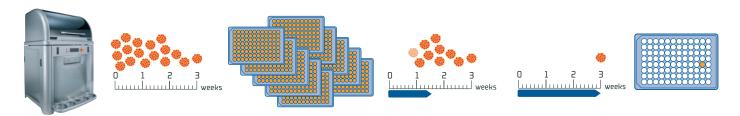# MOLECULAR DEVICES

Accelerate cell line development

Get to your high value hits faster

Transform your workflows to elevate productivity

Fast screening and selection of secretory cell lines with the ClonePix™ 2 Mammalian Colony Picker

Screen 10X more clones in weeks, not months. Productivity comparison: ClonePix: 10,000 clones in three weeks, Limiting dilution: 1000 clones in two months.
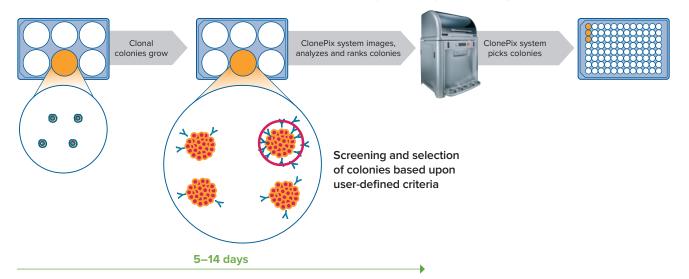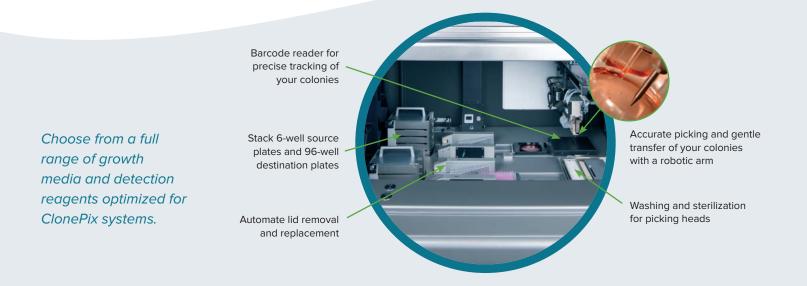
Select and pick with more accuracy and confidence

Cells plated into semi-solid medium

User selects colonies based on system's analysis and ranking

Clonal colonies grow

ClonePix system images, analyzes and ranks colonies

ClonePix system picks colonies

Screening and selection of colonies based upon user-defined criteria

5–14 days

Choose from a full range of growth media and detection reagents optimized for ClonePix systems.

Barcode reader for precise tracking of your colonies

Stack 6-well source plates and 96-well destination plates

Automate lid removal and replacement

Accurate picking and gentle transfer of your colonies with a robotic arm
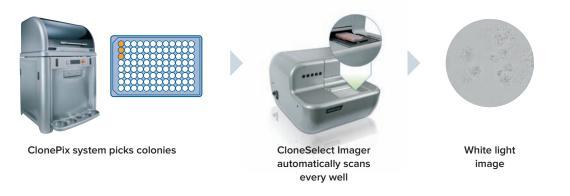
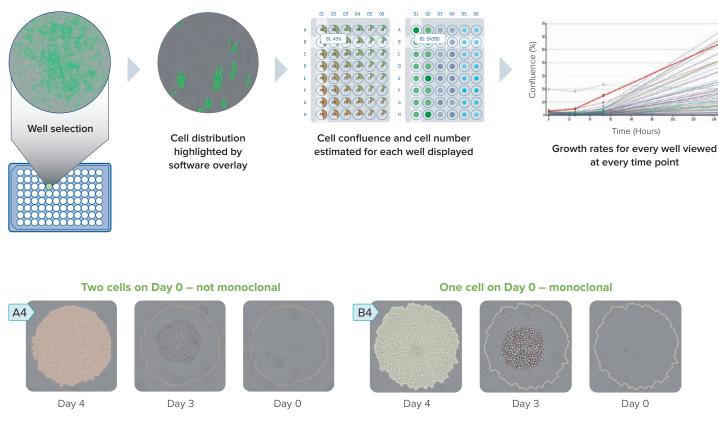Washing and sterilization for picking heads

