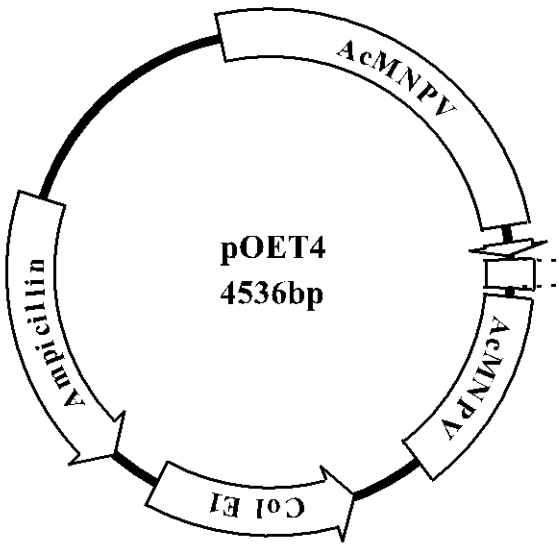
pOET4™

Transfer Vector Product Information

OXFORD EXPRESSION TECHNOLOGIES

pOET4 is a baculovirus transfer vector designed for high level expression of foreign genes under the late AcMNPV basic (*p6.9*) promoter. Using this promoter will provide earlier expression compared to the polyhedrin promoter. This has been shown to be beneficial when expressing proteins which require extensive post-translational modifications i.e. glycosylation. The vector is smaller than other available transfer vectors (4536bp) which greatly facilitate the cloning steps. It has a bacterial origin of replication and an ampicillin resistance gene for selection in *E. coli*. The AcMNPV sequences flanking the gene in the transfer vectors MCS allow recombination with the viral DNA to insert the expression cassette into the polyhedrin locus. The polyhedrin sequences have been replaced by a multiple cloning site containing unique restriction sites for insertion of the foreign gene in the correct orientation. pOET4 is compatible with any baculovirus system that utilizes homologous recombination in insect cells.

AcMNPV 623-1769
p6.9 1823-1863
MCS 1869-1956
AcMNPV 1984-2568
Col E1 2774-3393
Ampicillin 3548-4408



BglII
BseX3I
EagI
NotI
SacII
Asp718I
KpnI
XhoI
SacI
EcoRI
PstI
XmaI
SmaI
ApaI
SalI
XbaI
HindIII
BamHI
PacI

Multiple Cloning Site - 1869 to 1956

```
                  |NotI        |XhoI
                  |EagI   |Asp718I                    |SmaI
                  |BseX3I     |KpnI        |EcoRI      |XmaI       |SalI       |HindIII
           |BglII        |SacII          |SacI       |PstI       |ApaI    |XbaI       |BamHI
1869       AGATCTGCGGCCGCGGTACCTCGAGAGCTCGAATTCTGCAGCCCGGGGGCCCGTCGACTCTAGAAGCTTGGATCC
             D  L  R  P  R  Y  L  E  S  S  N  S  A  A  R  G  P  V  D  S  R  S  L  D  P
                |PacI
1944       TTAATTAATAAAA
             Z  L  I  K
```