

# Custom Service

## DNA Cloning service

NKMAX's DNA cloning service provides subcloning, mutagenesis and gene synthesis services.

Services	Description	Deliverables	Prices	Lead Time
Subcloning ( <i>E.coli</i> )	Subcloning into one expression vector	Vector containing target gene & Report	\$550	2 weeks
Subcloning (Baculovirus)	Subcloning into one expression vector	Bacmid containing target gene & Report	\$700	2-3 weeks
Subcloning (Mammalian)	Subcloning into one expression vector	Plasmid DNA containing target gene & Report	\$650	2-3 weeks
Additional Service (Mutagenesis)	The first amino acid mutation(3bp) is a fixed price addition to the sub-cloning fee. Please ask for a quote since different factors play a role in the price.	Destination vector containing target gene after mutagenesis & Report	\$550~	3 weeks

※ VAT excluded

### Notes

1. The above price list is only for genes shorter than 1.5Kb. For longer genes, we add an additional \$120 per Kb for screening and sequencing.
2. The target gene must be provided by customer. If not, DNA synthesis will be processed, and the price will be charged on its actual expenses.
3. If a specific destination vector is desired, the customer must provide it.
4. Our delivery package includes the vector containing target gene and report.

## Protein Expression & Purification Service

NKMAX has a great expertise in developing recombinant proteins using various expression systems (i.e., *E. coli*, Baculovirus, etc.). We provide the optimized protein expression and purification services.

### Baculovirus Expression Full Service

Services	Description	Deliverables	Prices	Lead Time
Recombinant virus production, Protein expression, and Purification	Setup fee	Report	\$200	4-6 weeks
	Transfection of insect cell with recombinant Bacmid DNA	Purified protein & Report	\$4,100	4-6 weeks
	Amplification of Recombinant virus			
	Recombinant virus expression in insect cells			
Purification (Expression in 200mL media with one purification)				

### Notes

#### Baculovirus Expression Full Service

1. The service setup fee is \$200 for the protein production. The setup fee is charged even if failed.
2. The basic service price is based on 200mL of culture medium which is one purification. There will be additional charge for scale up and additional purification steps.

### Mammalian Cell Expression Full Service

Services	Description	Deliverables	Prices	Lead Time
Protein expression and Purification	Setup fee	Report	\$300	4-5 weeks
	Transfection of mammalian cell with recombinant plasmid DNA	Purified protein & Report	\$2,600	4-5 weeks
Purification (Expression in 120mL media with one purification)				

#### Mammalian Cell Expression Full Service

1. The service setup fee is \$300 for the protein production. The setup fee is charged even if failed.
2. The basic service price is based on 120mL of culture medium which is one time purification. There will be additional charge for scale up and additional purification steps.

### *E.coli* Expression Full Service

Services	Description	Deliverables	Prices	Lead Time
Expression and Identification of target protein	The expression level and pattern of the desired protein is checked using the expression system possessed by NKMAX	Report including SDS-PAGE Image	\$100	1 week
Protein Purification	Option 1 In this step, a chromatography method is used, and the purification step and price are determined by the level of solubility and expression of the desired proteins.	Total amount of protein produced based on a 1L which is one purification	\$1,800~	2-3 weeks
	Option 2 Insoluble protein is provided in a denatured form without additional purification. (There is no chromatography process. It can be used for general antigen and WB)	Total amount of un-folded protein obtained in the final buffer in which 20mg of inclusion body is dissolved.	\$1,200	2-3 weeks
Additional Service	Western Blot of the desired protein can be performed at no extra cost. (But, it is only possible if you provide antibodies.)	Western Blot assay image	Free	1 week
	The endotoxin level of the desired protein is measured by the LAL method. We provide the measured values, but we do not guarantee.	Report	\$150	1 week

#### *E.coli* Expression Full Service

1. The service charge is divided according to the desired level of protein expression, solubility, and purification stage. The additional items can be added according to the customer's needs.
2. Expression and Identification of target protein is a mandatory first step to determine the price of purification. Fees for this step are charged even if the desired protein is not expressed.
3. The basic service charge is based on 1L of culture medium which is one purification. There will be additional charge for scale up and additional purification steps.
4. Additional costs will be charged if you request for endotoxin removal, refolding, high-concentrated protein, solubility or special buffer composition.

