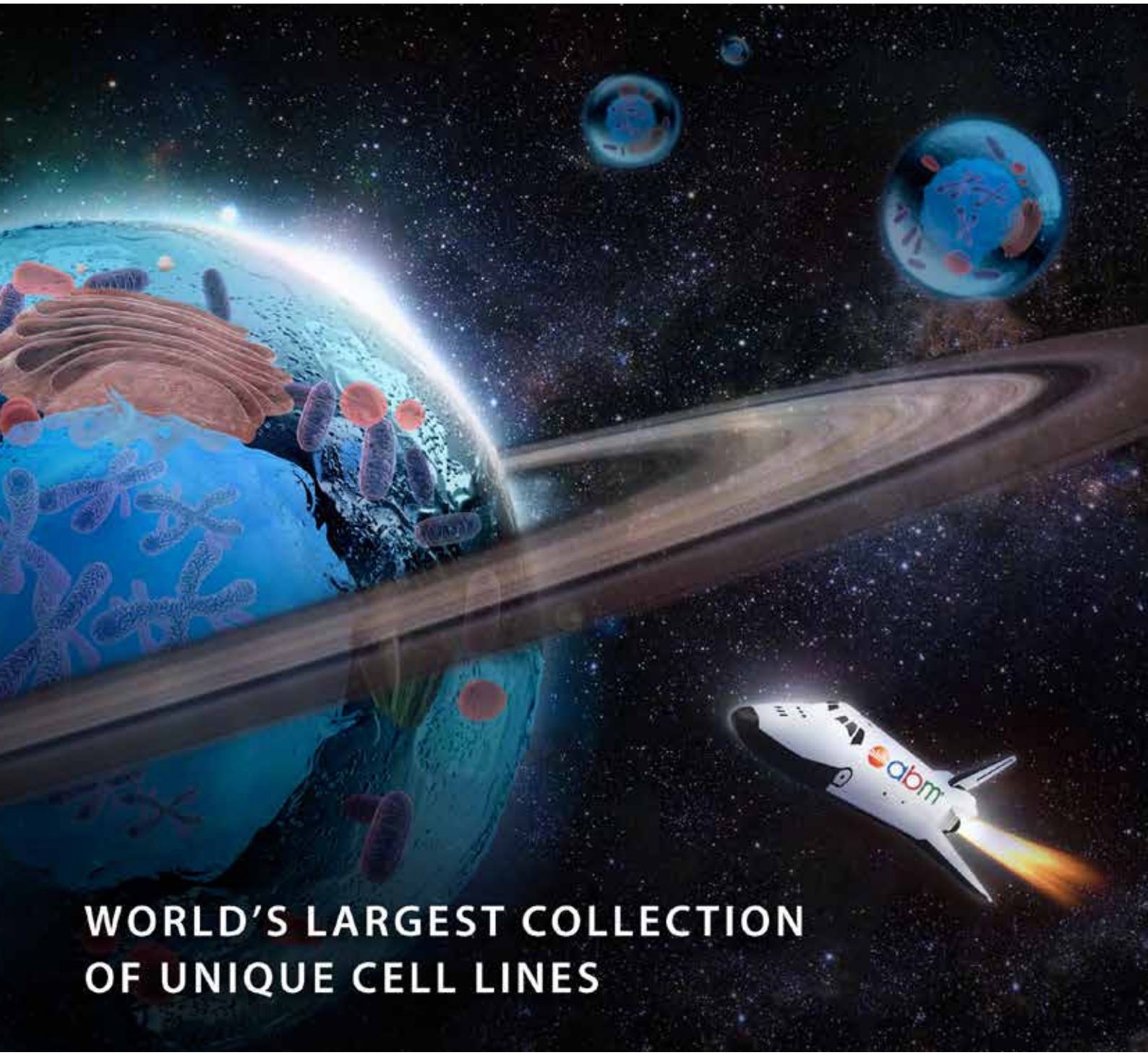
Applied Biological Materials, Inc.



Cell Line Catalog

Alfamed

Volume 1

400+ immortalized cell lines.

300+ drug discovery cell lines.

Wide selection of cell lines from human, mouse, rat, bovine, canine, and more.

Genome-wide libraries of CRISPR knockout and 3'UTR cell lines.

60+ countries offering abm products.

1,400+ publication citations using abm products.

Collaborations with 100+ renowned institutions and companies worldwide.

Applied Biological Materials, Inc.

*The **abm** Team at the company headquarters in Canada*

Dear fellow scientists and innovators,

Since its founding in 2004, Applied Biological Materials Inc. (**abm**) has been an indispensable provider of life sciences reagents to the scientific community.

Our leading expertise in the field of cell engineering has allowed us to establish a formidable collection of primary, stable and immortalized cell lines that are available for all of your research needs. This is why we are excited to share our comprehensive cell line catalog with you!

We are driven by our commitment to provide scientists with affordable, quality, and cutting-edge resources and we look forward to being a valuable partner in your research.

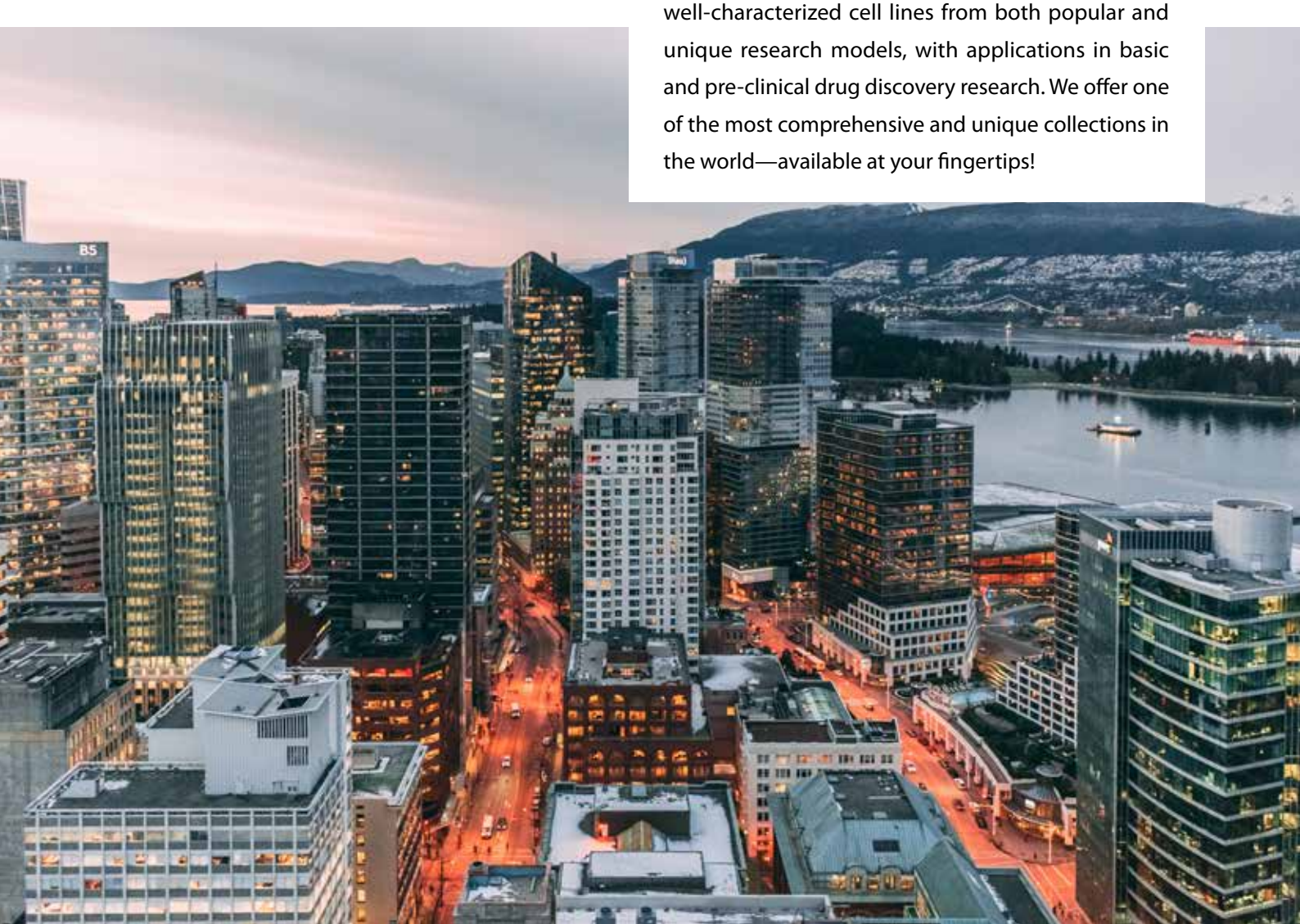
Sincerely,

Your **abm** Team

COMPANY OVERVIEW

Applied Biological Materials

Located in the vibrant hub of Vancouver, Canada, **abm** has over a decade of experience in cell line engineering and collaborations with life sciences labs worldwide. With a global network covering over 60+ countries and growing, our cell line catalog includes well-characterized cell lines from both popular and unique research models, with applications in basic and pre-clinical drug discovery research. We offer one of the most comprehensive and unique collections in the world—available at your fingertips!



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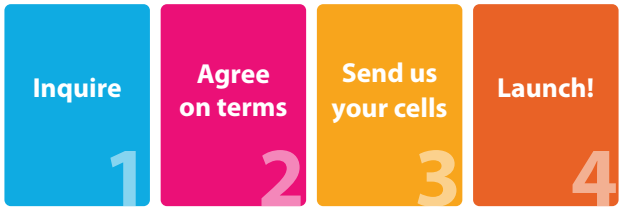
Technology Transfer Office
Have old cell lines taking up valuable space in your freezer? Earn back your research investment!

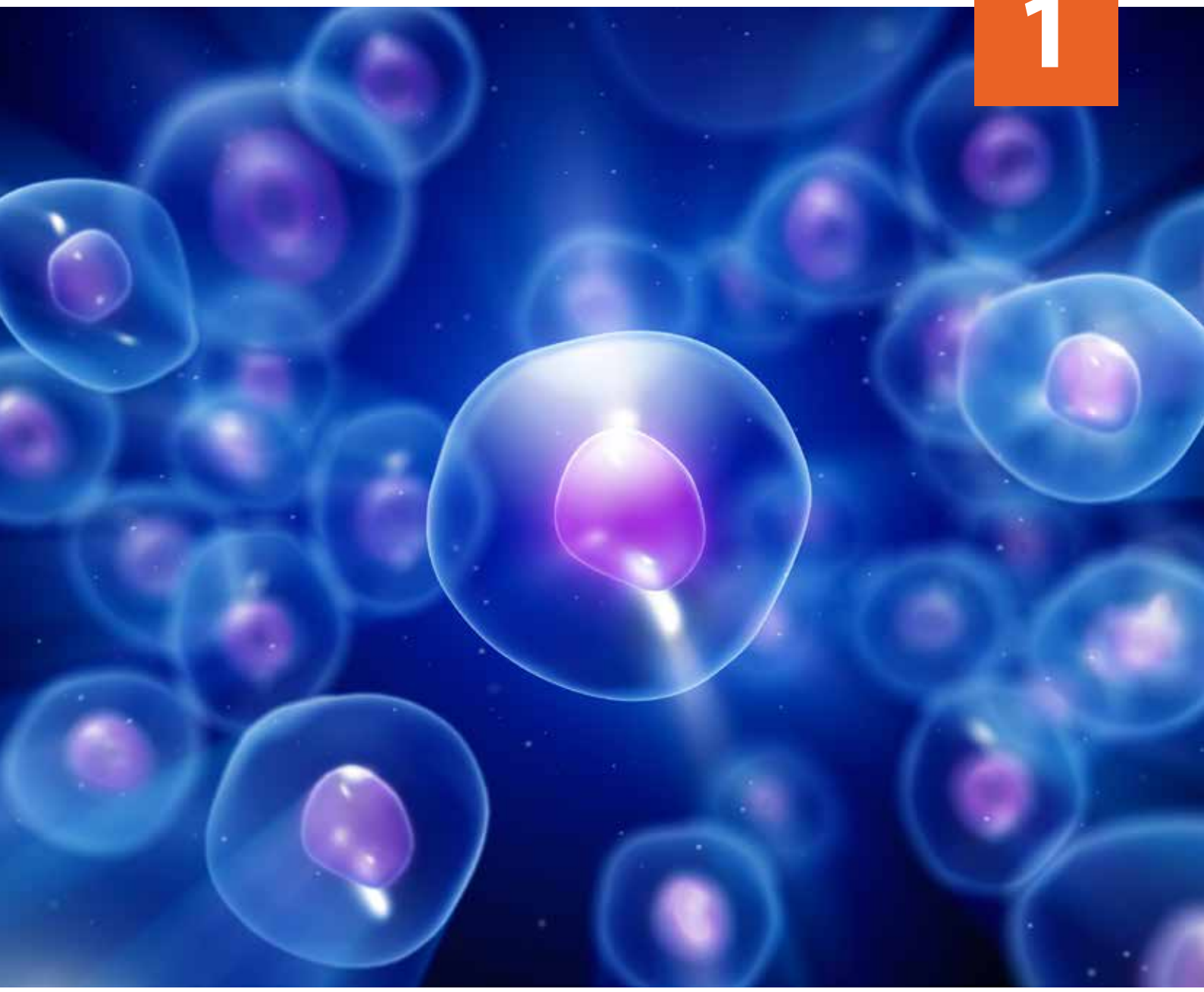
Recoup those spent research dollars you invested into generating that old cell line by licensing with **abm**. We have a long track record of successful commercialization of scientific discoveries and connecting valuable technologies developed by scientists like you with our global customer base. Join our network of hundreds of scientific collaborators and translate your newly developed cell line into a tool to share with the scientific community.

The process is simple:



Contact licensing@abmGood.com to inquire about cell line commercialization opportunities.

1



Immortalized Cell Lines

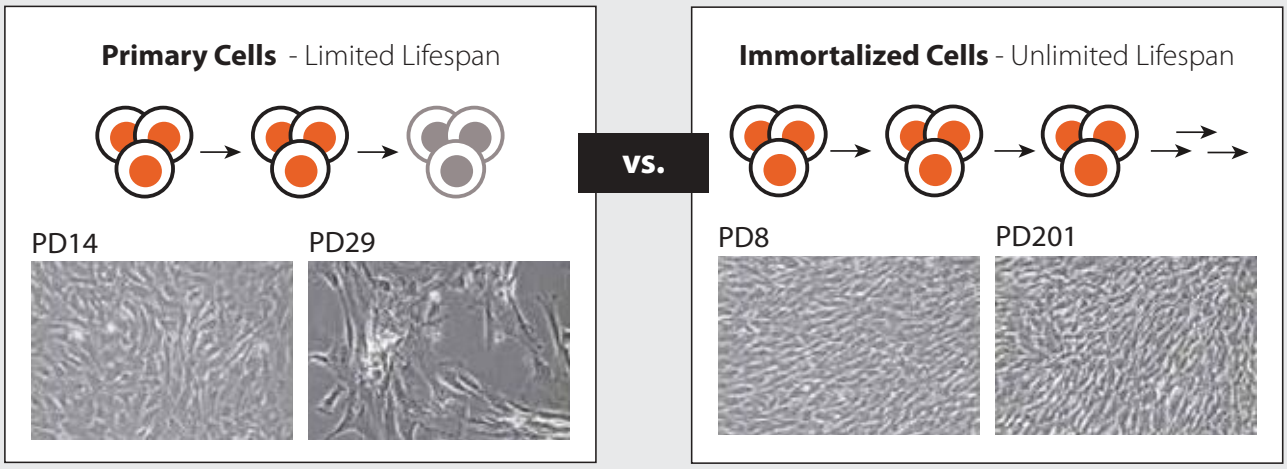
Save time and choose from our 400+ ready-to-use cell lines—validated by your peers and published in *Nature*, *Cell* and *Science*!

What are immortalized cell lines?

Continuously dividing immortalized cells arise from defined mutational events that allow the primary cells to evade normal cellular senescence. The resulting immortalized cells are useful for cell biology research as they are significantly easier to culture and maintain compared to their primary counterparts.

With **abm**'s comprehensive selection of immortalized cell lines within your reach, you can meet any project's cellular needs.

How do they compare to primary cells?



*PD = Population Doubling

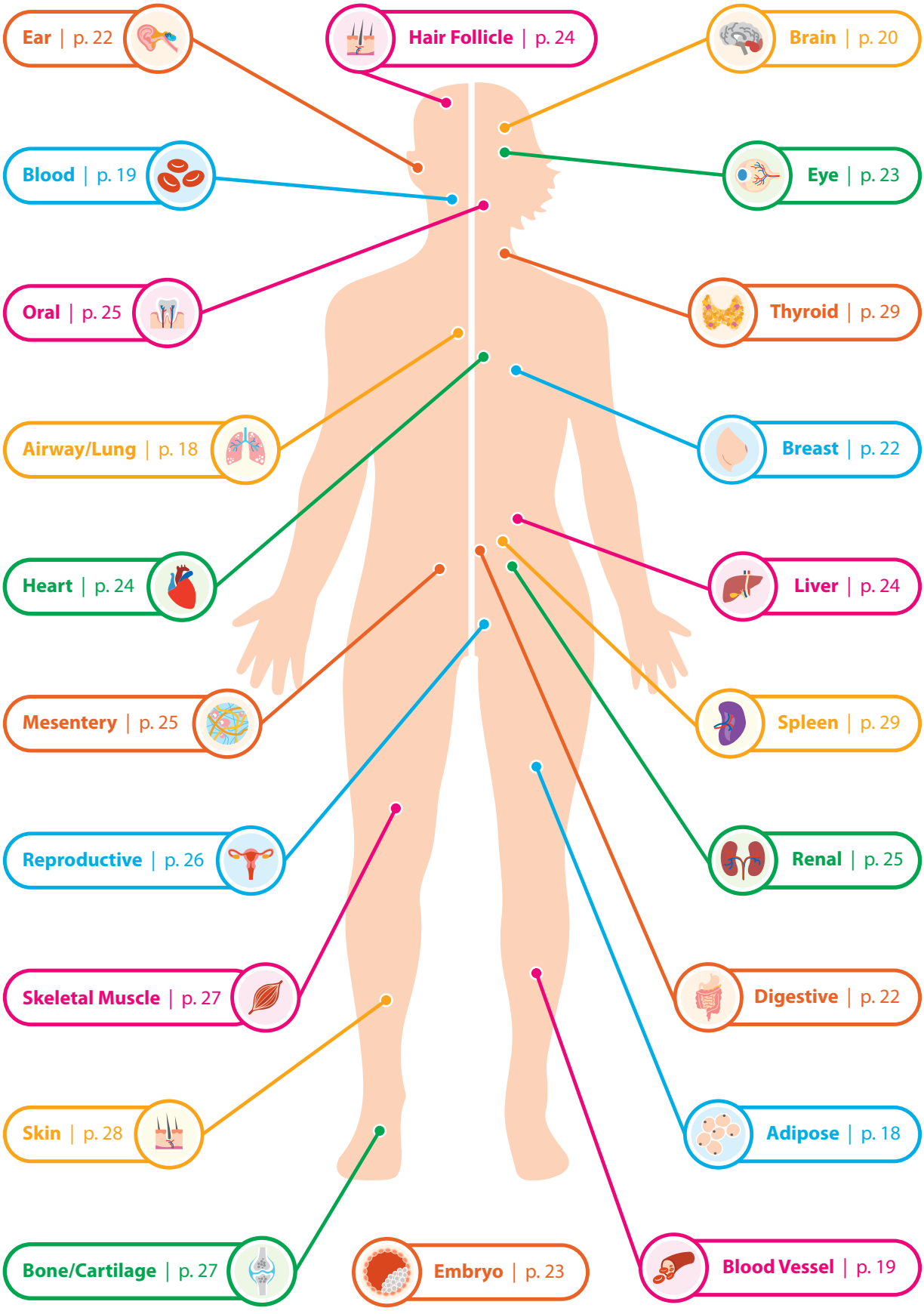
Why use immortalized cell lines?

