

# pT7-IRES His-N DNA

**Code No. 3290**

**Size: 20  $\mu$ g**

**Conc.: 0.5  $\mu$ g/ $\mu$ l**

\* 2 years from date of receipt under proper storage conditions.

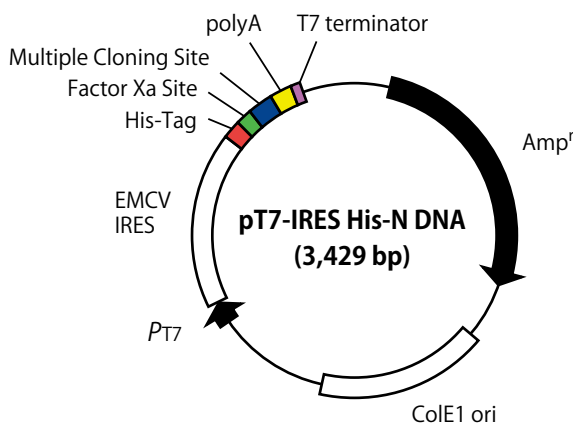
**Quality Control Data :**

Please see the Certificate of Analysis (CoA) for each lot. You can download the CoA on Takara Bio website.

**Usage :**

Protein expression using Human Cell-Free Protein Expression System

**Vector map for pT7-IRES His-N DNA :**



**Note**

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Regarding protocol for protein synthesis, please refer to the product manual for Human Cell-Free Protein Expression System (Cat. #3281).

**Description :**

pT7-IRES DNA series are expression vectors designed for Human Cell-Free Protein Expression System. Tag sequence such as His-Tag or c-Myc Tag, Factor Xa cleavage site, Multiple Cloning Site (MCS), polyA, and T7 terminator are located at the downstream of T7 promoter and EMCV IRES. There are vectors with some arrangements for the kind of Tag and the location.

pT7-IRES His-N DNA is an expression vector including His-Tag sequence. Using pT7-IRES His-N DNA together with Human Cell-Free Protein Expression System (Cat. #3281) enables the synthesis of your target protein as N-terminal fusion of His-Tag. Factor Xa cleavage site is inserted so that His-Tag can be removed from the synthesized fusion protein. Target gene cloned into MCS in frame is transcribed as RNA-containing-EMCV IRES under the control of T7 promoter. By the effect of EMCV IRES, designed to promote protein translation initiation, efficient high level protein synthesis can be performed in Human Cell-Free Protein Expression System.

**Form :** 10 mM Tris-HCl, pH 8.0  
1 mM EDTA

**Storage :** -20°C

**Preparation :** Purified by ion-exchange column.

**Chain length :** 3,429 bp

**MCS :**

<u>EMCV IRES</u>	<u>Nco I</u>	<u>Nhe I</u>	<u>His-Tag</u>	<u>Factor Xa</u>	<u>Nde I</u>	<u>Sac I</u>	<u>Xho I</u>
5'-TAACGT.....TAATATGGCCACAACC	<b>ATG</b>	GCT AGC CAC CAT CAC CAT CAC CAT	ATC GAA GGG CGC CAT ATG GAG CTC CTC GAG				
3'-ATTGCA.....ATTATACCGGTGTTGG	TAC CGA TCG GTG GTA GTG GTA GTG GTA	TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC					
	<b>Met</b>	Ala Ser His His His His His His	Ile Glu Gly Arg His Met Glu Leu Leu Glu				

<u>BamHI</u>	<u>EcoRI</u>	<u>Spe I</u>	<u>Hinc II</u>	<u>Sal I</u>	<u>Pst I</u>	<u>Xba I</u>	<u>End</u>
GGA TCC GAA TTC ACT AGT GTC GAC CTG CAG TCT AGA TAG GTAATC-3'							
CCT AGG CTT AAG TGA TCA CAG CTG GAC GTC AGA TCT ATC CATTAG-5'							
Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg							

