

## Synthetic Gene Services

### Introduction:

Synthesis of a gene "synthetically" allows scientists to avoid difficult gene cloning experiments where:

- Gene expression is tissue specific, enzyme treatment specific and/or growth stage specific. Thus, RT-PCR based gene cloning experiments would be very tedious
- Exon - intron boundaries not well demarcated because of non-availability of genome sequence data and or complete gene sequence data (showing intron - exon boundaries)
- Synthesis of DNA fragments containing regulatory sequences is required.

**Note:** Please Contact  
geneiservice@sanmargroup.com

### Features:

- The synthetic gene would be synthesized following "modified recursive PCR" technology
- The gene will be cloned in a standard cloning vector (pUC18).
- Multiple clones will be sequenced and the clone having no or minimum mutations will be selected.
- Mutations, if present, would be reverted 'free of cost'.
- A confirmed clone having no mutations would be delivered to the scientist.

### Deliverables:

1. Synthetic gene: synthesized, cloned and purified DNA - 5 µg
2. Original sequencing data
3. Blasted sequence data (showing 100% homology)
4. Project Report

### Delivery Time:

Up to 1000 bp : 6 - 8 weeks  
Up to 2000 bp : 8 - 12 weeks

## Ordering Information:

Catalogue Number	Service	Pack Size
<b>SYNTHETIC GENE SERVICES</b>		
105307	Synthetic Gene Service: 1 (Gene Synthesis, Sequence verification & Cloning Service upto 1000 bp)	Per base pair
105308	Synthetic Gene Service: 2 (Gene Synthesis, Sequence verification & Cloning Service from 1000 bp to 2000 bp)	Per base pair
116705	Advanced Gene Synthesis (Gene synthesis of secondary structure) Note: The minimum charge for each gene is Rs. 25000	Per base pair

*Service Tax as applicable will be charged extra*

## Application Form for Gene Synthesis, Cloning and Sequencing Services

**Order No. / Date:**

**Name of the Scientist:**

**Institute/Address:**

**Gene Description:**

1. Sequence of the synthetic gene:  
(Sequence data should also be sent in a floppy)
2. Size of the synthetic gene (bp):
3. GC - percentage of the synthetic gene:

**Please do not consider this application form as a purchase order**

**NOTE:** Kindly send this application to the following address:

Bangalore Genei Services, No. 6, 6th Main, BDA Industrial Suburb, Near SRS Road, Peenya, Bangalore - 560058.