- They retain characteristics of the primary cells that they were derived from
- They are a continuous source of cells for your long-term experiments
- They eliminate batch-to-batch variability, providing you with the greatest experimental reproducibility
- They are easier to maintain and culture than primary cells, thus reducing your lab work

Why choose abm as your source of immortalized cell lines?

- Select from more than 400 immortalized cell lines in the world's largest collection
- Our cell lines originate from a wide variety of organisms, allowing for greater flexibility for any research project
- **abm**'s proprietary cell specific PriGrow media ensures optimal propagation potential for all cell lines
- STR profiling services are available for cell line verification to support grant application requirements

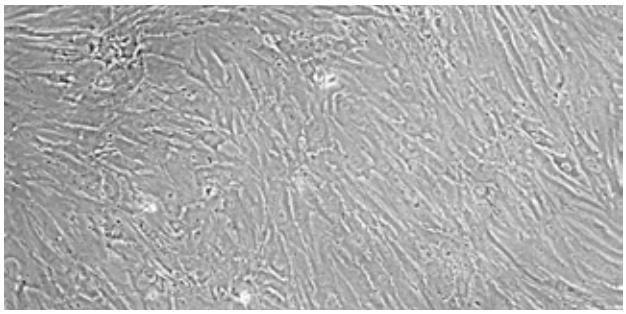
Over 400 immortalized cell lines available:



Blood Tissue | Featured Cell Line

Bone Marrow Mesenchymal Cells

Bone Marrow Mesenchymal Cells are important for the growth and differentiation of primitive haematopoietic cells, as well as for maintenance of leukemia cells. These cells were immortalized via infecting primary mesenchymal cells with retrovirus containing hTERT and GFP genes separated by IRES, under the control of MSCV LTR (pCIneo-hEST2-HA). These cells can support growth of leukemia cell lines 380, REH, OP-1 and 697, in addition to supporting the expansion of $CD34^+$ cells. This cell line is useful not only in supporting the growth of haematopoietic cells, but can also be used in studies concerning the bone marrow microenvironment and environmental cues that regulate haematopoiesis.



Specifications

- Source Organ: Bone Marrow
- Immortalization Method: hTERT
- Markers: CD44 and CD73. These cells also express markers of osteoblasts (alkaline phosphatase) and chondrocytes (incorporation of toluidine blue dye).

Ordering Information	
Cat. No.	T0523
Species	Human
Unit	1,000,000 cells/ml

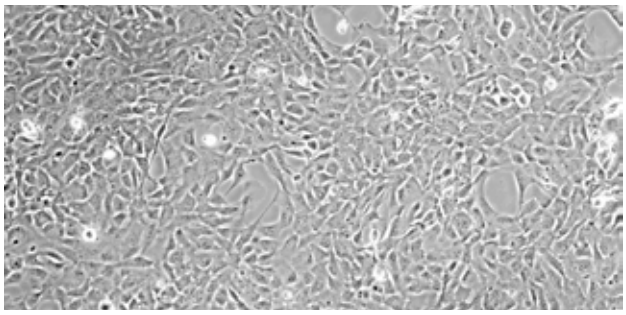
Featured Reference

Cisterne, A et al. "Silencer of death domains controls celld eath through tumour necrosis factor-receptor 1 and caspase-10 in acute lymphoblastic leukemia." PLoS One 9(7):e103383 (2014). DOI:10.1371/journal.pone.0103383.

Brain Tissue | Featured Cell Line

Cerebral Microvascular Endothelial Cells

Cerebral microvascular endothelial cells are the major component of the blood-brain barrier (BBB) and limit the passage of soluble and cellular substances from the blood into the brain. These cells were immortalized via serial passaging and transduction with recombinant lentiviruses carrying SV40 Large T antigen. Cerebral microvasular endothelial cells are ideal for drug uptake and active transport studies, as well as for understanding the brain endothelium response to various human pathogens and inflammatory stimuli.



Specifications

- Source Organ: Brain
- Immortalization Method: SV40 T
- Markers: CK18 and CK19

Ordering Information	
Cat. No.	T0259
Species	Human
Unit	1,000,000 cells/ml

Featured Reference

Kim, Y et al. "Characterizing the mode of action of extracellular Connexin43 channel blocking mimetic peptides in an in vitro ischemia injury model." Biochimica et Biophysica Acta (BBA) - General Subjects 2:68-78 (2017). DOI: 10.1016/j.bbagen.2016.

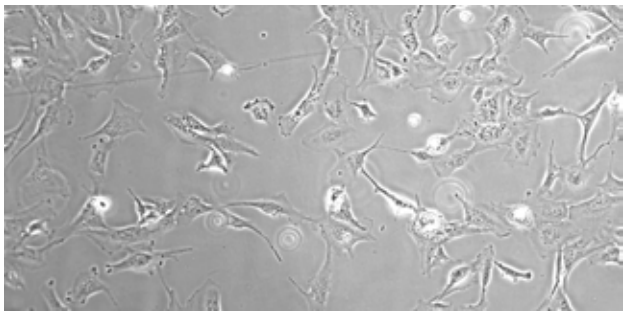
Brain Tissue | Featured Cell Line

Fetal Astrocytes

Astrocytes are glial cells found in the brain and spinal cord that play a critical role in maintenance, support, and repair of nervous tissue. Astrocytes have also been implicated in various pathological processes. Long-term recovery after brain injury, through neurite outgrowth, synaptic plasticity, or neuron regeneration, is also influenced by astrocyte surface molecule expression and trophic factor release. These cells can serve as valuable *in vitro* model for exploring the diversity of astrocyte functions.

Specifications

- Source Organ: Brain
- Immortalization Method: hTERT
- Markers: GFAP



Ordering Information	
Cat. No.	T0281
Species	Human
Unit	1,000,000 cells/ml

Featured Reference

Baskin, R et al. "Functional analysis of the 11q23.3 glioma susceptibility locus implicates PHLDB1 and DDX6 in glioma susceptibility." Scientific Reports :17367 (2015). DOI: 10.1038/srep17367. Application: SNP analysis.

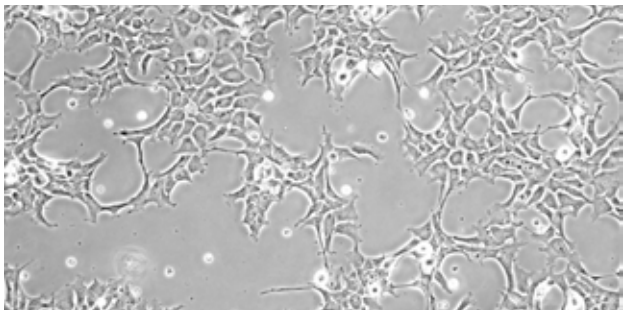
Brain Tissue | Featured Cell Line

Microglia

Microglia cells are resident macrophages of the brain and the spinal cord, and they act as the first and main form of active immune defense in the nervous system. The immortalized human microglia cell line is derived from primary human microglia cells (>99% purity) and have maintained microglial marker TREM2 as verified by RT-PCR. These cells are suitable for studies of human microglia in health and disease.

Specifications

- Source Organ: Brain
- Immortalization Method: SV40 T
- Markers: TREM2



Ordering Information	
Cat. No.	T0251
Species	Human
Unit	1,000,000 cells/ml

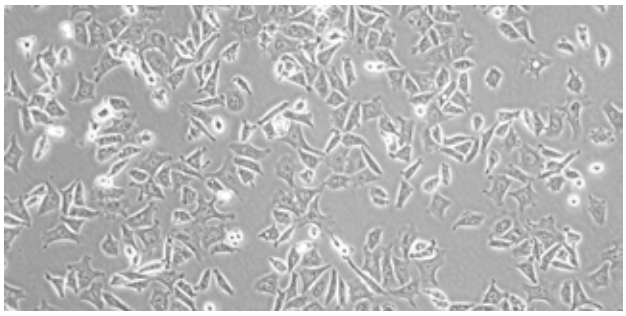
Featured Reference

Rees, GF et al. "Evidence of microglial activation following exposure to serum from first-onset drug-naïve schizophrenia patients." Brain, Behavior, and Immunity 67:364-373 (2018). DOI: 10.1016/j.bbi.2017.10.003.

Digestive Tissue | Featured Cell Line

Colon Cells

Colon epithelial cells work as a mechanical barrier lining the colonic mucosal surface, as well as function as an integral component of the mucosal immune system. Their gene expression and growth characteristics can be altered in response to a broad array of cytokines. **abm**'s Immortalized Human Colon Cells are obtained from a human normal colon section and are ideal research models for malignant and non-malignant colorectal diseases.



Specifications

- Source Organ: Colon Section
- Immortalization Method: SV40 T
- Markers: MUC2

Ordering Information	
Cat. No.	T0570
Species	Human
Unit	1,000,000 cells/ml

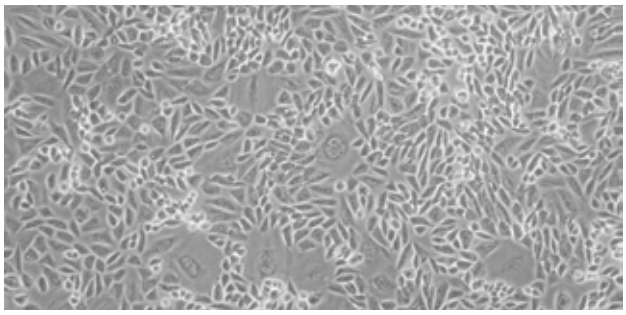
Featured Reference

Phua, T et al. "Angiopoietin-like 4 Mediates Colonic Inflammation by Regulating Chemokine Transcript Stability via Tristetraprolin." Scientific Reports 7:44351 (2017). DOI:10.1038/srep44351.

Digestive Tissue | Featured Cell Line

Pancreatic Duct Epithelial Cells

Normal pancreatic duct epithelial cells were derived from tissues obtained from a human specimen. The cells were immortalized by viral transduction with LXSN16E6E7 retrovirus containing the HPV 16 E6 and E7 gene and neomycin resistance gene.



Specifications

- Source Organ: Pancreatic Duct
- Immortalization Method: HPV E6/E7
- Markers: CK19 and CK8

Ordering Information	
Cat. No.	T0005
Species	Human
Unit	1,000,000 cells/ml

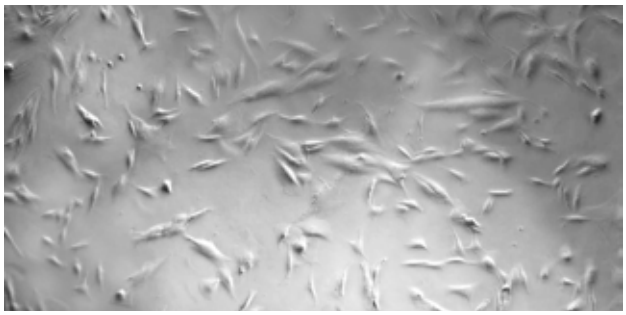
Featured Reference

Furukawa, T et al. "Long Term Culture and Immortalization of Epithelial Cells from Normal Adult Human Pancreatic Ducts by Transfection with the E6E7 Gene of Human Papilloma Virus 16." Am J Pathol (1996), 148:1763-1770.

Hair Follicle Tissue | Featured Cell Line

Hair Follicle Dermal Papilla Cells

Human Hair Follicle Dermal Papilla cells are highly active mesenchymal cells isolated from the hair papilla embedded in extracellular matrix of scalp hair follicles. Dermal papilla cells play a significant role in controlling the hair growth cycle and production by being involved in the epithelial-mesenchymal interaction of hair follicle cells. Their survival is regulated by signal transduction pathways such as ERK and Akt. These cells can be used for development and evaluation of hair growth products and identifying cell populations within the hair follicle. In addition, they can be used for *in vitro* screening of androgen blocking reagents since they have androgen receptors.



Specifications

- Source Organ: Hair Follicle
- Immortalization Method: hTERT
- Markers: Smooth muscle actin-α

Ordering Information	
Cat. No.	T0501
Species	Human
Unit	1,000,000 cells/ml

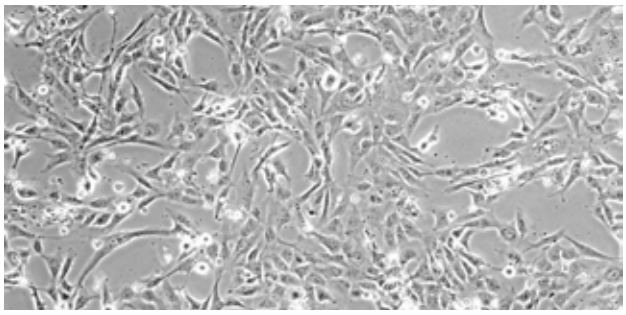
Featured Reference

Sirimangkalakitti, N et al. "Renieramycin M Attenuates Cancer Stem Cell-like Phenotypes in H460 Lung Cancer Cells." Anticancer Research 2:615-621 (2017).

Heart Tissue | Featured Cell Line

Cardiomyocytes

Human Cardiomyocytes are isolated from human heart ventricles. Their specialized high-oxygen content with a large number of mitochondria contributes to the major role of cardiac muscles in the heart's rhythmic pumping. Cardiomyocytes are regulated by a complex network of signals. Cardiomyocyte hypertrophy and apoptosis have been associated with the loss of contractile function during heart failure. They are ideal models for the study of cytokines and cellular signaling mechanisms that lead to myocyte death, as well as for research on mechanical strain and cell-cell interaction.



Specifications

- Source Organ: Ventricle Tissue
- Immortalization Method: SV40 T
- Markers: Sarcomeric alpha-actinin, slow muscle myosin

Ordering Information	
Cat. No.	T0445
Species	Human
Unit	1,000,000 cells/ml

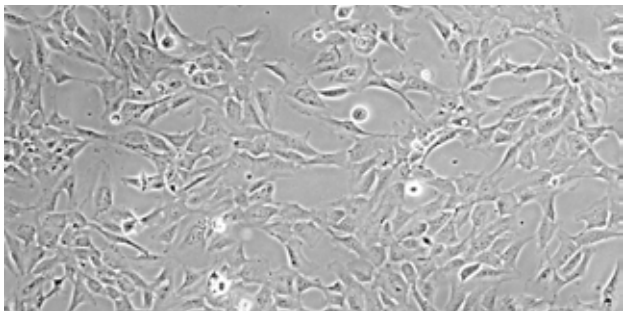
Featured Reference

Babu, SS et al. "MicroRNA-126 overexpression rescues diabetes-induced impairment in efferocytosis of apoptotic cardiomyocytes." Scientific Reports 6: (2016). DOI:10.1038/srep36207. PubMed: 27827458. Application: Efferocytosis assay.

Liver Tissue | Featured Cell Line

Hepatic Sinusoidal Endothelial Cells

Hepatic sinusoidal endothelial cells (HSECs) are microvascular endothelial cells with a phenotype resembling dendritic cells and a unique function as antigen-presenting cells for $CD4^+$ T cells. These specialized cells are dynamic regulators of porosity, responding rapidly to local environmental zonal stimuli during liver regeneration. Importantly, naive $CD4^+$ T cells primed by antigen-presenting HSEC differentiate into regulatory T cells. Thus, HSEC represent a new type of organ-resident "non-professional" antigen-presenting cell that appears to be involved in the local control of the immune response and the induction of immune tolerance in the liver.



Specifications

- Source Organ: Liver
- Immortalization Method: SV40 T
- Markers: CK18, CK19, CD31, vWF, and VE-Cad

Ordering Information	
Cat. No.	T0056
Species	Human
Unit	1,000,000 cells/ml

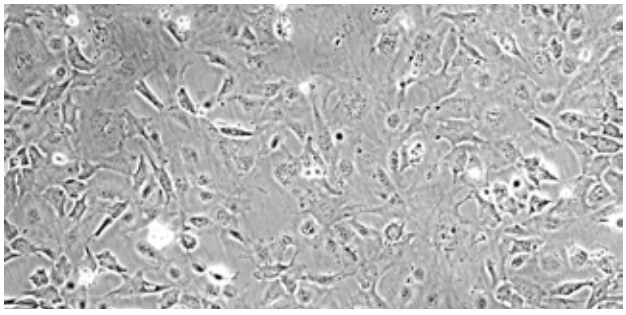
Featured Reference

Jung, HR et al. "Cell Spheroids with Enhanced Aggressiveness to Mimic Human Liver Cancer In Vitro and In Vivo." Scientific Reports 1:10499 (2017). DOI:10.1038/s41598-017-10828-7.

Liver Tissue | Featured Cell Line

Hepatic Sinusoidal Endothelial Cells

Hepatic sinusoidal endothelial cells (HSECs) are a unique sub-population of the liver that lines the hepatic sinusoids. Their role involves clearing waste products from the blood, regulating pericyte contractility and innate immune functions. The immortalized mouse hepatic sinusoidal endothelial cells are derived from C57BL/6 mouse HSECs that have maintained endothelial characteristics and HSEC-specific features such as vWF and caveolin-1. These cells also migrate in response to angiogenic growth factors, form vascular tube-like structures, endycytose acetylated low-density lipoprotein (AcLDL), and secrete proteins involved in matrix remodelling. These cells are suitable for studying liver endothelial cell biology, including motility and angiogenesis.



Specifications

- Source Organ: Liver
- Immortalization Method: SV40 T
- Markers: vWF and caveolin-1

Ordering Information	
Cat. No.	T0102
Species	Mouse
Unit	1,000,000 cells/ml

Featured Reference

Huebert, RC et al. "Immortalized liver endothelial cells: a cell culture model for studies of motility and angiogenesis." Laboratory Investigation (2010) 90, 1770-1781.

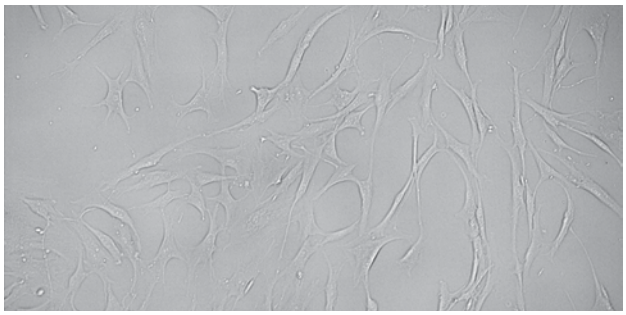
Oral Tissue | Featured Cell Line

Gingival Fibroblasts

Gingival fibroblasts play an important role in oral wound healing and are the major constituents of the gingival connective tissue. These cells are important in testing the "biocompatibility", or toxicity of new dental materials. In the past, toxicity tests *in vitro* have been performed with non-human and human malignant cell lines, such as L929, CCL163, CCL171 and SaOS2. However, due to the malignancy of the described cell lines, the results may or may not be clinically relevant. The Immortalized Human Gingival Fibroblasts - hTERT have the same morphological cellular response in biocompatibility evaluation to primary human gingival fibroblasts and can thus be used to evaluate toxicity of dental materials.

Specifications

- Source Organ: Gingiva
- Immortalization Method: hTERT
- Markers: Vimentin and actin



Ordering Information	
Cat. No.	T0026
Species	Human
Unit	1,000,000 cells/ml

Featured Reference

Kim, J et al. "Immortalized Gingival Fibroblasts as a Cytotoxicity Test Model for Dental Materials." J. Mater Sci: Mater Med 23:753-62 (2012).

