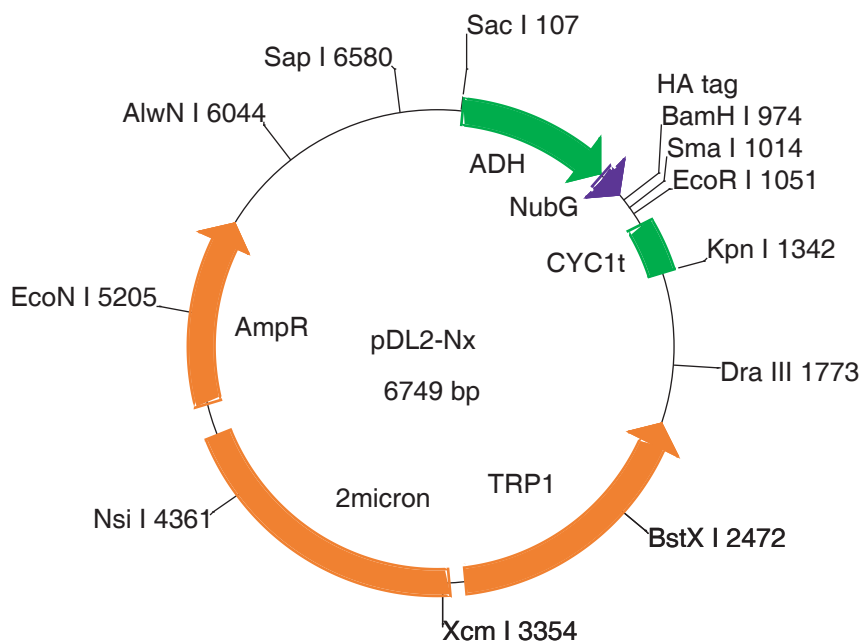


Vector Information Sheet ☐ ☐ pDL2-Nx

The plasmid pDL2-Nx is a yeast - E. coli shuttle vector that is used to express cDNAs as fusions to NubG for use in the DUALmembrane system.



Multiple cloning site

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      HA epitope tag          BamH I          Sfi I  Sma I
CCA TAC CCA TAC GAT GTT CCA GAT TAC GCT GGA TCC AAG CAG TGG TAT CAA CGC AGA GTG GCC ATT ACG GCC
      P   Y   P   Y   D   V   P   D   Y   A   G   S   K   Q   W   Y   Q   R   R   V   A   I   T   A

      Sfi I          EcoR I          Sal I
CGG GAA AAA ACA TGT CGG CCG CCT CGG CCT CTC GAG AAT TCG ATA TCA AGC TTA TCG ATA CCG TCG
      R   E   K   T   C   R   P   P   R   P   L   E   N   S   I   S   S   L   S   I   P   S
  
```

BamH I, Sma I, EcoR I, and Sal I are unique and can be used to insert cDNAs into pDL2-Nx. Sfi I sites are marked in red.

Vector features

- ADH☐ *S. cerevisiae* truncated ADH1 promoter (nt 107-820)
- NubG☐ Amino acids 1-38 of yeast ubiquitin (nt 827-965)
- HA tag☐ HA epitope tag (nt 944-970)
- CYC1t☐ *S. cerevisiae* CYC1 terminator (nt 1104-1342)
- TRP1☐ *S. cerevisiae* TRP1 gene for auxotrophic selection in yeast (nt 2053-3246)
- 2micron☐ Origin of replication derived from the endogenous yeast 2m circle. Allows propagation of plasmids in yeast at high copy numbers (10-50 copies/cell, nt 3310-4657)
- AmpR☐ Ampicillin resistance gene (nt 4790-5648)

The complete sequence of pDL2-Nx can be downloaded from <http://www.dualsystems.com> or can be obtained by sending a request to support@dualsystems.com.