

Yeast Signal Peptide Detection Vector Kit

Catalog Number

RY8015

Storage:

Transport at Room Temperature.

After the primers are dissolved and stored at 4°C.

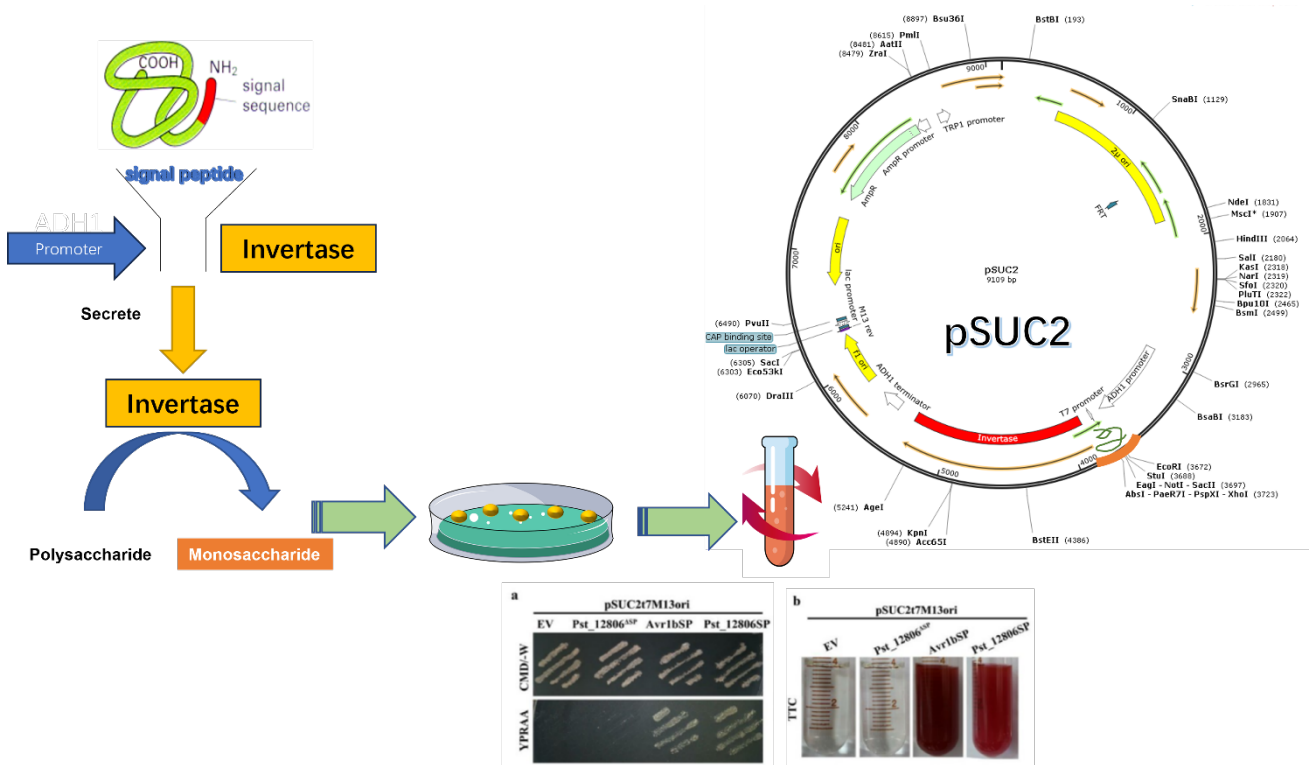
It is recommended to activate the strain on YPDA medium immediately upon receipt.

For long-term storage, it is recommended to prepare a glycerol stock (in 15% glycerol) for the activated strain and store at -80°C.

Store Plasmid at -20°C for long-term storage.

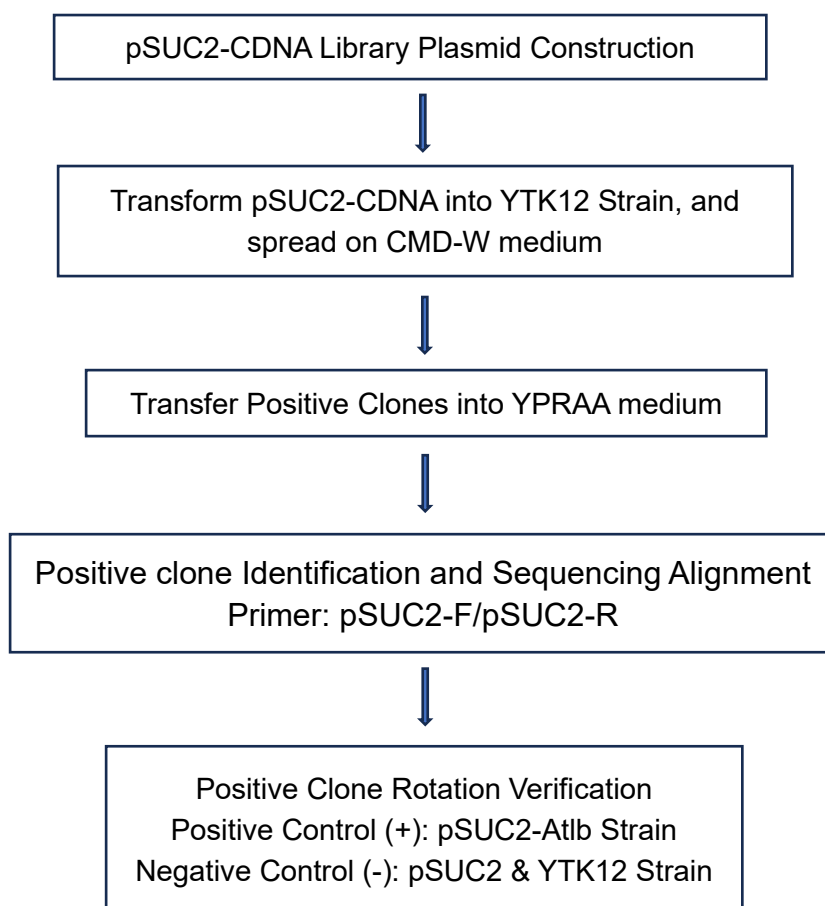
Product Description

Currently, the most widely used method for prediction of signal peptide from amino acid sequences is to use software SignalP (Petersen et al., 2011). Yeast signal sequence trap (YSST) is a method that can be used to evaluate the function of predicted signal peptides. This method utilizes the yeast *Saccharomyces cerevisiae* YTK12 strain and pSUC2 vector in which the pSUC2 vector with fused predicted signal peptide is transformed into yeast. The yeast YTK12 strain is invertase negative and pSUC2 vector contains invertase gene but lack Methionine (Met) and signal peptide sequence, thus YTK12 strain and pSUC2 vector were widely used for biological evaluation of peptide secretion (Jacobs et al., 1997; Oh et al., 2009). The function of the signal peptides can be evaluated by using different selective media and color reaction (e.g., TTC).



Components

Components	Forms	Size
YTK12 Strain	Solid culture medium	One plate (diameter: 9 cm)
pSUC2 Plasmid	Liquid	2 ug (20ul,100ng/ul)
pSUC2-Avr1b Plasmid (Positive control)	Liquid	2 ug (20ul,100ng/ul)
pSUC2-F	Lyophilized powder	2OD
pSUC2-R	Lyophilized powder	2OD

Experiment Process

Related products:

Yeast Colony Rapid Detection Kit

Catalog No.: RY8001