

Selection of transfectants (fluorescent clones)

CHO cells were transfected with a GFP expression vector containing a puromycin-resistance marker. After selection by puromycin for 8 days, surviving cells were dispensed on a Elplasia® plate. Single cells were detected by bright-field and fluorescence imaging with 4x magnification (Fig. 1). CELL HANDLER™ picked one of the fluorescent target cells and transferred it to a flat bottom plate. Six days after transfer, a colony was formed with stable fluorescence, showing the ability of CELL HANDLER™ in accurately picking single-cell transfectants. Tiled images that cover the whole bottom of a well are shown in Figure 1.

CELL HANDLER™ saves time and effort in isolating and establishing stable-transfectant monoclonal cell lines.

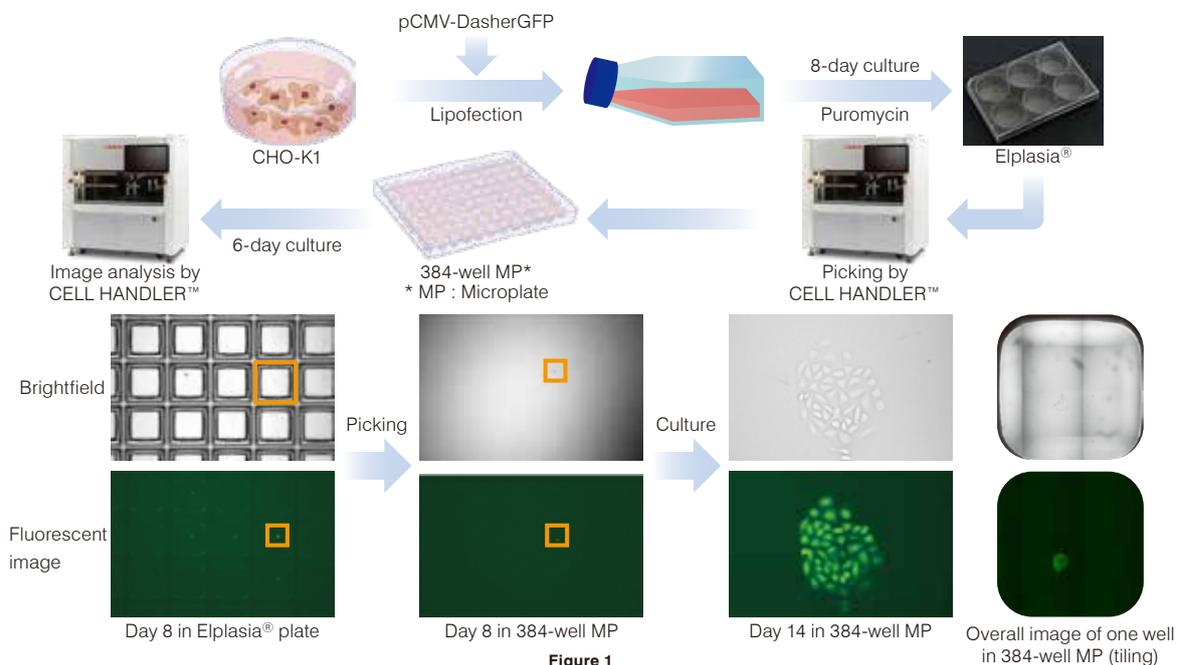


Figure 1

Imaging options for single cell

CELL HANDLER™ has imaging capabilities with 10X magnification and multi-color fluorescent detection.

Comparison of 4X and 10X (Fig. 2 left) and 2 different colors detection (Fig. 2 right) were shown.

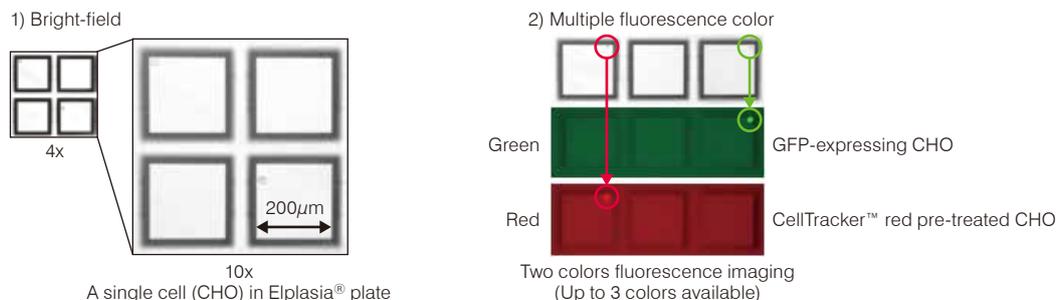


Figure 2

**CellTracker™ is a trade mark of Thermo Fischer Scientific Inc.. **Elplasia® is a registered trademark of Corning Inc..

