

Bioneer Corporation
8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon, 34302
Republic of Korea
Tel: +82-42-930-8777 (Korea : 1588-9788)
Fax: +82-42-930-8688 E-mail: sales@bioneer.com

Bioneer Inc.
155 Filbert St. Suite 216
Oakland, CA 94607, USA
Toll Free: +1-877-264-4300 Fax: +1-510-865-0350
E-mail: order.usa@bioneer.us.com

Bioneer R&D Center
Korea Bio Park BLDG #B-702, 700 Daewangpangyo-ro
Bundang-gu, Seongnam-si, Gyeonggi-do, 13488
Republic of Korea
Tel: +82-31-628-0500 Fax: +82-31-628-0555

Notes on ordering Gene Synthesis (Cloning/Mutagenesis/Gene to Protein/mRNA Synthesis)

1. Sequence Name

Enter without spaces. (Possible characters: alphabet, number, hyphen [-], underscore character [_], parentheses [()], dot [.]

2. Codon optimization

Enter the linked site and input it into the specified form and check the sequence. (Enter the amino acid sequence or DNA sequence in multiples of 3 in fasta format. When entering the enzyme site, make sure the case is case-sensitive and the numbers are in capital letters)

3. Sequence

Enter the DNA sequence (A, T, G, C) without spacing. (Error in amino acid sequence and 'N' input)

4. Gene Synthesis Vector

Bioneer 13 types of vector are available, see vector information page.

5. Toxic

Inhibition of cell growth on *E. coli* system, or only in mutant form during synthesis. (Select 'No' if you do not know)

6. Gene Synthesis *E. coli* Stock Service

In addition to gene synthesis products, additional services are provided in the form of *E. coli* (picked in solid medium and cultured-Not Glycerol stock).

7. Gene Synthesis Plasmid Increase Service

Choose a larger amount (100 ug) than the default (plasmid, 2 to 5 ug).

8. AccuGeneBlock Scale

Choose a larger amount (5 ug) than the default (PCR product, 0.5 to 1 ug).

9. AccuGeneBlock End Type

A 'tailing' is provided, and 'blunt' is selectable.

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10. Gene synthesis product receipt

Choosing whether to receive gene products when using other services after gene synthesis.

11. Mutant Position

Position bp is based on original sequence. See 'help' when typing.

12. Customer provided Vector

Whether or not the customer will provide the Vector (If you choose 'No', the quote will show \$ 500 as the cost of purchasing the vector. When the product is shipped, you will be charged for the actual cost of the vector purchase).

13. Cloning Vector Sequence

Vector full sequence input. (If the sequence entered does not match the actual sequence, 50% of the cost of the cloning service will be charged).

14. Antibiotics Name

Please choose Ampicillin or Kanamycin from 'Please select', or enter the name if you have other antibiotics (Streptomycin, Chloramphenicol, Zeocin only, Additional charge will be charged).

15. 5' & 3' Enzyme Name

Select the cloning enzyme from 'Please select'. If the enzyme is not listed, enter its name (Additional charge will be charged).

16. Sequence (Gene to Protein)

Enter sequence after *E. coli* codon optimization.

17. Gene to Protein Vector

Only pBT7-N-His or pBT7-C-His (please, confirm a stop codon of gene) vectors are available, see vector information page.

18. Storage buffer

If not input, it is provided as the following basic buffer.

(Buffer 1 for Normal protein ; 50mM Tris-Cl(pH7.6), 100mM NaCl, 1mM DTT, 0,1mM EDTA, 0.05%(v/v) Na₃N, 50%(v/v) glycerol)

(Buffer 2 for Disulfide protein ; 50mM Tris-Cl(pH7.6), 100mM NaCl, 1mM DTT, 0.05%(v/v) Na₃N, 50%(v/v) glycerol)

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19. mRNA synthesis sequence

Please, insert DNA sequence(A,T,G,C) at all of mRNA synthesis service.

20. Preview invoice

You can check the quote based on the information you entered. If an error message appears or you cannot confirm the quote, check the following.

(DNA Seq, H error: gene input sequence error, H in sequence)

(Possible size confirmation for each service: AccuGeneBlock 100 bp ~ 1000 bp, Rapid 1-1500 bp, Gene to protein 300 bp ~)

(If the gene analysis contents are shown but there is no estimate: the service is not possible due to the high degree of gene synthesis)

Notice

Bioneer corporation reserves the right to make corrections, modifications, improvements and other changes to its products, services, specifications or product descriptions at any time without notice. All information provided here is subject to change without notice.