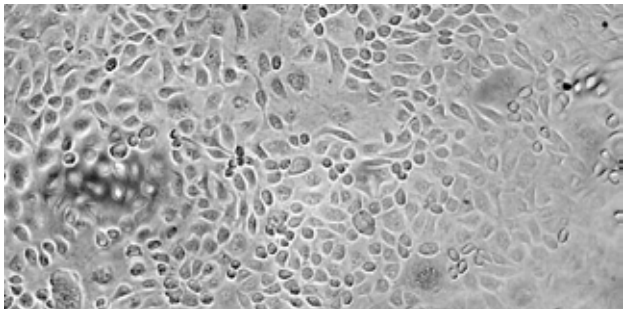
Oral Tissue | Featured Cell Line

Gingival Keratinocytes

The gingival epithelium protects periodontal tissue from bacteria and toxic substances. Keratinocytes play an important role in promoting strong epithelial bonds through the formation of intercellular connections with the cytoskeleton and neighboring cells. These cells express cytokeratin 2, cytokeratin 17, cytokeratin 19, involucrin, filaggrin, and claudin-1. These cells may be differentiated by altering culturing conditions to build transepithelial electrical resistance, a unique characteristic of gingival keratinocytes. These cells are recommended for studies in mechanisms that contribute to the specific properties of the gingiva tissue, such as the epithelial barrier function.

Specifications

- Source Organ: Buccal Gingiva
- Immortalization Method: HPV E6/E7
- Markers: CK2, CK17, CK19, involucrin, filaggrin, and claudin-1



Ordering Information	
Cat. No.	T0049
Species	Human
Unit	1,000,000 cells/ml

Featured Reference

Rybakovsky, E et al. "Improvement of Human-Oral-Epithelial-Barrier Function and of Tight Junctions by Micronutrients." Journal of Agricultural and Food Chemistry 50:10950-10958 (2017). DOI:10.1021/acs.jafc.7b04203.

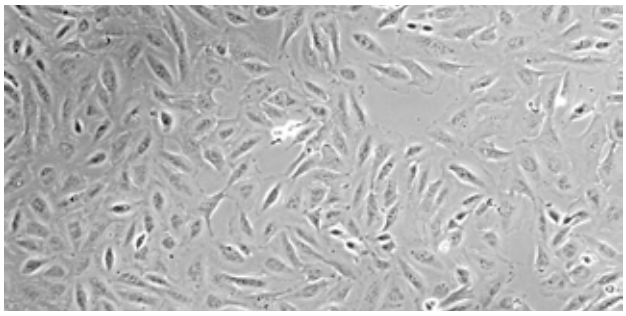
Reproductive Tissue | Featured Cell Line

Ovarian Epithelial Cells

Human ovarian epithelial cells are the cells on the surface of the ovaries, where *in vivo* morphology varies from squamous to cuboidal to low columnar. Ovarian epithelial cells express sex steroids, growth factors, peptide hormones, and receptors, many of which have been known to be associated with epithelial ovarian carcinomas and sexually transmitted infections (STIs). These cells were immortalized via serial passaging and transduction with recombinant lentiviruses carrying SV40 Large T antigen. These cells are ideal for studies in disease development and in potential disease marker studies.

Specifications

- Source Organ: Ovaries
- Immortalization Method: SV40 T
- Markers: CK18, CK19, and CD31



Ordering Information	
Cat. No.	T1074
Species	Human
Unit	1,000,000 cells/ml

Featured Reference

Liu, M et al. "4-Acetylantroquinonol B suppresses autophagic flux and improves cisplatin sensitivity in highly aggressive epithelial cancer through the PI3K/Akt/mTOR/p70S6K signaling pathway." Toxicology and Applied Pharmacology 325:48-60 (2017). PubMed: 28408137.

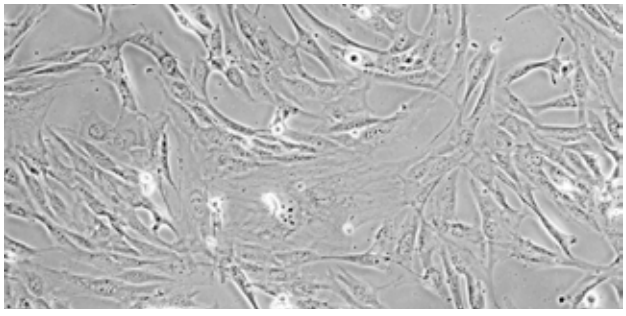
Skeletal Muscle Tissue | Featured Cell Line

Skeletal Muscle Cells

Skeletal muscle cells are a form of striated muscle tissue under the control of the somatic nervous system, and are one of the three major muscle types, the others being cardiac muscle and smooth muscle. Skeletal muscle cells are attached to bones by tendons, and they all work together to aid in muscle contraction and overall body movement. These cells were immortalized via serial passaging and transduction with recombinant lentiviruses carrying SV40 Large T antigen. Skeletal muscle cells can be used *in vitro* for full characterization of muscle tissue properties, and as a base model to study myopathies.

Specifications

- Source Organ: Skeletal Muscle
- Immortalization Method: SV40 T
- Markers: MyoD and ITGA7

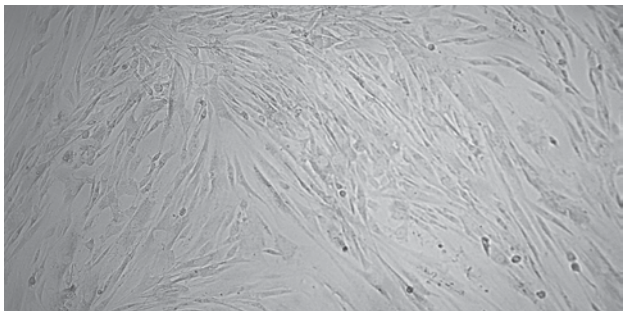


Ordering Information	
Cat. No.	T0034
Species	Human
Unit	1,000,000 cells/ml

Skeletal Muscle Tissue | Featured Cell Line

Skeletal Muscle Myoblasts

Skeletal muscle myoblasts are undifferentiated cells that form muscle fiber cells, which all work together to contract muscles and aid in overall body movement. These cells were immortalized via serial passaging and transduction with recombinant lentiviruses carrying SV40 Large T antigen. Skeletal muscle myoblasts can be used as an *in vitro* model for studies on cellular differentiation and development, tissue repair, and insulin metabolism.



Specifications

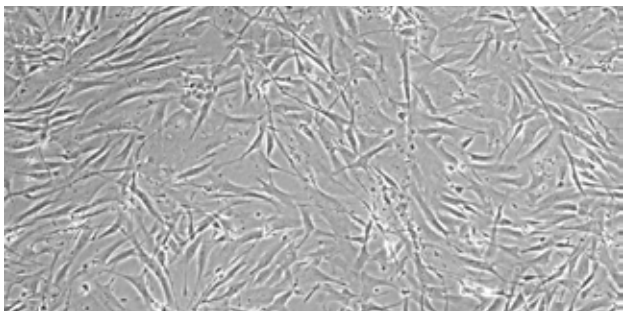
- Source Organ: Skeletal Muscle
- Immortalization Method: SV40 T
- Markers: Desmin

Ordering Information	
Cat. No.	T0033
Species	Human
Unit	1,000,000 cells/ml

Skin Tissue | Featured Cell Line

Melanocytes

Melanocytes are melanin producing cells mainly in the bottom layer of the skin's epidermis, and interact with keratinocytes via dendritic cell processes. Melanin, which is primarily responsible for skin colour, is transferred to the keratinocytes and stored in vesicles located around the nucleus to provide protection from UV radiation. These cells were immortalized via serial passaging and transduction with recombinant lentiviruses carrying the hTERT gene. These cells can serve as a valuable *in vitro* model for melanocyte differentiation and proliferation, as well as progression of melanocytic neoplasia.



Specifications

- Source Organ: Skin
- Immortalization Method: hTERT
- Markers: SILV and TYRP1

Ordering Information	
Cat. No.	T0462
Species	Human
Unit	1,000,000 cells/ml

Adipose Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Adipose-derived Stromal Cells	Human	Bmi-1 and hTERT	1,000,000 cells/ml	T0540
Adipose-derived Mesenchymal Cells (iMADs)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0541
Preadipocyte Cells (ScAP-23)	Mouse	hTERT	1,000,000 cells/ml	T0544
Subcutaneous Adipose Multipotent Mesenchymal Cells (m17.ASC)	Mouse	Spontaneous	1,000,000 cells/ml	T0542
Subcutaneous Adipose Multipotent Mesenchymal Cells with GFP Reporter (m17.ASC-GFP)	Mouse	Spontaneous	1,000,000 cells/ml	T0543
Mesenchymal Stem Cells	Canine	HPV E6/E7	1,000,000 cells/ml	T0352

Airway/Lung Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Bronchial Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0486
Bronchial Epithelial Cells	Human	hTERT	1,000,000 cells/ml	T0496
Bronchial Epithelial Cells	Human	hTERT and CDK4	1,000,000 cells/ml	T0497
Bronchial Epithelial Cells	Human	hTERT and Bmi-1	1,000,000 cells/ml	T0498
Bronchial Epithelial Cells (HBE1)	Human	HPV E6/E7	1,000,000 cells/ml	T0680
Bronchial Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0493
Bronchiole Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0492
Cystic Fibrosis Tracheobronchial Epithelial Cells (CFT1)	Human	HPV E6/E7	1,000,000 cells/ml	T0681
Diploid Fibroblasts	Human	hTERT	1,000,000 cells/ml	T1013
Laryngeal Posterior Commissure Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0499
Lung Fibroblasts	Human	hTERT	1,000,000 cells/ml	T1015
Nasal Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0440
Nasopharyngeal Epithelial Cells (NP69SV40T)	Human	SV40 T	1,000,000 cells/ml	T0634
Nasopharyngeal Epithelial Cells (NPEC1/Bmi1)	Human	Bmi-1	1,000,000 cells/ml	T0765
Nasopharyngeal Epithelial Cells (NPEC2/Bmi1)	Human	Bmi-1	1,000,000 cells/ml	T0766
Pulmonary Fibroblasts	Human	SV40	1,000,000 cells/ml	T0490
Pulmonary Microvascular Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0491
Small Airway Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0485
Tracheal Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0489
Tracheal Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0494
Lung Clara Cells (C22)	Mouse	SV40	1,000,000 cells/ml	T0092
Lung Endothelial Cells	Mouse	PmT	1,000,000 cells/ml	T0094
Lung Epithelial Cells (MLE-15)	Mouse	SV40 T	1,000,000 cells/ml	T0495
Fetal Lung Cells (extEqFL)	Equine	PA317 LXSN HPV16E6E7	1,000,000 cells/ml	T0095

Blood Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Bone Marrow Basophils	Human	SV40 T	1,000,000 cells/ml	T0527
Bone Marrow Mesenchymal Cells	Human	hTERT	1,000,000 cells/ml	T0523
Bone Marrow Mesenchymal Stromal Cells (iMSC3)	Human	hTERT	1,000,000 cells/ml	T0529
Bone Marrow Mononuclear Cells	Human	SV40 T	1,000,000 cells/ml	T0526
Bone Marrow-derived Stromal Cells	Human	SV40 T	1,000,000 cells/ml	T0524
Bone Marrow-derived Stromal Cells - SV40 - YFP	Human	SV40 T	1,000,000 cells/ml	T0522
Dendritic Cells	Human	SV40 T	1,000,000 cells/ml	T0525
Lymphoblastoid Cells (KMS-15)	Human	EBV	1,000,000 cells/ml	T0133
Lymphoblastoid Cells (KMS-9)	Human	EBV	1,000,000 cells/ml	T0132
Mucosal Associated Invariant T Cells (EM-B11)	Human	Spontaneous	1,000,000 cells/ml	T0705
Mucosal Associated Invariant T Cells (EM-C5)	Human	Spontaneous	1,000,000 cells/ml	T0706
Mucosal Associated Invariant T Cells (IK-B12)	Human	Spontaneous	1,000,000 cells/ml	T0707
Mucosal Associated Invariant T Cells (JK-A8)	Human	Spontaneous	1,000,000 cells/ml	T0708
Mucosal Associated Invariant T Cells (MG-A4)	Human	Spontaneous	1,000,000 cells/ml	T0709
$CD4^{+}$ $CD8^{+}$ T Cells (MOHITO)	Mouse	Spontaneous	1,000,000 cells/ml	T0131
$CD81^{-/-}$ Macrophage Cells (ASD1)	Mouse	SV40 T	1,000,000 cells/ml	T0138
$CD81^{+/-}$ Macrophage Cells (2BSD1.10)	Mouse	SV40 T	1,000,000 cells/ml	T0139
Erythoid Progenitor Cells (CD36E)	Mouse	HPV E6/E7	1,000,000 cells/ml	T0136
Leptin Receptor-deficient Macrophage Cells (DB-1)	Mouse	Spontaneous	1,000,000 cells/ml	T0134
MHC $II^{-/-}$ Macrophage Cells (C2D)	Mouse	Spontaneous	1,000,000 cells/ml	T0225
$MS^{-/-}$ Alveolar Macrophage Cells (ZK1)	Mouse	Conditional reprogramming	1,000,000 cells/ml	T0676
$MS^{-/-}$ Alveolar Macrophage Cells (ZK2)	Mouse	Conditional reprogramming	1,000,000 cells/ml	T0677
$MS^{-/-}$ Alveolar Macrophage Cells (ZK6)	Mouse	Conditional reprogramming	1,000,000 cells/ml	T0678
Myeloid-derived Suppressor-like (HD1A) Cells	Mouse	SV40 T	1,000,000 cells/ml	T0137
Bone Marrow Mesenchymal Stromal Cells (DS1)	Canine	HPV E6/E7	1,000,000 cells/ml	T0687

Blood Vessel Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Aortic Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0447
Aortic Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0515
Ascending Aorta Vascular Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0549
Brachiocephalic Artery Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0513

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Brachiocephalic Artery Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0561
Cardiac Microvascular Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0514
Carotid Artery Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0512
Carotid Artery Smooth Muscle Cells	Human	hTERT	1,000,000 cells/ml	T0511
Carotid Artery Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0510
Coronary Artery Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0551
Coronary Artery Smooth Muscle Cells	Human	SV40	1,000,000 cells/ml	T0557
Iliac Artery Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0555
Internal Thoracic Artery Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0552
Internal Thoracic Artery Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0560
Pulmonary Artery Endothelial Cells	Human	SV40	1,000,000 cells/ml	T0550
Pulmonary Artery Smooth Muscle Cells	Human	SV40	1,000,000 cells/ml	T0558
Subclavian Artery Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0553
Subclavian Artery Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0556
Aortic Endothelial Cells (iMAEC-WT)	Mouse	PmT	1,000,000 cells/ml	T0504
Aortic Endothelial Cells	Feline	SV40 T and hTERT	1,000,000 cells/ml	T0516
Vena Cava Endothelial Cells	Feline	SV40 T and hTERT	1,000,000 cells/ml	T0517
Aorta Cells	Porcine	SV40 T	1,000,000 cells/ml	T0508
Porcine Aortic Endothelial Cells (AOC)	Porcine	SV40	1,000,000 cells/ml	T0448

Brain Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Cerebral Microvascular Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0259
Cerebral Microvascular Endothelial Cells	Human	Ras	1,000,000 cells/ml	T0262
Cerebral Microvascular Endothelial Cells	Human	p53	1,000,000 cells/ml	T0263
Dopaminergic Neuronal Precursor Cells (LUHMES)	Human	v-Myc	1,000,000 cells/ml	T0284
Endoneurial Endothelial Cells (THEndEC)	Human	SV40 T	1,000,000 cells/ml	T0292
Fetal Astrocytes	Human	SV40 T	1,000,000 cells/ml	T0280
Fetal Astrocytes	Human	hTERT	1,000,000 cells/ml	T0281
Microglia	Human	SV40 T	1,000,000 cells/ml	T0251
Olfactory Ensheathing Glia	Human	Bmi-1 and hTERT	1,000,000 cells/ml	T0282
Olfactory Ensheathing Glia	Human	SV40 T, Bmi-1, and hTERT	1,000,000 cells/ml	T0283
Astrocytes (IMA2.1)	Mouse	SV40	1,000,000 cells/ml	T0289
Brain Endothelial Cells	Mouse	SV40 T	1,000,000 cells/ml	T0276

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Brain Endothelial Cells	Mouse	hTERT	1,000,000 cells/ml	T0277
Brain Microvascular Endothelial Cells	Mouse	SV40 T	1,000,000 cells/ml	T0901
Cerebellar Capillary Endothelial Cells (cerebEND)	Mouse	PmT	1,000,000 cells/ml	T0291
Cerebral Capillary Endothelial Cells (cEND)	Mouse	PmT	1,000,000 cells/ml	T0290
Glial Cells (iGlia)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0243
Microglia (SIM-A9)	Mouse	Spontaneous	1,000,000 cells/ml	T0247
Neuronal Cells (M4b)	Mouse	Conditional reprogramming	1,000,000 cells/ml	T0674
Neural Progenitor Cells (iNPCs)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0244
Olfactory Bulb Cells (OBC1)	Mouse	c-Myc (pneoMLV)	1,000,000 cells/ml	T0235
Olfactory Bulb Cells (OBC6)	Mouse	c-Myc (pneoMLV)	1,000,000 cells/ml	T0236
Olfactory Bulb Cells (OBC13)	Mouse	c-Myc (pneoMLV)	1,000,000 cells/ml	T0237
Olfactory Bulb Cells (OBL21)	Mouse	c-Myc (pneoMLV)	1,000,000 cells/ml	T0238
Olfactory Bulb Cells (OBL21a)	Mouse	c-Myc (pneoMLV)	1,000,000 cells/ml	T0239
Olfactory Bulb Cells (OBL22)	Mouse	c-Myc (pneoMLV)	1,000,000 cells/ml	T0240
Olfactory Bulb Cells (OBL24)	Mouse	c-Myc (pneoMLV)	1,000,000 cells/ml	T0241
Schwann Cells	Mouse	Spontaneous	1,000,000 cells/ml	T0286
Schwann Cells (IMS32)	Mouse	Spontaneous	1,000,000 cells/ml	T0295
Trisomy 16 Neuronal Cells (MTh)	Mouse	Conditional reprogramming	1,000,000 cells/ml	T0675
Arachnoid Cells	Rat	SV40 T and hTERT	1,000,000 cells/ml	T0248
Embryonic Striatal (M213-2O) Cells	Rat	SV40 T	1,000,000 cells/ml	T0356
Embryonic Striatal (M26-1F) Cells	Rat	SV40 T	1,000,000 cells/ml	T0357
Embryonic Striatal Wildtype (121-1I) Cells	Rat	SV40 T	1,000,000 cells/ml	T0355
Enteroglial Cells (EGC)	Rat	Conditional reprogramming	1,000,000 cells/ml	T0245
Hypothalamus Cells (RCHT-1)	Rat	Spontaneous	1,000,000 cells/ml	T0692
Mesencephalic (AF5) Cells - SV40T (T155g)	Rat	SV40 T	1,000,000 cells/ml	T0358
Microglia	Rat	SV40 T	1,000,000 cells/ml	T0246
Olfactory Ensheathing Glia	Rat	SV40 T	1,000,000 cells/ml	T0249
Schwann Cells (IFRS1)	Rat	Spontaneous	1,000,000 cells/ml	T0294
Suprachiasmatic Nucleus Cells (SCN2.2)	Rat	E1A	1,000,000 cells/ml	T0296
Sympathoadrenal Progenitor Cells (MAH-A3)	Rat	v-Myc	1,000,000 cells/ml	T0293

