



Cells validated with the CytoSMART® Lux2 & Lux3

This is a partial list of cell types that were tested, used and/or published with the CytoSMART® Lux2 or Lux3

Primary cells			
Cell type	Species	Organ	Type
Neutrophils	Human	Blood	
Lung adenocarcinoma	Human	Lung	Biopsy
Gastric adenocarcinoma	Human	Colon	Biopsy
Breast carcinoma	Human	Breast	Biopsy
Lymph node carcinoma	Human	Lymph node	Biopsy
Endometrial carcinoma	Human	Cervix	Biopsy
BOECs	Human	Blood	Endothelial cells
Melanoma	Human	Blood	
Primary human nasal epithelial cells	Human	Nasal	Epithelial
Human primary myoblasts	Human	Skeletal muscle	Biopsy
Primary fibroblasts	Human	Lung	Normal Asthmatic Cystic Fibrosis COPD
Colon cancer stem cells	Human	Colon	Biopsy
NHBE cells	Human	Lung	Epithelial, normal donor
DHBE-AS cells	Human	Lung	Epithelial, asthmatic donor
BSMC cells	Human	Lung	Bronchial smooth muscle cells, normal donor
DBSMC cells	Human	Lung	Bronchial smooth muscle cells, asthmatic donor
Primary neural cell culture	Sprague Dawley Rat	Brain	



Cell lines

Cell type	Species	Organ	Type
HeLa	Human	Cervix	
HEK293	Human	Kidney	Embryonic
PANC-1	Human	Pancreas	
SW48	Human	Colon	
MM418-C1	Human		Melanoma
CCD841	Human	Colon	
HEM	Human	Skin	
U87 GBM	Human	Brain	
SKOV-3	Human	Ovarian	
MDA-MB-231	Human	Breast	
Huh7	Human	Liver	
KRT19	Human	Breast	Keratin 19 knock-out
Hep3B	Human	Liver	
HUVEC	Human	Umbilical vein	Endothelial
hMSCs	Human	Mesenchymal stem cells	
DU145	Human	Prostate	
A549	Human	Lung	
HK-2	Human	Kidney	
H9	Human	Stem cells	Embryonic
BJFF	Human	iPSCs	
NhGEC	Human	Kidney/Glomerular	Endothelial
IMR90	Human	iPSCs	
HaCaT	Human	Skin	
CSC	Human	Stem cells	Cancer
HCT116	Human	Colon	



Cell lines

Cell type	Species	Organ	Type
BC	Human	Bladder	
SV-HUC-1	Human	Bladder	Epithelial
HFF-1	Human	Foreskin	Fibroblast
NK92	Human	Blood	Natural killer cells
5637	Human	Prostate	
T-24	Human	Bladder	
22Rv1	Human	Prostate	
MG-63	Human	Bone	
PTEC	Human	Kidney	Epithelial
HNDF	Human	Skin	Fibroblast
LoVo	Human	Colon	
HDF	Human		Fibroblast
HepG2	Human	Liver	
Vero E6	Monkey	Kidney	Epithelial
C2C12	Murine	Skeletal myoblasts	
CT26	Murine	Colon	
MC38	Murine	Colon	
3T3-NIH	Murine	Embryo	Fibroblast
CHO-K1	Murine	Ovary	Epithelial
WIF-B	Rat	Liver	
Clone 9	Rat	Liver	
C6	Rat	Brain	Glial tumor

3D Cultures

Cell type	Species	Organ	3D culture type
H9 cells BJFF cells NhGEC cells HUVECs	Human	Embryonic stem cells iPSCs Glomerular endothelial cells Umbilical vein endothelial cells	Kidney organoid



3D Cultures			
Cell type	Species	Organ	3D culture type
VCaP (bone metastatic cells) hpMSC 19 (human prostate derived MSCs)	Human	Bone metastatic cell line Mesenchymal stem cells	Trabecular bone with metastatic cancer cells
U87 cells	Human	Brain glioblastoma	Spheroid
Biopsy	Murine	Intestines	Mouse fetal intestinal organoids
Cumulus-oocyte complexes	Pig	Ovaria	Oocyte surrounded by specialized granulosa cells
HDF (human dermal fibroblasts) NHEK (normal human epidermal keratinocytes)	Human	Skin	3D ring co-culture

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