



QUICK START GUIDE to pOET1 Gateway™

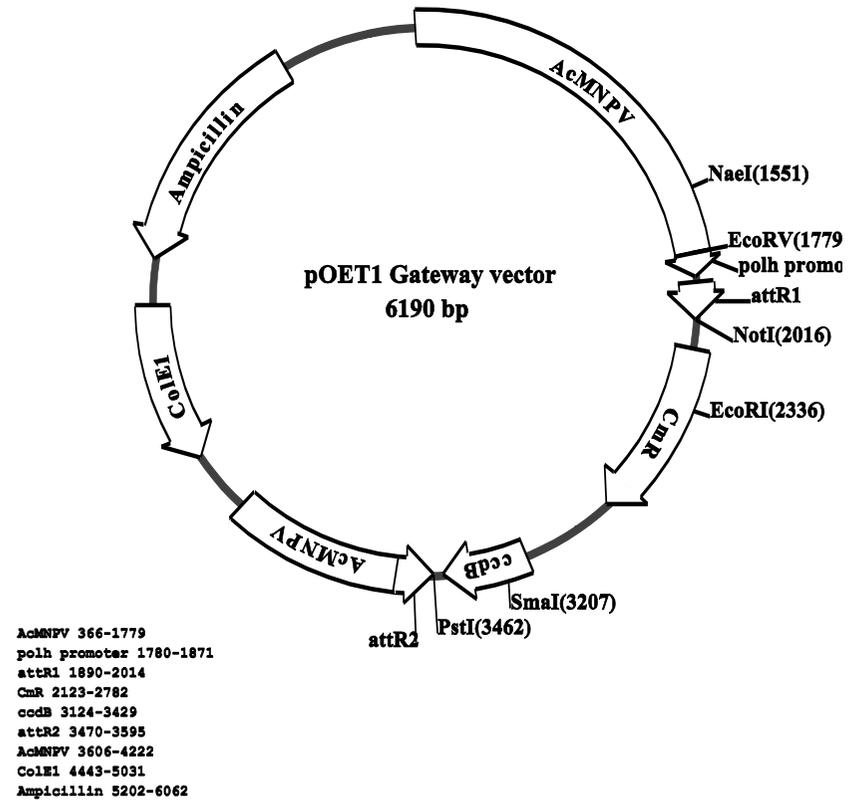
Catalogue Number	200108
Storage	Tightly capped at -20°C
Product Guarantee	1 year from the date of purchase, when properly stored and handled.

pOET1 Gateway™ Vector is a baculovirus transfer vector designed for high level expression of foreign genes under the powerful AcMNPV polyhedrin (*polh*) promoter. The *polh* sequences have been replaced by a cassette containing the *ccdB* gene (The CcdB protein inhibits growth of most *E. coli* strains by interfering with DNA gyrase (Bernard and Couturier, 1992)) and chloramphenicol resistance gene between two different *attR* sites, which enables LR recombination to replace the cassette with the gene of interest from an entry vector in the correct orientation. It also contains a bacterial origin of replication and an ampicillin resistance gene for selection in *E. coli* (*E. coli* strain must be resistant to CcdB effects, such as DB3.1™). The AcMNPV sequences flanking the gene in the transfer vector's MCS allow recombination with the viral DNA to insert the expression cassette into the *polh* locus.

pOET1 Gateway™ Vector is compatible with any baculovirus system that utilizes homologous recombination in insect cells.

Reference:

Bernard, P., and Couturier, M. (1992). Cell Killing by the F Plasmid CcdB Protein Involves Poisoning of DNA-Topoisomerase II Complexes. *J. Mol. Biol.* 226, 735-745.



Keep up to date with our online tips on our OETips webpages and our OETips blog (www.oetltd.wordpress.com).

Experiencing any troubles? Please feel free to contact our staff at info@oetltd.com and we would be happy to help however we can.



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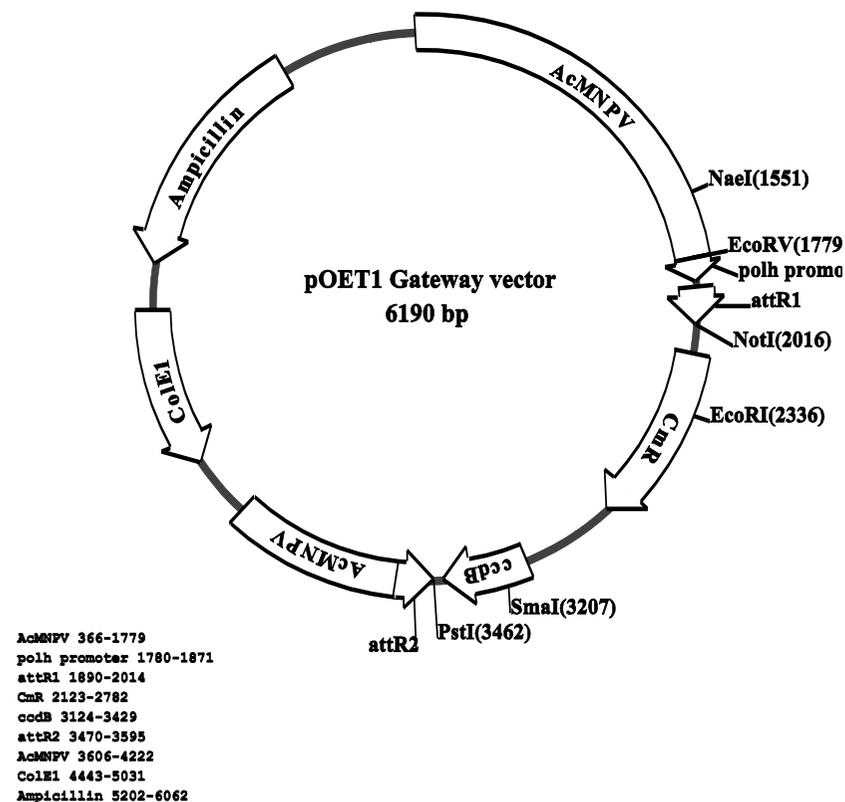
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