

# pCambia2300 Plant Expression Vector

---

## Key facts

Target	pCambia2300
Form	Lyophilized
Storage buffer	Constituents: 71% Tris, 17% EDTA

---

## Target data

[See full target information pCambia2300](#) 

---

## Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	-20°C
Appropriate long-term storage conditions	-20°C

---

## Notes

Vector contains genes for bacterial and plant selection with kanamycin and and no reporter gene to allow construction of user's own system.

The pCambia2300 vector offers:

High copy number in *E.coli* for high DNA yields

pVS1 replicon for high stability in *Agrobacterium*

Small size

Restriction sites designed for modular plasmid modifications and small but adequate poly-linkers for introducing your DNA of interest

Bacterial selection with kanamycin

Plant selection with kanamycin

Plant selection genes in the pCambia vectors are driven by a double-enhancer version of the CaMV<sub>35S</sub> promoter and terminated by the CaMV<sub>35S</sub> polyA signal.

This vector contains minimal heterologous sequences for plant transformation and selection of transformants, allowing insertion of desired genes for transformation into plants but require all promoter and terminator sequences for plant expression of newly cloned genes.

The pUC18 polylinker within the *lacZα* fragment allows blue/white screening of clones in *E.coli* cloning work.

Genbank Sequence data

### Concentration of Antibiotics for selection.

In bacterial system:

Kanamycin resistance (*aphIII/nptIII/3'5''*-aminoglycoside phosphotransferase typeIII from *Enterococcus faecalis* pJH1) in bacteria: use 50 µg/mL in *E.coli* and *A.tumefaciens*.

In plant system:

Resistance Gene	<i>nptII/aph(3')II</i> from Tn5
-----------------	---------------------------------

Transformed plant selection antibiotic	Kanamycin
--	-----------

Concentration in <i>Arabidopsis</i>	20 - 50 µg/mL
-------------------------------------	---------------

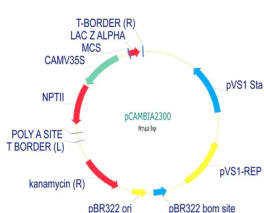
## Product promise

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:  
Terms & Conditions.

## 1 product image



### Vector - pCambia2300 Plant Expression Vector (ab275758)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.