Breast Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Mammary Epithelial Cells	Human	SV40	1,000,000 cells/ml	T0450
Mammary Epithelial Cells	Human	SV40 T and hTERT	1,000,000 cells/ml	T0455
Mammary Epithelial Cells (HMEC 2.6)	Human	hTERT	1,000,000 cells/ml	T0454
Mammary Epithelial Progenitor ($K5^+/K19^+$) Cells	Human	hTERT	1,000,000 cells/ml	T0452
Mammary Fibroblasts (HMF3A)	Human	SV40 T and hTERT	1,000,000 cells/ml	T0153
Mammary Fibroblasts (HMF3S)	Human	SV40 T and hTERT	1,000,000 cells/ml	T0154
Mammary MUC+ESA+ Epithelial Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0453
Mammary Epithelial Cells (iMMEC)	Mouse	E1A and p53DD	1,000,000 cells/ml	T0451
Prolactin-Responsive Mammary Epithelial Cells (HC11)	Mouse	Spontaneous	1,000,000 cells/ml	T0672

Digestive Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Colon Cells	Human	SV40 T	1,000,000 cells/ml	T0570
Gastric Cells (KMU-CS12)	Human	hTERT	1,000,000 cells/ml	T0661
Pancreatic Cells	Human	SV40 T	1,000,000 cells/ml	T0157
Pancreatic Cells	Human	c-Myc	1,000,000 cells/ml	T0158
Pancreatic Duct Epithelial Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0005
Pancreatic Islet-Derived Precursor Cells	Human	SV40 T	1,000,000 cells/ml	T0162
Pancreatic Islet-Derived Precursor Cells	Human	c-Myc	1,000,000 cells/ml	T0164
Pancreatic Islet-Derived Precursor Cells	Human	Ras	1,000,000 cells/ml	T0165
Pancreatic Islet-Derived Precursor Cells	Human	EBV	1,000,000 cells/ml	T0166
Pancreatic Islet-Derived Precursor Cells	Human	hTERT	1,000,000 cells/ml	T0163
Colonic Epithelial Cells (Conditional, YAMC)	Mouse	SV40	1,000,000 cells/ml	T0567
Enteric Neuronal Cells	Mouse	SV40 T	1,000,000 cells/ml	T0297
Intestinal Myofibroblasts	Mouse	SV40 T	1,000,000 cells/ml	T0565
Pancreas Epithelial Cells (Conditional, IMPE)	Mouse	SV40	1,000,000 cells/ml	T0156

Ear Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Otic Stem Cells (CR-OSC)	Mouse	Conditional reprogramming	1,000,000 cells/ml	T0372

Embryo Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Bcl-x Embryonic Fibroblasts	Mouse	SV40 T	1,000,000 cells/ml	T0749
Embryonic Cystic Fibrosis Fibroblasts	Mouse	SV40 T	1,000,000 cells/ml	T0257
Embryonic Cystic Fibrosis Fibroblasts	Mouse	Ras	1,000,000 cells/ml	T0258
Embryonic Cystic Fibrosis Fibroblasts	Mouse	c-Myc	1,000,000 cells/ml	T0253
Embryonic Hepatic Progenitor Cells (iHP)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0129
Embryonic Fibroblasts (18IM)	Rat	GFP-S18–2	1,000,000 cells/ml	T0354
Embryonic Striatal (M213-2O) Cells	Rat	SV40 T	1,000,000 cells/ml	T0356
Embryonic Striatal (M26-1F) Cells	Rat	SV40 T	1,000,000 cells/ml	T0357
Embryonic Striatal Wildtype (121-1I) Cells	Rat	SV40 T	1,000,000 cells/ml	T0355
Embryonic Cells (R1)	Drosophila	Ras	1,000,000 cells/ml	T0701
Embryonic Cells (R3)	Drosophila	Ras	1,000,000 cells/ml	T0702
Embryonic Cells (R4)	Drosophila	Ras	1,000,000 cells/ml	T0703
Embryonic Cells (R7)	Drosophila	Ras	1,000,000 cells/ml	T0704

Eye Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Conjuctival Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0361
Corneal Endothelial Cells (IHCE)	Human	HPV E6/E7	1,000,000 cells/ml	T0577
Corneal Fibroblasts (IHCF)	Human	HPV E6/E7	1,000,000 cells/ml	T0578
Corneal Keratinocytes (IHCK)	Human	HPV E6/E7	1,000,000 cells/ml	T0579
Lens Epithelial Cells	Human	SV40	1,000,000 cells/ml	T0573
Pterygium Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0360
Pterygium Fibroblasts	Human	SV40 T	1,000,000 cells/ml	T0363
Retinal Pigment Epithelial Cells	Human	Spontaneous	1,000,000 cells/ml	T0571
Trabecular Meshwork Cells	Human	SV40 T	1,000,000 cells/ml	T0371
Retinal Cells (MU-PH1)	Mouse	Spontaneous	1,000,000 cells/ml	T0373
Retinal Pigment Epithelial Cells	Mouse	HPV E6/E7	1,000,000 cells/ml	T0574
Conjunctival Epithelial Cells (CJ4.1A)	Rat	SV40 T	1,000,000 cells/ml	T0368
Conjunctival Epithelial Cells (CJ4.3)	Rat	SV40 T	1,000,000 cells/ml	T0369
Retinal Capillary Endothelial Cells	Rat	SV40	1,000,000 cells/ml	T9097
Retinal Cells (E1A-NR.3)	Rat	12S E1A	1,000,000 cells/ml	T0370
Retinal Müller Cells (rMC-1)	Rat	SV40	1,000,000 cells/ml	T0576
Retinal Precursor Cells (R28)	Rat	12S E1A	1,000,000 cells/ml	T0575

Hair Follicle Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Follicle Outer Root Sheath Cells	Human	SV40 T	1,000,000 cells/ml	T0502
Hair Follicle Dermal Papilla Cells	Human	SV40 T and c-Myc	1,000,000 cells/ml	T0503
Hair Follicle Dermal Papilla Cells	Human	SV40 T	1,000,000 cells/ml	T0500
Hair Follicle Dermal Papilla Cells	Human	hTERT	1,000,000 cells/ml	T0501
Hair Follicle Dermal Papilla Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0505

Heart Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Cardiac Fibroblasts	Human	SV40 T	1,000,000 cells/ml	T0446
Cardiomyocytes	Human	SV40 T	1,000,000 cells/ml	T0445
Atrioventricular Cushion Mesenchymal Cells (tsA58-AVM)	Mouse	SV40 T	1,000,000 cells/ml	T0670
Cardiomyogenic Progenitor Cells (iCP)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0449
Cardiomyocytes	Rat	SV40 T	1,000,000 cells/ml	T0015

Liver Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Hepatic Non-Parenchymal Cells	Human	SV40 T	1,000,000 cells/ml	T0580
Hepatic Sinusoidal Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0056
Hepatocytes	Human	SV40 T	1,000,000 cells/ml	T0050
Total Liver Cell Population	Human	SV40 T	1,000,000 cells/ml	T0581
Embryonic Hepatic Progenitor Cells (iHP)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0129
Hepatic Sinusoidal Endothelial Cells	Mouse	SV40 T	1,000,000 cells/ml	T0102
Hepatic Stellate Cells	Mouse	SV40 T	1,000,000 cells/ml	T0688
Hepatocyte SIMH (CLOCK) Cells	Mouse	SV40	1,000,000 cells/ml	T0750
Hepatocytes	Mouse	SV40 T	1,000,000 cells/ml	T0101
Hepatocytes (Conditional, ImHep)	Mouse	SV40	1,000,000 cells/ml	T0099
Kupffer Cells (ImKC)	Mouse	SV40 T	1,000,000 cells/ml	T0062
MyD88$^{-/-}$ Hepatic Stellate Cells	Mouse	SV40 T	1,000,000 cells/ml	T0690
TLR4$^{-/-}$ Hepatic Stellate Cells	Mouse	SV40 T	1,000,000 cells/ml	T0689
Hepatocytes	Rat	SV40 T	1,000,000 cells/ml	T0078
Portal Myofibroblasts (RGF)	Rat	SV40 T	1,000,000 cells/ml	T0068
Portal Myofibroblasts (RGF-N2)	Rat	SV40 T	1,000,000 cells/ml	T0069
Hepatocytes	Hamster	SV40 (T+t)	1,000,000 cells/ml	T0071
Hepatocytes	Monkey	SV40 T	1,000,000 cells/ml	T0073
Hepatocytes	Monkey	SV40 (T+t)	1,000,000 cells/ml	T0074

Mesentery Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Mesothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0470
Mesothelial Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0456

Oral Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Esophageal Epithelial Cells (NE2-hTERT)	Human	hTERT	1,000,000 cells/ml	T0632
Fungiform Taste Cells	Human	SV40 T	1,000,000 cells/ml	T0029
Gingival Fibroblasts	Human	SV40 T and hTERT	1,000,000 cells/ml	T0025
Gingival Fibroblasts	Human	hTERT	1,000,000 cells/ml	T0026
Gingival Keratinocytes (Gie-No3B11)	Human	HPV E6/E7	1,000,000 cells/ml	T0049
Oral Keratinocytes	Human	SV40 T	1,000,000 cells/ml	T0630
Oropharyngeal Cells	Human	SV40 T	1,000,000 cells/ml	T0041
Periodontal Ligament Fibroblasts	Human	SV40 T	1,000,000 cells/ml	T0044
Cementoblasts	Mouse	SV40 T	1,000,000 cells/ml	T0047
Dental Apical Papilla Progenitor Cells (iSCAP)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0048

Renal Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Adrenocortical Cells	Human	hTERT	1,000,000 cells/ml	T0621
Bladder Microvascular Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0618
Mesangial Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0612
Podocytes	Human	SV40 T and hTERT	1,000,000 cells/ml	T0083
Renal Cortical Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0614
Renal Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0616
Renal Medullary Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0615
Renal Proximal Tubule Cells	Human	SV40 T and hTERT	1,000,000 cells/ml	T0613
Urethral Epithelial Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0629
Urinary Bladder Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0617
Urothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0619
Cortical Collecting Duct Cell Line (mCCD(cl1))	Mouse	Spontaneous	1,000,000 cells/ml	T0620
Distal Tubule Cells (KDT3)	Mouse	Spontaneous	1,000,000 cells/ml	T0641
Distal Tubule Cells (KPT2)	Mouse	Spontaneous	1,000,000 cells/ml	T0642
Kidney Epithelial Cells (iBMK)	Mouse	E1A and p53DD	1,000,000 cells/ml	T0082
Mesangial Cells	Mouse	SV40 T	1,000,000 cells/ml	T0623
Proximal Tubule Cells (KPT11)	Mouse	Spontaneous	1,000,000 cells/ml	T0640

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Renal Proximal Tubule Cells (Conditional)	Mouse	SV40	1,000,000 cells/ml	T0624
Metanephric Mesenchymal Precursor Cells (KMM)	Rat	KSHV	1,000,000 cells/ml	T0622
Kidney Cells	Bovine	SV40 T	1,000,000 cells/ml	T0081
Kidney Cells (extEqFK)	Equine	HPV E6/E7	1,000,000 cells/ml	T0084
Kidney Proximal Tubule Cells	Sheep	SV40 T	1,000,000 cells/ml	T0902

Reproductive Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Amniotic Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0531
Amniotic Fluid Stem Cells	Human	SV40	1,000,000 cells/ml	T0903
Benign Prostate Epithelial Cell	Human	SV40 T	1,000,000 cells/ml	T0002
Cord Blood Mesenchymal Stromal Cells (cbMSC-hTERT)	Human	hTERT	1,000,000 cells/ml	T0016
Cord Blood Mesenchymal Stromal Cells with RFP (cbMSC-hTERT-RFP)	Human	hTERT	1,000,000 cells/ml	T0017
Endocervical Epithelial Cells (A2EN)	Human	HPV E6/E7	1,000,000 cells/ml	T0595
Endometrial Stromal Cells (HESC)	Human	hTERT	1,000,000 cells/ml	T0533
Endometrial Stromal Cells-SV40	Human	SV40	1,000,000 cells/ml	T9201
Fallopian Tube Secretory Epithelial Cells (FT33-shp53-R24C)	Human	hTERT	1,000,000 cells/ml	T0609
Granulosa Cells (HGL5)	Human	HPV E6/E7	1,000,000 cells/ml	T0650
Ovarian Epithelial Cells	Human	SV40	1,000,000 cells/ml	T1074
Oviductal Cells (OE)	Human	HPV E6/E7	1,000,000 cells/ml	T0657
Placental Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0530
Prostate Epithelial Cells	Human	SV40 T	1,000,000 cells/ml	T0600
Prostate Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0601
Prostate Stromal Cells	Human	SV40 T	1,000,000 cells/ml	T0602
Testicular Cells	Human	SV40 T	1,000,000 cells/ml	T0603
Trophoblast Cells (Sw.71)	Human	hTERT	1,000,000 cells/ml	T0532
Umbilical Artery Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0011
Umbilical Artery Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0012
Umbilical Cord Vascular Endothelial Cells	Human	hTERT	1,000,000 cells/ml	T0001
Umbilical Vein Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0014
Umbilical Vein Smooth Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0013
Uterine Fibroblasts	Human	SV40 T	1,000,000 cells/ml	T0610
Uterine Microvascular Endothelial Cells	Human	SV40 T	1,000,000 cells/ml	T0611
Vascular Endothelial Cells (EC-RF24)	Human	HPV E6/E7	1,000,000 cells/ml	T0003
Coagulating Gland Cells (INK4$^{-/-}$ CG)	Mouse	p16 and p19 knockout	1,000,000 cells/ml	T0656

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Distal Caput Epididymal Epithelial Cell Line (DC2)	Mouse	SV40 T	1,000,000 cells/ml	T0599
Dorsolateral Prostate Cells (INK4$^{-/-}$ DLP)	Mouse	p16 and p19 knockout	1,000,000 cells/ml	T0655
Leydig Cells (D-4-4)	Mouse	PmT	1,000,000 cells/ml	T0648
Ovarian Surface Epithelial Cells (iMOSEC)	Mouse	E1A and p53DD	1,000,000 cells/ml	T0608
Prostate Epithelial Cells (iMPEC)	Mouse	E1A and p53DD	1,000,000 cells/ml	T0607
Proximal Caput Epididymal Epithelial Cell Line (PC1)	Mouse	SV40 T	1,000,000 cells/ml	T0598
Sertoli Cells (D-4-A)	Mouse	PmT	1,000,000 cells/ml	T0649
Sertoli Cells (ST38c)	Mouse	SV40 T	1,000,000 cells/ml	T0652
Smooth Muscle/Myometrial-Like Cells (SMU1-10)	Mouse	SV40 T	1,000,000 cells/ml	T0651
Urogenital Sinus Mesenchymal Cells (UGSM-2)	Mouse	p16 and p19 knockout	1,000,000 cells/ml	T0653
Ventral Prostate Cells (INK4$^{-/-}$ VP)	Mouse	p16 and p19 knockout	1,000,000 cells/ml	T0654
Decidual Cells (Conditional, GG-AD)	Rat	SV40	1,000,000 cells/ml	T0597
Luteal Cells (Conditional, GG-CL)	Rat	SV40	1,000,000 cells/ml	T0596
Steroidogenic Granulosa Cells expressing FSH Receptor (GFSHR-17)	Rat	SV40 and Ha-Ras	1,000,000 cells/ml	T0605
Steroidogenic Granulosa Cells expressing LH/CG Receptor (GLHR-15)	Rat	SV40 and Ha-Ras	1,000,000 cells/ml	T0606

Skeletal Muscle and Bone/Cartilage Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Chondrocytes	Human	c-Myc	1,000,000 cells/ml	T0022
Chondrocytes	Human	Ras	1,000,000 cells/ml	T0024
Chondrocytes	Human	hTERT	1,000,000 cells/ml	T0023
Chondrocytes	Human	SV40 T	1,000,000 cells/ml	T0021
Fetal Osteoblastic Estrogen Receptor Stable Cell Line	Human	SV40 T	1,000,000 cells/ml	T0007
Nucleus Pulposus Cells	Human	hTERT	1,000,000 cells/ml	T0691
Osteoblasts	Human	SV40 T	1,000,000 cells/ml	T0006
Osteoprecursor Cells (OPC1)	Human	SV40 T	1,000,000 cells/ml	T0230
Skeletal Muscle Cells	Human	SV40 T	1,000,000 cells/ml	T0034
Skeletal Muscle Myoblasts	Human	SV40 T	1,000,000 cells/ml	T0033
Synovial Membrane Chondroblasts Cells	Human	SV40 T	1,000,000 cells/ml	T0032
Synovial Membrane Fibroblasts	Human	SV40 T	1,000,000 cells/ml	T0030
Achilles Tendon Cells (iMAT)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0035
Articular Chondrocytes (iMAC)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0010
Calvarial Mesenchymal Progenitor Cells (iCALs)	Mouse	SV40 T	1,000,000 cells/ml	T0019
Cranial Suture Cells (iMSu)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0227

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Floxed Fam20c Dental Papillar Mesenchymal Cells	Mouse	SV40 T	1,000,000 cells/ml	T0039
Floxed Fam20c Osteoblast Cells	Mouse	SV40 T	1,000,000 cells/ml	T0038
Intervertebral Disc Cells (iMIDs)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0228
MHC II$^{-/-}$ Macrophage Cells (C2Dt)	Mouse	SV40 T	1,000,000 cells/ml	T0226
Muscular Dystrophy Myoblast Cells	Mouse	SV40	1,000,000 cells/ml	T0647
Osteocytic Cells (Conditional, IDG-SW3)	Mouse	Conditional reprogramming	1,000,000 cells/ml	T0231
Suture Osteoblast Cells (iSOCs)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0229

Skin Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Benign Skin Cells	Human	SV40 T	1,000,000 cells/ml	T0303
Benign Skin Cells	Human	hTERT	1,000,000 cells/ml	T0304
Benign Skin Cells	Human	c-Myc	1,000,000 cells/ml	T0305
Dermal Microvascular Endothelial Cells	Human	HPV E6/E7	1,000,000 cells/ml	T0347
Epidermal Keratinocytes	Human	SV40 T	1,000,000 cells/ml	T0345
Epidermal Keratinocytes (SIK)	Human	Spontaneous	1,000,000 cells/ml	T0770
Melanocytes	Human	hTERT	1,000,000 cells/ml	T0462
Melanocytes	Human	SV40 T and hTERT	1,000,000 cells/ml	T0463
Neonatal Fibroblasts	Human	hTERT	1,000,000 cells/ml	T0344
Skin Fibroblasts	Human	c-Myc	1,000,000 cells/ml	T0301
Skin Fibroblasts	Human	SV40 T	1,000,000 cells/ml	T0302
Skin Fibroblasts	Human	HPV E6/E7	1,000,000 cells/ml	T0904
EGFR Mutant M3$^{-/-}$ Epidermal Keratinocytes	Mouse	Spontaneous	1,000,000 cells/ml	T0461
EGFR Mutant M4$^{-/-}$ Epidermal Keratinocytes	Mouse	Spontaneous	1,000,000 cells/ml	T0460
Embryonic Cystic Fibrosis Fibroblasts	Mouse	c-Myc	1,000,000 cells/ml	T0253
Epidermal Cells (COCA)	Mouse	Spontaneous	1,000,000 cells/ml	T0349
Epidermal Keratinocytes (CDC25A F7)	Mouse	Spontaneous	1,000,000 cells/ml	T0299
Intermediately Differentiated Melanoblasts (iMC37)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0320
Late Stage Melanocytes (iMC65)	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0319
Melanocytes	Mouse	loxP-flanked SV40 T	1,000,000 cells/ml	T0466
Mutant Epidermal Keratinocytes (CDC25A 8b)	Mouse	Spontaneous	1,000,000 cells/ml	T0298
Progenitor-Like Melanocytes (iMC23)	Mouse	SV40 T	1,000,000 cells/ml	T0318
Wildtype M4$^{+/+}$ Epidermal Keratinocytes	Mouse	Spontaneous	1,000,000 cells/ml	T0459
Dermal Fibroblasts	Canine	SV40 T	1,000,000 cells/ml	T0265
Dermal Fibroblasts	Canine	hTERT	1,000,000 cells/ml	T0266

