

## MACHEREY-NAGEL's latest references on NucleoBond plasmid purification kits



Concurrently with our promotion on cloning and transfection we support you by presenting the latest research articles on applications of our NucleoBond plasmid purification kits.

### NucleoBond Xtra Midi

Application	Author	Article	Year	Journal	PubMed Central
Transfection of hybridoma cells	Van der Schoot et al.	Genome-lamina interactions are established de novo in the early mouse embryo.	2019	Nature	PMC6713500
Transfection of mouse embryonic stem cells	Borsos et al.	Universal loop assembly: open, efficient and cross-kingdom DNA fabrication.	2020	Synthetic Biology (Oxford, England)	PMC6546605
Transfection of <i>A. thaliana</i> mesophyll protoplasts	Pollak et al.	A Conserved Noncoding Locus Regulates Random Monoallelic Xist Expression across a Topological Boundary.	2020	Molecular Cell	PMC7052795
Transfection of mouse embryonic stem cells	Galupa et al.				PMC6964159

### NucleoBond Xtra Midi EF

Application	Author	Article	Year	Journal	PubMed Central
Preparation of pooled plasmid library, transfection of HEK293T cells	Lee et al.	Directed evolution of CRISPR-Cas9 to increase its specificity.	2018	Nature Communications	PMC6078992
mRNA synthesis using mMessage mMachine T7 ULTRA kit, transfection of FEFs and MEFs	Johnson et al.	Aspm knockout ferret reveals an evolutionary mechanism governing cerebral cortical size.	2018	Nature	PMC6095461
lentiviral transduction using HEK293T cells	Melandri et al.	The $\gamma\delta$ TCR combines innate immunity with adaptive immunity by utilizing spatially distinct regions for agonist selection and antigen responsiveness.	2018	Nature Immunology	PMC6874498
Transfection of CD8 <sup>+</sup> T-cells	Menares et al.	Tissue-resident memory CD8 <sup>+</sup> T cells amplify anti-tumor immunity by triggering antigen spreading through dendritic cells.	2019	Nature Communications	PMC6765014
Transfection of RAW 264.7 macrophages	Drewry et al.	The secreted kinase ROP17 promotes <i>Toxoplasma gondii</i> dissemination by hijacking monocyte tissue migration.	2019	Nature Microbiology	PMC6814536
Transfection of HEK293T cells, PC-12 and C6 cells	Keihani et al.	The long noncoding RNA neuroLNC regulates presynaptic activity by interacting with the neurodegeneration-associated protein TDP-43.	2019	Science Advances	PMC6920028
Transfection of U2OS cells	Zhao et al.	A genetically encoded probe for imaging nascent and mature HA-tagged proteins in vivo.	2019	Nature Communications	PMC6610143

### NucleoBond Xtra Midi Plus

Application	Author	Article	Year	Journal	PubMed Central
Transfection of <i>Arabidopsis</i> mesophyll protoplasts	Jin et al.	DELLA proteins are common components of symbiotic rhizobial and mycorrhizal signalling pathways.	2016	Nature Communications	PMC4990646
Transfection of COS-7/ARPE-19 cells	Willett et al.	TFEB regulates lysosomal positioning by modulating TMEM55B expression and JIP4 recruitment to lysosomes.	2017	Nature Communications	PMC5691037
Purification of BACs/transfection of DT40 cells	Pentzold et al.	FANCD2 binding identifies conserved fragile sites at large transcribed genes in avian cells.	2018	Nucleic Acids Research	PMC5815096
Transfection of mouse embryonic stem cells	Borsos et al.	Genome-lamina interactions are established de novo in the early mouse embryo.	2019	Nature	PMC6546605
Transfection of mouse embryonic stem cells	Galupa et al.	A Conserved Noncoding Locus Regulates Random Monoallelic Xist Expression across a Topological Boundary.	2020	Molecular Cell	PMC6964159

### NucleoBond Xtra Midi Plus EF

Application	Author	Article	Year	Journal	PubMed Central
Transfection of HEKswe cells	Baranger et al.	MT5-MMP is a new pro-amyloidogenic proteinase that promotes amyloid pathology and cognitive decline in a transgenic mouse model of Alzheimer's disease.	2016	Cellular and Molecular Life Sciences	PMC4700096
Transfection of B cells	Hipp et al.	IL-2 imprints human naive B cell fate towards plasma cell through ERK/ELK1-mediated BACH2 repression.	2017	Nature Communications	PMC5682283
Transfection of HEK293T cells	Thompson et al.	Human Influenza Virus Hemagglutinins Contain Conserved Oligomannose N-Linked Glycans Allowing Potent Neutralization by Lectins.	2020	Cell Host & Microbe	PMC7158820

