

pACYC177

3,941 base pairs
GenBank Accession #: X06402

pACYC177 is available as a transformant of ER2420 (#E4151S) at no charge when shipped with an order or for the cost of shipping if ordered separately.

pACYC177 is an *E. coli* plasmid cloning vector containing the p15A origin of replication (1-4). This allows pACYC177 to coexist in cells with plasmids of the ColE1 compatibility group (e.g., pBR322, pUC19). It is a low copy number vector, at about 15 copies per cell (5), but can be amplified with chloramphenicol or spectinomycin.

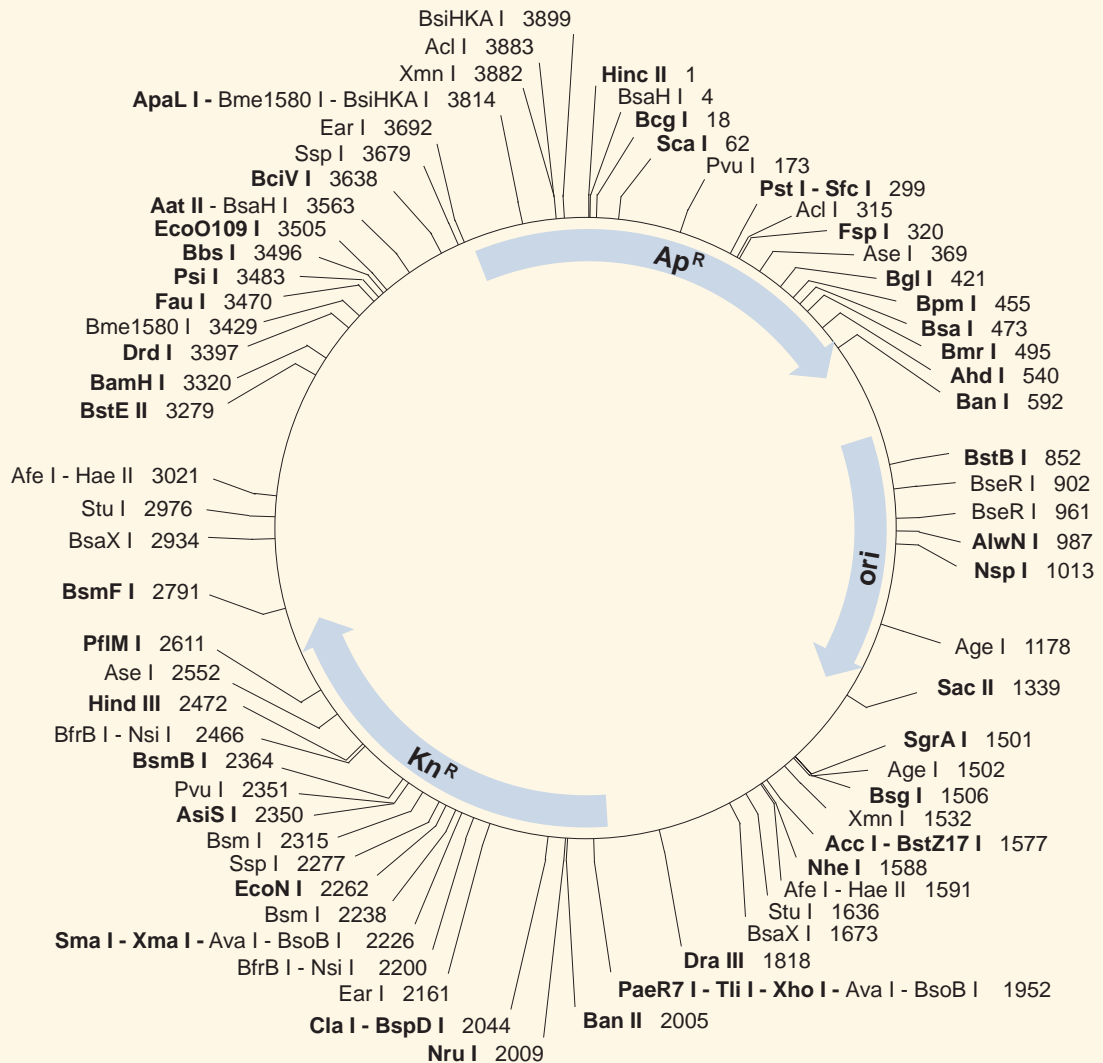
Enzymes with unique restriction sites are shown in **bold** type and enzymes with two restriction sites are shown in regular type. The accompanying table shows restriction sites of those enzymes that cut a moderate number of times. Restriction site coordinates refer to the position of the 5'-most base on the top strand in each recognition sequence.

Open reading frame (ORF) coordinates are in the form "translational start – translational stop"; numbers refer to positions on the top (clockwise) strand, regardless of the direction of transcription and include the start and stop codons.

Origin of replication coordinates include the region from the -35 promoter sequence of the RNAll transcript to the RNA/DNA switch point. *bla* (Ap^R) gene coordinates include the signal sequence.

Feature	Coordinates	Source
<i>bla</i> (Ap ^R)	3699-618 (cw)	<i>Tn3</i>
<i>aph</i> (3')- <i>la</i> (Kn ^R)	1923-2738	<i>Tn903</i>
origin	783-1328	p15A

ori = origin of replication
Ap = ampicillin, Kn = kanamycin
(cw) = clockwise



References

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- Rose, R.E. *Nucleic Acids Res.* 16 (1988) 356.
- Mok, Y.K., Clark, D.R., Kam, K.M., and Shaw, P.C. (1991) *Nucleic Acids Res.* 19, 2321–2323.
- Selzer, G., Som, T., Itoh, T., and Tomizawa, J.-i. (1983) *Cell* 32, 119–129.
- Sambrook, J., Fritsch, E.F., and Maniatis, T. (1989) *Molecular Cloning: A Laboratory Manual*, 2nd ed. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York.