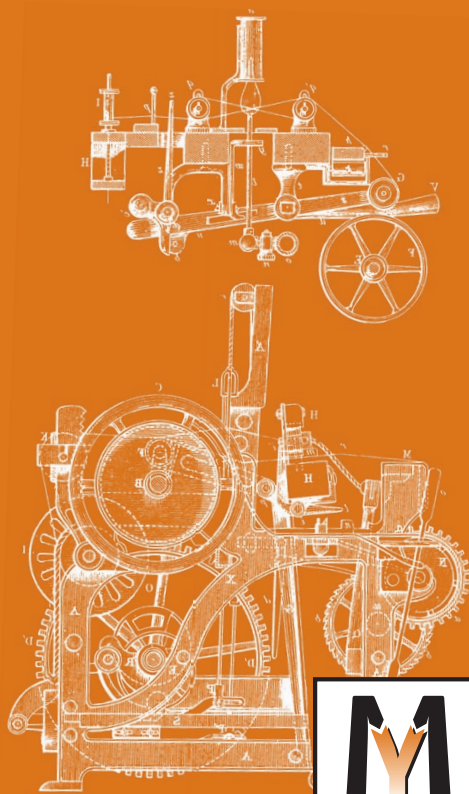




Stable recombinant antibody producing cell line generation

Introduction

ModiQuest Research provides state-of-the-art stable antibody producing cell line generation using its large collection of antibody expression vectors for recombinant antibody expression in various cell lines like CHO, Sp2.0 and NS0 cells. ModiQuest Research provides gene synthesis from customer supplied sequences or provides (re)cloning of hybridomas or cDNA sequences, provided by the customer, into its expression vectors.



ModiQuest
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Monoclonal Antibody Technology

For various applications different effector functions, depending on the antibody isotype and residing in the Fc domains of the antibody, might be required.

By choosing different C-regions encoding the Fc domain, different effector functions can be introduced to yield antibodies with desired activities.

By switching species Fc domains, one can adapt antibodies for use in different animal models, or adapt antibodies for specific diagnostic applications.

ModiQuest Research's recombinant expression vectors, containing the various human and mouse antibody isotype encoding C-regions, are available in order to generate fully customized (chimeric) antibody producing cell lines.

Adaptation of the extensive ModiQuest Research expression vector range allows us to create or adapt any antibody to the clients requirements.

ModiQuest Research offers both (small scale) production in (1 litre) bioreactor (CL1000 Integra) of recombinant antibodies as well as the generation and transfer of stable cell lines to its clients. The preferred cell line for expression is CHO-K1.

Vector Specifications:

All ModiQuest Research vectors contain the following elements:

List of human antibody isotype expression vectors available:

A strong promoter, Neomycin or Hygromycin selection cassettes, transcription termination signals and restriction site cassettes for cloning antibody V-regions.

**pMQR-huIgA1
pMQR-huIgG1
pMQR-huIgG3
pMQR-huIgG4
pMQR-huIgM
pMQR-huKappa
pMQR-huLambda**

List of mouse antibody isotype expression vectors available:

**pMQR-msIgG1
pMQR-msIgG2a
pMQR-msIgG2b
pMQR-msIgG3
pMQR-msKappa**