### NucleoBond Xtra Maxi

Application	Author	Article	Year	Journal	PubMed Central
Transfection of human embryonic kidney cells/ generation of virus mutant libraries	Wu et al.	Diversity of Functionally Permissive Sequences in the Receptor-Binding Site of Influenza Hemagglutinin.	2017	Cell Host & Microbe	PMC5553561
Transfection of human embryonic kidney cells	Kim et al.	Functional Selectivity in Cytokine Signaling Revealed Through a Pathogenic EPO Mutation.	2017	Cell	PMC5376096
Purification of bacmid DNA for transfection into Sf9 cells	Wu et al.	Recurring and Adaptable Binding Motifs in Broadly Neutralizing Antibodies to Influenza Virus Are Encoded on the D3-9 Segment of the Ig Gene.	2018	Cell Host & Microbe	PMC6327842
Transfection of ExpiCHO cells	Wu et al.	Preventing an Antigenically Disruptive Mutation in Egg-Based H3N2 Seasonal Influenza Vaccines by Mutational Incompatibility.	2019	Cell Host & Microbe	PMC6579542
Transfection of HEK 293F cells	Yuan et al.	Conformational Plasticity in the HIV-1 Fusion Peptide Facilitates Recognition by Broadly Neutralizing Antibodies.	2019	Cell Host & Microbe	PMC6579543
Transfection of HEK 293T cells	Lytle et al.	A Multiscale Map of the Stem Cell State in Pancreatic Adenocarcinoma.	2019	Cell	PMC6711371

### NucleoBond Xtra Maxi EF

Application	Author	Article	Year	Journal	PubMed Central
Transfection of HEK 293 cells	Mercati et al.	CNTN6 mutations are risk factors for abnormal auditory sensory perception in autism spectrum disorders.	2017	Molecular Psychiatry	PMC5378808
Transfection of HEK 293F cells	Kwan et al.	Integrin-targeted cancer immunotherapy elicits protective adaptive immune responses.	2017	The Journal of Experimental Medicine	PMC5460993
Transfection of HEK 293FT/293T cells	Joung et al.	Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening.	2017	Nature Protocols	PMC5526071
Transfection of U87 cells	Yang et al.	Focusing light inside live tissue using reversibly switchable bacterial phytochrome as a genetically encoded photochromic guide star.	2019	Science Advances	PMC6905864
Transfection into brain of mice	Wu et al.	Targeted delivery of engineered auditory sensing protein for ultrasound neuromodulation in the brain.	2020	Theranostics	PMC7069068
Transfection of retinal organoids	Xie et al.	Chromatin accessibility analysis reveals regulatory dynamics of developing human retina and hiPSC-derived retinal organoids.	2020	Science Advances	PMC7007246

### NucleoBond Xtra Maxi Plus

Application	Author	Article	Year	Journal	PubMed Central
Transfection of mesenchymal stem cells	Yanagihara et al.	Treatment of Bone Defects by Transplantation of Genetically Modified Mesenchymal Stem Cell Spheroids.	2018	Molecular Therapy. Methods & Clinical Development	PMC6054700
Transfection of human embryonic kidney cells	Paramonov et al.	Targeting Somatostatin Receptors by Functionalized Mesoporous Silica Nanoparticles - Are We Striking Home?	2018	Nanotheranostics	PMC6107779
Transfection of human embryonic kidney cells	Sevilla-Montero et al.	pVHL-mediated regulation of the anti-angiogenic protein thrombospondin-1 decreases migration of Clear Cell Renal Carcinoma Cell Lines.	2020	Scientific Reports	PMC6981148



## NucleoBond Xtra Maxi Plus EF

Application	Author	Article	Year	Journal	PubMed Central
Preparation of phEPO/ polymer polyplex	Lee et al.	Human erythropoietin gene delivery for cardiac remodeling of myocardial infarction in rats.	2013	Journal of Controlled Release	PMC3768270
Preparation of plasmid/ polymer polyplex	Lee et al.	Human relaxin gene expression delivered by bioreducible dendrimer polymer for post-infarct cardiac remodeling in rats.	2016	Biomaterials	PMC5448559
Transfection of HepaRG cells (hepatic stem cells)	Bucher et al.	Possible Involvement of Mitochondrial Dysfunction and Oxidative Stress in a Cellular Model of NAFLD Progression Induced by Benzo[a]pyrene/Ethanol CoExposure.	2018	Oxidative Medicine and Cellular Longevity	PMC6083493
Transfection of mammalian cells	Dovih et al.	Filovirus-reactive antibodies in humans and bats in Northeast India imply zoonotic spillover.	2019	PloS Neglected Tropical Diseases	PMC6822707
Mouse embryo microinjection	Zhang et al.	Mouse embryo geometry drives formation of robust signaling gradients through receptor localization.	2019	Nature Communications	PMC6778081

### Technical support

For further information on the use of MACHEREY-NAGEL NucleoBond kits get in touch with our technical support team [tech-bio@mn-net.com](mailto:tech-bio@mn-net.com).

Thank you for your interest in MACHEREY-NAGEL products!