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Dermal Fibroblasts	Canine	c-Myc	1,000,000 cells/ml	T0267
Dermal Fibroblasts	Canine	Ras	1,000,000 cells/ml	T0268
Dermal Fibroblasts	Canine	EBV	1,000,000 cells/ml	T0274

Spleen Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Dendritic Cells (MutuDC1940)	Mouse	SV40 T	1,000,000 cells/ml	T0528
Spleen Dendritic Cells (SRDC)	Mouse	SV40 T	1,000,000 cells/ml	T0140

Thyroid Tissue | Available Cell Lines

Cell Type	Species	Immortalization Method	Unit	Cat. No.
Thyrocytes	Human	SV40	1,000,000 cells/ml	T0421
Parathyroid Cells	Bovine	SV40 T	1,000,000 cells/ml	T0411
Thyrocytes	Bovine	SV40 T	1,000,000 cells/ml	T0401
Thyrocytes	Bovine	Ras	1,000,000 cells/ml	T0402
Thyrocytes	Bovine	c-Myc	1,000,000 cells/ml	T0403
Thyrocytes	Bovine	hTERT	1,000,000 cells/ml	T0404

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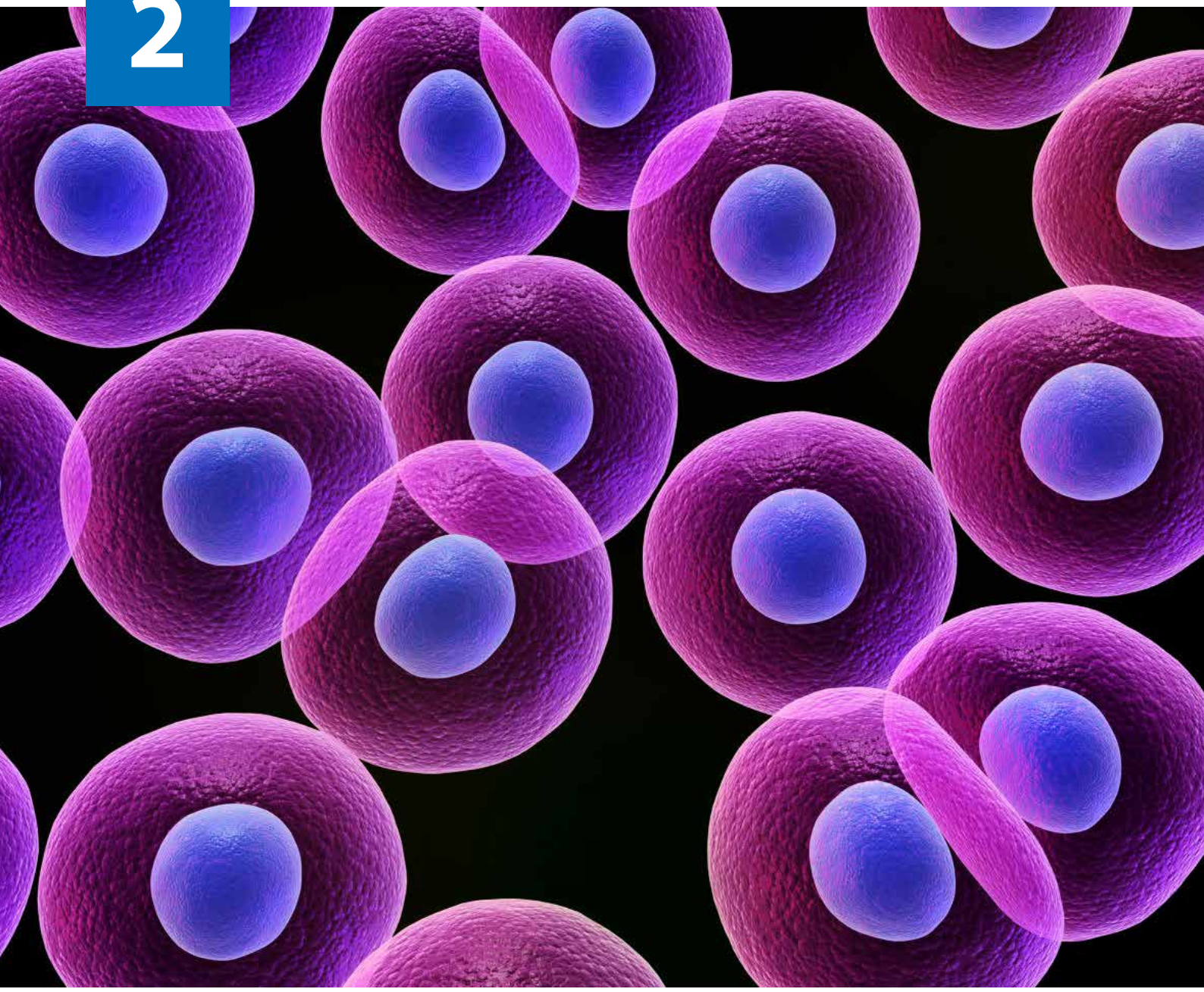

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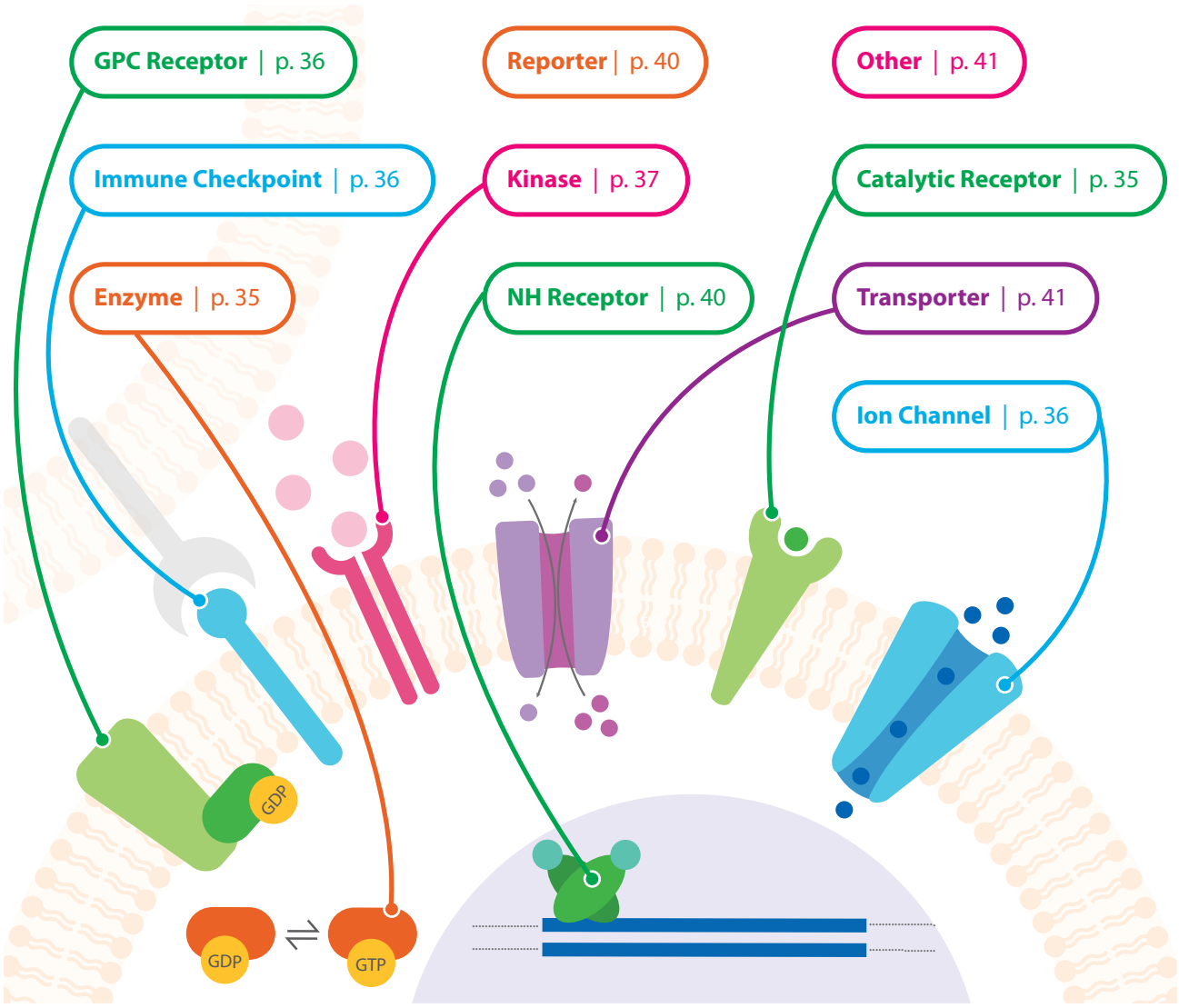
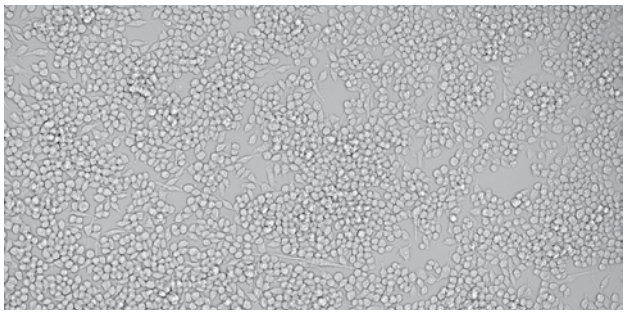


Catalytic Receptor & Reporter | Featured Cell Line

NF-κB Luciferase-Expressing RAW264.7 Cell Line

Luciferase is commonly used as a reporter to assess the transcriptional activity of a genetic construct with the luciferase gene under the promoter of interest. NF-κB Luciferase Stable RAW264.7 Cell Line has been stably transfected with a 3κB-Luc SV40 reporter, which contains 3 NF-κB sites from the interferon gene upstream of the luciferase coding region. This cell line is useful in investigating NF-κB activation in monocyte-macrophage models.



Specifications

- Source Organ: Ascites; Abelson murine leukemia virus-induced tumor
- Method: Transfected with a 3κB-Luc SV40 reporter containing 3 NF-κB sites from the interferon gene upstream of the luciferase coding region
- Selection: G418

Ordering Information	
Cat. No.	T3015
Species	Mouse
Unit	1,000,000 cells/ml

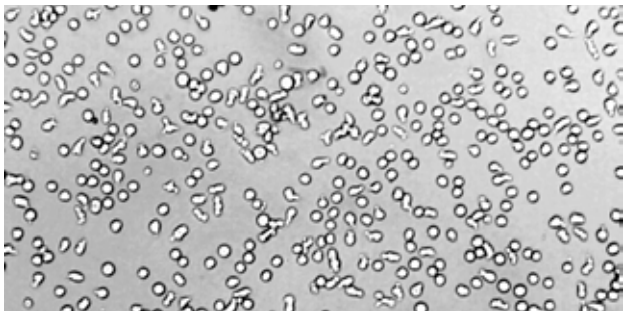
Featured Reference

Li, X et al. "Sinomenine suppresses osteoclast formation and Mycobacterium tuberculosis H37Ra-induced bone loss by modulating RANKL signaling pathways." PLoS One 8(9):e74274 (2013). DOI:10.1371/journal.pone.0074274.

Kinase | Featured Cell Line

CSF1R-Expressing Ba/F3 Cell Line

Fusing a kinase domain to a homodimerization domain such as the PNT domain of ETV6 can result in activated kinase. The CSF1R Stable Ba/F3 Cell Line expresses activated CSF1R tyrosine kinase that is linked to a GFP reporter (GFP-ETV6-CSF1R in MSCV-puro vector). Even though this cell line expresses activated kinase, it is non-transforming, meaning that the cells still require IL-3 to grow. CSF1R is crucial in regulating the development, survival, and function of hematopoietic precursor cells, particularly mononuclear phagocytes. CSF1R is also involved in innate immunity, inflammation, and bone and tooth development, among other biological processes. This cell line is valuable to study the functions of the CSF1R receptor.



Specifications

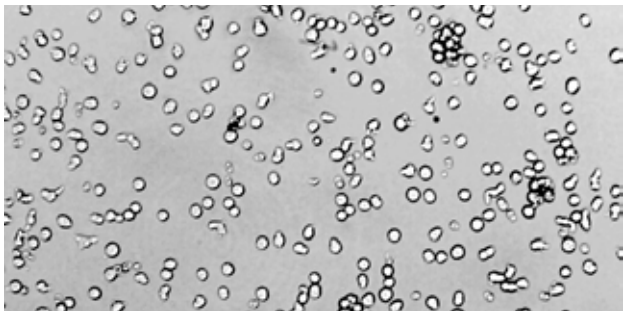
- Source Organ: Bone Marrow
- Method: Retroviral transduction of GFP-ETV6-CSF1R in MSCV-puro vector into parental Ba/F3 cells
- Selection: Puromycin

Ordering Information	
Cat. No.	T3138
Species	Mouse
Unit	1,000,000 cells/ml

Kinase | Featured Cell Line

EPHA7-Expressing Ba/F3 Cell Line

The EPHA7 Stable Ba/F3 Cell Line expresses activated EPHA7 tyrosine kinase that is linked to a GFP reporter (GFP-ETV6-EPHA7 in MSCV-puro vector). Ba/F3 cells expressing activated tyrosine kinase become dependent on the kinase activity for survival, and as a result the cells can be propagated even in the absence of IL-3. EPHA7 belongs to the EPH family of receptor tyrosine kinases consisting of proteins which bind to ephrin. These proteins are expressed in nearly all tissues during embryonic development and are involved in a variety of developmental processes, including formation of the nervous system, cardiovascular system, and axon guidance. Increased expression of EPHA7 is associated with multiple forms of carcinoma.



Ordering Information	
Cat. No.	T3069
Species	Mouse
Unit	1,000,000 cells/ml

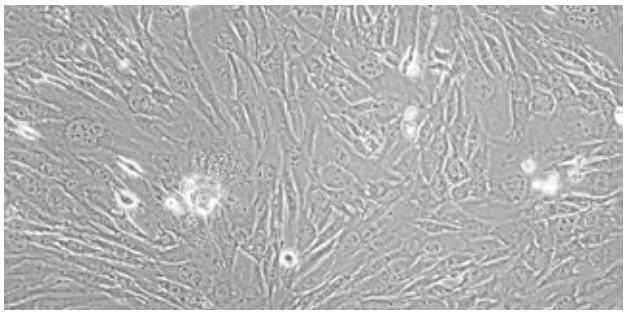
Specifications

- Source Organ: Bone Marrow
- Method: Retroviral transduction of GFP-ETV6-EPHA7 in MSCV-puro vector into parental Ba/F3 cells
- Selection: Puromycin

Reporter | Featured Cell Line

Luciferase (Luc2) Stable TRAMP Cell Line

Luciferase is commonly used as a reporter to assess the transcriptional activity of a genetic construct with the luciferase gene under the promoter of interest. Luciferase stable TRAMP Cells are a luciferase expressing cell line derived from TRAMP cells. The expression of luciferase has been confirmed via a luciferase assay, and all clones are puromycin resistant. Luciferase stable TRAMP cells can be a very useful cell line for non-invasive visualization in animal models.



Ordering Information	
Cat. No.	T3008
Species	Mouse
Unit	1,000,000 cells/ml

Specifications

- Source Organ: Adenocarcinoma; Prostate
- Method: Lentiviral transduction of **abm**'s pLenti-III-UbC-Luciferase virus into TRAMP cells
- Selection: Puromycin

Featured Reference

Lingel, H et al. "CTLA-4-mediated posttranslational modifications direct cytotoxic T-lymphocyte differentiation." Cell Death and Differentiation 10:1739-1749 (2017). DOI: 10.1038/cdd.2017.102.

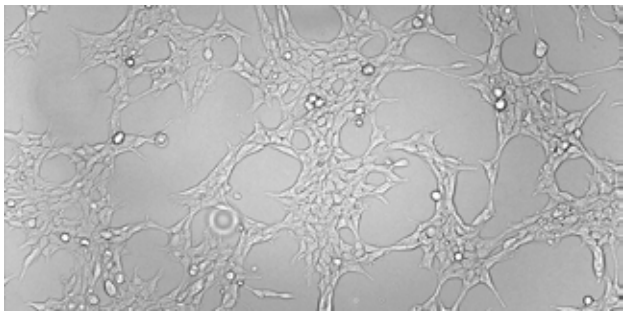
Reporter | Featured Cell Line

Luciferase Stable PC3 Cell Line

Luciferase is commonly used as a reporter to assess the transcriptional activity of a genetic construct with the luciferase gene under the promoter of interest. Luciferase Stable PC3 Cells are a luciferase expressing cell line derived from PC3 cells. The expression of luciferase has been confirmed with a luciferase assay, and all clones are puromycin-resistant. Luciferase Stable PC3 Cells can be a very useful cell line for non-invasive visualization in animal models.

Specifications

- Source Organ: Adenocarcinoma; Prostate
- Method: Lentiviral transduction of **abm**'s pLenti-III-UbC-Luciferase virus into PC3 cells
- Selection: Puromycin



Ordering Information	
Cat. No.	T3006
Species	Human
Unit	1,000,000 cells/ml

Featured Reference

Schlaepfer, I. R et al. "Inhibition of Lipid Oxidation Increases Glucose Metabolism and Enhances 2-Deoxy-2-[18F]Fluoro-d-Glucose Uptake in Prostate Cancer Mouse Xenografts." Molecular Imaging and Biology 4:529-538 (2015). DOI: 10.1007/s11307-014-0814-4.

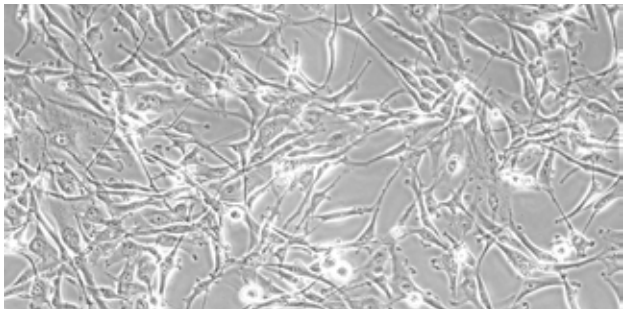
Reporter | Featured Cell Line

Luciferase Stable U87MG/ΔEGFR Cell Line

Luciferase is commonly used as a reporter to assess the transcriptional activity of a genetic construct with luciferase gene under the promoter of interest. Luciferase Stable U87MG/ΔEGFR Cells were generated using **abm**'s pLenti-III-UbC-Luciferase lentivirus on U87MG/ΔEGFR Cells. The expression of luciferase has been confirmed with a luciferase assay, and all clones are puromycin-resistant. Luciferase stable U87MG/ΔEGFR cells can be a very useful cell line for non-invasive visualization in animal models.

