

## Episomal Mammalian Expression Vectors

The Epstein Barr Virus (EBV)-based vectors are maintained extrachromosomally in primate and canine cell lines and will express high levels of recombinant proteins. This vector collection offers the following features:

- The EBV origin of replication (*oriP*) and nuclear antigen (EBNA-1) to allow high-copy episomal replication in primate and canine cell lines.
- A choice of three selectable markers for stable maintenance of the vector.
- A choice of two enhancer-promoter sequences for high-level protein expression.
- ColE1 origin of replication and ampicillin resistance gene for growth and selection in *E. coli*.

### Group I: Selectable Markers

#### Description:

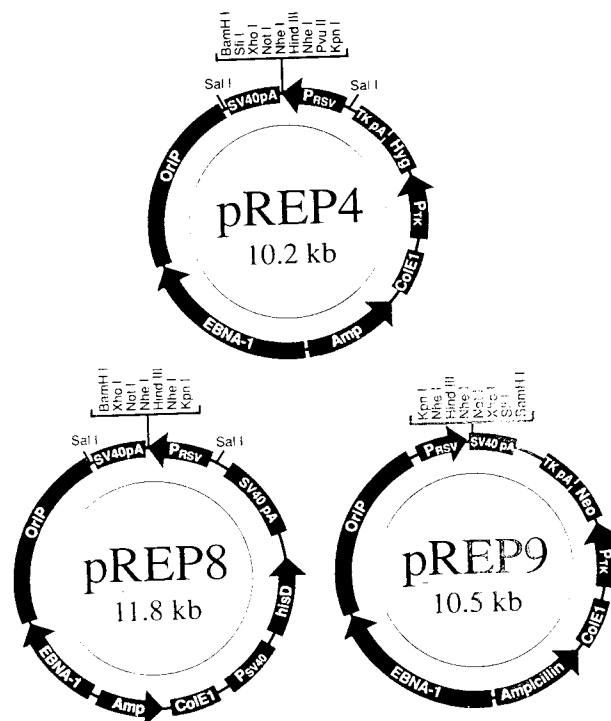
This group of vectors, with high-level constitutive transcription from the RSV LTR, have different selectable markers for coexpression of recombinant proteins. This group includes the following:

- pREP4: Hygromycin resistance.
- pREP8: Histidinol resistance.
- pREP9: G418 (neomycin) resistance.

#### Contents and Storage:

Vectors are supercoiled and provided lyophilized (-20°C). The appropriate *E. coli* stab and positive expression control are provided (RT). Vectors are guaranteed for 6 months following the date of shipment when stored correctly.

Description	Quantity	Cat. no.	Price
pREP4	20 µg	V004-50	\$200
pREP8	20 µg	V008-50	\$200
pREP9	20 µg	V009-50	\$200
Set of 3	20 µg each	V489-10	\$520



### Group II: Enhancer-Promoters

#### Description:

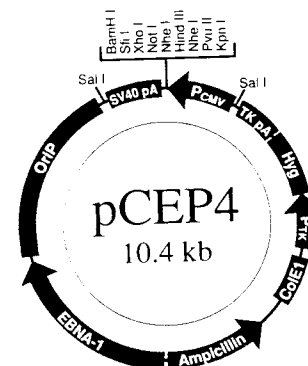
This pair of hygromycin resistant vectors offers different enhancer-promoter sequences for constitutive expression. This group includes the following:

- pREP4: Rous sarcoma virus long terminal repeat (RSV LTR) promoter.
- pCEP4: Human cytomegalovirus (CMV) immediate-early gene enhancer-promoter.

#### Contents and Storage:

Vectors are supercoiled and provided lyophilized (-20°C). The appropriate *E. coli* stab is provided (RT). Vectors are guaranteed for 6 months following the date of shipment when stored correctly.

