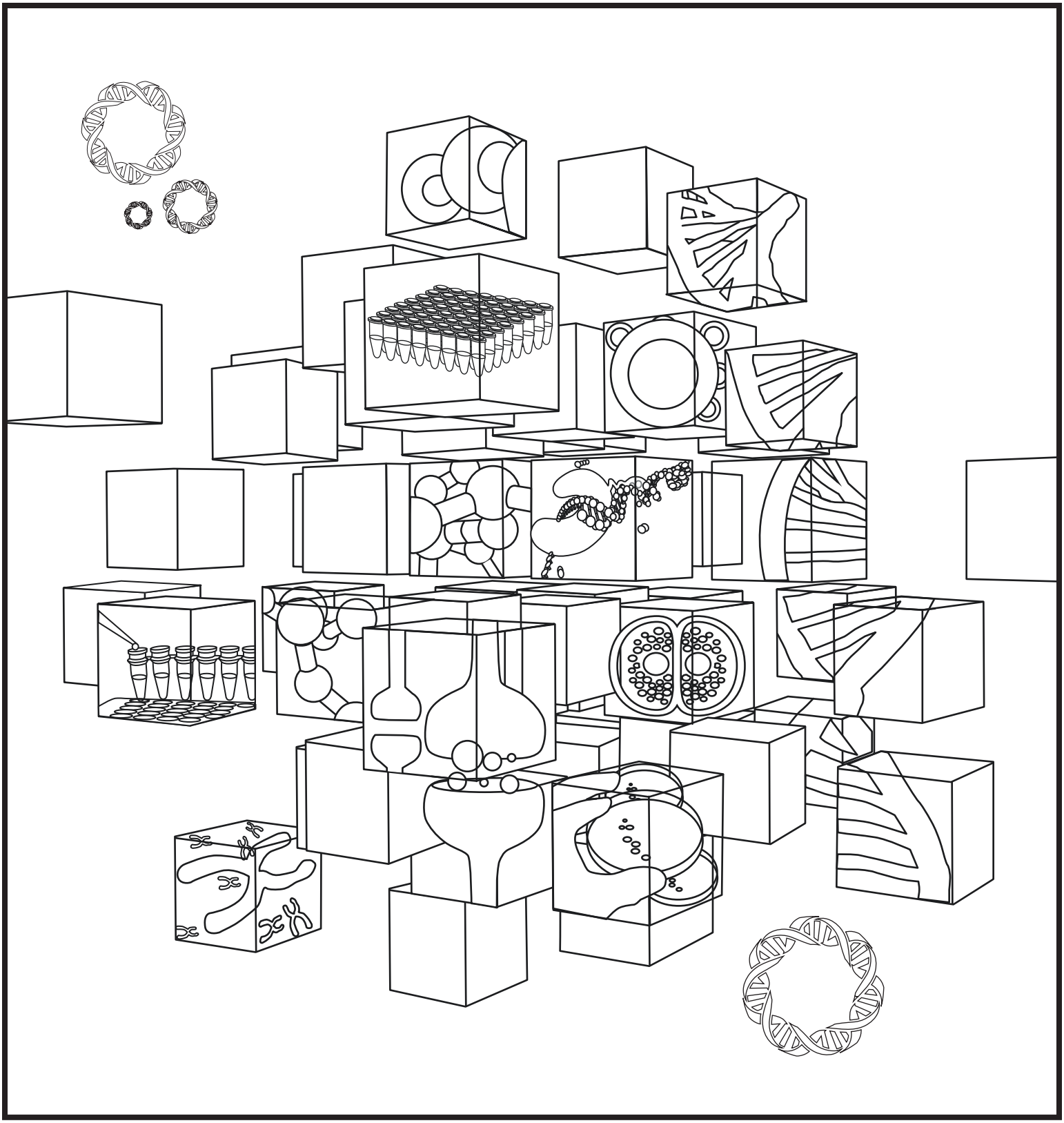
molecular biology

Thermo SCIENTIFIC

Coloring Book

of molecular biology essentials

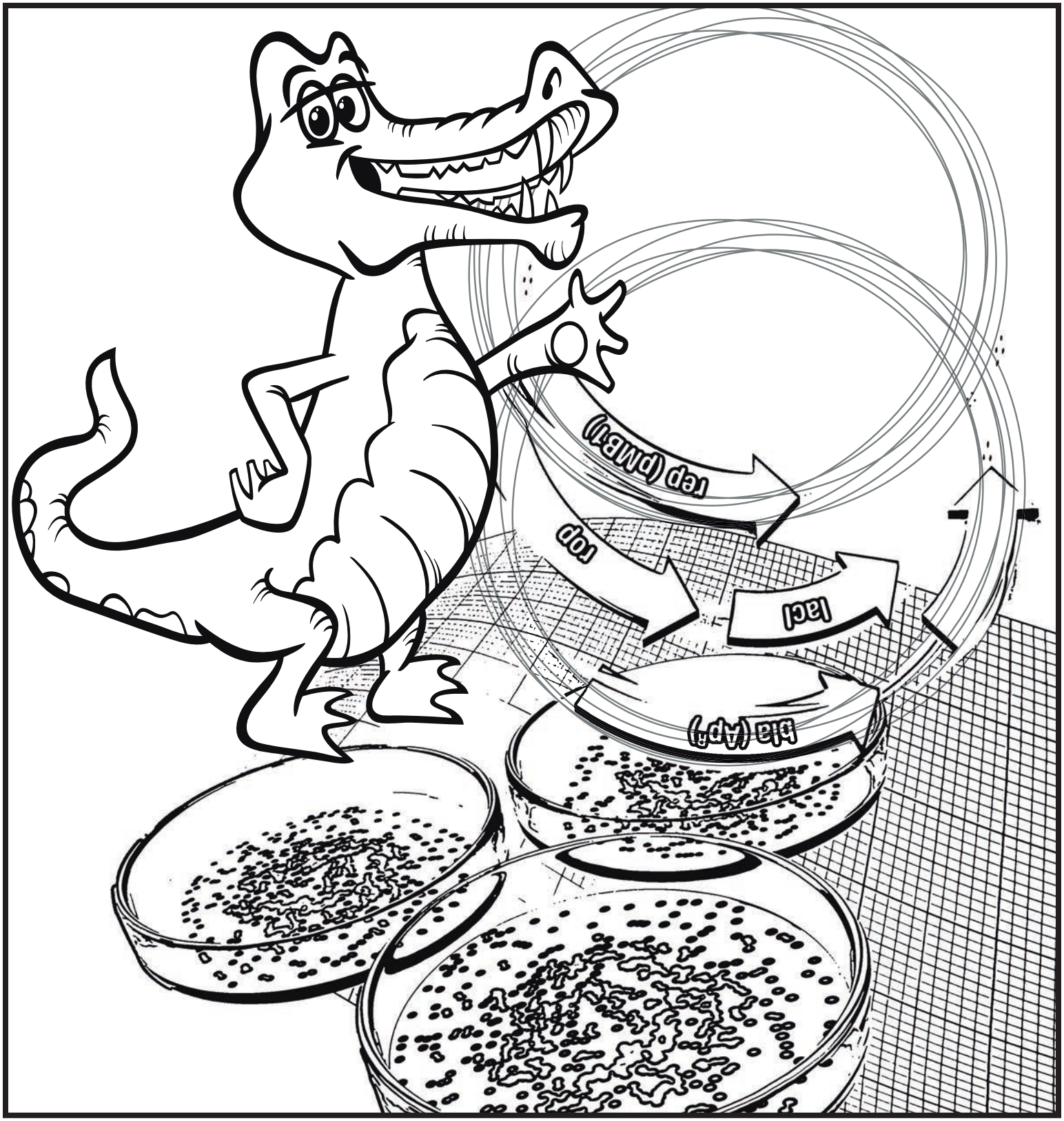
ThermoFisher SCIENTIFIC



Molecular Biology

For over two decades the Thermo Scientific™ molecular biology portfolio has represented leading technology, ensuring reliable performance for every step of the molecular biology workflow. Our innovations include the first single-buffer restriction enzyme collection, the most widely used high-fidelity DNA polymerases, and the most comprehensive PCR plastic consumables portfolio.

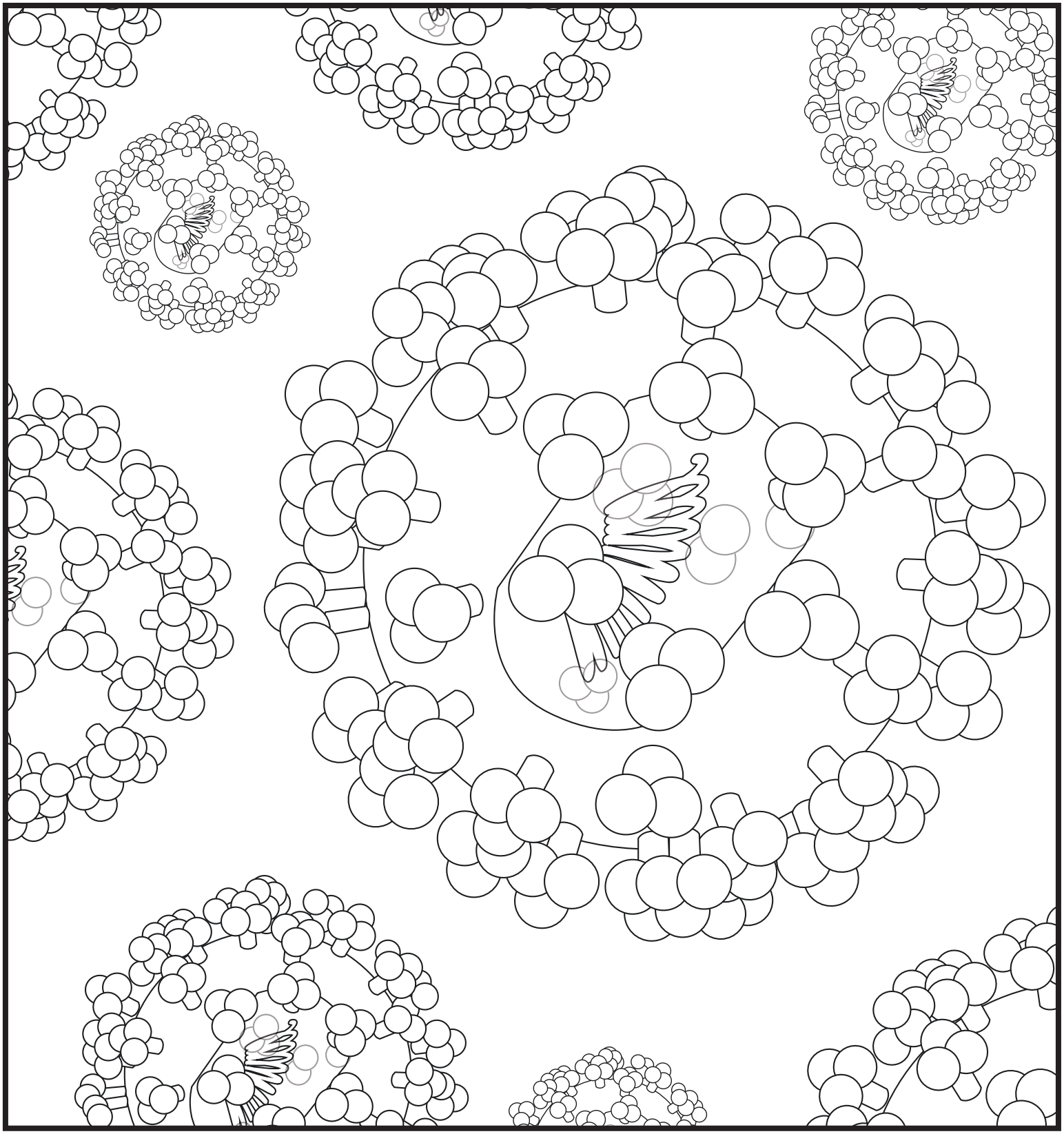
thermofisher.com/thermoscientificmolbio



aLICator System

The Thermo Scientific™ aLICator™ LIC Cloning and Expression System is designed for fast and efficient ligation-independent cloning with subsequent tightly regulated gene expression in *E. coli*. With this system, there is no need to cut and ligate DNA by traditional methods.

thermofisher.com/alicator



Maxima Reverse Transcriptases

Thermo Scientific™ Maxima™ Reverse Transcriptases were developed through molecular evolution, by the introduction and selection of multiple favorable mutations in traditional M-MuLV reverse transcriptase that maximize performance in cDNA synthesis.

