CDI
BIOSCIENCE

Clone isolation

CDI Bioscience clone isolation service is based on ClonePix FL technology - a technology for screening thousands of mammalian cells and selectively collecting only the highest value, rare-event clones in a few hours.

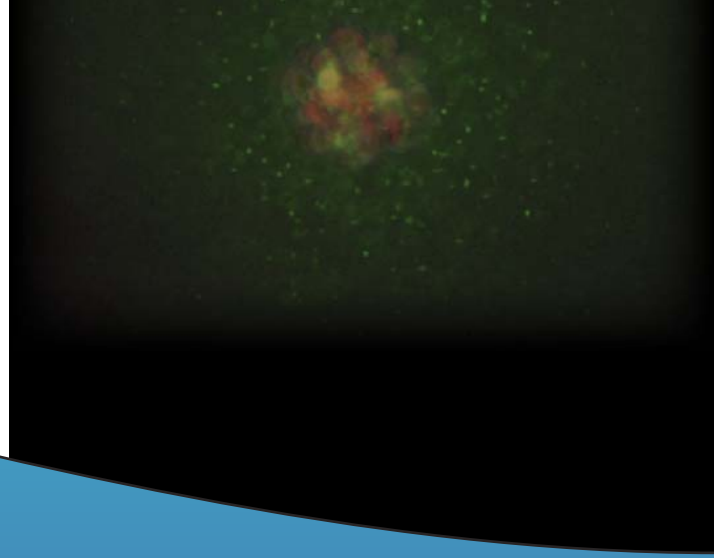
Clone stability screening

CDI Bioscience offers clone stability screening. Selected clones identified with protein specific fluorescent markers and levels of fluorescence are measured longitudinally to assure high consistency.

Gene expression screening

CDI Bioscience can isolate clones based on direct fluorescence from reporter proteins like GFP. The fluorescence intensity can indicate clones with stable protein expression or correct protein folding.

CLONE ISOLATION SERVICES



YOUR PARTNER IN CELL LINE DEVELOPMENT

CDI Bioscience

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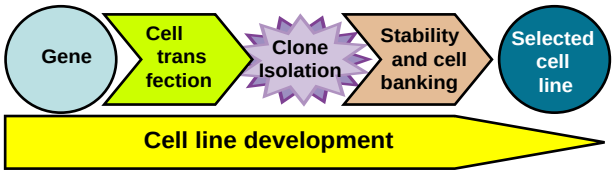
Clone screening

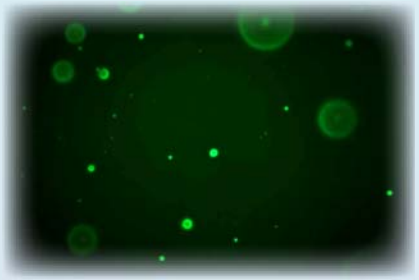
The speed at which a recombinant protein product progresses into clinical trials or manufacturing is vital importance for small biotechnology companies and biopharma groups of large pharmaceutical companies.

For mammalian cells lines, two major factors impact on the project timeline: the ability to quickly identify a product candidate and subsequent production of high expressing cell lines.

Identification of rare clones that combine efficient transcription with superior folding, processing and secretion capabilities is critical for the development of high producer cell lines for recombinant proteins and monoclonal antibodies.



Traditionaly screening for high producing clones involves cell sorting, limiting dilution, ring cloning and even simple manual colony collection. All of which are time consuming, labor intensive, costly, and prone to cross contamination and error.



Clone screening

CDI Bioscience offers clone isolation services that are based on CLonePix FL technology from Genetix.

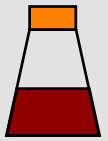
CDI can rapidly screen through thousands of clones, isolating only the high value overproducers significantly shortening timescales compared to traditional methods.

Screening method	Limiting dilution with ELISA	ClonePix FL with ELISA
Number of screened method	1,000	10,000
Timeframe	12 weeks	8 weeks
Quality of selected clones (fast growing high producers)	2	37

Benefits of clone isolation services with ClonePix FL

- Colonies generated in single step process
- Efficient screening of large populations
- Isolation of high value clones often missed by conventional methods
- Isolation of entire colonies instead of single cells
- Saves time by rapidly isolating IgG-specific, stable clones with superior growth
- Total image / data traceability

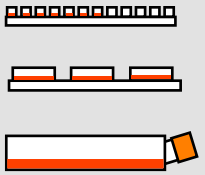
Isolation services workflow



Select stable pool of cells

Plate cells in semi solid matrix and allow colony formation (7-10 days)

Isolate clones with with ClonePix FL (1 day)



Expand and test selected clones (2-12 weeks)