

STOCK #: P-322

SOURCE ORGANISM: *C. reinhardtii* CC-2534

INSERT: chloroplast DNA EcoRI-XhoI (5.7 kb)

GENES PRESENT: *psbA* (intron 4, exon 5); 5S rRNA, 23S rRNA (3' end)

VECTOR: BSKS+

HOST STRAIN: JM109

SELECTION: amp-r, white on X-gal

SOURCE: Newman, 1/91

COMMENTS: CC-2534 = *DCMU-4 er-u-1a*. DCMU-4 mutation in 5th exon of *C. reinhardtii psbA* gene causes ser -> ala change at aa 264 D1 protein, conferring resistance to DCMU and atrazine; *er-u-1a* mutation is C ->T change at bp 2622 in *C. reinhardtii* 23S rRNA (Lemieux numbering, equivalent to *E. coli* 2611), conferring resistance to erythromycin.

