

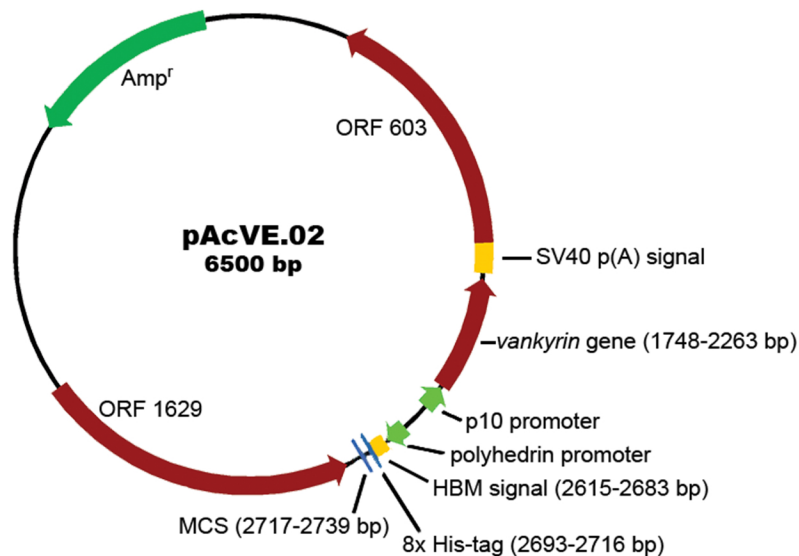
pAcVE.02 Product No. 20020 and pAcVE.03 Product No. 20030

Improve production of secreted recombinant proteins with ParaTechs' Vankyrin Enhanced (VE) baculovirus transfer vectors pAcVE.02 and pAcVE.03. Recombinant protein production is further enhanced when used in combination with ParaTechs' VE-insect cell lines (Product Nos. 10010, 10020, 10030).

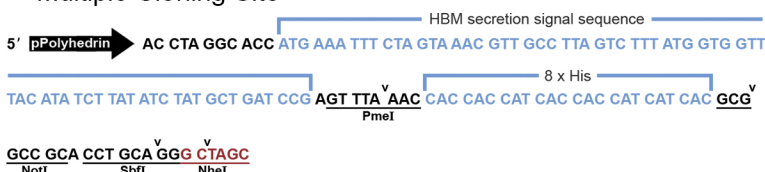
## pAcVE-Baculovirus Transfer Vectors for Secreted Proteins

### pAcVE.02

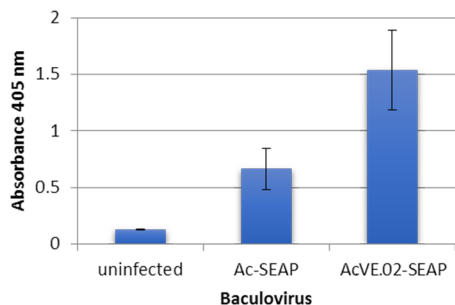
- N-terminal 8x His-tag for ease of purification
- Honey Bee Melittin (HBM) signal for direct secretion



#### Multiple Cloning Site



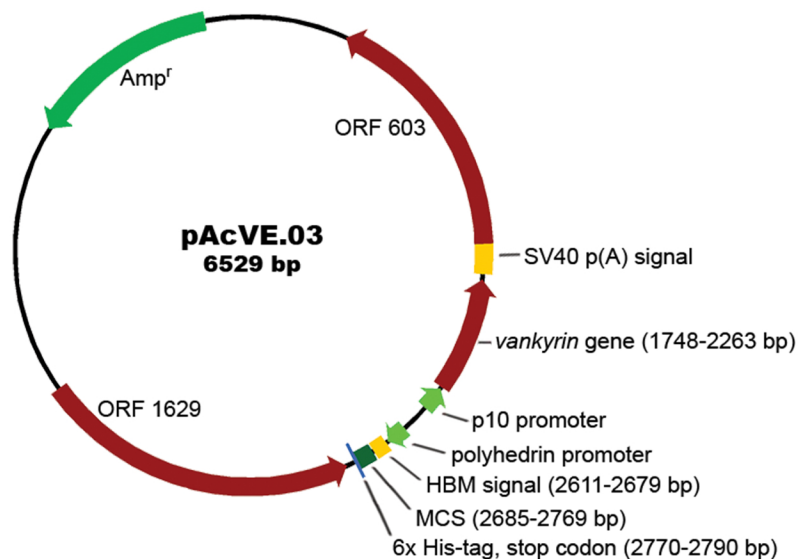
Secreted alkaline phosphatase (SEAP) activity is enhanced when expressed from pAcVE.02



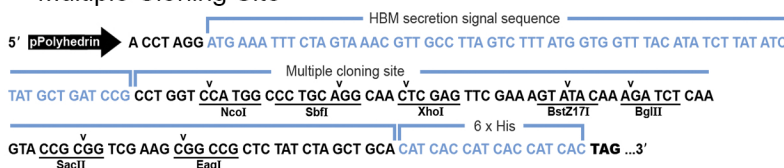
**Figure 1.** Sf9 insect cells were either infected with a conventional (Ac-SEAP) or a vankyrin-enhanced baculovirus (AcVE.02-SEAP) expressing SEAP at an MOI of 1 (5 dpi).

### pAcVE.03

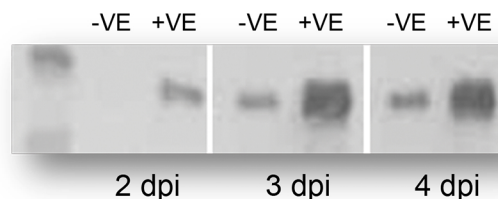
- Optional C-terminal 6x His-tag for ease of purification
- Honey Bee Melittin (HBM) signal for direct secretion



#### Multiple Cloning Site



Erythropoietin (EPO) production is enhanced when expressed from pAcVE.03



**Figure 2.** SfSWT4 insect cells were either infected with a conventional (-VE) or vankyrin-enhanced (+VE) baculovirus expressing EPO at an MOI of 5. Protein samples were collected from cell culture medium 2-4 dpi and analyzed by Western blotting.

United States Patent 7,629,160

Contract service for recombinant virus construction and protein production is available upon request.