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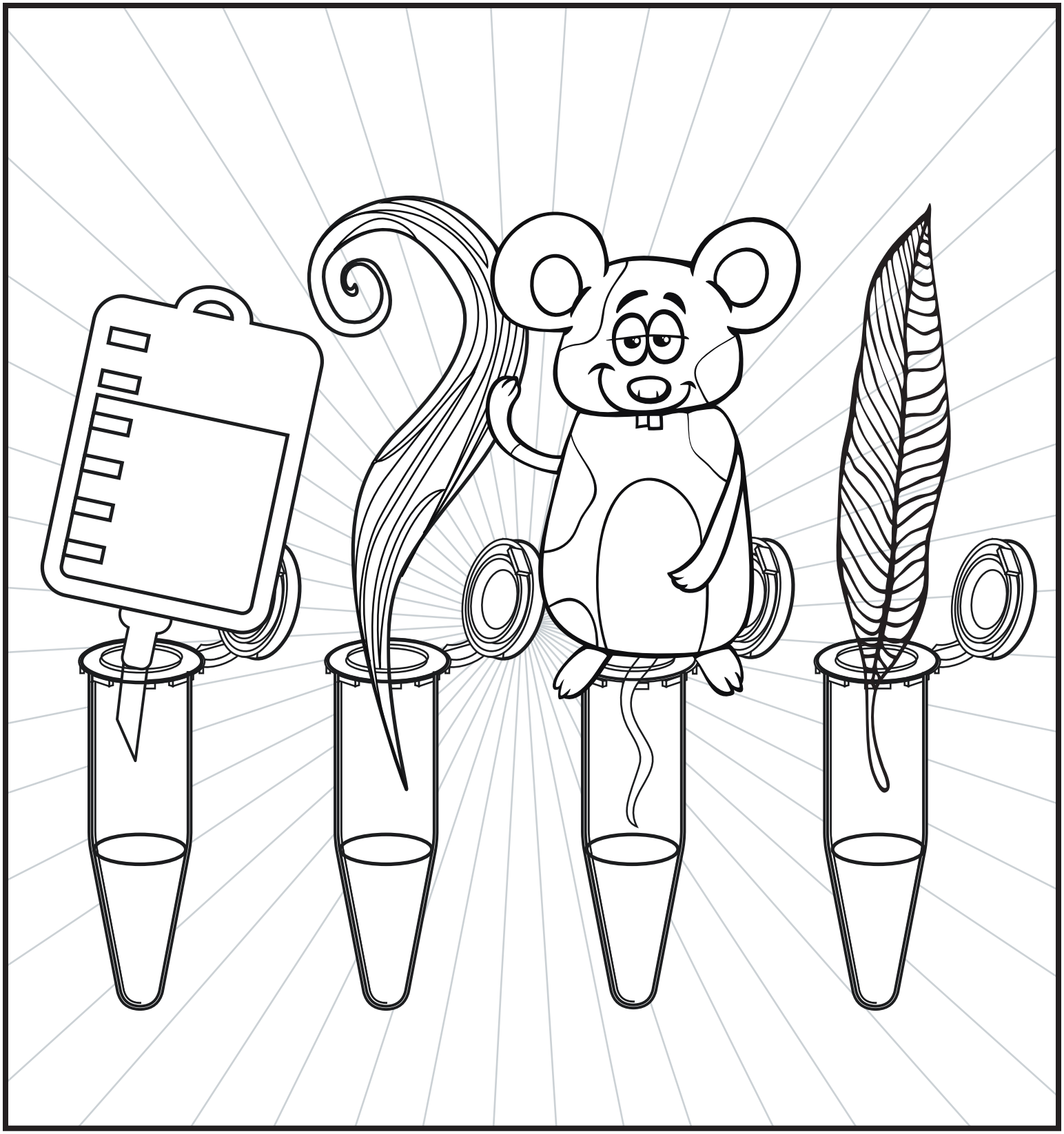

Direct PCR Master Mixes

Thermo Scientific™ Direct PCR Master Mixes offer outstanding convenience for DNA amplification by enabling PCR from unpurified samples. A tiny amount of source material is used in the PCR reaction without any prior purification steps, allowing significant savings in both time and cost.

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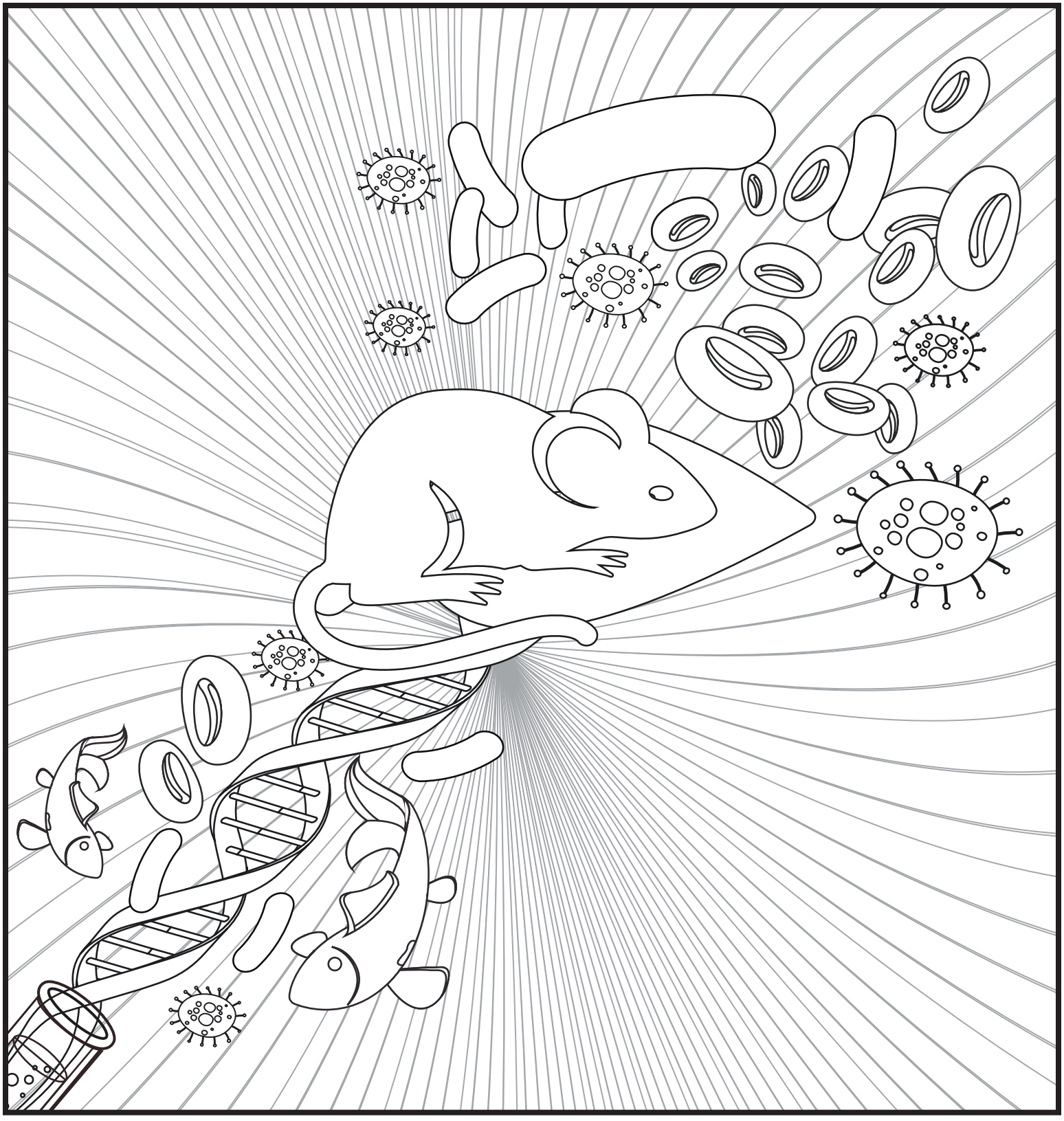

GeneJET Kits

Thermo Scientific™ GeneJET™ DNA and RNA Purification Kits are designed for rapid, efficient, and convenient purification of DNA and RNA from a wide range of samples. Purified DNA or RNA is ready to use in all common molecular biology procedures.