Specifications

- Source Organ: Glioblastoma; Brain
- Method: Lentiviral transduction of **abm**'s pLenti-III-UbC-Luciferase virus into U87MG/ΔEGFR cells
- Selection: Puromycin



Ordering Information	
Cat. No.	T3009
Species	Human
Unit	1,000,000 cells/ml

Catalytic Receptor | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
BMP9-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T3168
ECD GC-B (GCB-435)-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6037
GC-B (GCB-Full)-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6036
TLR2-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T3059
IFN Type I Receptor Knockout Immortalized Dendritic Cell Line	Mouse	1,000,000 cells/ml	T3036
Leptin Receptor-deficient Immortalized Macrophage Cells (DB-1)	Mouse	1,000,000 cells/ml	T0134
NF-κB Luciferase-Expressing RAW264.7 Cell Line	Mouse	1,000,000 cells/ml	T3015
TLR3 Knockout Immortalized Dendritic Cell Line	Mouse	1,000,000 cells/ml	T3034
TLR9 Knockout Immortalized Dendritic Cell Line	Mouse	1,000,000 cells/ml	T3035
hSSAO/VAP-1-Expressing A7r5 Cell Line	Rat	1,000,000 cells/ml	T3155

Enzyme | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
EZH2-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6205
FUT8-Overexpressing HEK293S GnT I-/- Cell Line	Human	1,000,000 cells/ml	T6010
Luc-Akt-PH/YFP-Expressing MCF-7/B2 Cell Line	Human	1,000,000 cells/ml	T3161
Luc-Akt-PH-Expressing MCF7 Cell Line	Human	1,000,000 cells/ml	T3160
Murine ADH1-Expressing HepG2 (VA-13) Cell Line	Human	1,000,000 cells/ml	T3195
PSMA- (PSMA/FOLh1/Carboxypeptidase II) and GFP-Expressing U87MG/ ΔEGFR Cell Line	Human	1,000,000 cells/ml	T6206
Ras Protein-Overexpressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6012
Rpn11-HTBH-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6007
SIRT1 Knockout 293T Cell Line	Human	1,000,000 cells/ml	T3176
SIRT1 Knockout DLD-1 Cell Line	Human	1,000,000 cells/ml	T3174
SIRT1 Knockout RKO Cell Line	Human	1,000,000 cells/ml	T3172
SIRT1 Wildtype 293T Cell Line	Human	1,000,000 cells/ml	T3175
SIRT1 Wildtype DLD-1 Cell Line	Human	1,000,000 cells/ml	T3173
SIRT1 Wiltype RKO Cell Line	Human	1,000,000 cells/ml	T3171
eNOS Knockout Aortic Endothelial (iMAEC-eNOS) Cell Line	Mouse	1,000,000 cells/ml	T3180
GAD67-Expressing Embryonic Striatal (M213-2O CL4) Cell Line	Rat	1,000,000 cells/ml	T3401
SIAT1-Expressing MDCK (MDCK-SIAT1) Cell Line	Canine	1,000,000 cells/ml	T6999
C307Y Mutated hGALE-Expressing CHO Cell Line	Hamster	1,000,000 cells/ml	T3199
G90E Mutated hGALE-Expressing CHO Cell Line	Hamster	1,000,000 cells/ml	T3197
GADD34 Q525X-Expressing CHO-K1 (CHO-K1-G34M) Cell Line	Hamster	1,000,000 cells/ml	T6980
GALE(human) V94M-Expressing CHO Cell Line	Hamster	1,000,000 cells/ml	T3198

Cell Type	Species	Unit	Cat. No.
HA-Tagged hGALE-Expressing CHO Cell Line	Hamster	1,000,000 cells/ml	T3196
Mgat2 Knockout K16 CHO Cell Line	Hamster	1,000,000 cells/ml	T6008

G Protein-Coupled Receptor | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
GRPR-Luciferase-Expressing PC3 Cell Line	Human	1,000,000 cells/ml	T3021
T2R10-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6140
T2R14-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6141
T2R1-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6137
T2R39-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6144
T2R44-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6143
T2R49-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6142
T2R4-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6138
T2R7-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6139
AT1A Knockout Immortalized Renal Proximal Tubule Cell Line	Mouse	1,000,000 cells/ml	T0626
AT1A/AT1B Double Knockout Immortalized Renal Proximal Tubule Cell Line	Mouse	1,000,000 cells/ml	T0628
AT1B Knockout Immortalized Renal Proximal Tubule Cell Line	Mouse	1,000,000 cells/ml	T0627
AT2 Knockout Immortalized Renal Proximal Tubule Cell Line	Mouse	1,000,000 cells/ml	T0625
FSH Receptor-Expressing Immortalized Steroidogenic Granulosa Cells (GFSHR-17)	Rat	1,000,000 cells/ml	T0605
LH/CG Receptor-Expressing Immortalized Steroidogenic Granulosa Cells (GLHR-15)	Rat	1,000,000 cells/ml	T0606
SSTR1-Expressing CHO-K1 Cell Line	Hamster	1,000,000 cells/ml	T6122
SSTR2-Expressing CHO-K1 Cell Line	Hamster	1,000,000 cells/ml	T6123

Immune Checkpoint | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
TIM3-Expressing CHO-K1 Cell Line	Hamster	1,000,000 cells/ml	T6121

Ion Channel | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
Aquaporin-4-Expressing 293 Cell Line	Human	1,000,000 cells/ml	T3001
Cx26-Expressing BxPC-3 Cell Line	Human	1,000,000 cells/ml	T3166
Ryanodine Receptor 1-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T3037
TRPV4-Expressing KPT2 Cell Line	Mouse	1,000,000 cells/ml	T6009
$Na_v2.1/\beta1$/Contactin-Expressing CHL Cell Line	Hamster	1,000,000 cells/ml	T3030

Kinase | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
Deoxycytidine Kinase Deficient T Lymphoblast Cell Line (AraC-8C)	Human	1,000,000 cells/ml	T3157
FGFR1-Expressing U2OS Cell Line	Human	1,000,000 cells/ml	T6017
FRK Knockout H1299 Cell Line	Human	1,000,000 cells/ml	T9505
MuSK-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T3005
NLK Knockout A549 Cell Line	Human	1,000,000 cells/ml	T9510
Smad4-Expressing SW480 Cell Line	Human	1,000,000 cells/ml	T6011
AATK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3134
ABL1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3100
ABL2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3101
ALK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3062
Araf-Expressing Knockout RAW264.7 Cell Line	Mouse	1,000,000 cells/ml	T9511
AXL-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3064
BLK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3086
BMX-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3146
BTK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3147
c-Kit N705A/N938A-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3051
c-Kit Y568F/Y570F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3045
c-Kit Y703F/Y936F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3048
c-Kit/D816F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3053
c-Kit/D816H-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3052
c-Kit/D816V-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3040
c-Kit/D816Y-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3054
c-Kit/K642E-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3056
c-Kit/N705A-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3049
c-Kit/N938A-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3050
c-Kit/V560D-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3055
c-Kit/WT-Expressing Ba/F3 (with GNNK$^-$ isoform) Cell Line	Mouse	1,000,000 cells/ml	T3041
c-Kit/WT-Expressing Ba/F3 (with GNNK$^+$ isoform) Cell Line	Mouse	1,000,000 cells/ml	T3042
c-Kit/Y568F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3043
c-Kit/Y570F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3044
c-Kit/Y703F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3046
c-Kit/Y721F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3057
c-Kit/Y823F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3058
c-Kit/Y936F-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3047
CSF1R-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3138
CSK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3120

Cell Type	Species	Unit	Cat. No.
Cyp2C29-Expressing Hepatocytes Cell Line	Mouse	1,000,000 cells/ml	T3010
DDR1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3122
DDR2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3123
EGFR- and ERBB2-Expressing Conditional Knockdown Skin Keratinocyte (B1B2F3) Cell Line	Mouse	1,000,000 cells/ml	T3184
EGFR-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3106
EGFR-Expressing Conditional Knockdown Skin Keratinocyte (EGFR2) Cell Line	Mouse	1,000,000 cells/ml	T3186
EPHA10-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3126
EPHA1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3067
EPHA2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3108
EPHA3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3127
EPHA4-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3099
EPHA5-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3068
EPHA6-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3128
EPHA7-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3069
EPHA8-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3070
EPHB1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3109
EPHB2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3110
EPHB3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3129
EPHB4-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3112
ERBB2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3098
ERBB2-Expressing Conditional Knockdown Skin Keratinocyte (B2F6) Cell Line	Mouse	1,000,000 cells/ml	T3185
ERBB3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3125
ERBB4-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3107
FER-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3113
FGFR1-Expressing Ba/F3 (ZNF) Cell Line	Mouse	1,000,000 cells/ml	T6145
FGFR2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3071
FGFR3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3072
FGFR4-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3132
FGR-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3087
FLT1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3152
FLT3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3080
FLT4-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3097
FRK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3143
FYN-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3088
HCK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3089
IGF1R-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3073

Cell Type	Species	Unit	Cat. No.
INSR-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3074
INSRR-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3133
ITK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3148
JAK1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3075
JAK2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3076
JAK3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3077
KDR-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3118
KIT-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3081
LCK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3090
LMTK3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3136
LTK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3063
LYN-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3115
MATK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3121
MERTK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3065
MET-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3078
MST1R-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3079
MuSK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3137
NTRK1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3094
NTRK2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3095
NTRK3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3096
PDGFRA-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3082
PDGFRB-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3083
PTK2B-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3131
PTK2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3124
PTK6-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3144
PTK7-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3139
RET-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3084
ROR1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3140
ROR2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3141
ROS1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3085
RYK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3142
SRC-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3091
SRMS-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3145
STYK1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3153
SYK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3093
TEC-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3149
TEK2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3151

Cell Type	Species	Unit	Cat. No.
TIE1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3117
TNK1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3061
TNK2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3119
TrkA-Expressing T17 Cell Line	Mouse	1,000,000 cells/ml	T3158
TrkB-Expressing T48 Cell Line	Mouse	1,000,000 cells/ml	T3159
TXK-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3150
TYK2-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3111
TYRO3-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3066
YES1-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3092
ZAP70-Expressing Ba/F3 Cell Line	Mouse	1,000,000 cells/ml	T3116
HER2-Overexpressing CHO Cell Line	Hamster	1,000,000 cells/ml	T3193
HER1- and HER2-Overexpressing VERO Cell Line	Monkey	1,000,000 cells/ml	T3194
HER1-Overexpressing VERO Cell Line	Monkey	1,000,000 cells/ml	T3192
HER2- and HER3-Overexpressing VERO Cell Line	Monkey	1,000,000 cells/ml	T3191
HER2-Overexpressing VERO Cell Line	Monkey	1,000,000 cells/ml	T3189
HER3-Overexpressing VERO Cell Line	Monkey	1,000,000 cells/ml	T3190

Nuclear Hormone Receptor | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
ER-Positive Breast Epithelial Cell Line	Human	1,000,000 cells/ml	T6021
PGC-1α/ERRα-Expressing 293T Cell Line	Human	1,000,000 cells/ml	T3060
PML Knockout Hep-2 Cell Line	Human	1,000,000 cells/ml	T6038
PZ-TR Luciferase-Expressing HepG2 Cell Line	Human	1,000,000 cells/ml	T3177

Reporter | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
Androgen Receptor-Expressing 22Rv1 (AIZ-AR) Luciferase Reporter Cell Line	Human	1,000,000 cells/ml	T3104
Aryl Glucocorticoid Receptor-Expressing (AZ-GR) HeLa Luciferase Reporter Cell Line	Human	1,000,000 cells/ml	T3103
Aryl Hydrocarbon Receptor-Expressing (AZ-AHR) HepG2 Luciferase Reporter Cell Line	Human	1,000,000 cells/ml	T3102
CD2 (truncated)-Expressing (tCD-Luc2) HeLa Cell Line	Human	1,000,000 cells/ml	T6023
Gastrin-Releasing Peptide Receptor Luciferase-Expressing (GRPR) PC3 Cell Line	Human	1,000,000 cells/ml	T3021
Luciferase Stable PC3 Cell Line	Human	1,000,000 cells/ml	T3006
Luciferase Stable U87MG/ΔEGFR Cell Line	Human	1,000,000 cells/ml	T3009
Pleckstrin Homology Domain of Akt (Luc-Akt-PH) MCF7 Cell Line	Human	1,000,000 cells/ml	T3160

Cell Type	Species	Unit	Cat. No.
Pleckstrin Homology Domain of Akt with YFP-Mem (Luc-Akt-PH/YFP) MCF7/B2 Cell Line	Human	1,000,000 cells/ml	T3161
Thyroid Receptor-Expressing (PZ-TR) HepG2 Cell Line	Human	1,000,000 cells/ml	T3177
TLR2-Luciferase-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T3059
BMP-Responsive Immortalized Reporter (BRITER) Cell Line	Mouse	1,000,000 cells/ml	T3105
Luciferase (Luc2) Stable TRAMP Cell Line	Mouse	1,000,000 cells/ml	T3008
NF-κB Luciferase-Expressing RAW264.7 Cell Line	Mouse	1,000,000 cells/ml	T3015
Dual Notch1-YFP and Inducible Delta-mCherry Reporter CHO-K1 (hN1) Cell Line	Hamster	1,000,000 cells/ml	T3032

Transporter | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
DMT1(mouse)-Expressing HEK293T Cell Line	Human	1,000,000 cells/ml	T6000
KCC2-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T3038
TALEN hsMgat1/GnT-1 Knockout HEK293T Cell Line	Human	1,000,000 cells/ml	T6111
HA-tagged SCL26A9-Expressing Thyroid Epithelial (SLC26A9-FRT) Cell Line	Rat	1,000,000 cells/ml	T3188
SLC35A1 CRISPR Knockout CHO-S Cell Line	Hamster	1,000,000 cells/ml	T6040
TALEN hsMgat1/GnT-1 Knockout CHO-S Cell Line	Hamster	1,000,000 cells/ml	T6110

Other | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
ABCC1 15A16-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6004
ABCC1 30A31-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6005
ABCC1 4A6-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6006
ABCC1-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6003
Ad5 pTP-Expressing 293 (293pTP) Cell Line	Human	1,000,000 cells/ml	T3178
ARL13-B-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6041
CNBP-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T6212
DDX5-S480A-Expressing Hepatic Stellate Cell Line	Human	1,000,000 cells/ml	T6002
DDX5-WT-Expressing Hepatic Stellate Cell Line	Human	1,000,000 cells/ml	T6001
E-cadherin MIA PaCa-2 Cell Line	Human	1,000,000 cells/ml	T3167
EEF1A1 Knockdown A549 Cell Line	Human	1,000,000 cells/ml	T6204
FLNC Knockout A2780 Cell Line	Human	1,000,000 cells/ml	T9503
GAB1 Knockout 8505c Cell Line	Human	1,000,000 cells/ml	T9501
GNAO1 R243H-Expressing Immortalized Mammary Epithelial Cell Line	Human	1,000,000 cells/ml	T6202
GNAO1-Expressing Immortalized Mammary Epithelial Cell Line	Human	1,000,000 cells/ml	T6201

Cell Type	Species	Unit	Cat. No.
hELG1(truncated)-CFP-Expressing Retinal Pigment Epithelial Cell Line	Human	1,000,000 cells/ml	T3183
HXBc2 tat (tat-III)-Expressing HeLa Cell Line	Human	1,000,000 cells/ml	T6020
JWA Knockout MHCC97L Cell Line	Human	1,000,000 cells/ml	T9504
LIN28B Knockout A2780 Cell Line	Human	1,000,000 cells/ml	T9506
R-spondin1(mouse)-Expressing 293T Cell Line	Human	1,000,000 cells/ml	T3156
SPINK1-Expressing AsPC-1 Cell Line	Human	1,000,000 cells/ml	T3154
Spry4-it1-Expressing HT-29 Cell Line	Human	1,000,000 cells/ml	T6203
WM115-Expressing RAGE Cell Line	Human	1,000,000 cells/ml	T6013
ΔN-IκBα-Expressing HOS-DS-Red (HOS-DS-Red/ΔN-IκBα) Cell Line	Human	1,000,000 cells/ml	T6109
ΔN-IκBα-Expressing HOS-G (HOS-G/ΔN-IκBα) Cell Line	Human	1,000,000 cells/ml	T6108
88 TAg Y-LIZ DNA Polymerase-β Knockout Embryonic Fibroblast Cell Line	Mouse	1,000,000 cells/ml	T3170
92 TAg Y-LIZ Wildtype Embryonic Fibroblast Cell Line	Mouse	1,000,000 cells/ml	T3169
Atg5 Knockout Immortalized Kidney Epithelial Cell Line	Mouse	1,000,000 cells/ml	T3027
Atg7 Knockout Immortalized Kidney Epithelial Cell Line	Mouse	1,000,000 cells/ml	T3028
Bak Knockout Immortalized Kidney Epithelial Cell Line	Mouse	1,000,000 cells/ml	T3025
Bax Knockout Immortalized Kidney Epithelial Cell Line	Mouse	1,000,000 cells/ml	T3024
Bax/Bak Double Knockout Immortalized Mouse Kidney Epithelial Cell Line	Mouse	1,000,000 cells/ml	T3026
Bcl-x Knockout Embryonic Fibroblast Cell Line	Mouse	1,000,000 cells/ml	T6080
Bcl-xL Embryonic Fibroblast (Cytosol) Cell Line	Mouse	1,000,000 cells/ml	T6082
Bcl-xL Embryonic Fibroblast (ER) Cell Line	Mouse	1,000,000 cells/ml	T6084
Bcl-xL Embryonic Fibroblast (Mitochondria) Cell Line	Mouse	1,000,000 cells/ml	T6083
Bcl-xL Embryonic Fibroblast Cell Line	Mouse	1,000,000 cells/ml	T6081
Caveolin-1 Knockout Aortic Endothelial (iMAEC-cav1) Cell Line	Mouse	1,000,000 cells/ml	T3179
Hes1-Expressing Bone Marrow Progenitor Cell Line	Mouse	1,000,000 cells/ml	T6014
Myeloid-derived Suppressor-like LAL Knockout (HD1B) Cell Line	Mouse	1,000,000 cells/ml	T3187
$p47^{phox}$ Knockout Aortic Endothelial (iMAEC-p47) Cell Line	Mouse	1,000,000 cells/ml	T3181
PARP-1 Knockout Immortalized Heart Endothelial (HYKO6) Cell Line	Mouse	1,000,000 cells/ml	T3031
Huntingtin 150Q-Expressing PC12 Cell Line	Rat	1,000,000 cells/ml	T6018
Huntingtin 20Q-Expressing PC12 Cell Line	Rat	1,000,000 cells/ml	T6019
Munc18-1 Knockdown PC12 Cell Line	Rat	1,000,000 cells/ml	T1104
Munc18-1/2 Double Knockdown PC12 Cell Line	Rat	1,000,000 cells/ml	T1105
ABCG2- and ABCB1-Expressing MDCK Cell Line	Canine	1,000,000 cells/ml	T6998
Podoplanin-Expressing CHO Cell Line	Hamster	1,000,000 cells/ml	T3182
PDPN CRISPR Knockout COS-7 Cell Line	Monkey	1,000,000 cells/ml	T6039

