

pT7-IRES His-N DNA

Code No. 3290

Size: 20 µg

Conc.: 0.5 µg/µl

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

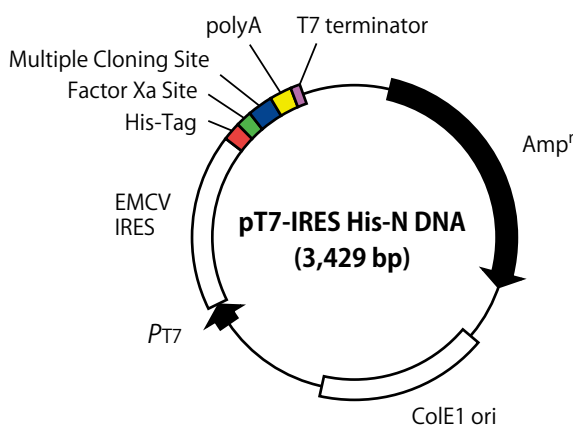
Quality Control Data :

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 :



Regarding protocol for protein synthesis, please refer to the product manual for Human Cell-Free Protein Expression System (Cat. #3281) or Human Cell-Free Protein Expression Maxi System (Cat. #3285).

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

Note

This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals. Also, do not use this product as food, cosmetic, or household item, etc. Takara products may not be resold or transferred, modified for resale or transfer, or used to manufacture commercial products without written approval from Takara Bio Inc. If you require licenses for other use, please contact us by phone at +81 77 565 6973 or from our website at www.takara-bio.com. Your use of this product is also subject to compliance with any applicable licensing requirements described on the product web page. It is your responsibility to review, understand and adhere to any restrictions imposed by such statements. All trademarks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions.

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	ATG	GCT AGC CAC CAT CAC CAT	CAC CAT ATC GAA GGG CGC CAT ATG GAG CTC CTC GAG	ATC GAA GGG CGC CAT ATG GAG CTC CTC GAG	CAT ATG GAG CTC CTC GAG	CAT ATG GAG CTC CTC GAG	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	TAC CGA TCG GTG GTA GTG GTA GTG GTA TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC	TAC CGA TCG GTG GTA GTG GTA GTG GTA TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC	TAC CGA TCG GTG GTA GTG GTA GTG GTA TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC	TAC CGA TCG GTG GTA GTG GTA GTG GTA TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC	TAC CGA TCG GTG GTA GTG GTA GTG GTA TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC	TAC CGA TCG GTG GTA GTG GTA GTG GTA TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC
	Met	Ala Ser His His His His His His Ile Glu Gly Arg His Met Glu Leu Leu Glu	Ala Ser His His His His His His Ile Glu Gly Arg His Met Glu Leu Leu Glu	Ala Ser His His His His His His Ile Glu Gly Arg His Met Glu Leu Leu Glu	Ala Ser His His His His His His Ile Glu Gly Arg His Met Glu Leu Leu Glu	Ala Ser His His His His His His Ile Glu Gly Arg His Met Glu Leu Leu Glu	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>SaI 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'	GGA TCC GAA TTC ACT AGT GTC GAC CTG CAG TCT AGA TAG GTAATC-3'	GGA TCC GAA TTC ACT AGT GTC GAC CTG CAG TCT AGA TAG GTAATC-3'	GGA TCC GAA TTC ACT AGT GTC GAC CTG CAG TCT AGA TAG GTAATC-3'	GGA TCC GAA TTC ACT AGT GTC GAC CTG CAG TCT AGA TAG GTAATC-3'	GGA TCC GAA TTC ACT AGT GTC GAC CTG CAG TCT AGA TAG GTAATC-3'	GGA TCC GAA TTC ACT AGT GTC GAC CTG CAG TCT AGA TAG GTAATC-3'	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'	CCT AGG CTT AAG TGA TCA CAG CTG GAC GTC AGA TCT ATC CATTAG-5'	CCT AGG CTT AAG TGA TCA CAG CTG GAC GTC AGA TCT ATC CATTAG-5'	CCT AGG CTT AAG TGA TCA CAG CTG GAC GTC AGA TCT ATC CATTAG-5'	CCT AGG CTT AAG TGA TCA CAG CTG GAC GTC AGA TCT ATC CATTAG-5'	CCT AGG CTT AAG TGA TCA CAG CTG GAC GTC AGA TCT ATC CATTAG-5'	CCT AGG CTT AAG TGA TCA CAG CTG GAC GTC AGA TCT ATC CATTAG-5'	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	Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg	Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg	Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg	Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg	Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg	Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg	Gly Ser Glu Phe Thr Ser Val Asp Leu Gln Ser Arg