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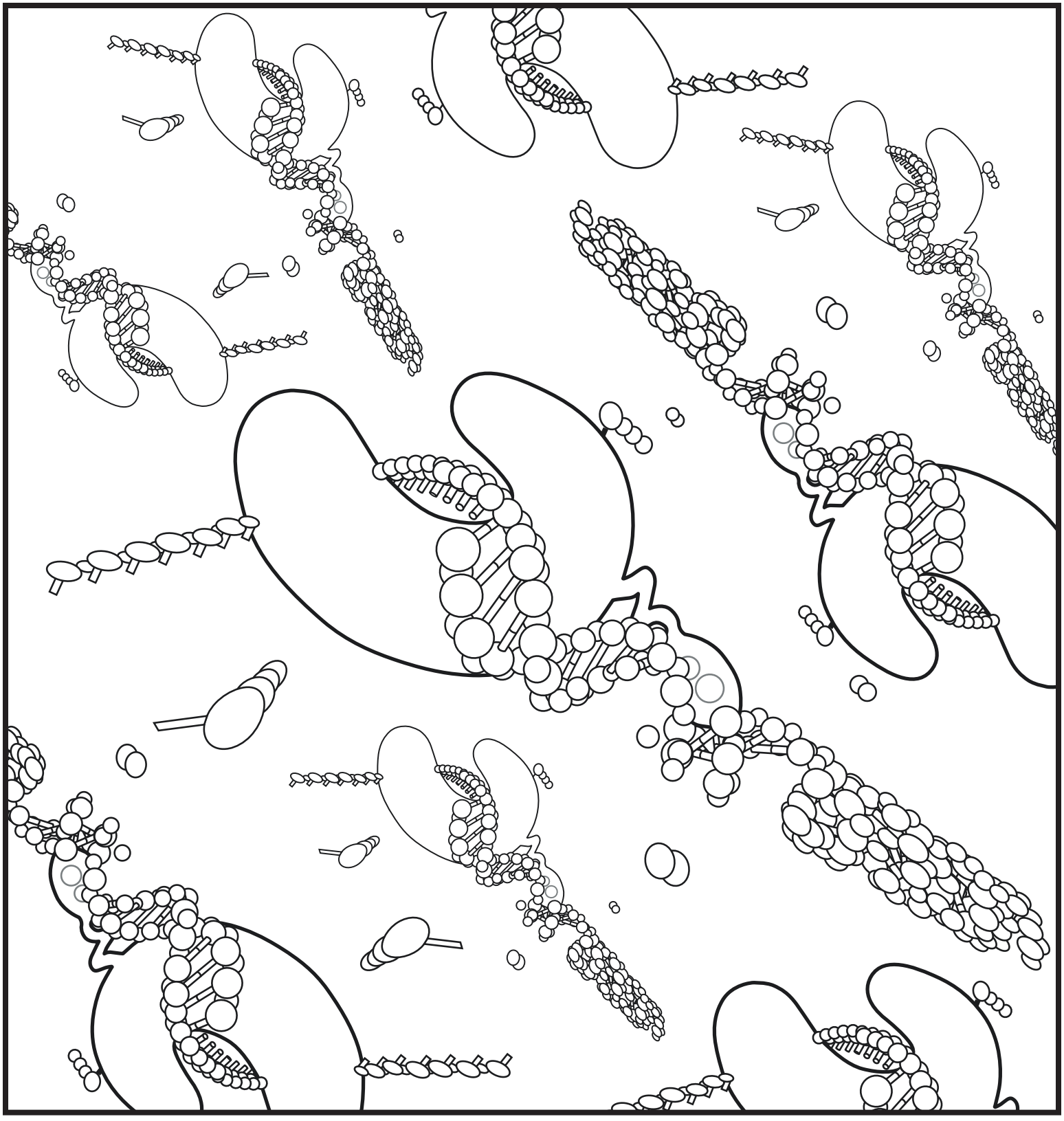

Phusion Polymerases

Since their introduction in 2003, Thermo Scientific™ Phusion™ High-Fidelity DNA Polymerases have established the gold standard for high-performance PCR. In Phusion DNA Polymerases, a dsDNA-binding protein is fused to a proofreading polymerase, resulting in high accuracy (52x the accuracy of *Taq*) and speed even on the most difficult templates.

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DreamTaq Polymerase

Thermo Scientific™ DreamTaq™ DNA Polymerase is an enhanced *Taq* DNA polymerase designed to support consistent, reliable, and robust amplification, and to deliver the PCR performance no conventional *Taq* enzyme can match.

