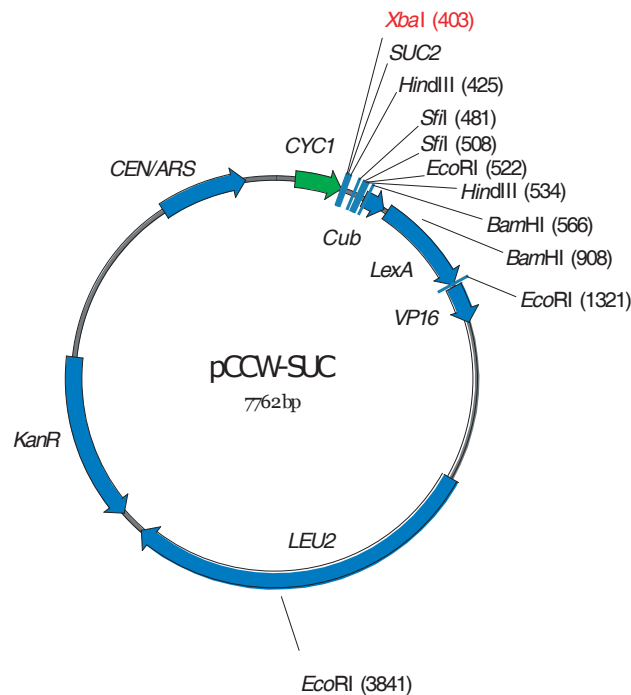


Vector Information Sheet ☐ ☐ pCCW-SUC

The plasmid pCCW-SUC is a yeast - E. coli shuttle vector that is used to express cDNAs as N-terminal fusions to the reporter module Cub-LexA-VP16 for use in the DUALmembrane system. pCCW-SUC carries an N-terminal signal sequence derived from the *Saccharomyces cerevisiae* invertase (SUC2) gene. The SUC2 sequence acts as a cleavable type I signal sequence and facilitates expression and translocation of type I integral membrane proteins in yeast.



Multiple cloning site

```

                Sfi I                               Sfi I           Pst I
tct gca atg gcc att acg gcc agg cct tta att aag gcc gcc tcg gcc atc tgc agg aat tcg
Ser Ala Met Ala Ile Thr Ala Arg Pro Leu Ile Lys Ala Ala Ser Ala Ile Cys Arg Asn Ser
----->
SUC2 leader
    
```

```

                Hind III
ata tca agc tta tcg ata ccg tcg acc atg tcg ggg
Ile Ser Ser Leu Ser Ile Pro Ser Thr Met Ser Gly
----->
Cub
    
```

Vector features

- ☐ CYC1p ☐ CYC1 promoter (nt 112-402)
- ☐ SUC2 ☐ SUC2 signal sequence (nt 411-473)
- ☐ Cub ☐ Amino acids 34-76 of yeast ubiquitin (nt 555-689) ☐
- ☐ LexA ☐ Amino acids 1-200 of LexA (nt 714-1325)
- ☐ VP16 ☐ Herpes simplex VP16 transactivator (nt 1338-1574)
- ☐ LEU2 ☐ *S. cerevisiae* LEU2 gene for auxotrophic selection in yeast (nt 2565-4775)
- ☐ Kan ☐ Kanamycine resistance gene (nt 4924-5957) ☐
- ☐ CEN/ARS ☐ Origin of replication. Allows propagation of plasmids in yeast at low copy numbers (1-2 copies/cell, nt 7039-7578)
- ☐