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Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Corning Solutions for CRISPR Gene Editing



CORNING

Genome Engineering via the CRISPR-Cas System

The CRISPR-Cas System is used to genetically engineer cells by inducing alterations in genomic sequence information, as well as activation or repression of target genes. This system is extremely efficient due to the combined action of the Cas enzyme (the part of the system that induces the modification), and the guide RNA (gRNA), which guides the Cas enzyme to the DNA sequence designated for modification.

Our high quality laboratory consumables, biologics, and equipment can help you achieve success in your genomic research. See how Corning products fit into every step of your CRISPR workflow below.

gRNA Generation

The gRNA (~20 nucleotides) is specifically designed to match the DNA sequence of the target gene. The gRNA is inserted into plasmids, which are then transformed into bacteria for DNA production.



Virus production and Delivery of gRNA/Cas9 Complex

The gRNA and Cas enzyme plasmids are transfected into cells, where those components are incorporated into a functioning virus particle containing the gRNA and Cas DNA.



Alternative Delivery Methods

Apart from lentiviral transfection of the gRNA/Cas complex, alternative approaches are available to achieve gRNA and Cas delivery into cells. These alternative delivery methods include microinjection, electroporation, liposome transfection, and RNA transfection of the gRNA/Cas complex.





Transduction and Expansion

The viral particles are added to the designated cells, which causes integration of the gRNA and Cas DNA into the cellular genome, subsequently leading to the expression of the gRNA/Cas system. Transduced cells are expanded to produce an adequate amount of the modified cell type for further research











TRANSDUCTION			EXPANSION		
					
Syringe Filters	Antibiotics	Media	Multi-Layer Flasks	Microcarriers	Roller Bottles

Cell Selection and Verification

Of the population of transduced cells, cells with the desired genomic modification are chosen based on phenotype, or cells are seeded as single cells for clonal expansion. Validation of the desired genomic modification is then performed, typically via extraction and sequencing of genomic DNA from these cells.

SELECTION			VERIFICATION		
					
Cool Products	Assay Plates	FACS Tubes	Bioscience Kits	Tubes	Pipets

Additional Products

									
Cool Products	Cell Counter	ECMs	Erlenmeyer Flasks	Gel Doc System	Imaging Plates	Incubators	Thermal Cyclers	Spinner Flasks	Ultra-Low Attachment Surface

Learn more about our offerings

 PCR Products www.corning.com/molecularbiology	 Ultra-Low Attachment (ULA) www.corning.com/ULA
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For more specific information on claims, visit the Certificates page at www.corning.com/lifesciences.

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For additional product or technical information, visit www.corning.com/lifesciences or call 800.492.1110. Outside the United States, call +1.978.442.2200 or contact your local Corning sales office.

CORNING

Corning Incorporated
Life Sciences

836 North St.
Building 300, Suite 3401
Tewksbury, MA 01876
t 800.492.1110
t 978.442.2200
f 978.442.2476

www.corning.com/lifesciences

ASIA/PACIFIC

Australia/New Zealand
t 61 427286832

China
t 86 21 3338 4338
f 86 21 3338 4300

India
t 91 124 4604000
f 91 124 4604099

Japan

t 81 3-3586 1996
f 81 3-3586 1291

Korea
t 82 2-796-9500
f 82 2-796-9300

Singapore
t 65 6572-9740
f 65 6735-2913

Taiwan
t 886 2-2716-0338
f 886 2-2516-7500

EUROPE

CSEurope@corning.com

France
t 0800 916 882
f 0800 918 636

Germany
t 0800 101 1153
f 0800 101 2427

The Netherlands
t 020 655 79 28
f 020 659 76 73

United Kingdom
t 0800 376 8660
f 0800 279 1117

All Other European Countries

t +31 (0) 206 59 60 51
f +31 (0) 206 59 76 73

LATIN AMERICA
grupoLA@corning.com

Brasil
t (55-11) 3089-7400

Mexico
t (52-81) 8158-8400