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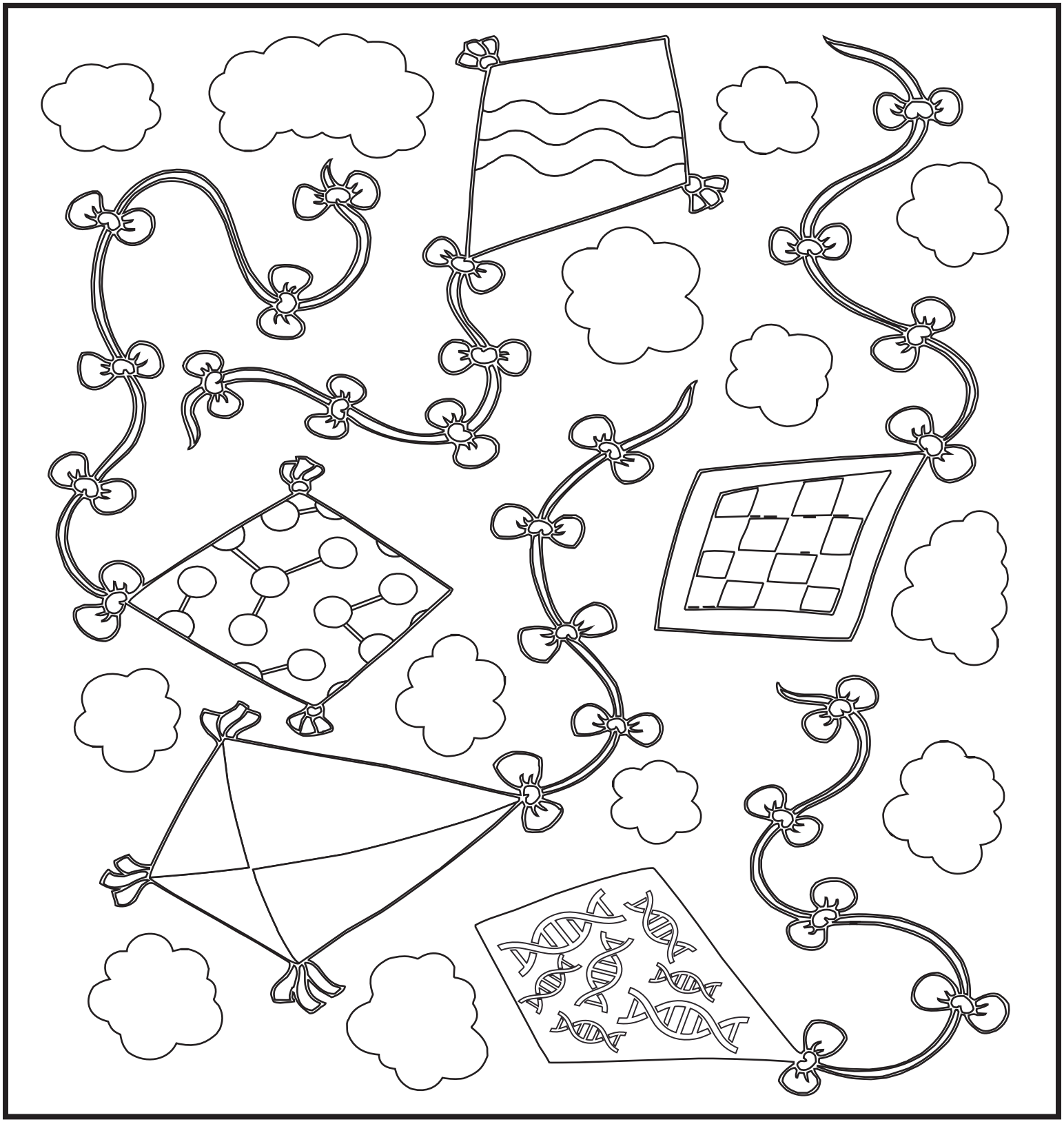

FastDigest Enzymes

Thermo Scientific™ FastDigest™ Restriction Enzymes are all 100% active in a single buffer. The universal FastDigest™ and FastDigest™ Green buffers allow single, or multiple digests of DNA within 5 –15 minutes, minimizing the need for buffer changes or subsequent DNA clean-up steps.

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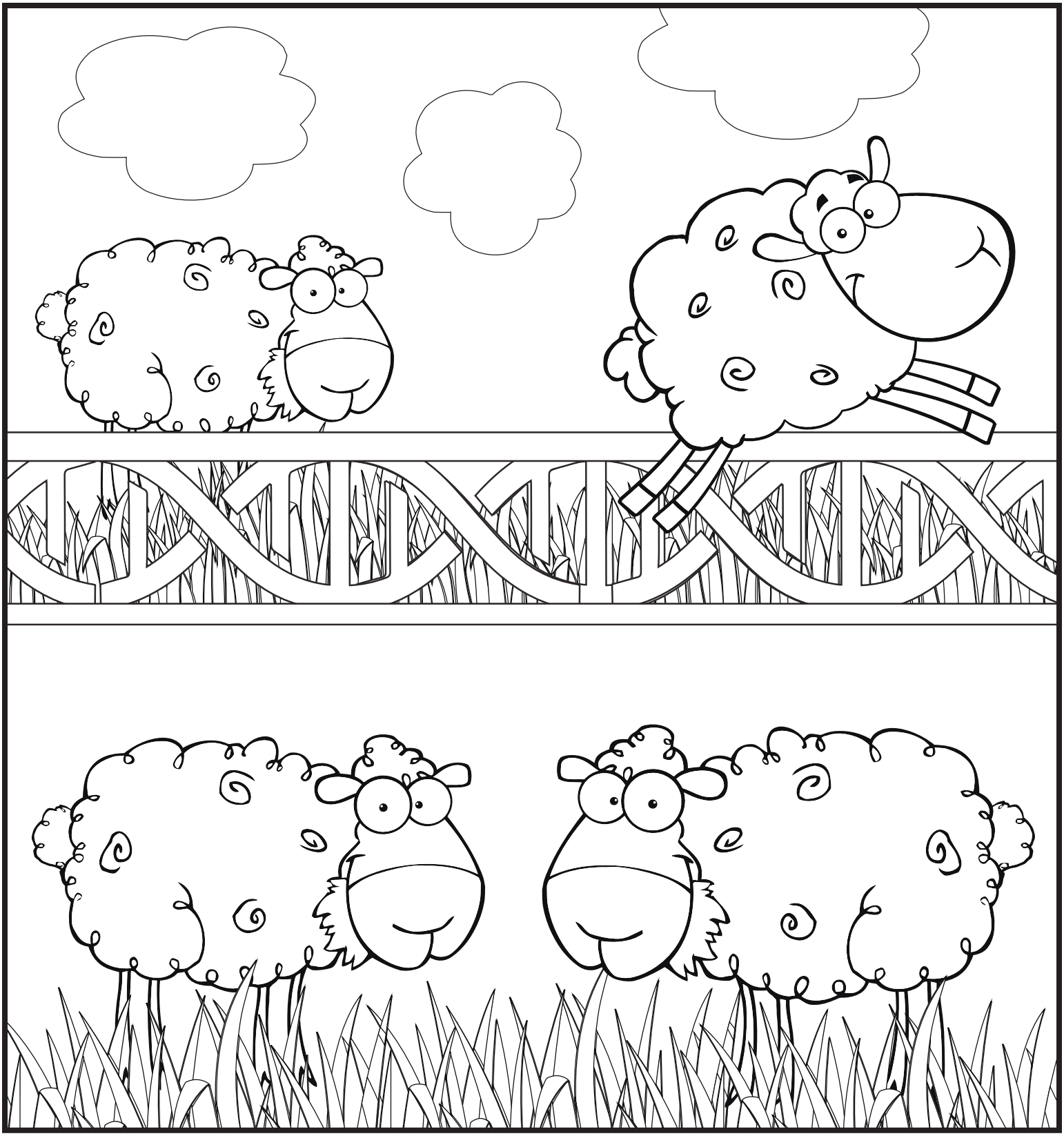

CloneJET Kits

The Thermo Scientific™ CloneJET™ PCR Cloning Kit is an advanced positive-selection system for fast and highly efficient cloning of PCR products generated with any thermostable DNA polymerase. Any other blunt- or sticky-end, phosphorylated or unphosphorylated DNA fragment can also be cloned using this kit.

