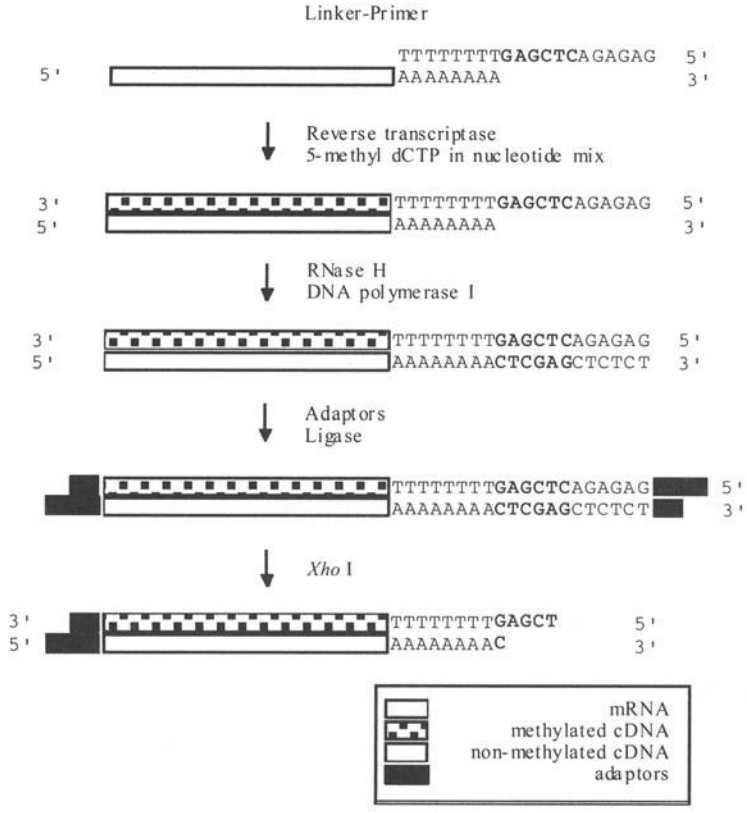

Fig. 2. Directional cloning strategy.

5. 3*M* Sodium acetate.
6. 100% (v/v) Ethanol.

2.4. Ligating the Adaptors

1. 70% (v/v) Ethanol.
2. Adaptors (4 μg at 0.4 μg/μL).
3. 5% Nondenaturing acrylamide gel.
4. 10X Ligation buffer: 500 m*M* Tris-HCl, pH 7.4, 100 m*M* $MgCl_2$, 10 m*M* dithiothreitol (DTT).
5. 10 m*M* rATP.
6. T4 DNA ligase (4 Weiss U).

2.5. Phosphorylating the Adaptors

1. 10X Ligation buffer (*see* **Subheading 2.4., item 4**).
2. 10 m*M* rATP.
3. T4 polynucleotide kinase (10 U).