



20 YEARS OF INDUSTRY USE

Now broadly available for the production of biologics used in human and animal health.

approved products

Teriparatide injection (Alvogen) Rylaze® (Jazz) VAXNEUVANCE® (Merck) Pneumosil® (Serum Institute) MenFive® (Serum Institute)

years of international regulatory experience and success

lead protein candidates expressed with over 60+ partnerships, including with 12 of 15 top pharmas

SPEED WITHOUT COMPROMISE

Flexible business model enables our development partners, from start-ups through large pharma, to advance their programs quickly.

Experienced scientific team with deep institutional knowledge in producing a broad range of protein-based therapeutics, including novel antibody formats, recombinant enzymes, and vaccines.

Rapid, high quality, high yield production and analysis of difficult-to-produce proteins.

SCREENING

Industry-leading in the design and screening of a broad array of expression strains

HTP STRAIN CONSTUCTION



EVALUATION

Production and analysis of the expressed protein for function, titer, and quality

Ability to screen multiple proteins simultaneously

Down selection of 5-10 production strain candidates for fermentation

FERMENTATION

Four weeks to fermentation assessment of down selected strains and identification of optimal production strains

Fermentation development performed at 2L DOE scale

PURIFICATION

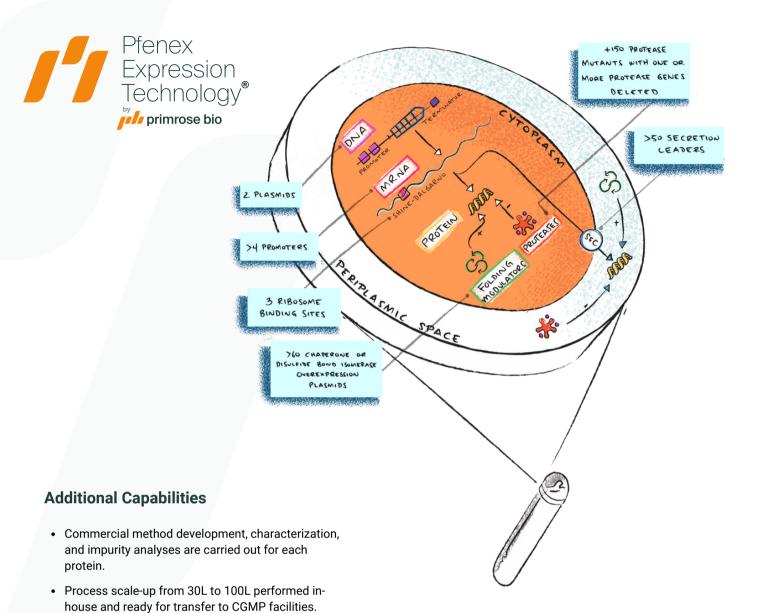
Automated downstream processing options evaluated in parallel 96-well

HTP HARVEST AND ANALYSIS









Toolbox

chromatography.

 Thousands of expression plasmid and host cell phenotype combinations.

 Scalable, CGMP ready purification processes are developed and implemented through skid scale

- Non-tagged, soluble protein expression to the periplasm.
- An animal origin and antibiotic resistance free process from the start.

Successes

- Five commercial products use the Pfenex Expression Technology® platform as a manufacturing substrate: from enzyme replacement therapies to conjugate vaccines.
- More than 25 issued U.S. patents.
- Over 25 GMP technology transfers to global manufacturers to date.



Contact

To learn more, please reach out to partnering@primrosebio.com

Visit primrosebio.com