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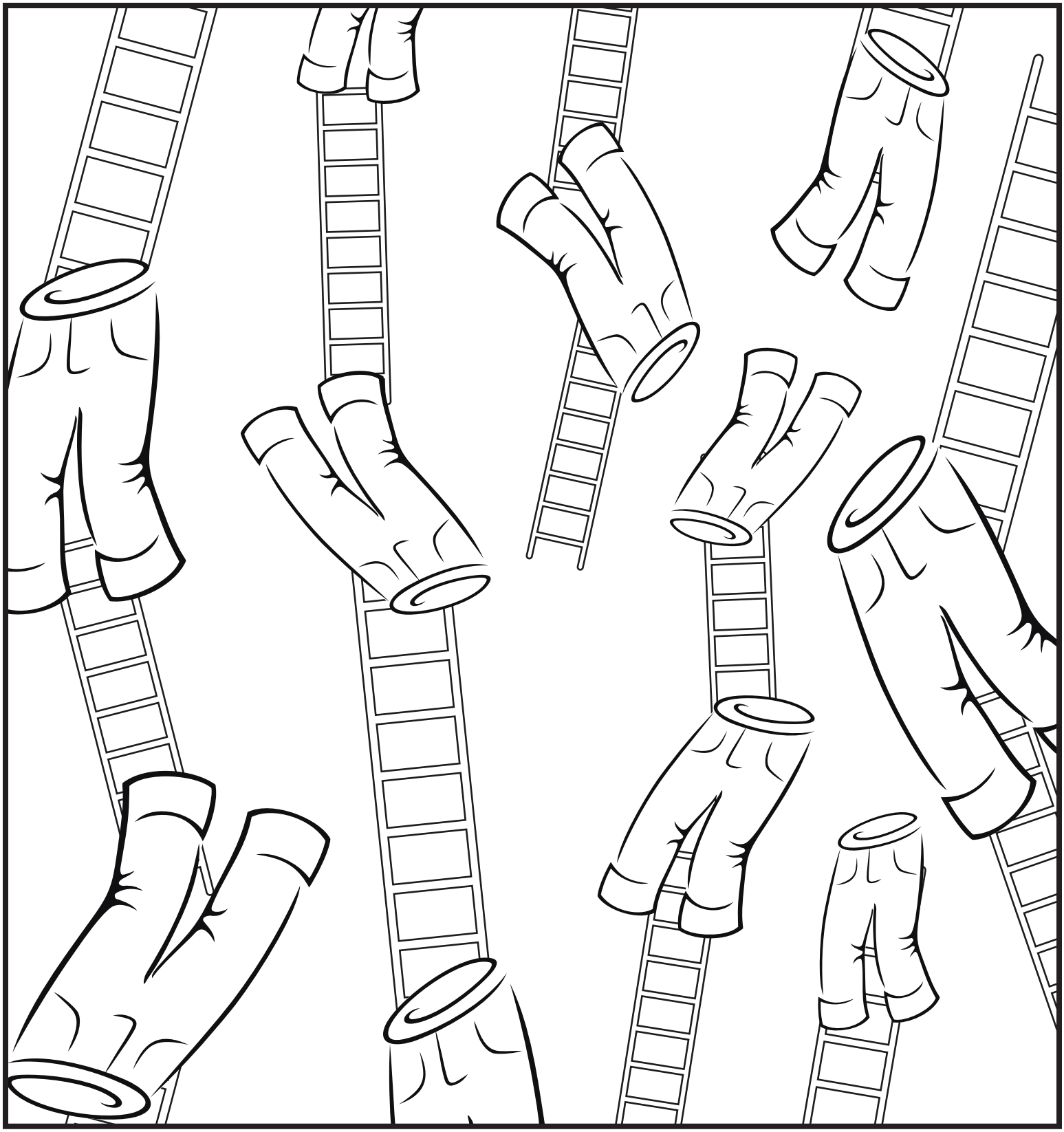

GeneRuler DNA Ladders

Thermo Scientific™ GeneRuler™ DNA Ladders are ideal for sizing and in-gel DNA quantification. A broad selection of DNA ladders is available, and they produce bright, sharp bands. These ladders are available in conventional as well as ready-to-use formats (premixed with loading dye).

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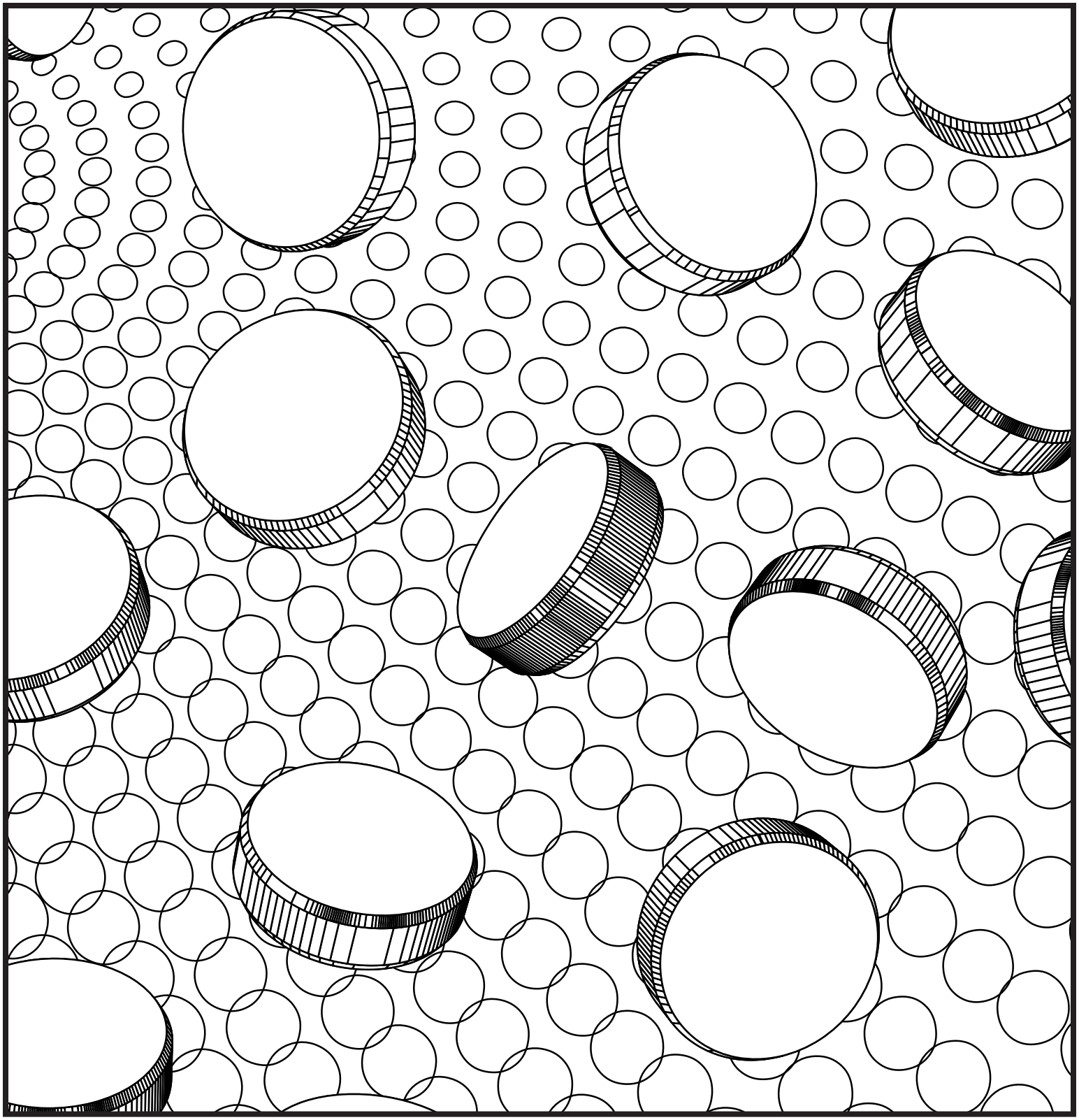