Description	Quantity	Cat. no.	Price
pCEP4	20 µg	V044-50	\$200
pREP4	20 µg	V004-50	\$200
Set of 2	20 µg	V440-10	\$345



See polylinker sequence of pCEP4 on page 108.

#### References (for EBV vectors):

- Yates, J. L. *et al.* (1985) *Nature* **313**: 812-815.  
 Sugden, B. *et al.* (1985) *Mol. and Cell Bio.* **5**: 410-413.  
 Margolskee, R. F. *et al.* (1988) *Mol. and Cell Bio.* **8**: 2837-2847.  
 Chittenden, T. *et al.* (1989) *J. of Virology* **63**: 3016-3025.

### pREP7 and pREP10

**Description:**

These hygromycin resistant vectors have multiple cloning sites in opposite orientations for the synthesis of sense and antisense RNA transcripts from the RSV LTR promoter. The vectors produce a truncated EBNA-1 protein for growth in cell lines sensitive to EBNA-1 toxicity.

**Contents and Storage:**

Vectors are supercoiled and provided lyophilized (-20°C). The appropriate *E. coli* stab and positive expression control are provided (RT). Vector is guaranteed for 6 months.

Description	Quantity	Cat. no.	Price
pREP7	20 µg	V007-50	\$200
pREP10	20 µg	V010-50	\$200
Set of 2	20 µg each	V710-50	\$345

### Any Three EBV Vectors

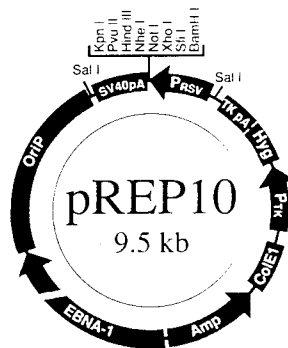
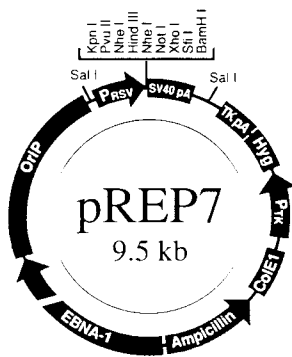
(Excluding pEBVHis)

**Description:**

Choose any three of Invitrogen's EBV vectors, including pCEP4, pREP4, pREP7, pREP8, pREP9, or pREP10 (excluding pEBVHis A, B, & C).

Description	Quantity	Cat. no.	Price
Any three vectors	20 µg each	V521-10*	\$520

\* When ordering, please specify the 3 vectors you have chosen.



### pEBVHis A, B, & C

Episomal Xpress™ Vector

**Description:**

pEBVHis is a hygromycin resistant EBV episomal vector that expresses the protein of interest fused to an N-terminal peptide. Expressed protein can be purified in one step using Invitrogen's ProBond™ nickel-chelating resin (see page 10 for details). pEBVHis A, B, & C offer the following features:

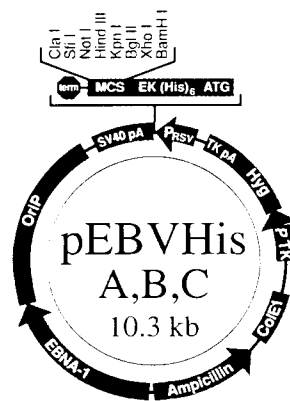
- Expression from the RSV LTR promoter.
- Fusion to an N-terminal peptide for one-step purification with ProBond™ resin.
- Multiple cloning sites in three different reading frames for insertion of the gene of interest in frame with the N-terminal peptide.

See page 9 for the complete pEBVHis Xpress™ Kit.

**Contents and Storage:**

Vectors are supercoiled and provided lyophilized (-20°C). The appropriate *E. coli* stab and positive expression control are provided (RT). Vector is guaranteed for 6 months.

Description	Quantity	Cat. no.	Price
pEBVHis A, B, & C	20 µg each	V380-20	\$275



See polylinker sequence on page 112.