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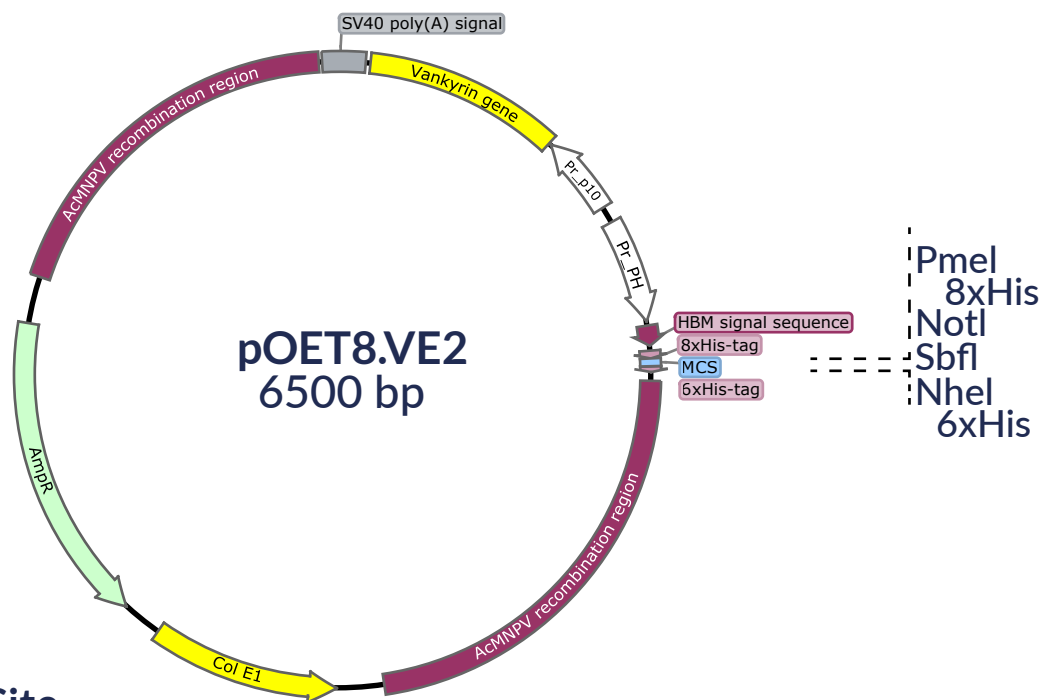
QUICK START GUIDE to pOET8 VE2

Catalogue Number	200122
Storage	Tightly capped at -20°C
Product Guarantee	1Year from the date of purchase, when properly stored and handled

pOET8.VE2 is a baculovirus transfer vector designed for high level expression of foreign genes under the powerful AcMNPV polyhedrin gene (polh) promoter (pr_PH). Derived from the pUC57 vector, it contains a vankyrin expression cassette, P-vank-11, which encodes an anti-apoptotic protein to help delay cell death following virus infection. It has a bacterial origin of replication (Col E1) and an ampicillin resistance gene (AmpR) for selection in *E. coli* whilst the polh coding sequences have been replaced by a multiple cloning site (MCS) containing unique restriction enzyme sites for insertion of the foreign gene in the correct orientation (see circular map below). The pOET8.VE2 vector features an additional Honey Bee Melittin (HBM) signal sequence to target protein secretion and an N-terminal 8xHis-tag fusion sequence to facilitate protein purification. pOET8.VE2 is compatible with any baculovirus expression system that utilizes homologous recombination in insect cells.

Reference

¹Fath-Goodin, A., Kroemer, J.A., Martin, S.B., Reeves, K., and Webb, B.A. (2006). Polydnavirus genes that enhance the Baculovirus Expression Vector System. *Advances in Virus Research*, vol. 68, pp. 75-90.



Multiple Cloning Site

HBM Signal Sequence

```
ATGAAATTCTAGTAAACGTTGCCTTAGTCTTTATGGTGGTTTACATATCTTATATC-
      |                               |           |           |
PmeI                               NotI       SbfI       NheI
TGATCCGAGTTTAAACCACCACCATCACCACCATCATCACGCGGCCGCACCTGCAGGGCTAGCA
      |-----|
      8X His-Tag
```



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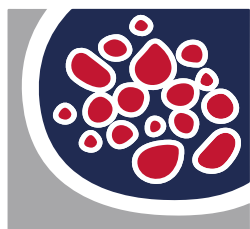
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US Patent 7,629,160

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