**pNEB206A Linearized Vector**

**N5502S**

**Source:** pNEB206A is isolated from *E. coli* by a standard purification procedure, digested to completion with Xba I and nicked with N.BbvC IB. The DNA is phenol extracted and resuspended in 10 mM Tris-HCl (pH 8.0), 1 mM EDTA.

Supplied in: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA.

**Quality Control Assays**
A standard USER reaction was performed as described in Appendix V of the USER Friendly Cloning Kit (NEB #E5500) manual (20 ng linearized pNEB206A, 1 µl USER Enzyme and 10 µl (100 ng) of a 950 bp control PCR product amplified using Taq DNA Polymerase and primers containing uracil, designed as recommended in the USER Friendly cloning Kit manual). After transformation into chemically-competent cells (NEB #ER2267 at 5 x 10^6 c.f.u./µg pNEB206A), 50 µl of the 1 ml outgrowth was spread on Amp + Xgal + IPTG plates. A minimum of 200 colonies were obtained and > 90% of these were white (i.e., contained recombinant molecules).

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