Quality Assurance & Ordering.

High Quality Synthetic IVT-RNAs.

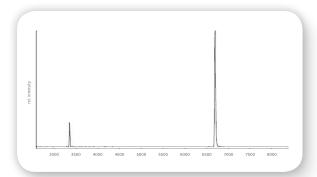
Feel Free To Contact Us.

eurofins | Genomics

Custom RNA Oligos

100% QC of each RNA oligonucleotide

Every custom RNA Oligo undergoes strict analytical quality controls to verify the correct quantity and quality. OD measurement is used to calculate the quantity. The quality and identity of each oligo is measured by MALDI-TOF MS.



MALDI analysis of an oligo: 26.01.2015.

Fast and convenient online ordering

Conveniently order your single stranded RNAs, siRNAs and O-Methyl-RNAs / Chimerics via our online shop.

- Easy upload and copy & paste options
- Modifications can be entered directly in the sequence
- Set personal preferences during checkout
- Convenient payment with the EVOcard







Very long ssRNA, dsRNA and mRNA

In cooperation with our partner AmpTec we can offer a full range of very long synthetic RNA with customer-defined sequences. Any size from 100 bp up to several kb's in any amount for a variety of applications are possible:

Synthetic, unmodified single-stranded RNA (ssRNA)

- Internal control RNAs as process and performance controls
- Positive control RNAs for real-time RT-qPCR assays

Double-stranded RNA (dsRNA), synthesised from ssRNA

- Control template for dsRNA viruses
- Regulation of gene expression
- Vaccination tool

Functional synthetic mRNAs, incl. 5'-cap and polyA tail

- Activity as vaccines
- Protein expression in gene therapy
- Reprogramming of cells with custom-designed, highly-modified mRNAs

Biotin-RNA with one specific biotin at the 5'-end

Bait to capture RNA-binding compounds, without disturbing the full RNA sequence functions.

All IVT-RNAs are available in research grade (ISO 13485) and GMP grade (compliant with FDA 21 CFR part 820).

Please send us your request outlining your specific scope and project requirement!



Toll free phone numbers

Email:

 $support \hbox{--} eu @euro fins.com$

Phone:

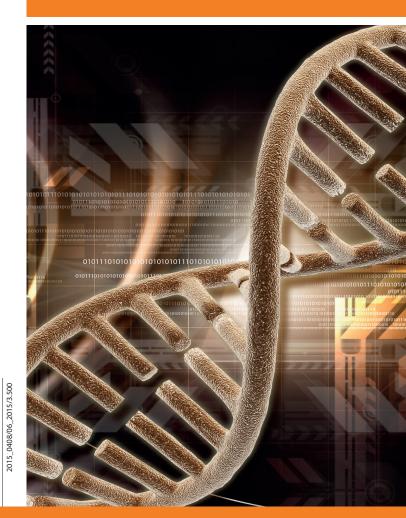
+49 8092 82 89-77

Official business hours:

8 a.m. - 6 p.m. CET



Eurofins Genomics · Anzinger Str. 7a · 85560 Ebersberg eurofinsgenomics.com



ssRNA, dsRNA, mRNA, siRNA, Chimerics.

RNA synthesis customised for your research

Whatever RNA you need, we can synthesise it for you:

Single stranded RNA (ssRNA) oligos

- Sequence length from 6 to 80 bases
- Desalted or HPLC purified
- Synthesis scales from 0.05 to 1.0 μmol
- Huge variety of modifications available

O-Methyl-RNA / Chimerics

- Mixed DNA/RNA bases with or without PTO bounds
- Sequence length from 6 to 80 bases
- HPLC purified
- Synthesis scales from 0.05 to 1.0 μmol

Small interfering RNA (siRNA)

- Annealed duplex ready to use
- Sequence lengths from 17 to 27 bases
- Desalted or HPLC purified
- Fixed quantity of 20 nmol and 40 nmol



Very long synthetic IVT - RNAs

- Sequence lengths up to several kb
- Available in amounts of 5μg, 50μg and 1mg
- Pre-defined and customised mRNAs
- Additional services and QC available

First class ssRNAs & Chimerics up to 80 bases

Eurofins Genomics brings decades of expertise to create synthetic single stranded RNA oligos of impeccable quality to accelerate your research.

