

Research Models and Services

Case study

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envigo.com/antibody-insights

Performing consistent fusions to support drug manufacturing testing

Background

A large, multinational pharmaceutical company needed to perform quality control testing to verify if their internal manufacturing process was meeting expectations during intermediate steps. They asked Envigo to perform fusions and generate the appropriate antibodies.

Providing long-term support

The relationship with the customer began four years ago with an initial set of fusions. Envigo first created a few clones and then grouped the supernatants so the customer could run a battery of tests to determine which clones could move ahead.

In Envigo's production process with the selected clones, a proprietary cell culture bag was used to generate small amounts of purified antibodies. The customer then used this material to direct it against their drug target and determine feasibility.

Maintaining communication and offering flexibility

Based on the success of the initial projects, the customer continued to use Envigo for multiple fusion projects. The partnership involved sending samples and supernatants to the customer for testing, along with freezing clones at multiple time points in the process until the customer determined whether or not to proceed with a specific cell line.

Throughout this process, Envigo maintained close communication to understand the customer's specific requirements while offering extraordinary flexibility to resume a project at a moment's notice.

Meeting unique requirements

With an ongoing partnership over the last four years, Envigo has now performed 20 fusions and developed over 200 cell lines for the customer, a collection that represents over 1,000 cell lines created in the selection process.

For each project, Envigo worked closely with the customer to set up a customized immunization protocol. For example, some of the selected peptides were not immunogenic and required specific conjugations to a carrier. In these cases, the customer and Envigo collaborated to design an antigen and ensure they were presenting the correct haptenic site for the desired target.

Growing a strong relationship

The customer continues to utilize Envigo for its ongoing fusion work and as a result of the experience, the customer also has recommended Envigo to its other internal research and development groups. Now, rather than generating antibodies with in-house resources, the company relies on Envigo for high-quality antibody production.

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