



Reference lists:

NucleoBond® Xtra Midi/Maxi EF – Plasmid DNA free of endotoxins

An ever-growing range of biochemical applications require medium to large amounts of plasmid DNA free of contamination with salts and residual bacterial components. With NucleoBond® Xtra yields of up to 500 µg (Midi) and up to 1000 µg (Maxi) of ultrapure plasmid DNA can be obtained based on reliable and well established anion exchange chromatography. The NucleoBond® Xtra Midi/Maxi EF kits have a patented endotoxin removal which allows transfection of highly sensitive cells such as primary cells or stem cells. NucleoBond® Xtra Midi/Maxi kits contain enlarged columns, which lead to lower silica resin beds. This in turn enables faster flow of lysate and buffers through the columns. Specially designed column filters are included for convenient and timesaving clarification of bacterial lysates. The column filters are supplied inserted in the NucleoBond® Xtra Columns and allow parallel clarification of bacterial lysate and loading onto the column. Their large, structured surface leads to high filter flow rates and minimized risk of clogging. The following reference lists show latest publications from 2022 and 2023 on NucleoBond® Xtra Midi EF and NucleoBond® Xtra Maxi EF kits listed by title and publication year of the study, journal and impact factor.

Please contact us for further information: support@mn-net.com

NucleoBond® Xtra Midi EF: 740420.10 /.50

Title	Year	Journal	Impact Factor	DOI
Efficient CRISPR editing with a hypercompact Cas12f1 and engineered guide RNAs delivered by adeno-associated virus.	2022	Nature Biotechnology	46,9	10.1038/s41587-021-01009-z
Drag-and-drop genome insertion of large sequences without double-strand DNA cleavage using CRISPR-directed integrases.	2023	Nature Biotechnology	46,9	10.1038/s41587-022-01527-4
Selective multi-kinase inhibition sensitizes mesenchymal pancreatic cancer to immune checkpoint blockade by remodeling the tumor microenvironment.	2022	Nature Cancer	24,693	10.1038/s43018-021-00326-1
Alternative splicing of BCL-x is controlled by RBM25 binding to a G-quadruplex in BCL-x pre-mRNA.	2023	Nucleic Acids Research	19,16	10.1093/nar/gkad772
Maximizing response to intratumoral immunotherapy in mice by tuning local retention.	2022	Nature Communications	17,69	10.1038/s41467-021-27390-6
Atypical sideways recognition of CD1a by autoreactive γδ T cell receptors.	2022	Nature Communications	17,69	10.1038/s41467-022-31443-9
Paired immunoglobulin-like receptor B is an entry receptor for mammalian orthoreovirus.	2023	Nature Communications	17,69	10.1038/s41467-023-38327-6
Discovery and optimization of a broadly-neutralizing human monoclonal antibody against long-chain α-neurotoxins from snakes.	2023	Nature Communications	17,69	10.1038/s41467-023-36393-4
A genome-wide relay of signalling-responsive enhancers drives hematopoietic specification.	2023	Nature Communications	17,69	10.1038/s41467-023-35910-9



