



# 1st BASE MBS Crossword Puzzle

Be the **first 30** to answer our series of 3 puzzles correctly and receive a **SGD 20** or **RM 40 Starbucks Card**.

Complete and email your entries to [mbs@base-asia.com](mailto:mbs@base-asia.com), along with *full name, email address, contact number and mailing address*. One entry per person please.



## DNA / RNA Preparation and Analysis Services

Simplify your **sample preparation steps** with our DNA and RNA Preparation Services which include

- Genomic DNA Extraction
- DNA Digestion
- Dephosphorylation or Blunting of DNA fragments
- Reverse Transcription PCR (RT-PCR)
- DNA Shearing by sonication and subsequent purification
- DNA and RNA LabChip Analysis

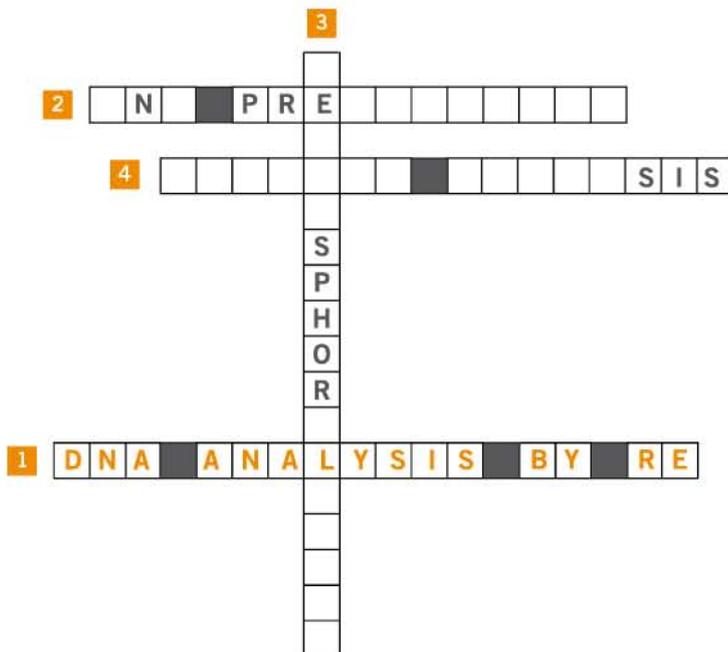


For **other sample prep or analysis services**, do not hesitate to contact our **Custom Research Services**. To find out more, visit [www.base-asia.com/molecular\\_biology\\_services/](http://www.base-asia.com/molecular_biology_services/).

### Clues

- 1 A sample is first digested with the restriction enzyme to generate DNA fragments, and then the different sized fragments separated by gel electrophoresis. The number of bands reveals the sample subject's genotype, an example of restriction mapping. (An example)
- 2 A routine procedure to extract DNA from proteins, lipids and other cell components from cells using its biochemical properties
- 3 \_\_\_\_\_ of DNA vector removes the 5' phosphate group on linearised vector DNA to prevent them from recircularising during the ligation step when cloning your DNA of interest.
- 4 DNA / RNA \_\_\_\_\_ utilizes Lab-on-a-Chip technology for improved analytical precision and analysis time, minimizes manual intervention, and reduces amount of samples needed for the analysis of precious DNA / RNA samples.

### Puzzle 1 of 3



Catch our next MBS Crossword Puzzles out on 6 and 27 June 2012! Closing date for submission: **Friday, 6 July 2012**.

Results released on [www.base-asia.com](http://www.base-asia.com) after Monday, 9 July. Valid for customers located in **Singapore and Malaysia** only.

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