



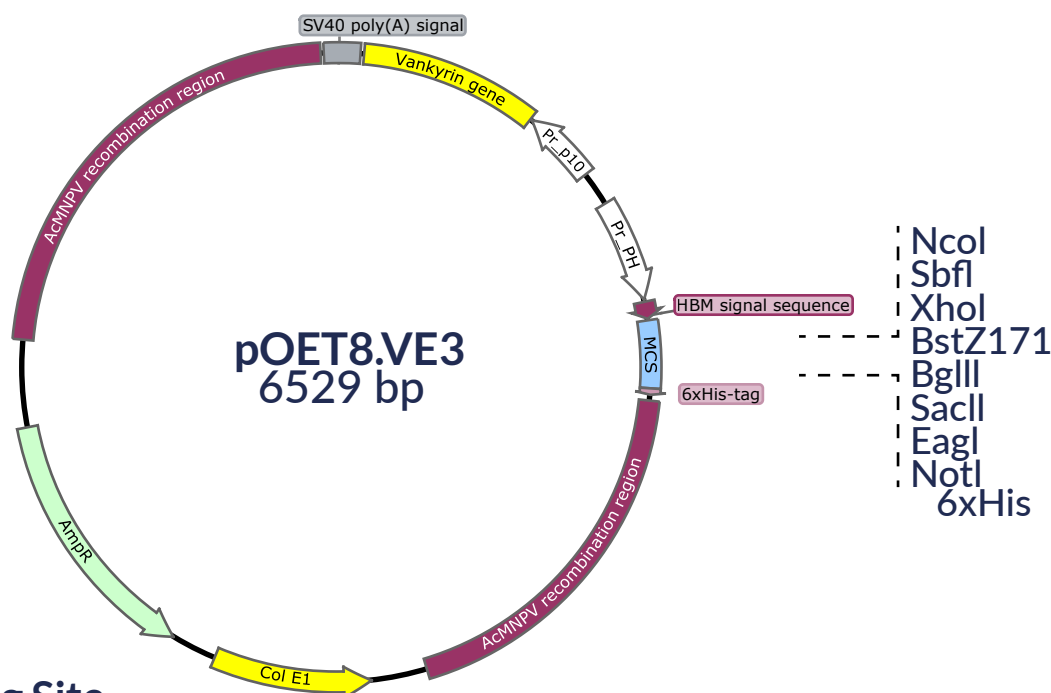
QUICK START GUIDE to pOET8 VE3

Catalogue Number	200123
Storage	Tightly capped at -20°C
Product Guarantee	1Year from the date of purchase, when properly stored and handled

pOET8.VE3 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replication (Col E1) and an ampicillin resistance gene (AmpR) for selection in *E. coli* whilst the polh sequences have been replaced by a multiple cloning site (MCS) containing unique restriction enzyme sites for insertion of the foreign gene in the correct orientation (see circular map below).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.VE3 vector features an additional Honey Bee Melittin (HBM) signal sequence to target protein secretion and a C-terminal 6xHis-tag fusion sequence to facilitate protein purification. pOET8.VE3 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

ATGAAATTTCTAGTAAACGTTGCCTTAGTCTTTATGGTGGTTTACATATCTTATATCTATGCTGATCCGCCTGG
 NcoI SbfI XhoI BstZ171 BglII SacII EagI NotI
 TCCATGGCCCTGCAGGCAACTCGAGTTCGAAAGTATACAAAGATCTCAAGTACCGCGGTCTGAAGCGGCCG

6X His-Tag

CTCTATCTAGCTGCACATCACCATCACCATCAC



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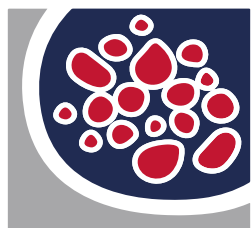
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US Patent 7,629,160

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