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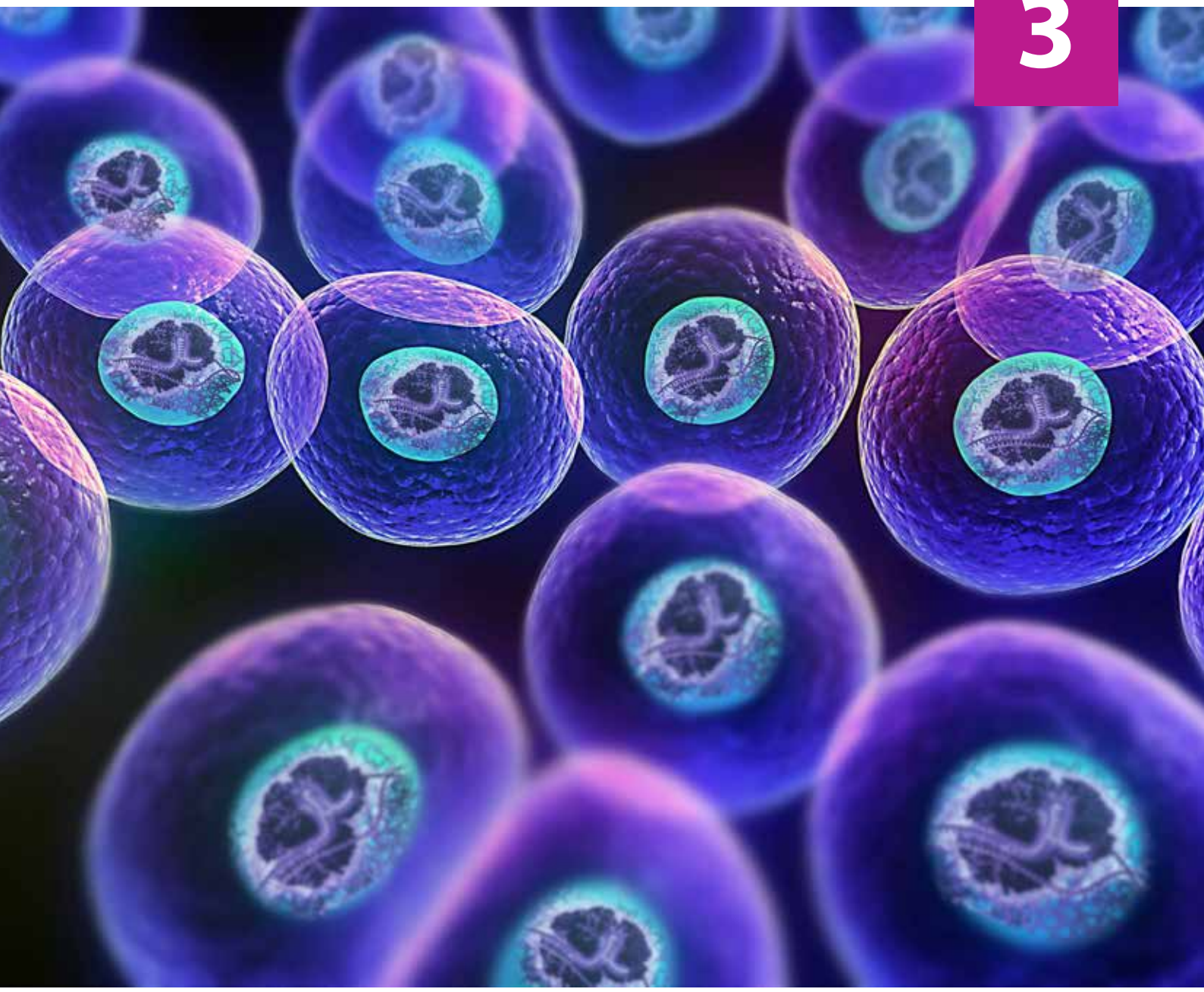
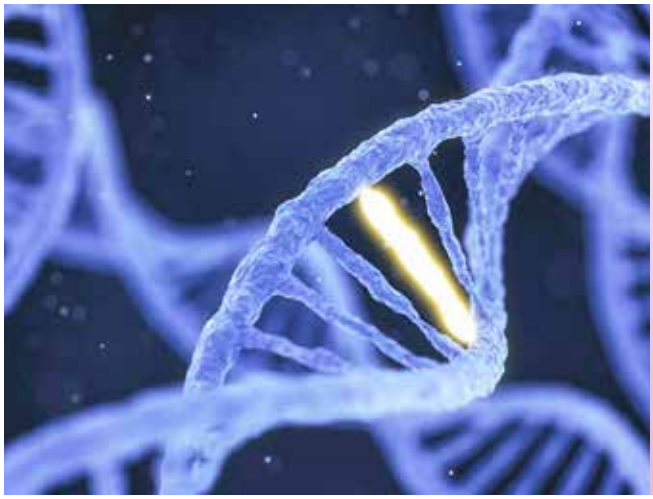


CRISPR Cell Lines

Focus your study on the knockout effect with **abm**'s ready-to-use, validated CRISPR knockout cell lines.

Cas9-Expressing Stable Cell Lines

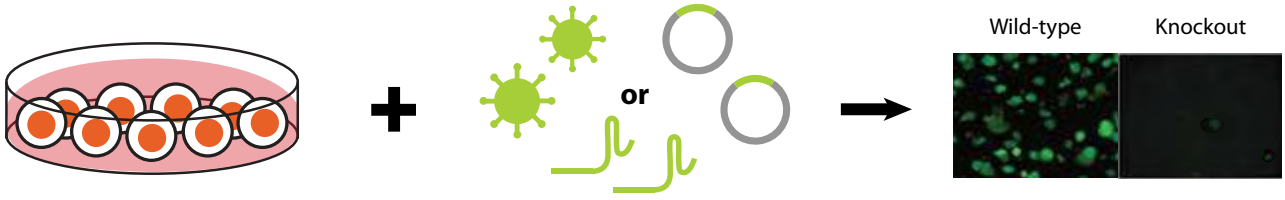


Features

- Available in popular cell line research models
- Cas9-expression pre-validated by western blot analysis
- Simplified workflow—just add sgRNA

Simply add your sgRNA and begin editing!

CRISPR is the most versatile technology for genome editing. As such, **abm** offers a wide variety of Cas9-expressing human, mouse, and rat stable cell lines. These cell lines only require the introduction of sgRNA vector or virus (from our human, mouse or rat Genome-Wide sgRNA Libraries), or transfection of *in vitro* transcribed sgRNA.



1. Cells expressing Cas9

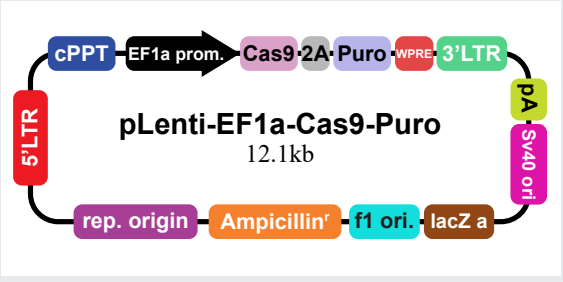
Begin with cells containing an integrated Cas9 gene

2. Deliver sgRNA

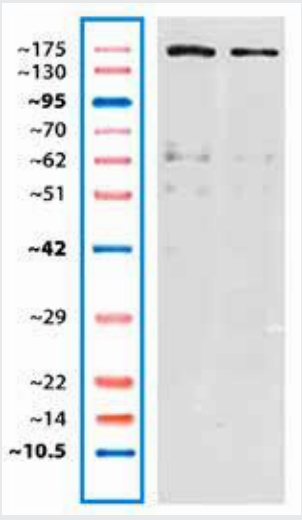
Add sgRNA via viral transduction, or transfection of a vector, or *in vitro* transcribed sgRNA

3. Screen for KO

Screen for Cas9 mediated target gene(s) knockout



Top: Vector map of Cas9 Lentivector used for generation of **abm**'s Cas9 cell lines.



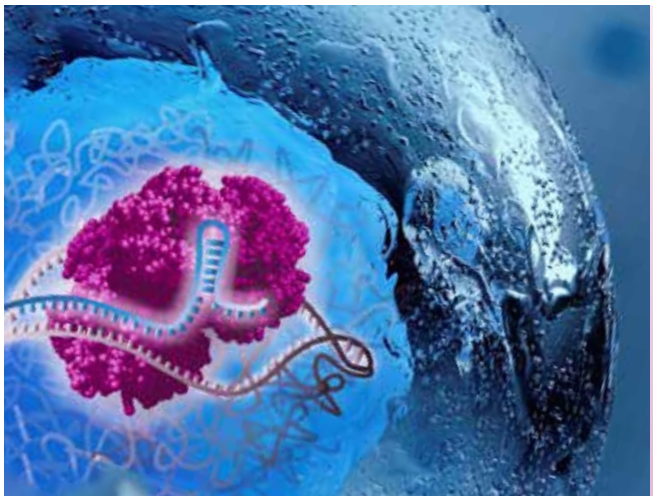
Left: Western blot of Cas9-Expressing A375 Cell Line using Anti-Cas9 Antibody (Cat. No. Y300079). Band appears at 160 kDa.

Cas9-Expressing Stable Cell Lines | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
293 Cell Line	Human	1,000,000 cells/ml	T3252
293T Cell Line	Human	1,000,000 cells/ml	T3251
A375 Cell Line	Human	1,000,000 cells/ml	T3262
A549 Cell Line	Human	1,000,000 cells/ml	T3253
Enhanced Hepatocytes	Human	1,000,000 cells/ml	T3269
HCT116 Cell Line	Human	1,000,000 cells/ml	T3263
HeLa Cell Line	Human	1,000,000 cells/ml	T3254
HepG2 Cell Line	Human	1,000,000 cells/ml	T3256
HL-60 Cell Line	Human	1,000,000 cells/ml	T3264
HT1080 Cell Line	Human	1,000,000 cells/ml	T3260
Immortalized Astrocytes (Fetal) Cell Line	Human	1,000,000 cells/ml	T3452
Immortalized Microglia Cell Line	Human	1,000,000 cells/ml	T3451
Immortalized Skeletal Muscle Cell Line	Human	1,000,000 cells/ml	T3450
Jurkat Cell Line	Human	1,000,000 cells/ml	T3261
Jurkat E6.1 Cell Line	Human	1,000,000 cells/ml	T3273
K562 Cell Line	Human	1,000,000 cells/ml	T3258
L3.6pl Cell Line	Human	1,000,000 cells/ml	T3272
MCF7 Cell Line	Human	1,000,000 cells/ml	T3257
Ovcar3 Cell Line	Human	1,000,000 cells/ml	T3268
PC3-M Cell Line	Human	1,000,000 cells/ml	T3279
RL95-2 Cell line	Human	1,000,000 cells/ml	T3265
SKUT-1 Cell line	Human	1,000,000 cells/ml	T3266
SNU-387 Cell Line	Human	1,000,000 cells/ml	T3267
T24 Cell line	Human	1,000,000 cells/ml	T3270
THP-1 Cell Line	Human	1,000,000 cells/ml	T3274
U-87 MG Cell Line	Human	1,000,000 cells/ml	T3259
NIH3T3 Cell Line	Mouse	1,000,000 cells/ml	T3275
INS1E Cell line	Rat	1,000,000 cells/ml	T3289
RCS Cell Line	Rat	1,000,000 cells/ml	T3290
MDCK Cell Line	Canine	1,000,000 cells/ml	T3299

Browse our full collection of Cas9-Expressing Stable Cell Lines at www.abmGood.com

Genome-Wide CRISPR Knockout Cell Lines

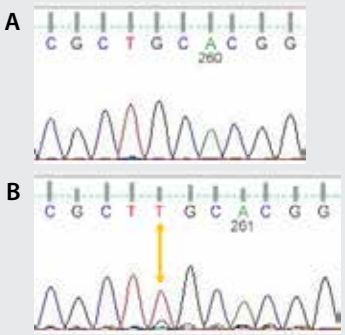


Features

- Ready-to-use knockout cell lines available for every human gene
- All gene knockouts verified by Surveyor assay and tested to be mycoplasma-free
- Convenient for gene function and drug screening studies

Leave the gene editing to us!

The ability to precisely edit and change any part of an organism's genome has long been sought by scientists, and today we are closer to that goal than ever before. With the discovery of the CRISPR Cas9 system, scientists are now able to effortlessly and efficiently knockout or knock-in any gene of interest. Our scientists at **abm** can help you with your research by taking advantage of our genome-wide library to knockout or knock-in your gene of interest in a number of cell lines.

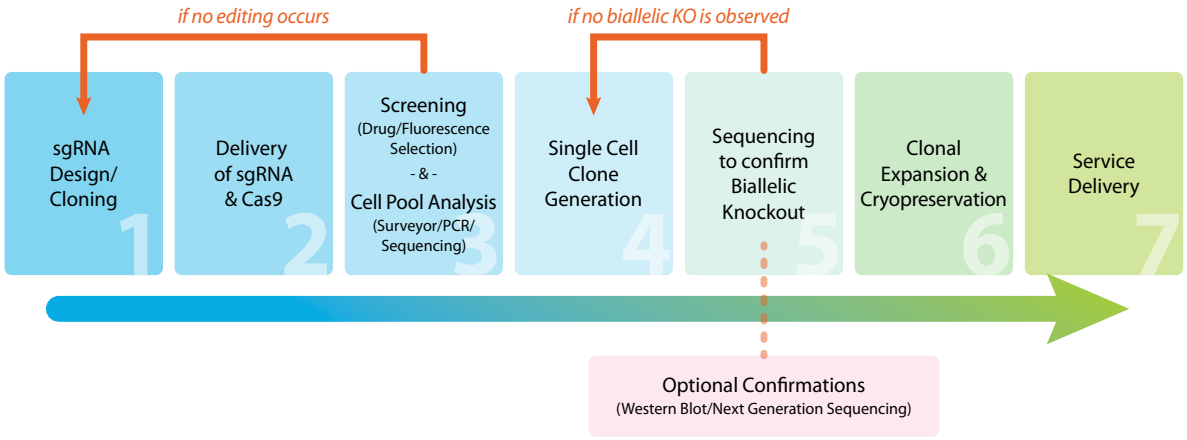


Left: *Sanger sequencing.* (A) shows the wild type sequence, and (B) shows the edited sequence with an inserted thymine.

Right: *Surveyor assay.* In samples 2 & 3, the two bands of the Surveyor assay results indicate generation of cleavage products.

Browse our Genome-Wide Collection of CRISPR Knockout Cell Lines at www.abmGood.com

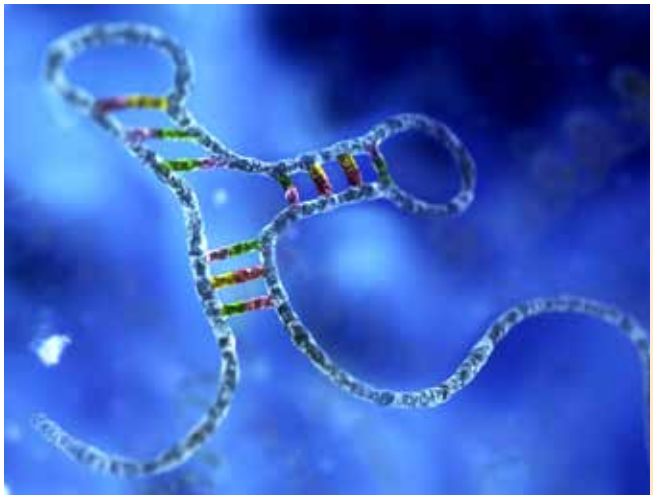
Our Guaranteed Knockout Service Workflow (Cat. No. C508)



3’UTR Cell Lines

Study miRNA regulation of gene expression using **abm**’s unique collection of 3’UTR miRNA reporter cell lines. Choose from human, mouse, or rat 3’UTRs!

3'UTR Cell Lines

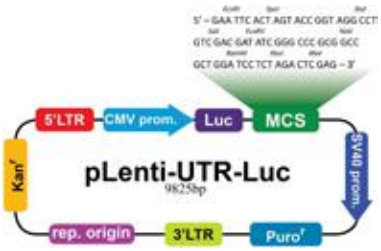


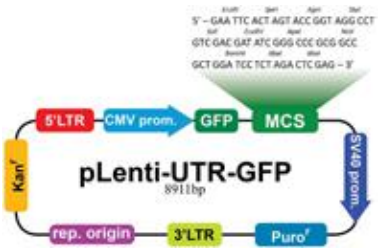
Features

- Validation of miRNA regulation of gene expression
- Study miRNA regulatory effects on your target gene
- Our 3'UTR cell lines are transfection ready, with no additional requirements needed

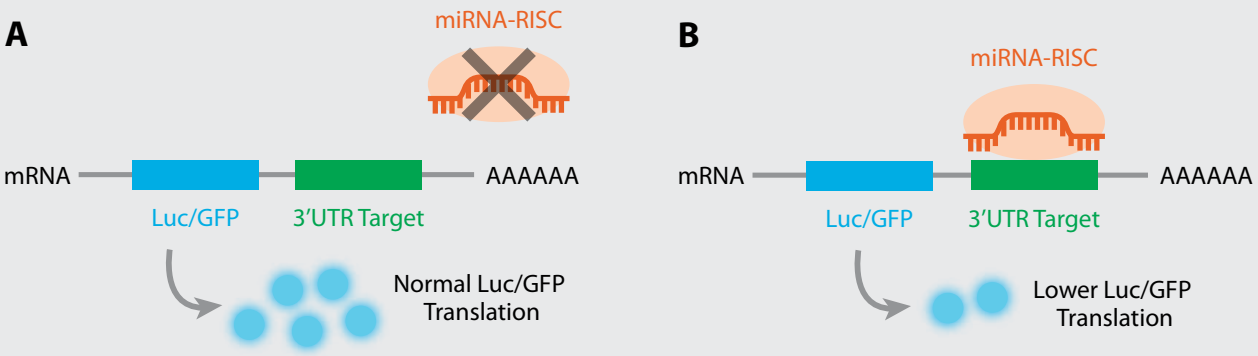
Why use our 3'UTR cell lines?

One of the most reliable, quantitative assays for the suppression of target genes by a specific miRNA is the utilization of a reporter gene, such as luciferase or GFP. The interaction between a specific miRNA and its target 3'UTR region can be evaluated by changes in downstream reporter gene expression (e.g. decrease in Luc/GFP expression). **abm** offers a complete collection of cell lines stably expressing the 3'UTR region of all human genes, with a choice of luciferase or GFP as the reporter gene.





Validate miRNA gene regulation through 3'UTR Target Sites



Top: abm's 3'UTR Reporter Cell Lines express your 3'UTR target with a reporter (e.g. GFP/Luc). (A) Without the presence of miRNA, reporter translation occurs as normal, resulting in bright fluoresence. (B) Addition of miRNA inhibits reporter translation, resulting in lower fluorescence.

