# CUSTOM PROTEIN AND ANTIBODY PRODUCTION SERVICES





**FAST & PERSONAL CONSULTATION** 

# **LUBIO OFFERS FULL PROJECT SUPPORT**





Presentation of different options from trusted manufacturers



Coordination of service project to ensure smooth operation



Support after delivery

PRIOR TO SERVICE

DURING SERVICE

AFTER SERVICE

## RECOMBINANT PROTEIN PRODUCTION SERVICE

Multiple protein expression systems



INSECT CELLS



E. COLI



- One-stop solution from gene to protein, process development and large scale production
- · State of the art production technologies and facilities
- Comprehensive QC
- Extensive experience with poorly soluble or instable proteins, secreted proteins and membrane proteins
- · IP-free strains and cell lines

## PROTEIN PRODUCTION SERVICE WORKFLOW

1-2 weeks

GENE SYNTHESIS

AND CODON

OPTMIZATION

1-2 weeks
VECTOR

VECTOR

CONSTRUCTION

EVALUATION OF

PROTEIN

EXPRESSION

2-3 weeks

PROTEIN **EXPRESSION**AND **PURIFICATION** 

LARGE-SCALE
EXPRESSION AND
PURIFICATION

2-3 weeks

- OPTIONAL -

## Deliverables

Sequencing report

## **Deliverables**

Expression evaluation report

1-2 weeks

## **Deliverables**

- 0.5 1 mg purified protein
- CoA

## Deliverables

- Purified protein
- · CoA

## SERVICE OPTIONS

**PURIFICATION OPTIONS** 

- · With or without purification tags (Fc, His, GST, FLAG, SUMO, Myc, HA)
- Cleavable tag option

**QUANTITY SPECIFICATIONS** 

- · Standard package: > 90% purity by SDS-PAGE
- Customized package: HPLC-SEC, endotoxin levels, others (upon request)

## ANTIBODY PRODUCTION SERVICE

- · > 99% success rate, cutting edge technologies
- Antibody format and species diversity
- · Optimized immunization strategies for protein, peptide and DNA antigens
- · Strong commitment to animal welfare
- Vast species diversity (rabbit, mouse, goat, lama, alpaca, chicken, etc.)
- All custom antibody development services are confidential



## POLYCLONAL ANTIBODY PRODUCTION WORKFLOW

1-2 days

ANTIGEN **DESIGN** 

- OPTIONAL -

- Definition of design strategy
- Protein/peptide design

3-5 weeks

ANTIGEN PRODUCTION

**OPTIONAL** 

- Protein expression in system of choice
- Peptide synthesis & carrier conjugation

#### **Deliverables**

· Antigen sample

4-16 weeks

ANIMAL IMMUNIZATION

#### **Deliverables**

- · Pre-immune serum
- Final immune serum (if no purification)

1 weeks

SERUM PURIFICATION

- OPTIONAL

- Protein A/G purification
- Antigen affinity purification

#### **Deliverables**

- Purified antibody
- · CoA

3 days

**QC ANALYSIS** 

- OPTIONAL -

- SDS-PAGE and UV Analysis
- ELISA validation
- Further methods on request

# COMPREHENSIVE ANTIBODY DEVELOPMENT & PRODUCTION SERVICES



Mouse monoclonal antibody production



Rabbit monoclonal or polyclonal production



Recombinant antibody production



Nanobody development



Antibodies from other hosts: rat, canine etc.



Antibody conjugation



**Bulk production** 



Phospho-specific antibody services



Hybridoma sequencing



Antibody humanization service



Custom ELISA kit development



Hybridoma rescue





