2D-PAGE as an effective method of RNA degradome analysis

Martyna Nowacka[1], Paulina Jackowiak[1], Agnieszka Rybarczyk[2], Tomasz Magacz[1],

Pawel M. Strozycki[1], Jan Barciszewski[1], Marek Figlerowicz[1,2 *]

[1]Institute of Bioorganic Chemistry Polish Academy of Sciences, Noskowskiego 12/14, 61-704 Poznan, Poland

[2]Institute of Computing Science, Poznan University of Technology, Piotrowo 3A, 60-965 Poznan, Poland

* Corresponding author
Prof. Marek Figlerowicz
Institute of Bioorganic Chemistry
Polish Academy of Sciences
Noskowskiego 12/14
61-704 Poznan, Poland
e-mail: marekf@ibch.poznan.pl

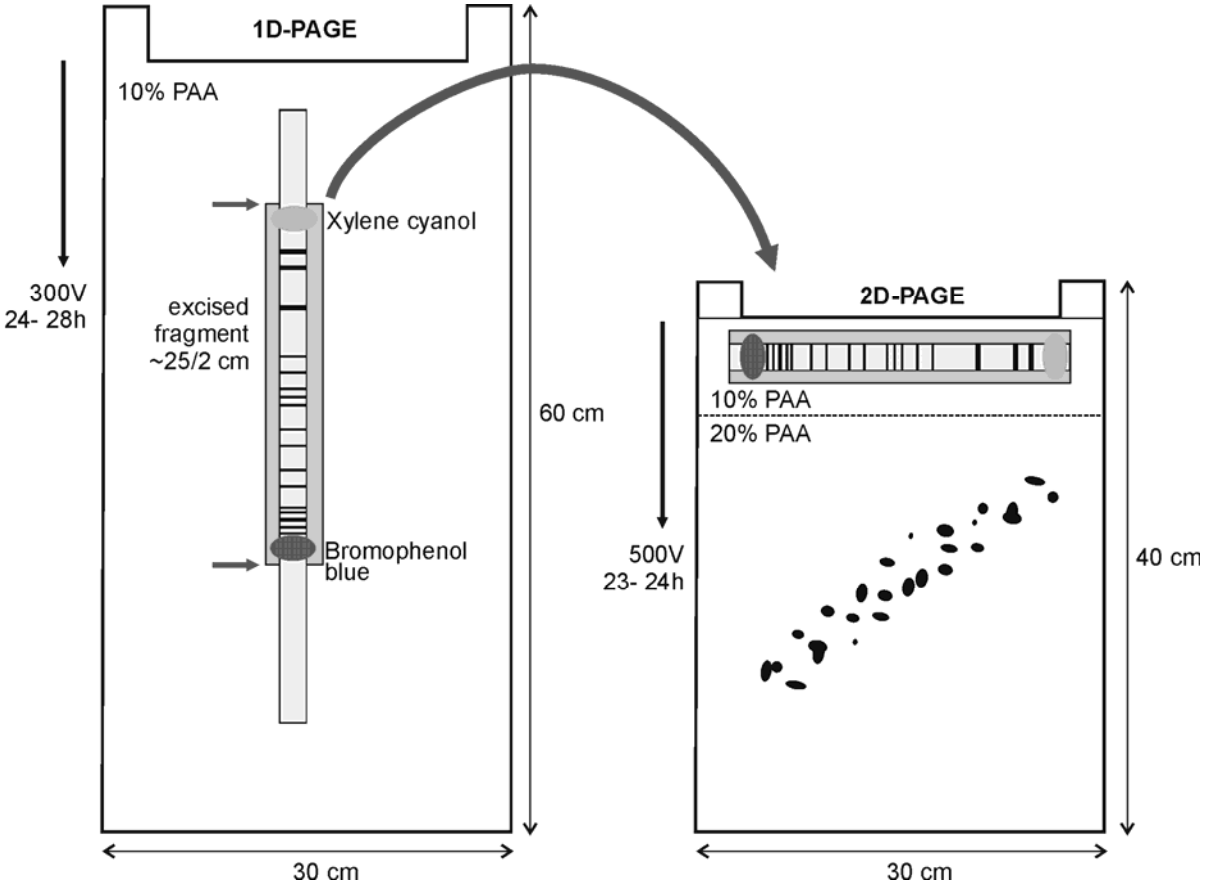

Fig 1 2D-PAGE of short RNAs. After 1D-PAGE, the ~25x2,5 cm gel slice (a fragment located between two dyes, bromophenol blue and xylene cyanol) containing ~12-120 nt RNAs is excised and transferred to a new electrophoresis glass. Subsequently 2D-PAGE is performed. Directions of first dimension electrophoresis (1D) and second dimension electrophoresis (2D) are indicated by black arrows

