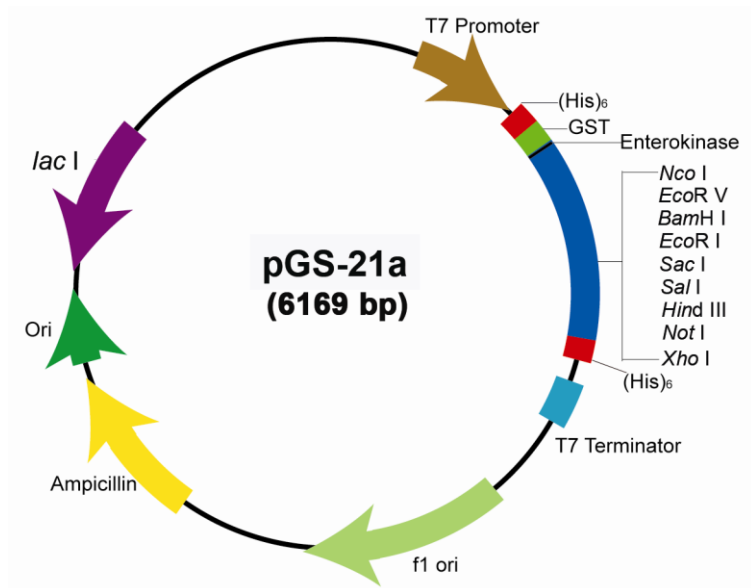


pGS-21a

Cat. No. SD0121

Description: The pGS-21a vector is designed for cloning, high-level expression and convenient purification of proteins fused with both 6xHis and GST. Two 6xHis sequences were introduced into the vector for easy detection and purification of fused proteins. The first 6xHis is fused to GST and the fused tag 6xHis-GST can be cleaved using enterokinase. The second 6xHis can be used for detection and further purification after the cleavage of 6xHis-GST.



T7 Promoter: 1-17
Polylinker: 834-892
F1 ori: 1061-1516
Ampicillin: 1648-2508

Sequencing Primers:
Forward primer
DA0009: T7
 (TAATACGACTCACTATAGGG)

Reverse primer
DA0010: T7 Terminator
 (GCTAGTTATTGCTCAGCGG)

Cloning Region:

T7 Promoter → lac Operator

T AAT ACG ACT CAC TAT AGG GGA ATT GTG AGC GGA TAA CAA TTC CCC TCT AGA AAT AAT TTT GTT

Forward Sequencing Primer

TAA CTT TAA GAA GGA GAT ATA CAT ATG TCT GGT TCT CAT CAT CAT CAT CAT AGC AGC GGT

Met Ser Gly Ser His His His His His His Ser Ser Gly

GST-tag bgl II kpn I Enterokinase

ATG TCC CC...TCG GAT CTG GGC CAC ACA GGC CAT AGA TCT GGT ACC GAC GAC GAC GAC AAG

Met Ser Ser Asp Leu Gly His Thr Gly His Arg Ser Gly Thr Asp Asp Asp Lys

Nco I EcoR V BamH I EcoR I Sac I Sal I Hind III Not I Xho I

GCC ATG GCT GAT ATC GGA TCC GAA TTC GAG CTC GTC GAC AAG CTT GCG GCC GCA CTC GAG

Ala Met Ala Asp Ile Gly Ser Glu Phe Glu Leu Val Asp Lys Leu Ala Ala Ala Leu Glu

His-tag

CAC CAC CAC CAC CAC CAC TGA GAT CCG GCT GCT AAC AAA GCC CGA AAG GAA GCT GAG TTG

His His His His His His

Reverse Sequencing Primer T7 Terminator

GCT GCT GCC ACC GCT GAG CAA TAA CTA GCA TAA CCC CTT GGG GCC TCT AAA CGG GTC TTG

AGG GGT TTT TTG

Features:

T7 promoter is for convenient expression of genes in bacteria and *in vitro* transcription/translation analysis (tm0180).

Storage: -20 °C

Related Products:

Enterokinase, porcine

GST Resin

Mouse Anti GST-tag mAb

Mouse Anti His-tag mAb