Title	Year	Journal	Impact Factor	DOI
Selective translation of epigenetic modifiers affects the temporal pattern and differentiation of neural stem cells.	2022	Nature Communications	17,69	10.1038/s41467-022-28097-y
Immunization with synthetic SARS-CoV-2 S glycoprotein virus-like particles protects macaques from infection.	2022	Cell Reports. Medicine	16,988	10.1016/j.xcrm.2022.100528
Somatic rearrangements causing oncogenic ectodomain deletions of FGFR1 in squamous cell lung cancer.	2023	The Journal of Clinical Investigation	15,9	10.1172/JCI170217
Sniper2L is a high-fidelity Cas9 variant with high activity.	2023	Nature Chemical Biology	15,04	10.1038/s41589-023-01279-5
Multimomics analyses reveal DARS1-AS1/YBX1-controlled posttranscriptional circuits promoting glioblastoma tumorigenesis/radioresistance.	2023	Science Advances	14,136	10.1126/sciadv.adf3984
A marmoset brain cell census reveals regional specialization of cellular identities.	2023	Science Advances	14,136	10.1126/sciadv.adk3986
Genetic variation that determines TAPBP expression levels associates with the course of malaria in an HLA allotype-dependent manner.	2022	Proceedings of the National Academy of Sciences of the United States of America	11,1	10.1073/pnas.2205498119
β -Catenin Drives Butyrophilin-like Molecule Loss and $\gamma\delta$ T-cell Exclusion in Colon Cancer.	2023	Cancer Immunology Research	10,1	10.1158/2326-6066.CIR-22-0644
Ablation of specific long PDE4D isoforms increases neurite elongation and conveys protection against amyloid- β pathology.	2023	Cellular and Molecular Life Sciences : Cmls	9,234	10.1007/s00018-023-04804-w
Expanded targeting scope of LbCas12a variants allows editing of multiple oncogenic mutations.	2022	Molecular Therapy. Nucleic Acids	8,8	10.1016/j.omtn.2022.09.005
Efficient suppression of endogenous CFTR nonsense mutations using anticodon-engineered transfer RNAs.	2022	Molecular Therapy. Nucleic Acids	8,8	10.1016/j.omtn.2022.04.033
Human and mouse TLR2 results in different activation of p38 and JNK signal pathway in HaCaT infected by <i>Trichophyton rubrum</i> and <i>Microsporum canis</i> .	2022	Frontiers in Immunology	8,786	10.3389/fimmu.2022.1063443
Intramuscular mRNA BNT162b2 vaccine against SARS-CoV-2 induces neutralizing salivary IgA.	2022	Frontiers in Immunology	8,786	10.3389/fimmu.2022.933347
Identification of novel HPFH-like mutations by CRISPR base editing that elevate the expression of fetal hemoglobin.	2022	ELife	8,713	10.7554/eLife.65421
BDNF exon IV promoter methylation and antidepressant action: a complex interplay.	2022	Clinical Epigenetics	7,28	10.1186/s13148-022-01415-3
Isolation and transfection of myenteric neurons from mice for patch-clamp applications.	2022	Frontiers in Molecular Neuroscience	6,7	10.3389/fnmol.2022.1076187
Biological fractionation of lithium isotopes by cellular Na ⁺ /H ⁺ exchangers unravels fundamental transport mechanisms.	2023	IScience	6,107	10.1016/j.isci.2023.106887
PolyQ length-based molecular encoding of vocalization frequency in FOXP2.	2023	IScience	6,107	10.1016/j.isci.2023.108036
A KO mouse model for the lncRNA Lhx1os produces motor neuron alterations and locomotor impairment.	2023	IScience	6,107	10.1016/j.isci.2022.105891
Characterization of Genetic Variants of Uncertain Significance for the ALPL Gene in Patients With Adult Hypophosphatasia.	2022	Frontiers in Endocrinology	6,055	10.3389/fendo.2022.863940
Considerations for homology-based DNA repair in mosquitoes: Impact of sequence heterology and donor template source.	2022	PLoS Genetics	5,917	10.1371/journal.pgen.1010060
Transgenic expression of Nix converts genetic females into males and allows automated sex sorting in <i>Aedes albopictus</i> .	2022	Communications Biology	5,9	10.1038/s42003-022-03165-7
Hybrid cell line development system utilizing site-specific integration and methotrexate-mediated gene amplification in Chinese hamster ovary cells.	2022	Frontiers in Bioengineering and Biotechnology	5,66	10.3389/fbioe.2022.977193
Novel Tools for Comprehensive Functional Analysis of LDLR (Low-Density Lipoprotein Receptor) Variants.	2023	International Journal of Molecular Sciences	5,6	10.3390/ijms241411435
Genome-Wide Analysis of the RNase T2 Family and Identification of Interacting Proteins of Four CIS-RNase Genes in 'XiangShui' Lemon.	2022	International Journal of Molecular Sciences	5,6	10.3390/ijms231810431
An affinity threshold for maximum efficacy in anti-PD-1 immunotherapy.	2022	MAbs	5,3	10.1080/19420862.2022.2088454
Site-selective sulfation of N-glycans by human GlcNAc-6-O-sulfotransferase 1 (CHST2) and chemoenzymatic synthesis of sulfated antibody glycoforms.	2022	Bioorganic Chemistry	5,1	10.1016/j.bioorg.2022.106070
Construction of a Vero Cell Line Expressing Human ICAM1 for the Development of Rhinovirus Vaccines.	2022	Viruses	4,911	10.3390/v14102235
Quantifying dynamic pro-inflammatory gene expression and heterogeneity in single macrophage cells.	2023	The Journal of Biological Chemistry	4,8	10.1016/j.jbc.2023.105230



