

# Cell line development kits for any cloning and expression needs

## Freedom kits enable technologies in cell line platform development

Gibco™ Freedom™ CHO-S™ and DG44 kits are easy-to-use, beginning-to-end products for cloning and expression of recombinant proteins.

### Gibco Freedom kits contain all components for beginning-to-end cloning and expression in a conveniently packaged kit

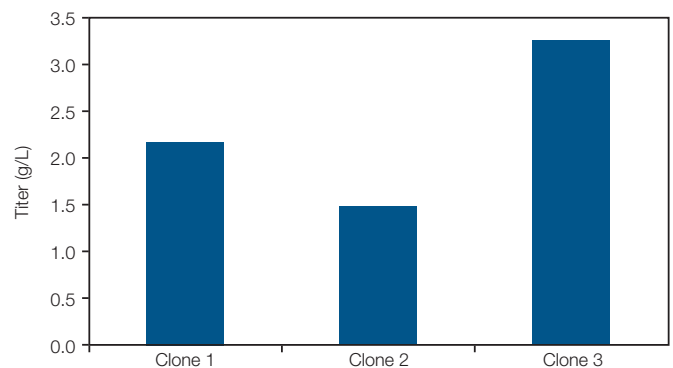
- Regulatory-friendly cGMP-banked CHO-S and DG44 cell lines
- Single vector for cloning and transfection
- Single-stream, animal origin-free medium for the entire workflow, from cell line to process development
- Complete protocol provided
- Proven for IgG production

### Delivers high titers

- High IgG titers of 2–3 g/L in fed-batch cultures (Figure 1)
- Short development time: <6 months to take your gene of interest from transfection to clone

### Access to experienced consultation services and support

- Consulting from field application scientists specializing in Gibco™ products
- Outsource any part of your stable cell line project



**Figure 1. Industry-standard productivity of clones.** Clone productivity was assessed using a DASGIP parallel bioreactor system in Gibco™ CD FortiCHO™ Medium supplemented with L-glutamine and Gibco™ CHO CD EfficientFeed™ B Liquid Nutrient Supplement. Cultures were fed with Gibco™ CHO CD EfficientFeed™ C Liquid Nutrient Supplement and glucose. Final clone productivity ranged between 1.5 and 3.3 g/L.



### Simplified commercial licensing options

- No annual fees, royalties, or milestone payments
- One-time commercial-use licenses available

| Flexible commercial-use licensing with Freedom kits  |     |
|--|-----|
| Freedom from royalties?                              | Yes |
| Freedom from annual maintenance fees?                | Yes |
| Freedom to use any contract manufacturer?            | Yes |
| Freedom to host cell line for multiple projects?     | Yes |
| Freedom to modify the host cell line?                | Yes |
| Freedom to modify the purchased vector?              | Yes |
| Freedom to conduct process optimization?             | Yes |
| Freedom to request support when desired?             | Yes |
| Freedom to partner with others within field of use?* | Yes |

\* Some sale and distribution restrictions may apply.

### Ordering information

| Product              | Cat. No. |
|----------------------|----------|
| Freedom CHO-S Kit    | A1369601 |
| Freedom CHO DG44 Kit | A1373701 |

Find out more at [thermofisher.com/freedom](http://thermofisher.com/freedom)

