

# Product Information Sheet

Order: # V32402

## Cloning Vector pACYC184

### SUMMARY

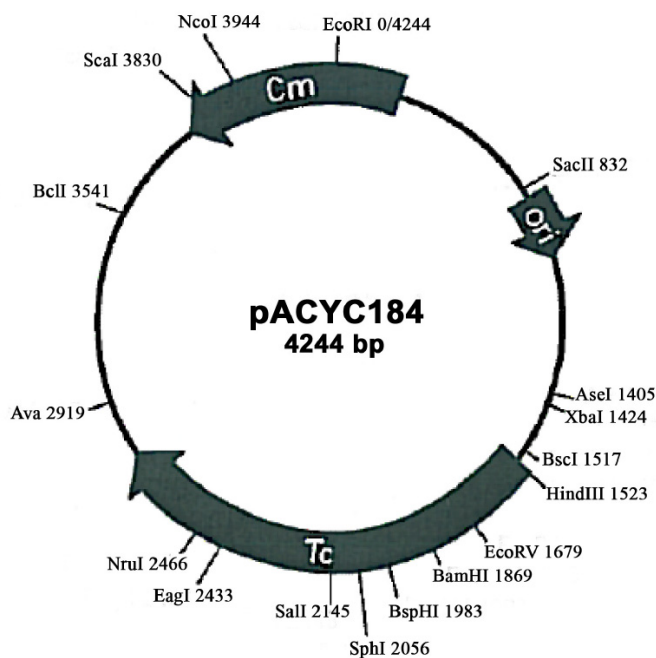
shipped on blue ice; store at -20 °C

### Product Description and Application

pACYC184 can be used together with, or as an alternative multipurpose vector, to pBR322. The origin of replication of pACYC184 is derived from the miniplasmid p15A1, whereas that of pBR322 and its derivatives is from pColE. These origins are compatible and pACYC184 and pBR322 can therefore co-exist in the same cell. This allows two recombinant plasmids to be maintained and expressed simultaneously.

The vector DNA is highly purified by ion exchange chromatography, cesium chloride density centrifugation and gel filtration. Our DNA preparations yield DNA with over 80% supercoiling. Therefore, the plasmid DNA is ready-to-use for enzymatic reactions and transformations.

### Vector Map



**Cm<sup>R</sup>**: chloramphenicol resistance  
**Tc<sup>R</sup>**: tetracycline resistance  
**ori**: p15A1 origin of replication

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### Quality Control & Technical Details

Protein contamination is monitored by measuring the ratio of absorbance at 260 and 280 nm. All preparations must have  $A_{260}/A_{230}$  greater than 1.8, indicating essentially protein-free DNA.

The absence of nuclease activity is measured by incubating plasmid DNA in restriction buffer for 16 hours. No DNA degradation should be observed.

The DNA's suitability for enzymatic manipulation is tested by restriction with a variety of endonucleases.

The correct banding pattern is confirmed by agarose gel electrophoresis.

The transformation efficiency of the plasmid DNA is measured and antibiotic resistance and blue/ white selection is also confirmed.

During storage at 4 °C, plasmid DNA will slowly convert from supercoiled to relaxed circles. Although this will not affect restriction, transformation efficiency will drop.

For long-term storage keep at -20 °C. If multiple freeze-thawing cycles are likely to occur, dispense small volumes into sterile tubes and store at -20 °C.

The plasmid DNA is supplied in TE buffer (10 mM Tris-HCl, pH 8.0, 1 mM EDTA).

### References

Chang, A.C.Y. and Cohen, S.N., *J. Bacteriology*, 134 (1978) 1141 - 1156

### Order Information, Shipping and Storage

Order#	Product	Quantity
V32402	pACY184 Vector DNA	25 µg
shipped on blue ice; store at -20 °C		

### Contact and Support

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