TopVision Agarose

Thermo Scientific™ TopVision™ Agarose is a highly purified, DNase- and RNase-free agarose that comes in two melting point options (standard and low melting temperature) and two formats (powder and tablet).

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PCR Plastics

For over 25 years, the Thermo Scientific™ PCR portfolio has been supplying high-quality PCR plastic consumables for molecular biology research. These products are designed to support maximum PCR performance and are manufactured with robust processes and extensive quality controls.

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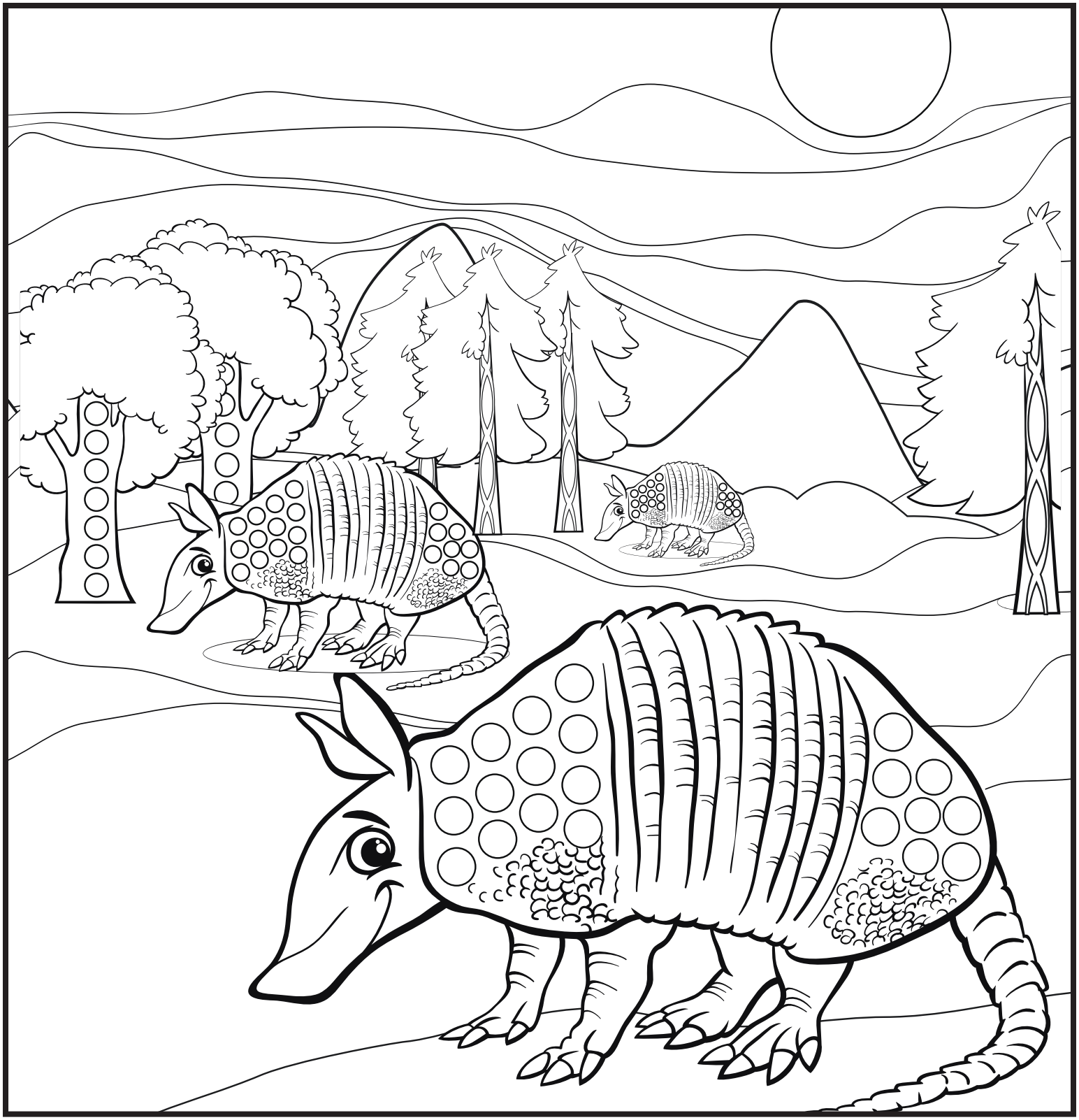

Armadillo PCR Plates

Thermo Scientific™ Armadillo™ 96- and 384-well plates are the ultimate PCR plastic consumable for high-throughput applications. They combine the rigidity of a polycarbonate frame with thin-wall polypropylene wells to provide superior thermal cycling performance under all conditions without warping. Armadillo PCR plates are available in a variety of colors to meet your research needs.