Title	Year	Journal	Impact Factor	DOI
Analysis of the impact of DGAT1 p.M435L and p.K232A variants on pre-mRNA splicing in a full-length gene assay.	2023	Scientific Reports	4,379	10.1038/s41598-023-36142-z
Transient accumulation and bidirectional movement of KIF13B in primary cilia.	2023	Journal of Cell Science	4	10.1242/jcs.259257
Elevation of SHANK3 Levels by Antisense Oligonucleotides Directed Against the 3'-UTR of the Human SHANK3 mRNA.	2023	Nucleic Acid Therapeutics	4	10.1089/nat.2022.0048
Optogenetic induction of hibernation-like state with modified human Opsin4 in mice.	2022	Cell Reports Methods	3,9	10.1016/j.crmeth.2022.100336
A Flp-dependent G-CaMP9a transgenic mouse for neuronal imaging in vivo.	2022	Cell Reports Methods	3,9	10.1016/j.crmeth.2022.100168
The GDAP1 p.Glu222Lys Variant-Weak Pathogenic Effect, Cumulative Effect of Weak Sequence Variants, or Synergy of Both Factors?	2022	Genes	3,5	10.3390/genes13091546
Genome-wide association study and functional follow-up identify 14q12 as a candidate risk locus for cervical cancer.	2022	Human Molecular Genetics	3,5	10.1093/hmg/ddac031
Lis1 mutation prevents basal radial glia-like cell production in the mouse.	2022	Human Molecular Genetics	3,5	10.1093/hmg/ddab295
Implementation of ubiquitous chromatin opening elements as artificial integration sites for CRISPR/Cas9-mediated knock-in in mammalian cells.	2023	Engineering in Life Sciences	3,405	10.1002/elsc.202200047
Reduced IFN- β inhibitory activity of Lagos bat virus phosphoproteins in human compared to Eidolon helvum bat cells.	2022	PloS One	3,24	10.1371/journal.pone.0264450
Efficient and error-free correction of sickle mutation in human erythroid cells using prime editor-2.	2022	Frontiers in Genome Editing	2,5	10.3389/fgeed.2022.1085111
Expansion microscopy of the chick embryo neural tube to overcome molecular crowding at the centrosomes-cilia.	2023	Star Protocols	1,34	10.1016/j.xpro.2022.101997
In utero electroporation and cranial window implantation for in vivo wide-field two-photon calcium imaging using G-CaMP9a transgenic mice.	2022	Star Protocols	1,34	10.1016/j.xpro.2022.101421
Doxycycline-inducible Expression of Proteins at Near-endogenous Levels in Mammalian Cells Using the Sleeping Beauty Transposon System.	2023	Bio-Protocol	0,7	10.21769/BioProtoc.4846