Single stranded RNA (ssRNA) oligos

Our chemically synthesised ssRNA oligonucleotides are available up to 80 bases.

- Guaranteed yields per scale and purification
- Quality control by MALDI-TOF MS
- Delivery within 6-8 working days

Guaranteed yields:

Purification Option	Purity	Synthesis Scale	0.05	0.20	1.00
Desalted	na	Min. Yield [OD]	1.5	2	5
HPLC	> 85%	Min. Yield [OD]	0.5	2	2.5

O-Methyl-RNA / Chimerics

Chimerics can be a mix of DNA and RNA bases including methylated bases or phosphorthioate bounds (PTO).

- Guaranteed yields in OD per scale
- Quality control by MALDI-TOF MS
- Delivery within 6–8 working days

Guaranteed yields:

Purification Option	Purity	Synthesis Scale	0.05	0.20	1.00
HPLC	> 85%	Min. Yield [OD]	0.5	2	2.5

RNA modifications and their labelling positions

Fluorescent Dyes		Internal	
Cyanine3 [CY3], Cyanine5 [CY5]	х		
FAM [FAM], HEX [HEX], TET [TET]	х		
Fluorescein-dT [FLUdT]		Х	
TAMRA [TAM]			х

Non-Fluorescent Labels		Internal	3'
Amino-C6 [AmC6]	х		
Amino-C3/C7 [AmC3] [AmC7]			х
BHQ1 [BHQ1], BHQ2 [BHQ2]			х
Biotin [BIO], Biotin-TEG [BIOTEG]	х		х
Cholesterol [CHOL]			х
Dabcyl [DAB]			х
Dabcyl-dT [DABdT]		х	
Phosphate [PHO]	х		х

Spacer, Linker, Base & Sugar Modifications		Internal	3'
2'-Deoxyinosine [I], 2'-Deoxyuridine [U]	х	х	х
2',3' dideoxyC [23ddC]			х
5-Methyl-dC [5MedC]	х	х	х
Amino-C6-dT [AmC6dT], Biotin-dT [BIOdT]		х	
dSpacer [Spd]		Х	
Spacer C3 [SpC3]		х	х

Maximum gene silencing with siMAX siRNA

Accelerate your research with our siMAX siRNA duplexes:

- Fixed quantity of 20 nmol and 40 nmol
- Guaranteed purity of 85 % (HPLC purified)
- Quality control by MALDI-TOF MS
- Delivery within 8–10 working days

A free dilution buffer is included with each shipment.

siMAX siRNA controls

siRNA Controls	Sequence
Lamin A/C μmol	CUGGACUUCCAGAAGAACA
Lamin B2	GAGGAGGAGGCCGAGU
GAPDH	AUUCCAUGGCACCGUCAAG
Luciferase GL2	CGUACGCGGAAUACUUCGA
Luciferase GL3	CUUACGCUGAGUACUUCGA
Green Fluorescent Protein	GGCUACGUCCAGGAGCGCACC
Non Specific Control 31% GC	UAAUGUAUUGGAACGCAUA
Non Specific Control 47% GC	AGGUAGUGUAAUCGCCUUG
Non Specific Control 68% GC	UGCGCUAGGCCUCGGUUGC

siRNA modifications

Spacer, Linker, Base & Sugar Modifications		3'
Amino-C3 [AmC3], Amino-C7 [AmC7]		х
Amino-C6 [AmC6]	х	
Biotin [BIO], Biotin-TEG [BIOTEG]		х
FAM [FAM], HEX [HEX], TET [TET]	х	
Fluorescein [FLU]		х
Phosphate [PHO]	х	х