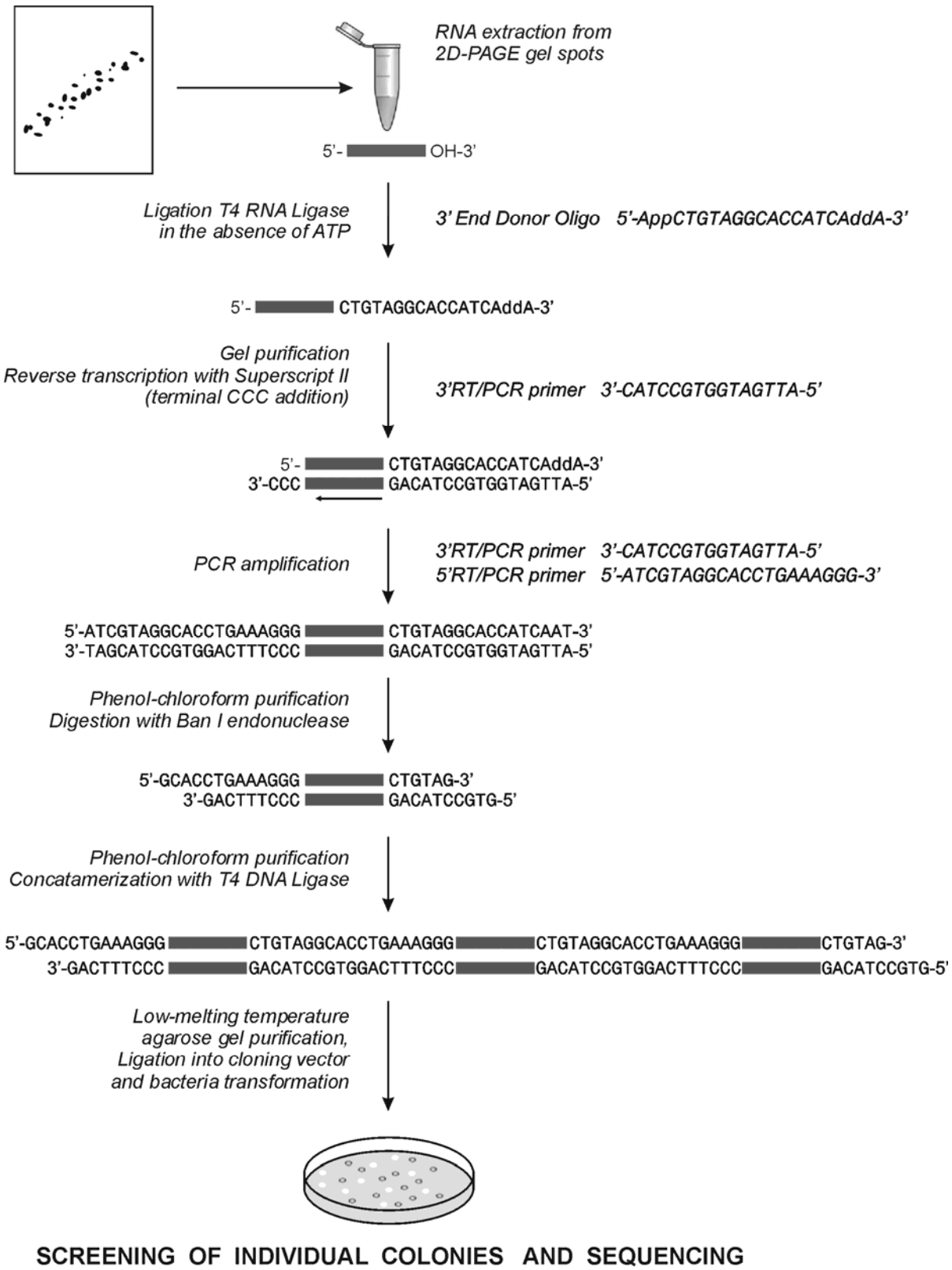

Fig. 2 Schematic description of the short RNA cloning procedure (see text for details)