

Custom R&D Services for the Biopharma Industry

Aragen
bioscience

From Gene Cloning to Animal Models of Disease

Aragen
bioscience

Contact Ken Meek: kmeek@aragenbio.com

www.aragenbio.com

380 Woodview Ave., Morgan Hill, CA 95037

Diverse Skill Set and Competencies

In Vitro

- Gene Cloning
- Protein Expression and Purification
 - Antibodies and etc.
 - Small and Large Scale
 - Transient or Stable
 - Mammalian, Insect, or Bacterial Systems
- Genotyping and qPCR
- Cell Based Assays
 - Proliferation, Apoptosis, Immunology, Primary Cells, etc.
- Hybridoma Screening and Cloning
- Other

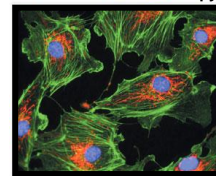
In Vivo

- Mouse, Rat, Hamster, Guinea Pig
- Standard Disease Models
 - Tumor Xenografts, Diabetes, Arthritis, Asthma, etc
- Custom Animal Models
 - Artery Occlusion, Skin Grafting, Neuroscience, etc.
- Pharmacokinetics (PK)
 - Intravenous, Intraperitoneal, Alzet Pump, etc.
- Toxicity Studies
- Immunohistochemistry on Organ Sections
- Ascites Generation for Monoclonal Antibodies
- Colony Maintenance
- Other

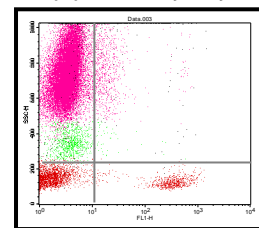
Cell-Based Assays

Proliferation, Apoptosis, Protein Induction, Immunology, etc.

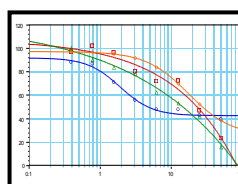
Fluorescence Microscopy



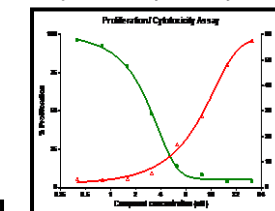
Subpopulation Analysis by FACS



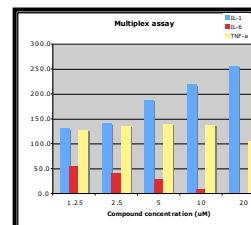
Adhesion Protein Expression



Multiparameter Cytotoxicity Assay



Multiplex Cytokine Quantification



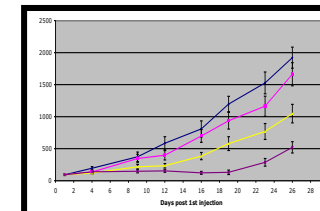
Cell Based Assay Development

Signaling, ADCC, CDC, Cell Binding, etc

In Vivo Services

Oncology, Diabetes, Arthritis, Cardiovascular, etc

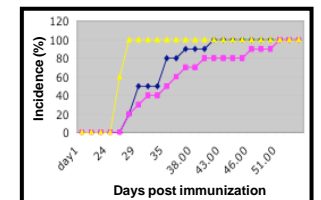
Lymphoma Tumor Model



Species

Mouse
Rat
Hamster
Guinea Pig

Arthritis Model

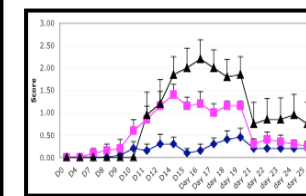


Rapid Turn Around

PK Studies

Oral, Intravenous, Intraperitoneal, Alzet Pump, Cannula Infusion
• In House BalbC Colony

Multiple Sclerosis Model

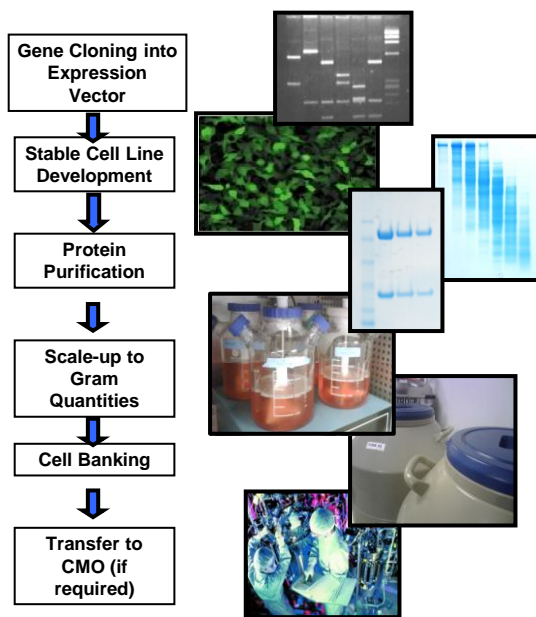


Custom Model Development

Microsurgery, Immunohistochemistry, Ex-vivo cellular analysis, etc.

Cell Line Development

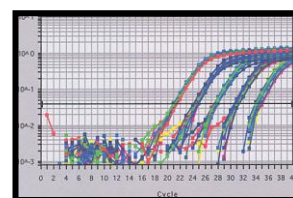
Antibodies, Cytokines, Kinases, Antigens, Hybridomas etc.



Molecular Analysis

Genotyping, Gene Copy Number, Methylation, qPCR

Quantitative PCR



Applications:

- mRNA expression analysis
- Gene copy number in stable cell lines

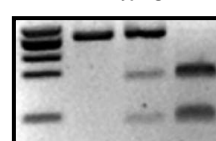
Cloning Services

- cDNA cloning from cell lines or tissue
- Isotype switch of immunoglobulins
- Generation of gene variants via mutation
- Transient and stable vector generation

Applications:

- Promotor regulation
- Pharmacogenomics
- Allelic frequency determination

Genotyping



Aragen's Track Record

Experience + Commitment = High Quality

- Originally founded as Sierra Biosource in 1993
- Diverse customer base with varying research needs
- High percentage of Ph.D.'s with varied skill sets
- Flexible, motivated scientists and management
 - Commitment to individual customer needs

- Diverse Skill Set
- Custom Solutions
- Rapid Turn Around
- Attention to Detail