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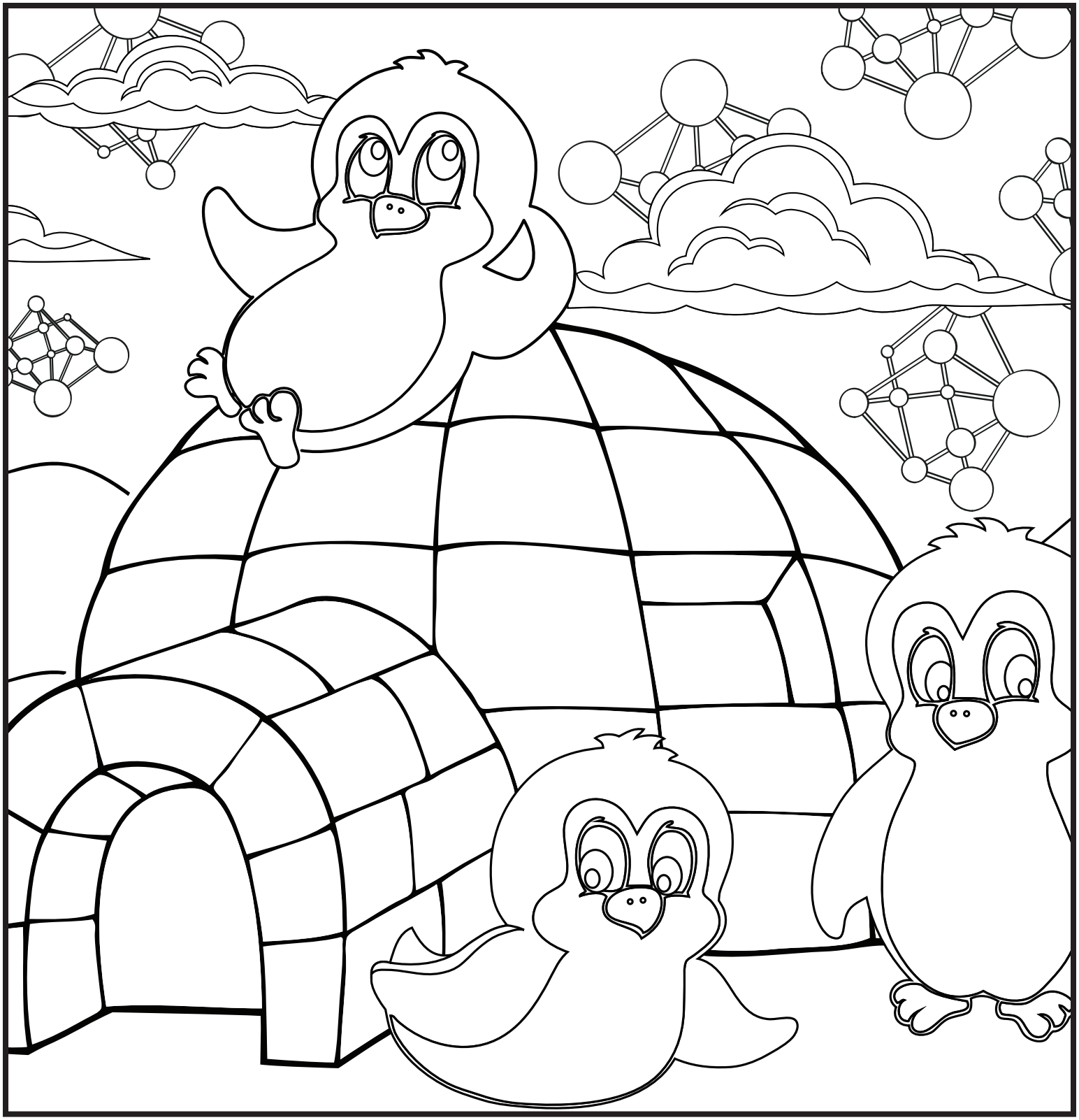

dNTPs

Thermo Scientific™ dNTPs have greater than 99% purity and are free of nuclease activities as well as human and *E. coli* DNA. They are designed to support many different molecular biology applications. The dNTP Set and Mixes are stable after multiple freeze-thaw cycles, and the mixes are also stable for years at — 20°C.

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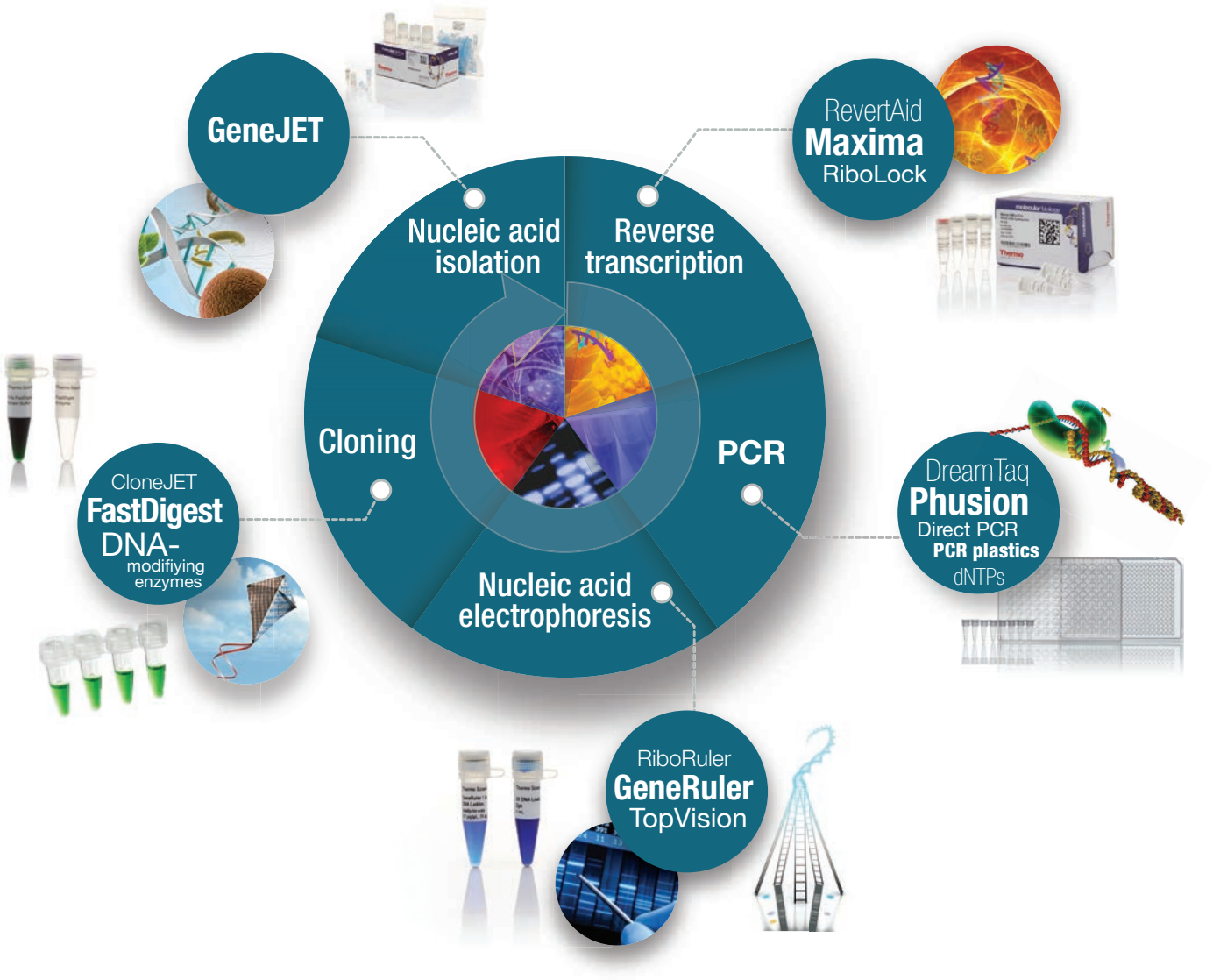
Thermo Scientific molecular biology reagents and plastic consumables

High-quality essentials for every step of your molecular biology workflow



To learn more, go to
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