

pSRSapI

Cat. No. ALRK-03422

Lot. No. (See product label)

Description

pSRSapI is a vector for expressing transgenes in the *C. reinhardtii* chloroplast. The transgene should be inserted into the expression site using SapI and SphI restriction enzymes. It will then be flanked by the *C. reinhardtii* *psaA* exon 1 promoter and 5' UTR (perfect scarless fusion at the ATG start codon) and the *C. reinhardtii* *rbcL* 3' UTR. The external flanking regions in the construct include an intact *psbH* gene and target the expression cassette downstream of *psbH* by homologous recombination. Ampicillin selection in *E. coli*. Minimal medium for restoration of *psbH* gene in *C. reinhardtii*, selecting for phototrophic growth. The recipient cell line must therefore be a *psbH* mutant such as MUT-5168 cw15 Δ *psbH* [strain TN72].

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY