



## Avalanche® Transfection Reagents For Primary Cells

### Features

Our proprietary formulation of lipids and polymers ensures the highest possible transfection efficiencies and viabilities for primary cells. No other transfection reagents can match the efficiency, convenience, and individualized formulation for specific primary cells than Avalanche®.

### Why Primary Cells Are Harder to Transfect Than Immortalized Lines

Compared to HEK293/HEK293T or CHO cell transfection, primary cells are more challenging to transfect plasmid DNA, sgRNA, siRNA, and other nucleic acids for several reasons including

- Immune sensing machinery
- Cell cycle status
- Membrane composition
- Sensitivity and lifespan
- Passage tolerance

### Browse Our Selection By Cell Type and Tissue Source

Transfection Reagent	Cell Type:	Tissue Source:
Human Astrocyte (HA, NHA) Avalanche® Transfection Reagent	Astrocyte	Brain
Human (HC, NHAC, HC-RA, HC-OA) Avalanche® Transfection Reagent	Chondrocyte	Cartilage
Human Artery Endothelial Cell Avalanche® Transfection Reagent	Endothelial	Artery
Human Lung Microvascular Endothelial Cell (HLMVEC, HMVEC-L) Avalanche® Transfection Reagent	Endothelial	Lung
Human Dermal Lymphatic Microvascular Endothelial Cell (HDLMVEC)	Endothelial	Skin
Human Dermal Microvascular Endothelial Cell (HMVEC/CADMEC) Avalanche® Transfection Reagent	Endothelial	Skin
Human Umbilical Artery Endothelial Cell (HUAEC) Avalanche® Transfection Reagent	Endothelial	Umbilicus
Human Umbilical Vein Endothelial Cell (HUVEC) Avalanche® Transfection Reagent	Endothelial	Human

<b>Transfection Reagent</b>	<b>Cell Type:</b>	<b>Tissue Source:</b>
Human Bladder Epithelial Cell (HBEpC) Avalanche® Transfection Reagent	Epithelial	Bladder
Human Mammary Epithelial Cell (HMEpC, HMEC) Avalanche® Transfection Reagent	Epithelial	Breast/Mammary
Human Airway Epithelial Cell (HBEpC, HTEpC, NHBE, SAEC) Avalanche® Transfection Reagent	Epithelial	Bronchia
Human Cervical Epithelial Cell (HCvEpC) Avalanche® Transfection Reagent	Epithelial	Cervix
Human Renal Epithelial cell (HRE) Avalanche® Transfection Reagent	Epithelial	Kidney
Human Placental Epithelial Cell (HPEpC) Avalanche® Transfection Reagent	Epithelial	Placenta
Human Prostate Epithelial Cell (HPrEpC) Avalanche® Transfection Reagent	Epithelial	Prostate
Human Urethra Epithelial Cell (HUEpC) Avalanche® Transfection Reagent	Epithelial	Urethra
Human Cardiac Fibroblasts (HCF, NHCF-A, NHCF-V, AoAF) Avalanche® Transfection Reagent	Fibroblast	Heart
Human Dermal Fibroblast (HDF) Avalanche® Transfection Reagent	Fibroblast	Skin
Human Lung Fibroblast (HLF, NHLF) Avalanche® Transfection Reagent	Fibroblast	Lung
MEF Avalanche® Transfection Reagent (Mouse Embryonic Fibroblast)	Fibroblast	Embryo
Human Epidermal Keratinocyte (HEK, NHEK) Avalanche® Transfection Reagent	Keratinocyte	Skin
Human Epidermal Melanocyte (HEM, NHEM) Avalanche® Transfection Reagent	Melanocyte	Skin
Human Osteoblast (HO <sub>b</sub> , HO <sub>b</sub> -OA, HO <sub>b</sub> -RA, NHO <sub>st</sub> ) Avalanche® Transfection Reagent	Osteoblast	Bone
Human Preadipocyte (HPAd) Avalanche® Transfection Reagent	Preadipocyte	Adipose
Human Skeletal Muscle Cell and Myoblast (HskMC, SkMC, HSMM) Avalanche® Transfection Reagent	Skeletal Muscle Cell	Skeletal Muscle
Human Artery Smooth Muscle Cell Avalanche® Transfection Reagent	Smooth Muscle Cell	Artery
Human Prostate Smooth Muscle Cell (PrSMC) Avalanche® Transfection Reagent	Smooth Muscle Cell	Prostate
Human Umbilical Vein Smooth Muscle Cell (HUVSMC) Avalanche® Transfection Reagent	Smooth Muscle Cell	Umbilicus
Human Follicle Outer Root Sheath Cell (HORSC) Avalanche® Transfection Reagent	Stem Cell	Skin
Human Hair Follicle Dermal Papilla Cell (HFDPC) Avalanche® Transfection Reagent	Stem Cell	Skin
Human Mesenchymal Stem Cell (Human Marrow Stromal Cell) (hMSC) Avalanche® Transfection Reagent	Stem Cell	Bone Marrow
Human Prostate Stromal Cell (PrSC) Avalanche® Transfection Reagent	Stromal Cell	Prostate
Human Fibroblast-Like Synoviocyte (HFLS, HFLS-OA, HFLS-RA) Avalanche® Transfection Reagent	Synoviocyte	Synovial Tissue

## How To Order

- Email [order@ezbiosystems.com](mailto:order@ezbiosystems.com)
- Submit RFQ at [ezbiosystems.com](http://ezbiosystems.com)

## Sample Requests

- Go to [ezbiosystems.com/contact/free-sample-request](http://ezbiosystems.com/contact/free-sample-request) for a free sample