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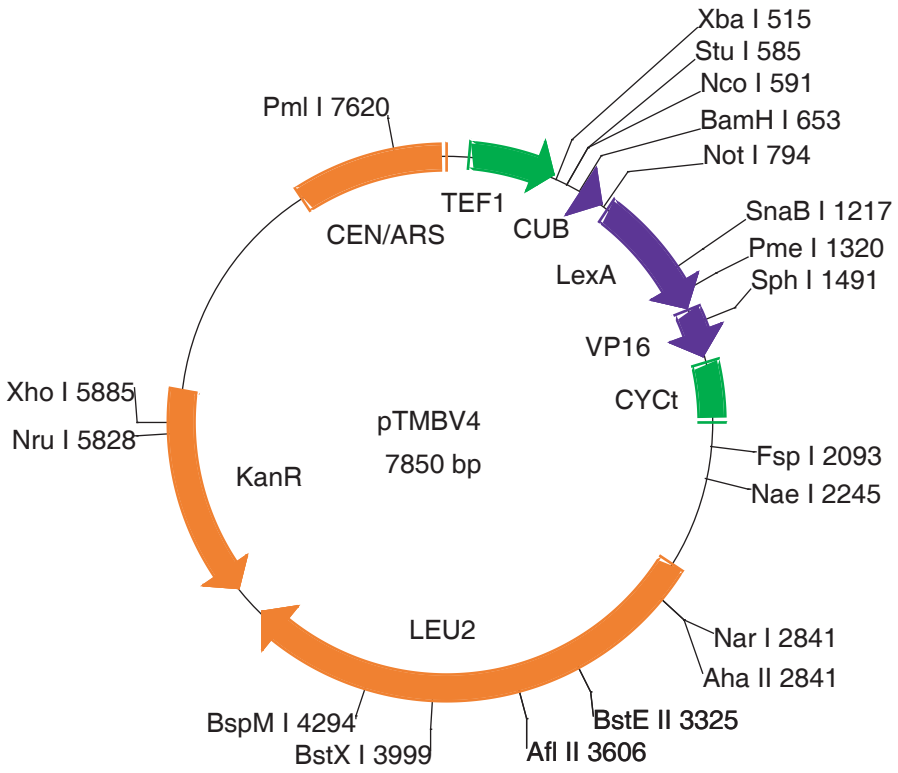
Vector Information Sheet pTMBV4

The plasmid pTMBV4 is a yeast - E. coli shuttle vector that is used to express cDNAs as fusions to the reporter module Cub-LexA-VP16 for use in the DUALmembrane system.



Multiple cloning site

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Xba I           Sfi I                                                          Sfi I
TC TAG ACG GCC ATT ACG GCC AAA CTC GCT CGC CCG GGC CGA ACC AGT GGC TGC AGG GCC GCC TCG GCC AAA

Stu I   Nco I
GGC CTC CAT GGG TAT ATC TGC AGG AAT TCG ATA TCA AGC TTA TCG ATA CCG TCG ACC ATG ---> Cub
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Xba I, Stu I, and Nco I are unique and can be used to insert cDNAs into pTMBV4. Sfi I sites are marked in red.

Vector features

TEFp	TEF1 promoter (nt 107-515)
Cub	Amino acids 34-76 of yeast ubiquitin (nt 643-778)
LexA	Amino acids 1-200 of LexA (nt 802-1408)
VP16	Herpes simplex VP16 transactivator (nt 1425-1663)
CYC1t	S. cerevisiae CYC1 terminator (nt 1680-1917)
LEU2	S. cerevisiae LEU2 gene for auxotrophic selection in yeast (nt 2653-4863)
CEN/ARS	Origin of replication. Allows propagation of plasmids in yeast at low copy numbers (1-2 copies/cell, nt 7127-7665)
Kan	Kanamycine resistance gene (nt 5012-6044)

The complete sequence of pTMBV4 can be downloaded from http://www.dualsystems.com or can be obtained by sending a request to support@dualsystems.com.