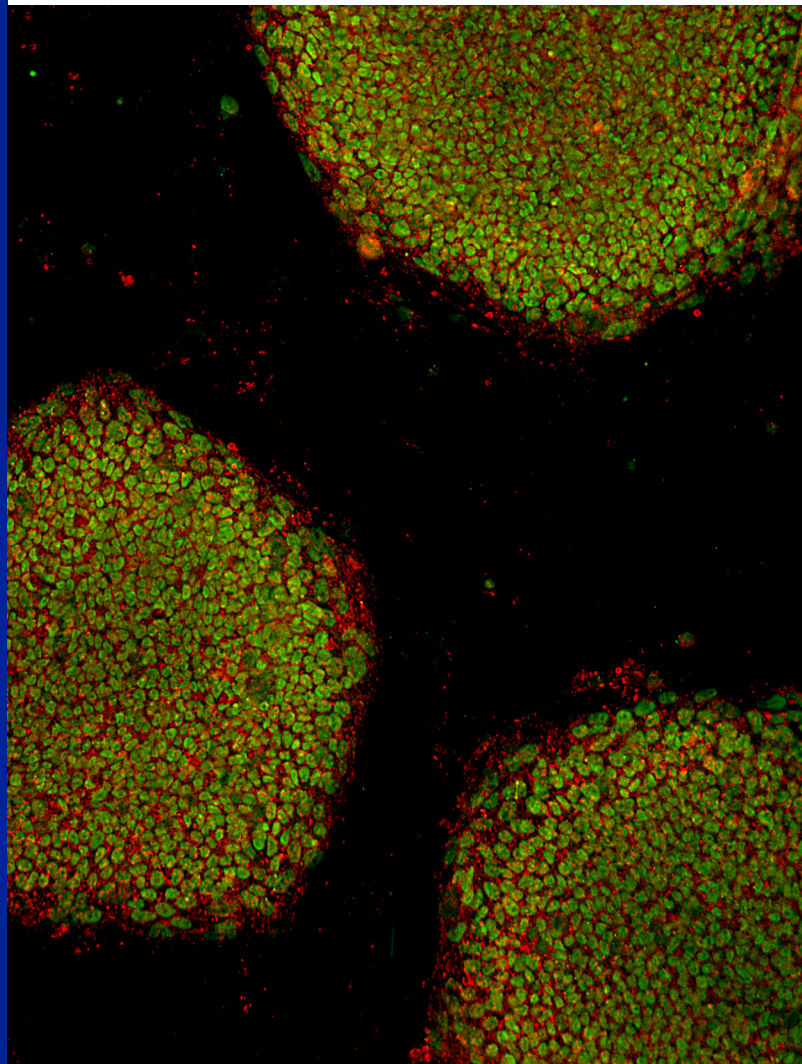


Guidelines for iPSC generation from various starting cell types

Nucleofector® Technology has been efficiently used in reprogramming the most common starting cell types, i.e. human peripheral blood mononuclear cells (PBMCs), dermal fibroblasts or CD34+ hematopoietic progenitors, as well as more rare starting cell types like adipose-derived stem cells or keratinocytes. The links and references listed below will provide some guidelines on which Nucleofector® Kits to use for the transfection of reprogramming vectors into the most commonly used cell types. In addition, for setting up your protocol, our [primary cell types with corresponding optimized culture media](#) may serve as positive control.



Cell Origin	Human PBMCs	Human Fibroblasts	Hematopoietic Progenitors	Human Bone Marrow
Positive Control Cells	Human Peripheral Blood Mononuclear Cells (PBMCs)	Human Dermal Fibroblasts (Adult)	Human Bone Marrow CD34+ Progenitor Cells Lonza Cord Blood CD34+ Stem/Progenitor Cells	Human Bone Marrow Mononuclear Cells (MNCs)
Cell Specific Media	X-VIVO® 15	Fibroblast Growth Medium	X-VIVO® 20	X-VIVO® 15
Nucleofector® Kits	4D-Nucleofector® X Unit: P3 Primary Cell 4D-Nucleofector® X Kit L Nucleofector® 2b Human T Cell Nucleofector® Kit	4D-Nucleofector® X Unit: P2 Primary Cell 4D-Nucleofector® X Kit L Nucleofector® 2b Human Dermal Fibroblast Nucleofector® Kit	4D-Nucleofector® X Unit: P3 Primary Cell 4D-Nucleofector® X Kit L Nucleofector® 2b Human CD34+ Cell Nucleofector® Kit	4D-Nucleofector® X Unit: P3 Primary Cell 4D-Nucleofector® X Kit L
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