

10 SECOND OVERVIEW



- » De novo synthesis of any double stranded DNA
- » Your choice: Short double-stranded fragments, complex genes or complete gene libraries
- » Free sequence optimisation
- » Express Genes up to 1000 bp in a Eurofins Genomics standard cloning vector delivered in only 4 days
- » Express GeneStrands up to 1000 bp as dsDNA fragment in 48 hours at your bench
- » Secure ordering, tracking and storage of your data
- » Strict confidentiality for every project

” DISCOVER ALL
DETAILS OF OUR
PORTFOLIO BEHIND
THE QR CODE



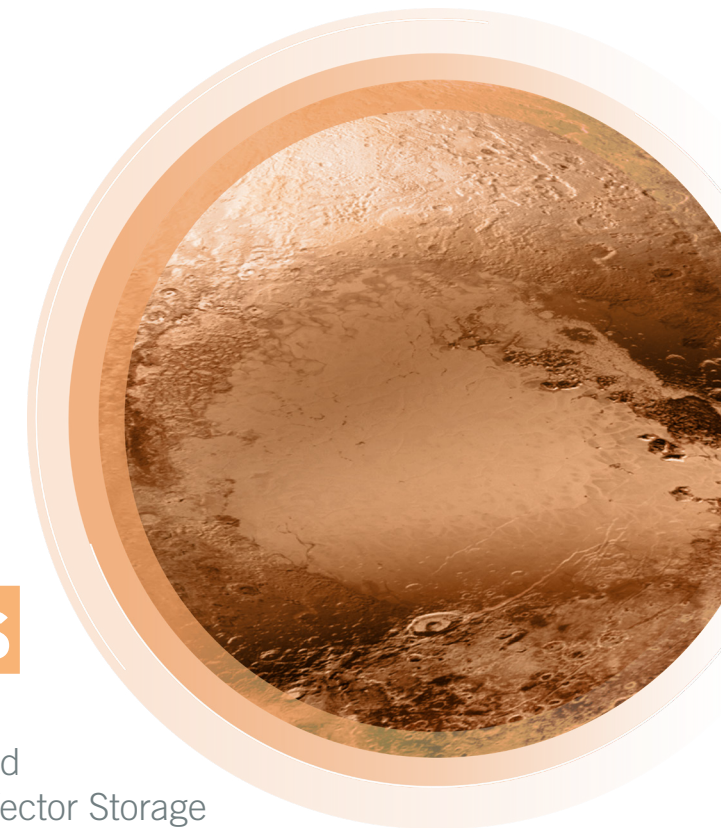
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Gene Synthesis

” Fast Turnaround
Times & Free Vector Storage



THE DNA UNIVERSE

HOW TO ORDER SYNTHETIC GENES



SYNTHETIC GENES CAN EASILY BE ORDERED IN OUR ONLINE SHOP.

The gene synthesis order wizard comprises all the functionality needed to order a gene online:

- DNA or amino acid sequences as entry format
- Free, immediate codon usage adaption and codon optimisation using GENEius
- Customize your optimization by specifying “bad motifs to avoid”
- Subcloning into your vector of choice
- Various plasmid preparation scales
- Endotoxin-free preparation

OPTIMISATION, VECTOR, PREPARATION

Optimisation [open](#) / [close](#)

Sequence type: ☒ DNA ☐ AminoAcid

Optimise for: ☐ Non Optimized

5' Restriction site:

3' Restriction site:

Vector Information [open](#) / [close](#)

Vector Type:

Vector Details: Your gene will be subcloned into a standard cloning vector with ampicillin selection marker at no extra cost or turnaround time. Vector map information can be found [here](#).

Plasmid Preparation [open](#) / [close](#)

Scale:

Additional Prep Options [open](#) [close](#)

☐ Endotoxin free ☐ Sterile

☐ Animal-free ☐ Sterility Testing

☐ Endotoxin Testing ☐ Bioburden Testing

☐ Linearisation Maxi

[Next](#)

For routine orders we have great add-ons for you:

- Save your gene settings as templates for your next order
- Store your vector at Eurofins (Save time & costs)

GENE SYNTHESIS – Go Beyond



Optimise your research with Eurofins Genomics’ high quality synthetic DNA products. Partial or full length genes, open reading frames (ORF), cDNAs, promoters, qPCR standards or artificial genes – any double stranded DNA sequence can be synthesised “de novo” and subsequently subcloned into a plasmid vector of choice.

Synthetic genes

- Available in any size
- Express option available
- Fast turnaround times
- Free, immediate online gene optimisation
- Special strategies for complex genes

GeneStrands

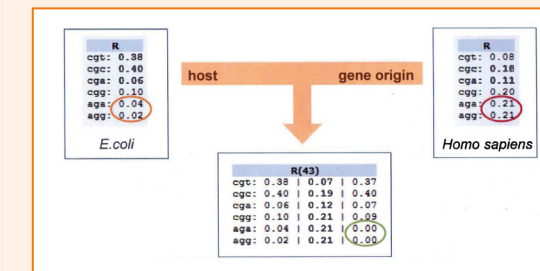
- Available up to 3000 bp
- GeneStrands are not cloned → cost efficient alternative to genes
- Express option available (in 48h @ your bench)

GENEius – Optimises Your Sequences



Gene optimisation is an important factor for successful protein expression. At Eurofins Genomics we have developed our own software tool for gene optimisation, called GENEius.* Very often the optimisation of the sequence also leads to a standard sequence (faster TAT, lower price). GENEius uses codon usage tables of the heterologous expression host in order to improve protein expression:

- Usage of codons with high frequencies based on the selected organism
- Avoidance of rare codons of the expressing organism
- Removal of unwanted motifs or secondary structures, for example repeats or hairpin structures
- Evenly distributes G and C bases



*GENEius has been designed in cooperation with BioLink GmbH, Planegg-Martinsried.