DNA Microarray Hybridization：

◎*Materials and Reagents*

2% SDS - dilute from 10% SDS stock - Life Technologies Cat. 15553-027

yeast tRNA (2 μg/μl)

Printed and processed array slides

Lifterslip

3X SSC, dilute from 20X SSC – Invitrogen Cat. 15557-036

Hybridization chambers

Wheaton slide rack – Wheaton Cat. 900234

Wheaton staining dish – Wheaton Cat. 900204

Wash solutions (listed in the protocol below)

Water

1. Add to the 44.28 μl labeled cDNAs

yeast tRNA (2 μg/μl)	6.23 μl
20X SSC	12.60 μl
2% SDS	11.90 μl

2. Set slide in hybridization chamber.

3. Clean a Lifterslip with EtOH and Kimwipes. Place slip on array using either fingers or forceps.

4. Heat denature for 90 sec at 100℃.

5. Spin at maximum speed for 2 min to get rid of any dust particles.

6. Slowly inject the probe without capturing air bubbles under one corner of the Lifterslip until the array surface is covered.

7. Pipet 3 drops of 15 µL 3X SSC each onto the lower edge of the slide.

8. Tightly screw down chamber lid and carefully place chamber in a 65°C water bath. Let hybridize for 16 hrs.