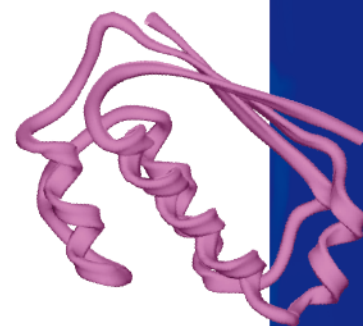


Recombinant Protein Service



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

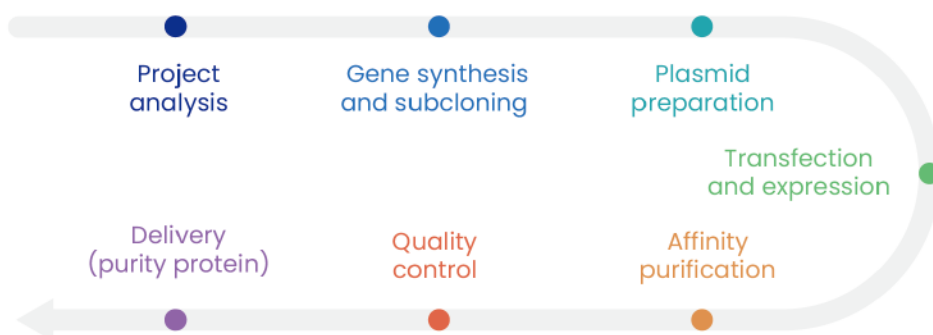


Baculovirus-insect



Cell-free

Workflow



Service Details

Service name	Service details	Turnaround time
Escherichia coli expression system	Codon optimization, gene synthesis and subcloning	1~2 weeks
	Expression purification testing (optimized under various conditions)	2~3 weeks
	Shipment of samples and experiment report	-
Bacillus subtilis expression system	Codon optimization, gene synthesis and subcloning	1~2 weeks
	Expression purification testing	2~3 weeks
	1 L fermentation purification	1~2 weeks
	Shipment of samples and experiment report	-
Yeast expression system	Codon optimization, gene synthesis and subcloning	1~2 weeks
	Antibiotic screening	1 week
	Pilot protein expression evaluation (Methanol concentration and induction time optimization wit 2 positive clones.)	1~2 weeks
	Purification testing (100 mL expression purification with the optimal clone under the best expression conditions)	1~2 weeks
	1 L fermentation purification	1~2 weeks
	Shipment of samples and experiment report	-
Insect expression system	Codon optimization, gene synthesis and subcloning	1~2 weeks
	P1 virus stock generation and expression testing (Plasmid transformation, bacterial growth, blue-white screening, plasmid extraction, transfection, P1 expression verification, SDS-PAGE or Western blot)	2~3 weeks
	P2 virus stock generation and optimization of expression conditions (P2 virus generation, MOI testing, SDS-PAGE or Western blot)	2~3 weeks
	200 mL expression purification testing and protein sample delivery	1 week
	1 L insect cell scale expression and purification	1~2 weeks
	Shipment of samples and experiment report	-
Mammalian expression system	Codon optimization, gene synthesis and subcloning	1~2 weeks
	80 mL expression testing	1~2 weeks
	1 L scale expression and purification	1~2 weeks
	Shipment of samples and experiment report	-
Cell-free expression system of Escherichia coli	Different non-membrane protein/membrane protein protocols, protein-specific analysis and design	3~5 weeks

Deliverables

Optional

· Purified protein

· QC analysis

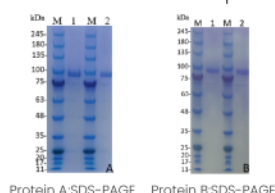
· Plasmid contain gene of interest
· Endotoxin test

· HPLC-SEC
· MS etc

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

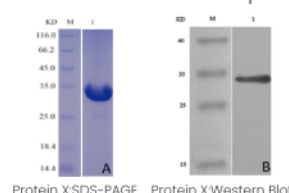
Case Study

#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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Tsingke



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