

pBacPAK-Nterm 6xHN-GUS Vector Information

PT3911-5
Sold as part of Catalog No. 631410

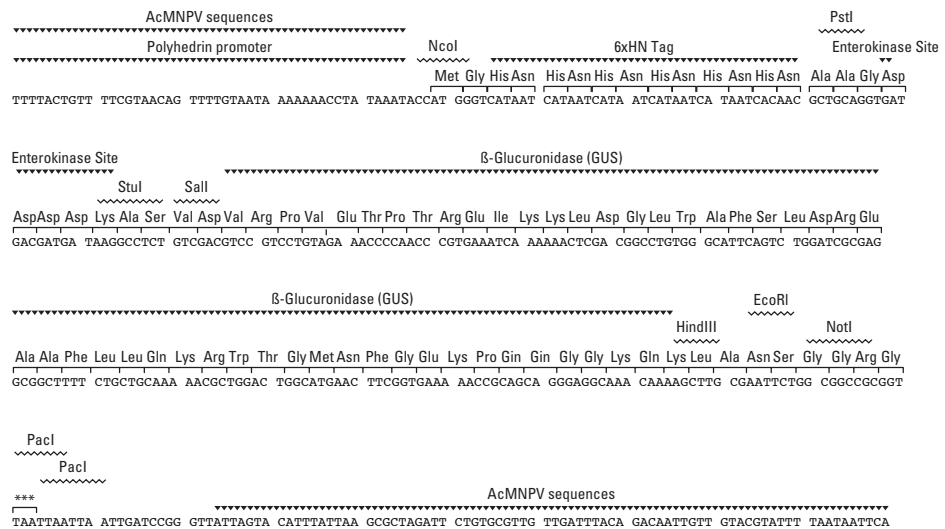
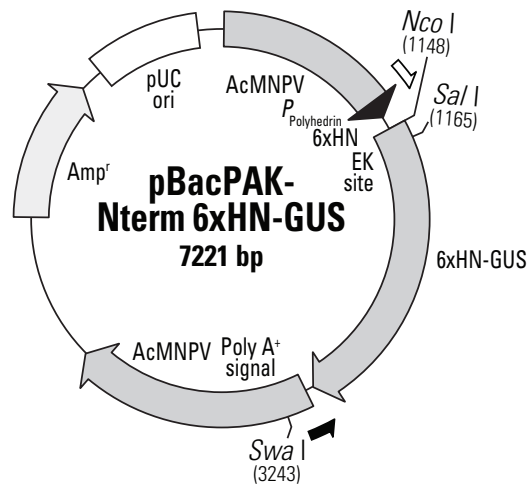


Figure 1. Restriction Map and Multiple Cloning Site (MCS) of pBacPAK-Nterm 6xHN-GUS Vector.* pBacPAK-Nterm 6xHN-GUS contains coding sequences for beta-glucuronidase cloned into the *Sal I* and *Hind III* sites of pBacPAK-Nterm 6xHN Vector. The unshaded and filled arrows on the upstream and downstream side of the GUS insert, respectively, represent the positions of the recommended forward (Bac1) and reverse (Bac2) primers.

Description

Available as part of the In-Fusion™ Ready BacPAK Vector Set (Cat. No. 631410), pBacPAK-Nterm 6xHN-GUS Vector is a positive control transfer vector designed for high-level expression of 6xHN-tagged beta-glucuronidase driven by the strong AcMNPV polyhedrin promoter. Flanking AcMNPV sequences allow recombination with viral DNA to transfer the expression cassette to the polyhedrin locus of the viral DNA.

This vector can be used to monitor transfection efficiency and virus production. Expression of GUS can be easily detected by addition of X-Gluc to the medium.

pBacPAK-Nterm 6xHN Vector has a pUC origin of replication, an M13 origin for single-stranded DNA production, and an ampicillin resistance gene in *E. coli*.

(PR671884; published 11 August 2006)



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Location of features

- AmpR: 5426–6286
- AcMNPV sequences: 1–1146
- 6xHN tag: 1155–1190
- Enterokinase site: 1200–1214
- Beta glucuronidase (GUS): 1227–3032
- AcMNPV sequences: 3083–5334
- M13 single-strand DNA origin: 4566–5039
- ORF1629 C-terminus: 63–1406 (complementary)
- Polyhedrin mRNA polyadenylation signal: 3409–3414
- Transcription start point: 1098–1098
- Polyhedrin promoter: 1076–1145
- pUC plasmid replication origin: 6434–7077

Primer Locations

Bac1 Primer: 1077–1096 aaccatctcgaaataaata
Bac2 Primer: 3291–3272 acgcacagaatctagcgctt

Propagation in *E. coli*

- Suitable host strains: DH5 α and other general-purpose strains. Single-stranded DNA production requires a host containing an F plasmid such as JM101 or XL1-Blue.
- Selectable marker: plasmid confers resistance to ampicillin (100 μ g/ml) in *E. coli* hosts.
- *E. coli* replication origin: pUC
- Copy number: high

References

See the In Fusion Ready BacPAK Vector Set User Manual (PT3908-1) for In-Fusion cloning techniques. See the BacPAK Baculovirus Expression System User Manual (PT1260-1) for generation of baculovirus and related protocols. See the BacPAK Baculovirus Rapid Titer Kit User Manual (PT3153-1) for titration of recombinant baculoviruses.

***Note:** The attached sequence file has been compiled from information in the sequence databases, published literature, and other sources, together with partial sequences obtained by Clontech. This vector has not been completely sequenced.

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