pT7-IRES His-N DNA

Code No. 3290

容量： 20 μ g

濃度： 0.5 μ g/ μ l

※ 適切に保存し、受取り後 2 年を目途にご使用ください。

● 鎖長 3,429 bp

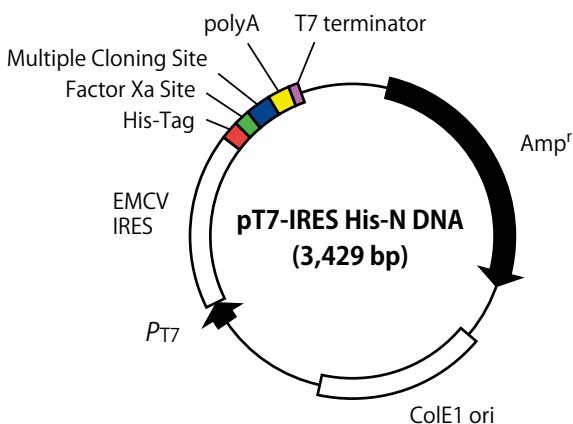
● 品質管理データ

性能試験結果については、各ロットの Certificate of Analysis (CoA) をご覧ください。CoA はタカラバイオウェブサイトのドキュメントセンターからダウンロードできます。

● 用途

ヒト無細胞タンパク質合成システムを利用したタンパク質発現

● pT7-IRES His-N DNA のベクターマップ



本ベクターに目的遺伝子をクローニングした後は、Human Cell-Free Protein Expression System (製品コード 3281) または Human Cell-Free Protein Expression Maxi System (製品コード 3285) の取扱説明書に従って、タンパク質合成を行ってください。

● 製品説明

ヒト無細胞タンパク質合成システム専用の発現ベクター (pT7-IRES DNA シリーズ) は、T7 プロモーターと EMCV IRES 配列の下流に His タグまたは c-Myc タグのタグ配列、Factor Xa 切断配列、マルチクローニングサイト、polyA、T7 ターミネーターが配置されている。タグ配列の種類、配置場所の異なるベクターを用意しており、目的に合わせて最適なベクターを選択することができる。

pT7-IRES His-N DNA は、His タグ配列を配置したヒト無細胞タンパク質合成システム用発現ベクターである。pT7-IRES His-N DNA を Human Cell-Free Protein Expression System (製品コード 3281) と組み合わせて用いることで、N 末端に His タグを付加した目的タンパク質の合成が可能である。His タグ配列を介して精製後に合成したタンパク質から His タグ配列を除去できるよう、Factor Xa 切断配列が導入されている。

本ベクターのマルチクローニングサイトにフレームを合わせて挿入した目的遺伝子は T7 プロモーターの制御下で EMCV IRES を有する RNA として転写され、EMCV IRES の翻訳開始促進効果により、本無細胞タンパク質合成システムで効率的なタンパク質合成を実現する。

● 形状 10 mM Tris-HCl, pH8.0
1 mM EDTA

● 保存 - 20℃

● 調製 イオン交換カラムにより精製

● マルチクローニングサイト

Nco I

EMCV IRES Nhe I His-Tag Factor Xa Nde I Sac I Xho I

5'-TAACGT.....TAATATGGCCACAACC **ATG** GCT AGC CAC CAT CAC CAT CAC CAT ATC GAA GGG CGC CAT ATG GAG CTC CTC GAG

3'-ATTGCA.....ATTATACCGTGTGG TAC CGA TCG GTG GTA GTG GTA GTG GTA TAG CTT CCC GCG GTA TAC CTC GAG GAG CTC

Met Ala Ser His His His His His Ile Glu Gly Arg His Met Glu Leu Leu Glu

Hinc II

BamHI EcoRI Spe I Sal I Pst I Xba I End

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

● 注意

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