

Japan's OriCiro Genomics launches new enzymatic DNA synthesis tool

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Offers efficient cloning for cytotoxic sequences



OriCiro Genomics Inc., based in Japan, has announced the launch of OriCiro Cell-Free Switching system.

In the biological sciences, cell-based cloning and manufacturing of DNA is still the gold standard. However, cell-based DNA methods pose many problems from time lost to slow cell-growth for researchers as well as downstream manufacturing concerns regarding low or no yield due to cytotoxic sequences and the necessity to remove host cell contaminants such as endotoxins.

OriCiro Cell-Free Switching system allows the researchers to quickly switch the plasmid DNA amplification from using living cells to easy to use cell-free, enzymatic amplification system.

SS OriC Cassettes can be inserted by a two-step isothermal enzymatic reaction to enable cell-free amplification within hours. The core technology is based on OriCiro Genomics' optimized in vitro propagation process based on over 20 proteins which are essential for E. coli genome propagation.