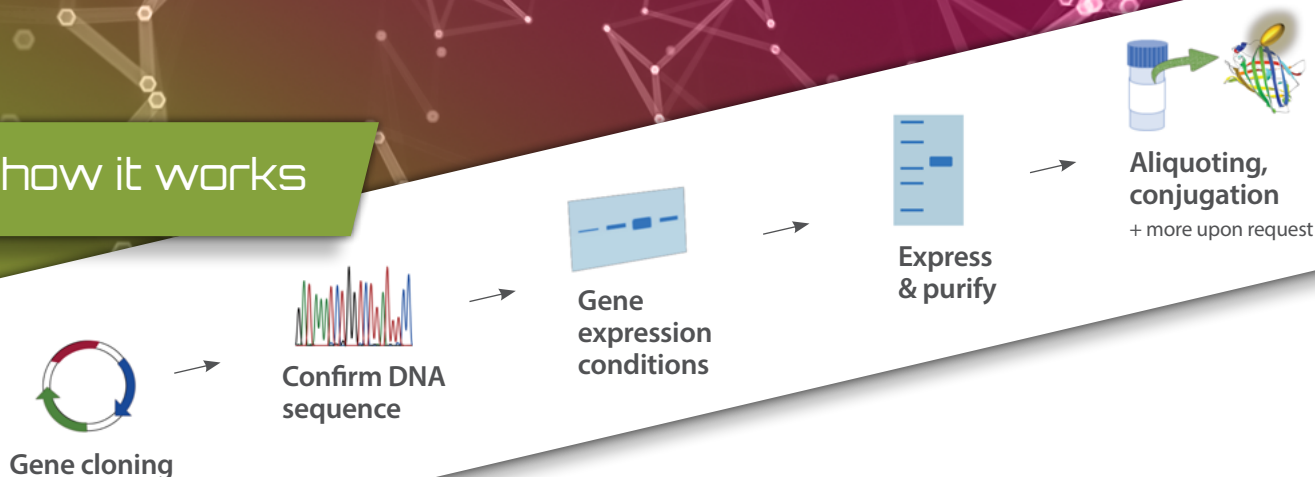


Recombinant Proteins

Off-the-Shelf & Custom Service

COMPREHENSIVE GENE 2 PROTEIN SERVICE

how it works



Can't find your protein-of-interest on the market?

We offer a comprehensive **custom recombinant protein** service:

- Gene cloning through protein purification
- Protein desalting, lyophilization, vialing
- Conjugation to tags, fluorophores, or other labels



Bacterial Expression System

- *E. coli* culture
- Fast, cost-effective production
- Easily scalable
- High purity (> 95%)
- 3-week turnaround time



Mammalian Expression System

- High density HEK293 suspension culture
- Best for producing native conformations & post translational modifications
- Easily scalable
- High purity (> 95%)
- 2-month turnaround time



Check out our diverse catalog of purified & overexpressed **off-the-shelf native & recombinant proteins**

Epitope Mapping

Peptide Arrays & Service

HIGH THROUGHPUT EPITOPE MAPPING

Identify the binding site of your antibody

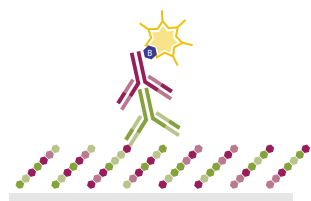
how it works



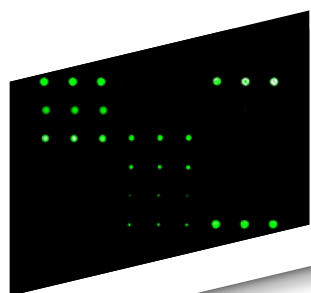
Design of Overlapping Peptides & Peptide Synthesis
using high purity peptides



Array Printing
Peptides are printed on a glass slide.



Array Testing
(RayBiotech or Do-It-Yourself)
Primary antibody or serum +
Biotin-conjugated secondary antibody +
Cy3-streptavidin



Data Analysis
The specific binding of each epitope
is evaluated.

APPLICATIONS of epitope mapping

- Identify high antigenicity epitopes for antibody production & vaccine development
- Locate (auto)antigen epitopes of (auto)antibodies
- Define the best antibody clone against the protein-of-interest
- Perform epitope mutant analysis
- Map B cell epitopes

Comprehensive Service Package

We can design and produce your peptide array, test your antibody (or serum) samples, and analyze the data for you.

High Throughput Peptide Screening

Simultaneous analysis of hundreds to thousands of overlapping epitopes.

Low Sample Consumption

Use as little as a few microliters (μ l) of antibody

High sensitivity

Biotin-streptavidin + fluorescent dye = most sensitive assay available to measure signal.

Wide dynamic range of detection

Up to 4 orders of magnitude.