※ All Expression Full Services are VAT excluded.

# NKMAXBio

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# Custom Service

## Monoclonal Antibody Service

NKMAX's monoclonal antibodies are produced in hybridoma cell lines derived from the fusion of myeloma cells and antibody-producing B-lymphocytes. We guarantee two positive clones for monoclonal antibodies developed in mouse.

Services	Deliverables	Prices	Lead Time
Mouse monoclonal antibody production service	2 clones of Hybridoma cell + 2 purified Antibodies (ELISA)	\$4,500	3-6 months
	2 clones of Hybridoma cell + 2 purified Antibodies (ELISA & Western Blot)	\$6,500	3-6 months
	Additional Hybridoma clone (ELISA)	\$1,600	2-3 months
	Additional Hybridoma clone (ELISA & Western Blot)	\$2,500	2-3 months
Antibody purification	Total amount of purified antibody (at least 1mg)	\$1,000/EA	2 months

※ VAT excluded

### Notes

- The above prices are for the production of antibodies using antigens provided by the requestor. For any protein antigen (at least 2.5 mg, > 80% purity in SDS-PAGE) we guarantee two positive clones or more with positive ELISA results. If not, we also provide a custom protein service at an extra charge.
- There is a setup fee of \$200 when we start a custom monoclonal antibody project. The setup fee is included in the above price.
- ELISA screening is also performed in ELISA(250ng/well, General selection standard: OD value  $\geq$  1.0).
- Western Blot for screening is performed using cell line or tissue lysates. However, if a specific cell is requested, and we do not have it, the client should provide it.
- In special cases the lead time may be longer than indicated; you will be notified if it's likely the case.

## NKMAX Reagent Products

We provide high purity of recombinant proteins with DNA library through our specialized technology of DNA cloning, purification, and various expression systems. We also supply high quality monoclonal antibody through our know-how of antigen design technology with suitable immune method.

### Recombinant Protein

We provide the recombinant proteins produced through various expression systems such as *E.Coli*, Baculovirus, and mammalian cells.

We are building a large number of major genes of human and mouse and based on this, we have optimized our purification system with thorough QC process to provide high purity of recombinant proteins.

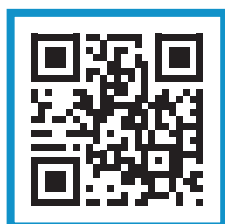
Products	Description
Cytokines	Interleukin, IFN, GH, EGF, IGF, VEGF, TNF- $\alpha$ , TNF- $\beta$ , BMPs ... and more
Enzymes	Aldose reductase, GPT, GST, GOT, GAPDH, G3PD, PP2C ... and more
Cancer	BID, Bcl2, 14-3-3 series, ADK, BAG2, p53, p21, NKp46, KRAS ... and more
Metabolism	ApoA1, Alpha-enolase, CRADD, CA2, DLD, Hexokinase, APRT ... and more
Others	Various proteins such as Neuroprotein, Adipocytokine, Heat shock protein, etc.

### Monoclonal Antibody

Our monoclonal antibody is distinguished in that it is produced in house with our specialized SP technology, and it has been recognized in overseas markets.

We are developing high quality monoclonal antibody based on the accumulation of research, development know-how, antigen design technology with suitable immune method, high cell fusion success rate, and screening technology.

Products	Description
Various Applications	Western Blot, ELISA, Immunocytochemistry(ICC), Immunofluorescence(IF), Immunohistochemistry(IHC), Flow Cytometry(FACS)
Major Products	KRT20, ALDOA, RASSF1A, SUMO2/3, ISG15, IRF-5, NPM1, Beta-Tubulin, Wnt3a, HSP27, HSP60, HSP90, FABP1, GSTT2, VTA1 ... and 400 more



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