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-1thiogalactopyranoside (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
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)