

**DATASHEET**

**pGS-21a**

Version: 2016-09-14

**Cat. No.** SD0121

**Name:** pGS-21a

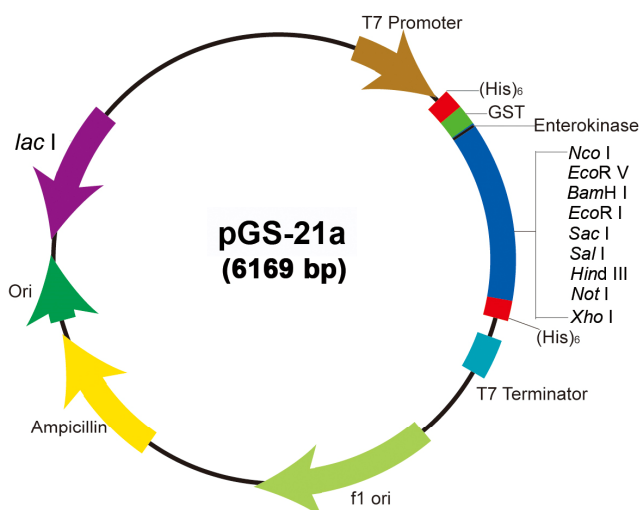
**Size:** 10 µg

**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.

**Storage:** Store at -20°C.

**Map**



|                     |           |
|---------------------|-----------|
| <b>T7 Promoter:</b> | 1-17      |
| <b>Polylinker:</b>  | 834-892   |
| <b>F1 ori:</b>      | 1061-1516 |
| <b>Ampicillin:</b>  | 1648-2508 |

**Forward Sequencing Primer:**

DA0009: T7  
(TAATACGACTCACTATAGGG)

**Reverse Sequencing Primer:**

DA0010: T7 Terminator  
(GCTAGTTATTGCTCAGCGG)

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