NucleoBond® Xtra Maxi EF: 740424.10 /.50

Title	Year	Journal	Impact Factor	DOI
Systematic discovery of recombinases for efficient integration of large DNA sequences into the human genome.	2023	Nature Biotechnology	46,9	10.1038/s41587-022-01494-w
Intratumorally injected alum-tethered cytokines elicit potent and safer local and systemic anticancer immunity.	2022	Nature Biomedical Engineering	29,234	10.1038/s41551-021-00831-9
Optogenetic manipulation and photoacoustic imaging using a near-infrared transgenic mouse model.	2022	Nature Communications	17,69	10.1038/s41467-022-30547-6
HIV-1 neutralizing antibodies provide sterilizing immunity by blocking infection of the first cells.	2023	Cell Reports. Medicine	16,988	10.1016/j.xcrm.2023.101201
LRP8-mediated selenocysteine uptake is a targetable vulnerability in MYCN-amplified neuroblastoma.	2023	Embo Molecular Medicine	11,1	10.15252/emmm.202318014
Organizing principles of astrocytic nanoarchitecture in the mouse cerebral cortex.	2023	Current Biology : Cb	10,834	10.1016/j.cub.2023.01.043
Deletion mapping of regulatory elements for GATA3 in T cells reveals a distal enhancer involved in allergic diseases.	2023	American Journal of Human Genetics	10,502	10.1016/j.ajhg.2023.03.008
Loss of core-fucosylation of SPARC impairs collagen binding and contributes to COPD.	2022	Cellular and Molecular Life Sciences : Cmls	9,234	10.1007/s00018-022-04381-4
IL-17 Induces Autophagy Dysfunction to Promote Inflammatory Cell Death and Fibrosis in Keloid Fibroblasts via the STAT3 and HIF-1α Dependent Signaling Pathways.	2022	Frontiers in Immunology	8,786	10.3389/fimmu.2022.888719
Preclinical proof of concept of a tetravalent lentiviral T-cell vaccine against dengue viruses.	2023	Frontiers in Immunology	8,786	10.3389/fimmu.2023.1208041
Small heterodimer partner interacting leucine zipper protein (SMILE) ameliorates autoimmune arthritis via AMPK signaling pathway and the regulation of B cell activation.	2023	Cell Communication and Signaling : Ccs	8,4	10.1186/s12964-023-01054-y
A lentiviral vector expressing a dendritic cell-targeting multimer induces mucosal anti-mycobacterial CD4+ T-cell immunity.	2022	Mucosal Immunology	8	10.1038/s41385-022-00566-z
Design and Initial Characterization of a Small Near-Infrared Fluorescent Calcium Indicator.	2022	Frontiers in Cell and Developmental Biology	6,684	10.3389/fcell.2022.880107
Clinically relevant dosing and pharmacokinetics of DNA-encoded antibody therapeutics in a sheep model.	2022	Frontiers in Oncology	6,224	10.3389/fonc.2022.1017612
Potent neutralizing anti-SARS-CoV-2 human antibodies cure infection with SARS-CoV-2 variants in hamster model.	2022	IScience	6,107	10.1016/j.isci.2022.104705
Exploring the Fate of Antibody-Encoding pDNA after Intramuscular Electroporation in Mice.	2023	Pharmaceutics	6,072	10.3390/pharmaceutics15041160
Delivery of non-viral naked DNA vectors to liver in small weaned pigs by hydrodynamic retrograde intrabiliary injection.	2022	Molecular Therapy. Methods & Clinical Development	5,849	10.1016/j.omtm.2022.01.006
Intrabiliary infusion of naked DNA vectors targets periportal hepatocytes in mice.	2022	Molecular Therapy. Methods & Clinical Development	5,849	10.1016/j.omtm.2022.10.006
Co-Anchoring of Engineered Immunogen and Immunostimulatory Cytokines to Alum Promotes Enhanced-Humoral Immunity.	2022	Advanced Therapeutics	4,6	10.1002/adtp.202100235
Hormonal control of promoter activities of Cannabis sativa prenyltransferase 1 and 4 and salicylic acid mediated regulation of cannabinoid biosynthesis.	2023	Scientific Reports	4,379	10.1038/s41598-023-35303-4
Highly selective transgene expression through the flip-excision switch system by using a unilateral spacer sequence.	2023	Cell Reports Methods	3,9	10.1016/j.crmeth.2022.100393
Evaluation of Radiation Sensitivity Differences in Mouse Liver Tumor Organoids Using CRISPR/Cas9-Mediated Gene Mutation.	2023	Technology in Cancer Research & Treatment	2,8	10.1177/15330338231165125
Protocol for highly selective transgene expression through the flip-excision switch system by using a unilateral spacer sequence in rodents.	2023	Star Protocols	1,34	10.1016/j.xpro.2023.102667
Injection and electroporation of plasmid DNA into human cortical organoids.	2022	Star Protocols	1,34	10.1016/j.xpro.2022.101129

