



Protein Production Service

IT offers customer protein production service with quality and flexibility in mind. Our choices of expressing systems: mammalian cells (HEK-293); baculovirus; yeast; and E.coli; will give our customers great flexibilities to cost-effectively meet their needs.

Timeframes

A. HEK-293 Mammalian System

Feature: Best choice for expressing almost any protein, with best success rate for secreted proteins

| Phases | Time |
|--|-----------|
| I. Expression vector construction | 1 week |
| II. Amplification of recombinant Plasmid | 1 week |
| III. Protein production | 1 week |
| IV. Purification | 1-2 weeks |
| Total | 4-5 weeks |

B. Bacterial System

Feature: Cost effective; protein size up to 250 kDa

| Phases | Time |
|--|-----------|
| I. Expression vector construction | 1-2 weeks |
| II. Generation and selection of bacterial colonies expressing target protein | 1-2 weeks |
| III. Culture of recombinant bacteria | 2 days |
| IV. Purification | 2-3 weeks |
| Total | 4-7 weeks |

C. Baculoviral System

Feature: Protein expressed in this system lacks most post-translational modifications; nearly unlimited protein size

| Phases | Time |
|--|-----------|
| I. Expression vector construction | 1-2 weeks |
| II. Generation and selection and plaque purification of baculoviral colonies expressing target protein | 2-3 week |
| III. Amplification of recombinant baculovirus; generation of high-titer virus stock | 1 week |
| IV. Protein production | 1 week |
| V. Purification | 1-2 weeks |
| Total | 5-9 weeks |



Protein Production Service

D. Yeast System

Feature: Cost effective

| Phases | Time |
|--|-----------|
| I. Expression vector construction | 1-2 weeks |
| II. Generation and selection of yeast colonies expressing target protein | 1-2 weeks |
| III. Protein production | 1 week |
| IV. Purification | 2-3 weeks |
| Total | 5-8 weeks |

Cost

- 1) Set-up fee: \$500

The set-up fee includes the cost for constructing the expression vector and testing the protein expression.

- 2) Price based on requested scale of protein production:

Mammalian/Baculoviral System -

1 mg: \$2,800
5 mg: \$2,200/mg
10 mg: \$2,000/mg
20 mg: \$1,800/mg

Bacterial/Yeast System -

1 mg: \$2,000
5 mg: \$1,100/mg
10 mg: \$850/mg
20 mg: \$600/mg

Guarantee

- Purity: >95% for secreted proteins
>75% for intracellular proteins