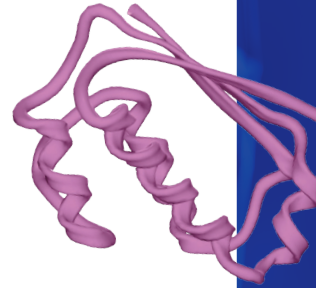


# Recombinant Protein Service



High-level expression



High success rate



High-throughput and large-scale protein production



Fast delivery as short as 2 weeks

Tsingke offers a comprehensive one-stop service, that covers gene synthesis, protein structure analysis and design, protein expression, as well as efficient transfection and purification. Committed to guiding researchers at every step, our “recombinant protein expression service” aims to maximize the success of research projects, accelerating the journey toward groundbreaking discoveries.

## Six Expression Systems



*Escherichia coli*



*Bacillus subtilis*



*Pichia dushanensis*



Mammalian

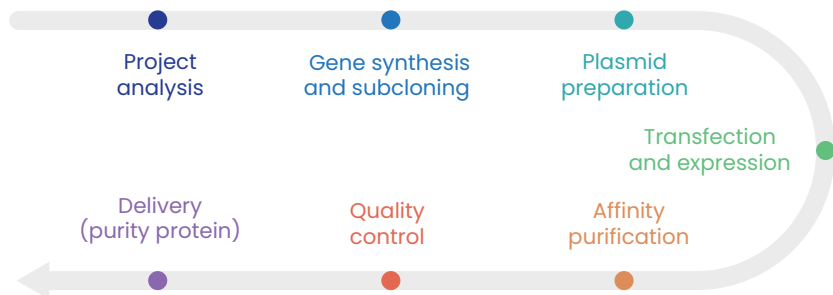


Baculovirus -insect



Cell-free

## Workflow



## Service Details

Expression System	Service Name	Features	Turnaround Time	Service Code
E. coli	Standard Service	One plasmid delivered	3-5 weeks	Tsingke-P01-1
	Guaranteed Service	≥3 strategies provided to ensure protein expression and purity	4-6 weeks	Tsingke-P01-2
	High-Throughput Service	≥50 constructs/batch, up to 200 constructs/batch	2-3 weeks	Tsingke-P01-3
	Rapid Expression Service	Protein expression & purification in a single day	1-2 weeks	Tsingke-P01-4
	Expression Verification Service	Validation at 3 temperatures and 2 inducer concentrations; SDS-PAGE and expression report provided	1 weeks	Tsingke-P01-5
Bacillus subtilis	Expression Verification Service	Expression verification; positive clones delivered	2-4 weeks	Tsingke-P02-1
	Small-Scale Expression	Small-scale expression & purification, 100 mL	3-5 weeks	Tsingke-P02-2
	Scale-Up Expression	Scale-up expression & purification; ≥1 L based on client requirements	4-7 weeks	Tsingke-P02-3
Yeast	Expression Verification Service	Expression verification; positive clones delivered	2-3 weeks	Tsingke-P03-1
	Small-Scale Expression	Small-scale expression & purification, 100 mL	3-4 weeks	Tsingke-P03-2
	Scale-Up Expression	Scale-up expression & purification based on small-scale results	6-9 weeks	Tsingke-P03-3
Insect (Baculovirus)	Small-Scale Expression	Small-scale expression & purification, 200 mL	5-7 weeks	Tsingke-P04-1
	Scale-Up Expression	Scale-up expression & purification based on small-scale results	7-9 weeks	Tsingke-P04-2
Mammalian Cell	Small-Scale Expression	Small-scale transient expression & purification, 100 mL CHO or HEK293	3-5 weeks	Tsingke-P05-1
	Scale-Up Expression	Scale-up expression & purification based on small-scale results	5-7 weeks	Tsingke-P05-2
Cell-free protein expression (prokaryotic system)	Non-membrane proteins	Optimized for soluble, non-membrane targets	3-5 weeks	Tsingke-P06-1
	Scale-Up Expression	Optimized for hydrophobic, membrane-embedded targets	4-5 weeks	Tsingke-P06-2

## Deliverables

· Purified protein

· QC analysis

### Optional

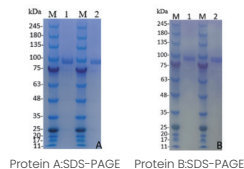
· Plasmid contain gene of interest  
· Endotoxin test

· HPLC-SEC  
· MS etc

Delivery standard: evaluate each order's SDS-PAGE result

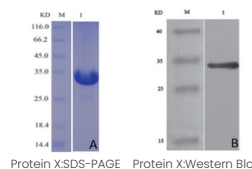
## Case Study

#Case1: Protein expression in *Mammalian cell*



Project	SDS-PAGE	Yield	Turnaround time
A: 80 mL expression	>90%	1:15 mg/L; 2:13 mg/L	~3 weeks
B: 1 L expression	>90%	1:13 mg/L; 2:11 mg/L	~3 weeks

#Case2: ProteinX expression in *Escherichia coli*



Project	SDS-PAGE
ProteinX	>90%
Yield	Turnaround time
30 mg/L	~3 weeks



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