Browse our Genome-Wide Collection of 3'UTR Cell Lines at www.abmGood.com

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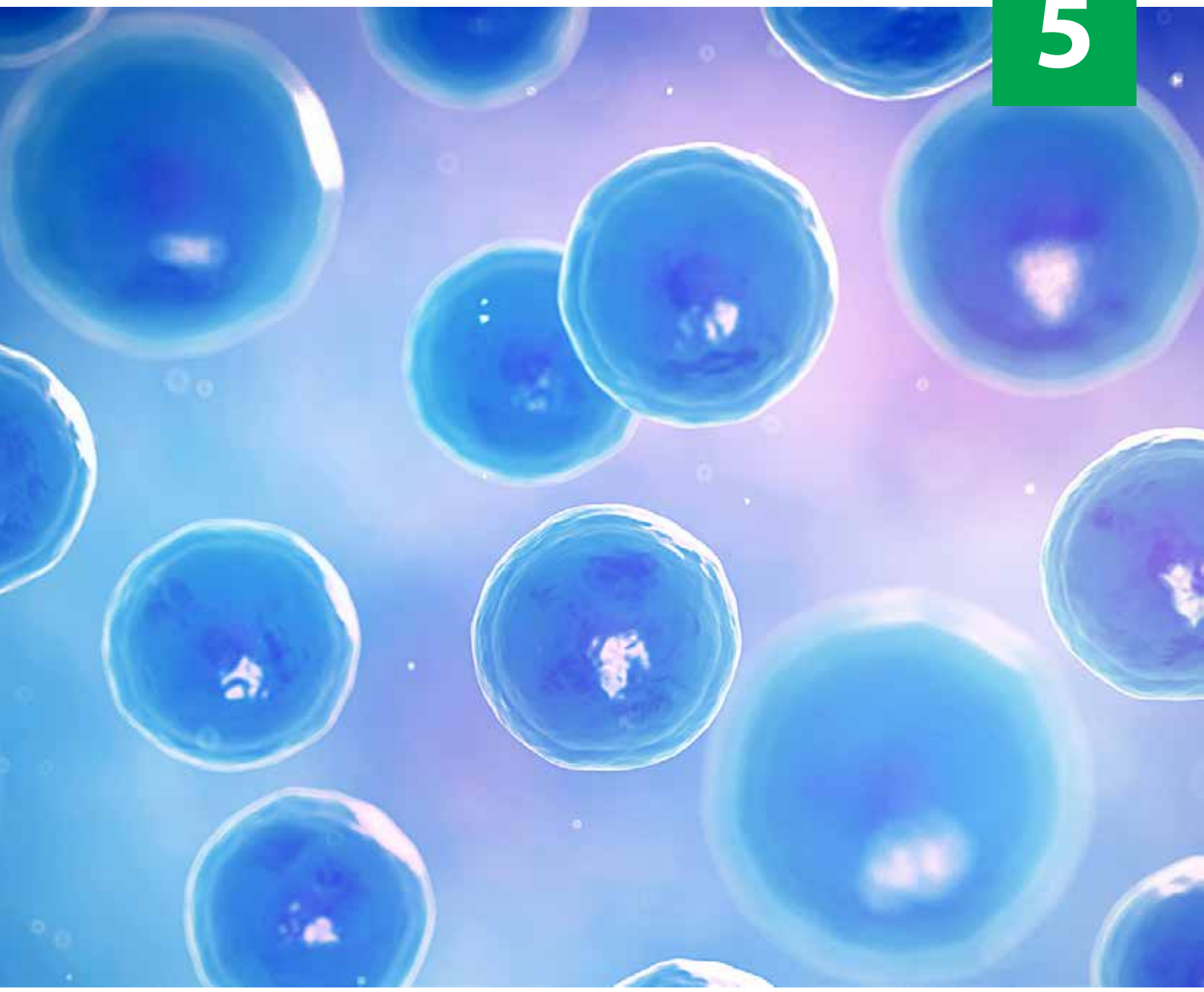
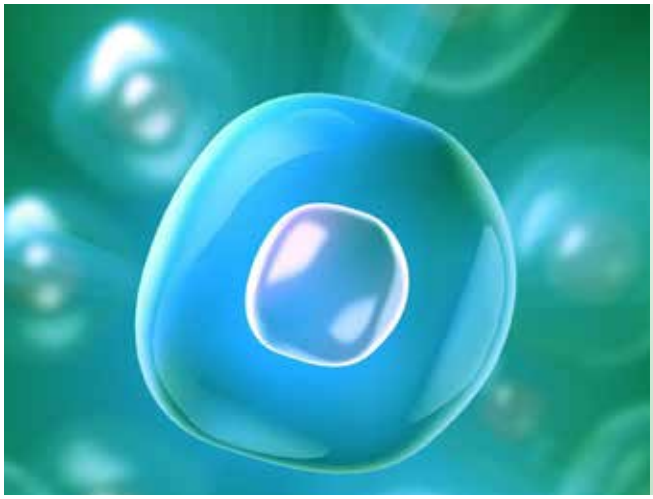


Reporter Cell Lines

Use **abm**'s versatile collection of GFP- and RFP-expressing cell lines for your cancer research today!

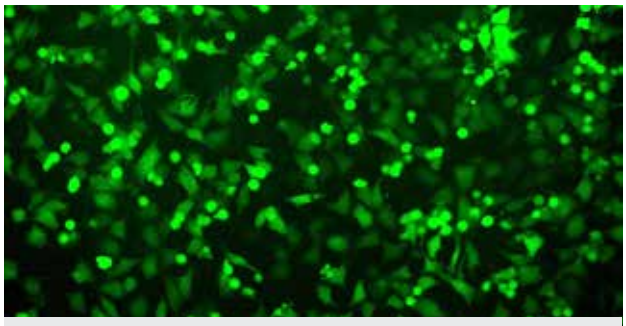
GFP- and RFP-Expressing Cell Lines



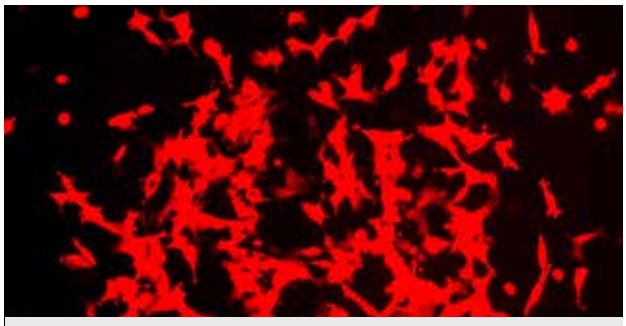
Features

- GFP- or RFP-expressing cell lines available in popular research models
- Applications include *in vivo* visualization, FACS, and drug screening studies
- Can be used *in vitro* for cancer research or *in vivo* for monitoring tumor metastasis

At **abm**, we have a wide collection of GFP- and RFP-expressing stable cell lines for your research needs.



GFP-Expressing HeLa Cell Line (Cat. No. T3903)



RFP-Expressing HEK293 Cell Line (Cat. No. T3700)

GFP-Expressing Cell Lines | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
Astrocytes (Fetal) Cell Line	Human	1,000,000 cells/ml	T3962
HCT116 Cell Line	Human	1,000,000 cells/ml	T3905
HEK293 Cell Line	Human	1,000,000 cells/ml	T3922
HEK293 Cell Line (Safe Harbor Site)	Human	1,000,000 cells/ml	T3600
HeLa Cell Line	Human	1,000,000 cells/ml	T3903
Hepatocytes (Enhanced Primary Cells)	Human	1,000,000 cells/ml	T3911
HL-60 Cell Line	Human	1,000,000 cells/ml	T3906
Jurkat Cell Line	Human	1,000,000 cells/ml	T3920
L3.6pl Cell Line	Human	1,000,000 cells/ml	T3923
MCF7 Cell Line	Human	1,000,000 cells/ml	T3904
Microglia Cell Line	Human	1,000,000 cells/ml	T3961
Ovcar3 Cell Line	Human	1,000,000 cells/ml	T3910

Cell Type	Species	Unit	Cat. No.
PC3-M Cell Line	Human	1,000,000 cells/ml	T3924
REH Cell Line	Human	1,000,000 cells/ml	T3959
RL95-2 Cell Line	Human	1,000,000 cells/ml	T3907
Skeletal Muscle Cell Line	Human	1,000,000 cells/ml	T3960
SKUT-1 Cell Line	Human	1,000,000 cells/ml	T3908
SNU-387 Cell Line	Human	1,000,000 cells/ml	T3909
T24 Cell Line	Human	1,000,000 cells/ml	T3912
NIH3T3 Cell Line	Mouse	1,000,000 cells/ml	T6208
INS1E Cell Line	Rat	1,000,000 cells/ml	T3899
MDCK Cell Line	Canine	1,000,000 cells/ml	T3921
CHO Cell Line	Hamster	1,000,000 cells/ml	T3901

RFP-Expressing Cell Lines | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
Astrocytes (Fetal) Cell Line	Human	1,000,000 cells/ml	T3972
HCT116 Cell Line	Human	1,000,000 cells/ml	T3933
HEK293 Cell Line (Safe Harbor Site)	Human	1,000,000 cells/ml	T3700
Hepatocytes (Enhanced Primary Cells)	Human	1,000,000 cells/ml	T3939
HL-60 Cell Line	Human	1,000,000 cells/ml	T3934
Jurkat Cell Line	Human	1,000,000 cells/ml	T3941
MCF7 Cell Line	Human	1,000,000 cells/ml	T3932
Microglia Cell Line	Human	1,000,000 cells/ml	T3971
Ovcar3 Cell Line	Human	1,000,000 cells/ml	T3938
RL95-2 Cell Line	Human	1,000,000 cells/ml	T3935
Skeletal Muscle Cell Line	Human	1,000,000 cells/ml	T3970
SKUT-1 Cell Line	Human	1,000,000 cells/ml	T3936
SNU-387 Cell Line	Human	1,000,000 cells/ml	T3937
T24 Cell Line	Human	1,000,000 cells/ml	T3940
INS1E Cell Line	Rat	1,000,000 cells/ml	T3930
CHO Cell Line	Hamster	1,000,000 cells/ml	T3931

GFP and RFP Dual-Expressing Cell Lines | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
293 Cell Line	Human	1,000,000 cells/ml	T3252

Luciferase-Expressing Cell Lines

Features

- Luciferase-expressing cell lines available in popular research models
- Applications include drug screening studies
- Can be used *in vitro* for cancer cell line research

Luciferase is commonly used as a reporter to assess the transcriptional activity of a genetic construct with the luciferase gene under the control of the promoter of interest. Our luciferase-expressing cell lines are available in popular research models and can be used for *in vitro* or *in vivo* applications in cancer and drug discovery research.

Luciferase Cell Lines | Available Cell Lines

Cell Type	Species	Unit	Cat. No.
Androgen Receptor-Expressing 22Rv1 (AIZ-AR) Cell Line	Human	1,000,000 cells/ml	T3104
Aryl Glucocorticoid Receptor-Expressing (AZ-GR) HeLa Cell Line	Human	1,000,000 cells/ml	T3103
Aryl Hyrdocarbon Receptor-Expressing (AZ-AHR) HepG2 Cell Line	Human	1,000,000 cells/ml	T3102
CD2 (truncated)-Expressing (tCD-Luc2) HeLa Cell Line	Human	1,000,000 cells/ml	T6023
Gastrin-Releasing Peptide Receptor-Expressing (GRPR) PC3 Cell Line	Human	1,000,000 cells/ml	T3021
PC3 Cell Line	Human	1,000,000 cells/ml	T3006
Pleckstrin Homology Domain of Akt (Luc-Akt-PH) MCF7 Cell Line	Human	1,000,000 cells/ml	T3160
Pleckstrin Homology Domain of Akt with YFP-Mem (Luc-Akt-PH/YFP) MCF7/B2 Cell Line	Human	1,000,000 cells/ml	T3161
Thyroid Receptor-Expressing (PZ-TR) HepG2 Cell Line	Human	1,000,000 cells/ml	T3177
TLR2-Expressing HEK293 Cell Line	Human	1,000,000 cells/ml	T3059
U87MG/ΔEGFR Cell Line	Human	1,000,000 cells/ml	T3009
WM-266-4 Cell Line	Human	1,000,000 cells/ml	T3013
BMP Responsive Immortalized Reporter (BRITER) Cell Line	Mouse	1,000,000 cells/ml	T3105
NF-kB-Expressing RAW264.7 Cell Line	Mouse	1,000,000 cells/ml	T3015
TRAMP Cell Line	Mouse	1,000,000 cells/ml	T3008

Browse our full collection of Reporter Cell Lines at www.abmGood.com

6

Supplements & Reagents

Achieve high-quality, reproducible results with **abm**'s carefully designed cell culture products.

PriGrow Media Series

Features

- Optimized to encourage healthy cultures for many different cell types
- Basal media that is both serum and antibiotic-free for further supplementation
- Each lot is rigorously tested for sterility, pH, osmolality and endotoxin levels

Product	Unit	Cat. No.
PriGrow I Medium	500 ml	TM001
PriGrow II Medium	500 ml	TM002
PriGrow III Medium	500 ml	TM003
PriGrow IV Medium	500 ml	TM004
ExPAND T Cell Culture Medium	500 ml	TM151

Low Serum Media and Supplement Kits

A proprietary formulation of growth factors and supplements developed for the optimal growth of the target cell type.

Product	Unit	Cat. No.
Adipocyte Medium Kit	1 Kit	TM073
Bronchial Epithelial Medium Kit	1 Kit	TM044
Endothelial Medium Kit	1 Kit	TM042
Fibroblast Medium Kit	1 Kit	TM046
Hepatocyte Growth Medium Kit	1 Kit	TM103
Hepatocyte Thawing Medium	50 ml	TM102
Keratinocyte Medium Kit	1 Kit	TM040
Mammary Epithelial Medium Kit	1 Kit	TM043
Melanocyte Medium Kit	1 Kit	TM047
Myocyte Medium Kit	1 Kit	TM072
Preadipocyte Medium Kit	1 Kit	TM048
Skeletal Muscle Medium Kit	1 Kit	TM049
Small Airway Epithelial Medium Kit	1 Kit	TM045
Smooth Muscle Medium Kit	1 Kit	TM041

Mycoplasma Detection Kit

Features

- Directly add cell culture supernatant to PCR reaction (no DNA isolation needed)
- Rapid results in less than 2 hours
- Able to detect >200 mycoplasma species
- Includes ready-to-use primer mix and positive control

Product	Unit	Cat. No.
PCR Mycoplasma Detection Kit	100 reactions	G238

Mycoplasma Elimination Cocktail

Eliminate over 70 different species of mycoplasma with only 4 treatments, and without toxic effects on your cell line.

Product	Unit	Cat. No.
Mycoplasma Elimination Cocktail	2 x 1.0 ml	G398
Mycoplasma Elimination Cocktail - Prediluted	2 x 1.0 ml	G399
	2 x 5.0 ml	G400
PCR Mycoplasma Detection & Elimination Combo Kit	1 Combo Kit	G238-G398

Why test your cells for mycoplasma?

Due to its small size, mycoplasma can be present in your growth media without being visibly detected. This can cause significant errors in your experiments due to its effects on:

- proliferation
- metabolism
- gene synthesis & processing
- adhesion properties
- and more

Many publishers now request mycoplasma testing to be reported along with manuscript submissions to ensure accuracy in data reporting.

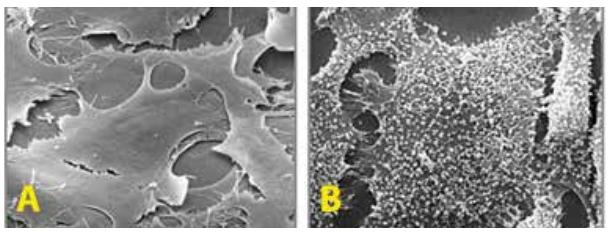


Figure 1: (A) Absence and (B) presence of mycoplasma in 3T3 cultures.

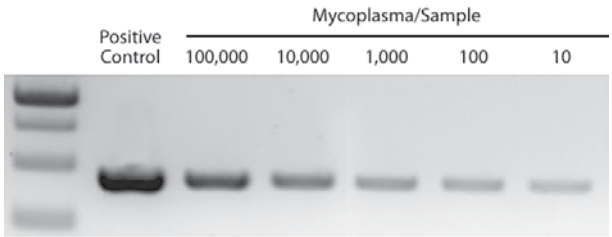


Figure 2: Detection of mycoplasma contamination using **abm**'s PCR Mycoplasma Detection Kit (Cat. No. G238).

Antibiotic Solutions

Product	Unit	Cat. No.
Amphotericin B (Fungizone)	100 ml	G274
Antibiotic/Antimycotic (100X)	100 ml	G273
Geneticin (Antibiotic G418)	10 ml	G271
Gentamicin	10 ml	G272
Penicillin/Streptomycin Solution	100 ml	G255

Cell Attachment and Detachment Factors

Product	Unit	Cat. No.
Applied Cell Extracellular Matrix	25 ml	G422
Fibronectin Coating Solution (1 mg/mL)	1.0 mg	TM059
Gelatin Coating Solution (0.1%)	100 ml	TM063
Poly-L-Lysine Coating Solution (0.1%)	25 ml	TM061
Poly-L-Ornithine Coating Solution (0.1 mg/ml)	50 ml	TM062
Trypsin-EDTA	100 ml	TM051
	500 ml	TM050
Vitronectin Coating Solution (0.5 mg/ml)	0.2 ml	TM060

Cell Culture Supplements

Product	Unit	Cat. No.
Apo-Transferrin	50 mg	TM055
Bovine Serum Albumin Solution (7.5%)	100 ml	TM054
Endothelial Cell Growth Supplement (ECGS) - 500X	1 ml	TM141
Human Holo Transferrin	100 mg	G599
Insulin Solution (10 mg/ml)	1.0 ml	TM053
Insulin-Transferrin-Sodium Selenite Supplement (100X)	10 ml	TM052
L-glutamine	100 ml	G275
Macrophage Culture Supplement/L-cell Supernatant	40 ml	TM142
Recombinant Human Serum Albumin	100 µg	TM038
Sodium Pyruvate Solution (100 mM)	100 ml	TM057

7

Cell Culture Equipment

Choose from **abm**'s range of budget-friendly equipment to reliably protect, preserve, and culture your samples.

PriCoat™ Coated Flask Series

Features

- Coated with a proprietary matrix that optimizes growth for a wide variety of cells
- E-beam sterilized and vacuum plasma TC-treated for enhanced cell attachment
- Available as filter capped T25 and T75 flasks

Product	Unit	Cat. No.
PriCoat™ T25 Flasks	10 Flasks	G299
PriCoat™ T75 Flasks	5 Flasks	G299-T75

Cell Culture Flasks, Plates, and Dishes

Select from our vacuum plasma TC-treated and E-beam sterilized cell culture plastics for optimal cell growth.

Product	Size	Unit	Cat. No.
Multiwell Cell Culture Plates	6 wells	50/case	P0100
	24 wells	50/case	P0110
	48 wells	50/case	P0120
	96 wells	100/case	P0130
Cell Culture Flasks	T25, Vent	200/case	P0200
	T25, Plug Seal	200/case	P0201
	T75, Vent	100/case	P0210
	T175, Vent	40/case	P0220
	T225, Vent	25/case	P0230
Cell Culture Dishes	100 mm	300/case	B905
	150 mm	100/case	B904
Multilayer Cell Culture Bioreactor	10 layers	1 Bioreactor	P0700

Cell Freezing Container

Features

- Ensures even and consistent freezing without the need for alcohol
- No pre-cooling required
- Temperature equilibrates within 5 minutes
- Durable design and easy to open/handle

Product	Size	Unit	Cat. No.
Cell Freezing Container	12 Vial	1 Container	Q5085
	30 Vial	1 Container	Q5086

Cryogenic Liquid Nitrogen Storage Tank

Features

- Lightweight, medium-range storage capacity for small space requirements
- Advanced super-insulated and ultra-high vacuum technology ensures stable storage for up to 4 months
- Low liquid nitrogen consumption

Product	Size	Unit	Cat. No.
Cryogenic Liquid Nitrogen Storage Tank	47 L	1 Unit	Q5135

Custom Services

Looking for more? We've got you covered with our comprehensive suite of custom services for all your project needs:

- Cell Immortalization
- CRISPR Knock-In/ Knockout Cell Line Generation
- Gene Expression Assay Service
- Stable Cell Line Generation
- 100% Guaranteed CRISPR Knockout Cell Line Generation
- Contamination Detection
- Cell Line Authentication
- Cell Line Species Identifcation
- More Custom Services

Contact our Technical Consultants for a free consultation at **custom@abmGood.com**

Protect Your Cells With

Cell Line Insurance

- **Get 100% protection** for your cells with a free replacement vial, no questions asked
- **Flexible plans** with our 4- and 6-month coverage options
- **No loss**—if no replacement is requested during the coverage period, receive your insurance fees back as store credit

Sign up today at:
https://info.abmGood.com/cell-line-insurance

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