Advance to automated screening with intelligent imaging and quantitative analysis

Assessment of colony outgrowth with CloneSelect Imager™ replaces subjective, time-consuming manual screening

Following screening and selection of clones, the ultra-fast CloneSelect Imager provides objective assessment of cell growth. Track and quantify cell growth over time automatically.

ClonePix system picks colonies

CloneSelect Imager automatically scans every well

White light image

Analyze cell confluence and cell number in every well to verify monoclonality

Well selection

Cell distribution highlighted by software overlay

Cell confluence and cell number estimated for each well displayed

Confluence (%)

Time (Hours)

Growth rates for every well viewed at every time point

Two cells on Day 0 — not monoclonal

A4

| Day 4 | Day 3 | Day 0 |

One cell on Day 0 — monoclonal
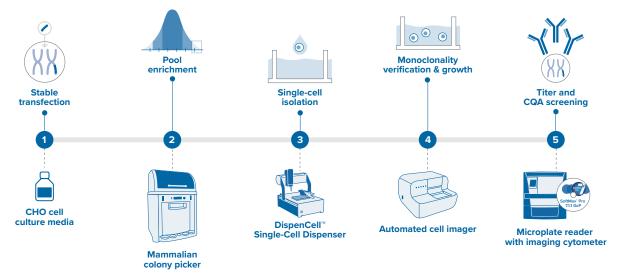
B4

| Day 4 | Day 3 | Day 0 |

Verification of monoclonality — viewing the origin of a colony

The growth (image) history of each well can be tracked back to its starting point—providing evidence of monoclonality.

Develop stable cell lines

Typical cell line workflow

Cell line development is the process of establishing a clonally-derived cell population which has been genetically engineered to express a desirable phenotype (such as producing large amounts of recombinant protein) for a stable period of time. Single cells proliferate to form colonies that can then be assessed for the desirable characteristic.

1 Stable transfection — CHO cell culture media

2 Pool enrichment — Mammalian colony picker

3 Single-cell isolation — DispenCell™ Single-Cell Dispenser

4 Monoclonality verification & growth — Automated cell imager

5 Titer and CQA screening — Microplate reader with imaging cytometer

Accelerate cell line development with a range of Molecular Devices platforms

ClonePix 2 Mammalian Colony Picker

Automatically screen more clones in less time than conventional techniques, select cells with optimal expression levels, and pick colonies with accuracy. ClonePix systems are now used in over 100 laboratories around the world to increase workflow productivity, leaving more time to better characterize target proteins and run new projects.

DispenCell™ Single-Cell Dispenser

The DispenCell™ Single-Cell Dispenser is an automated laboratory instrument developed for fast, easy and gentle single-cell isolation. Designed by scientists for scientists, DispenCell has been designed to integrate seamlessly into your lab routine, with a plug-and-play approach.

CloneSelect Imager — standard and fluorescence

With high quality imaging and intelligent image analysis, CloneSelect Imager allows you to assess cell confluence objectively and quantitatively. Cell growth is viewed and tracked in every well in every plate.

Contact Us

Phone: +1.800.635.5577
Web: www.moleculardevices.com
Email: info@moldev.com
Check our website for a current listing of worldwide distributors.

Regional Offices

USA and Canada	+1.800.635.5577	Taiwan/Hong Kong	+886.2.2656.7585
United Kingdom	+44.118.944.8000	Japan	+81.3.6362.9109
Europe*	00800.665.32860	South Korea	+82.2.3471.9531
China	+86.4008203586	India	+91.73.8661.1198

*Austria, Belgium, Denmark, Finland, France, Germany, Iceland, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, Switzerland and United Kingdom