Product datasheet for **PS100028**

**pEX-N-His-GST Bacterial Expression Vector**

**Product data:**

- **Product Type:** Bacterial Expression Vectors
- **N-Tag:** His-GST
- **E. coli Selection:** Ampicillin

**Features:**

- Upon IPTG induction, ORFs cloned in this vector can be expressed in E.coli (BL21/DE3) as a tagged protein with an N-terminal His-GST tag.
- Detection and purification of the transgene are best done using an **anti-His antibody** or a glutathione affinity column.
- If the N-terminal tagging interferes with the protein’s function, you can choose the C-terminal His-tagging vector, PS100032
- PS100028_F Primer (GE100105) can be used to sequence the target sequence after cloning.
- PS100028_R Primer (GE100133) can be used to sequence the target sequence after cloning.

Schematic of the multiple cloning sites:

```
T7 Promoter  Lac Operator  RBS  His Tag
TTATAGAGCTCTAGAAGAATTGAGCCATGAATTCCCTTGTTTTTACCTTAAAGAAGAGATGCCC
     M          H          R          H          H          A

GST Tag
GGG AAT TCT CAG --- --- --- --- --- TAC GGT ACG AGC AGC GAA AAG CTG TAT TAT CAC GGC GGG AAT CCC GGC
     G          M          S          D          I          F          T          F          T

    TEV Cleavage Site  SfTI
                  GGA ATC GCC GCC
                  G

Asc I  Hind III  Rsr II  Mlu I  Nco I  Xho I  Pme I  Fse I
GGCCGAGATCT\|GACCTTAACTAGATCTAGACU AGG CTG GCA ACCGGGCGG|CTGGTTTACG|GCCCGGG

```

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