

Please find below a selection of our libraries that can be used for all ULTimate screens, to discover the partners of a protein, a DNA sequence, a short RNA or a small molecule of interest.

With over 120 libraries from more than 45 species, we are proud to have the most complex libraries and the largest collection available for screening. We value your feedback for potential new libraries that will meet the needs of the research community. Please let us know what you think by mail or twitter with #HGXlibraries.

## Homo sapiens

### Cell lines

- B cell lymphoma (mix of SUDHL-4, SUDHL-6, RCK8) **ref: [BCLY]**
- Bone marrow endothelial cells (HBMEC) **ref: [HBMEC]**
- Breast tumor epithelial cells (mix of T47D, MDA-MB-468, MCF7, BT20) **ref: [HBEC]**
- Brown adipocytes (differentiated PAZ6) **ref: [PZD]**
- Colon tumor epithelial cells (mix of Caco2, HCA7, Colo205, SW480) **ref: [HCCA]**
- Colorectal carcinoma cells (HCT116) **ref: [HCT116TO]**
- Ewing's sarcoma cells **ref: [HSEG]**
- HeLa cells **ref: [HeLa]**
- Lung tumor cells (mix of A549, H1703, H460) **ref: [HLUC]**
- Podocytes **ref: [HPO]**
- Pre-adipocytes (undifferentiated PAZ6) **ref: [PZU]**
- Prostate tumor cells (mix of PC3, DU145, PNT1A, LNCaP) **ref: [HPRC]**
- T-cells (CEMC7) **ref: [CEMC7]**
- Umbilical vein endothelial Cells (HUVEC) **ref: [HUVEC]**
- Umbilical vein endothelial Cells, stressed & unstressed (HUVEC) **ref: [HSCUV]**

### Primary Cells

- Fibroblasts **ref: [HF]**
- Hepatocytes **ref: [PHH]**
- Leukocytes + activated mononuclear cells **ref: [HLMA]**
- Macrophages (mix of Pam3CSK4 induced and IFN $\beta$  induced) **ref: [HMIN]**
- Macrophages (non induced) **ref: [MAC]**
- Melanocytes **ref: [HML]**
- Thymocytes (mix of CD4+ and CD8+) **ref: [HTH]**

### Tissues

- Brain adult **ref: [HBR]**
- Brain fetal (entorhinal cortex and hippocampus) **ref: [HFHIT]**
- Brain fetal **ref: [HFBR]**
- Breast **ref: [HBT]**
- Colon **ref: [HCN]**

- Heart adult/fetal **ref: [HVEH]**
- Langerhans islets **ref: [HISL]**
- Liver **ref: [HLV]**
- Lung **ref: [HNL]**
- Muscle skeletal adult/fetal **ref: [HMAF]**
- Pancreas **ref: [HPS]**
- Placenta **ref: [PLA]**
- Reconstituted skin (EpiSkin) **ref: [EpiSkin]**
- Retina **ref: [HRET]**
- Testis **ref: [HTestis]**

## Plants

### ***Arabidopsis thaliana***

- Flower **ref: [ATFO]**
- Meiotic bud **ref: [ATMB]**
- Mixed leaves, TYMV infected, flg22 infiltrated **ref: [AIFT]**
- Organ boundary cells of inflorescence **ref: [ATOBC]**
- Rosette leaf, *P. syringae* infected **ref: [AIPS]**
- Seedling (one-week old) **ref: [ATH]**

### **Barley (*Hordeum vulgare*)**

- 7-day old seedling leaf, *Blumeria graminis f. sp. Hordei* infected **ref: [HVMI]**

### ***Brachypodium distachyon***

- Root and shoot **ref: [BMDN]**

### **Corn (*Zea mays*)**

- Endosperm **ref: [ZMEN]**
- Immature ear and tassel inflorescence primordia, vegetative apices **ref: [MAET]**
- Kernel **ref:[ZEMAK]**
- Leaf and ovary **ref: [MALO]**

### **Grape (*Vitis riparia*)**

- Leaf **ref:[VIRIF]**

### ***Kalanchoe laxiflora***

- Leaf **ref: [KALAX]**

### ***Medicago truncatula***

- Root **ref:[METRO]**
- Root, *A. euteiches* infected **ref: [MOTA]**
- Whole plant and root, *A. euteiches* infected **ref: [MTA17]**

### **Melon (*Cucumis melo*)**

- Meristem **ref: [CUMM]**

### **Morning glory (*Ipomoea nil*)**

- Petal **ref: [IPON]**

### ***Nicotiana benthamiana***

- Mixed tissues ref: [NIB]

### **Orange (*Citrus sinensis*)**

- Plant, Las infected ref: [CSIL]

### ***Physcomitrella patens***

- Protonema and gametophores ref: [PHPA]

### **Rapeseed (*Brassica napus*)**

- Leaf, *Leptosphaeria maculans* infected ref:[BNLI]

### **Rice (*Oryza sativa*)**

- Leaf and root ref: [RLR]

### **Soybean (*Glycine max*)**

- Leaf and root, water stressed ref: [GMLR]
- Leaf, shoot, root, *B. japonicum* inoculated ref: [SSRL]

### **Tobacco (*Nicotiana tabacum*)**

- Leaf ref: [NITA]

### **Tomato (*Solanum lycopersicum*)**

- Fruit ref: [TOFT]
- Leaf, petiole, stem and root, TYLCV infected ref: [TOPLI]
- Leaf, stem and petiole ref: [TOLE]
- Meristem, leaf primordia and stem, floral bud ref: [TOM]
- Ovary ref: [TOV]
- Root, *R. solanacaerarum* and *M. incognita* infected ref: [TORI]

### **Wheat (*Triticum aestivum*)**

- Head, leaf and root ref: [WHLR]
- Leaf, *Zymoseptoria tritici* inoculated ref: [WLIZT]
- Leaf, peduncle and grain ref: [TALPG]

## Rodents

### Mouse (*Mus musculus*)

- Brain adult ref: [AMB]
- Brain embryo (mix of E10.5 and E12.5) ref: [MBE]
- Brain embryo (mix of E14, E16 and E18) ref: [MB6E]
- Embryonic stem cells (treated with CHIR and bFGF) ref: [MSCT]
- Embryonic stem cells ref: [MESC]
- Inner Ear E16.5 ref: [MOINE]
- Inner Ear ref: [MIE]
- Kidney adult ref: [MKI]
- Kidney embryo ref: [MOKE]
- Neurosphere adult ref: [MANE]
- Ovary ref: [MMO]
- Pancreatic beta-cells ref: [MPC]
- Spleen ref: [MSPL]
- Testis ref: [MUST]

### Rat (*Rattus norvegicus*)

- Hippocampus ref: [RHC]
- Rear brain ref: [RBP]

## Insects

### *Drosophila melanogaster*

- Adult head ref: [DMT]
- Embryo (0-12h and 12-24h) ref: [DME]
- Larvae brain ref: [DMLB]
- Ovary ref: [DMOV]
- Testis ref: [DMTES]
- Third instar larvae ref: [DLTS]

### Tiger mosquito (*Aedes albopictus*)

- Larvae cells ref: [AALC]

## Other model organisms

### *Caenorhabditis elegans*

- Embryo ref: [CEE]
- Mixed stages ref: [CEMS]

### *Dictyostelium discoideum*

- Vegetative, aggregative & slug stages ref: [DD]

### *Gallus gallus*

- Lung ref:[GALU]

### *Xenopus laevis*

- Embryo ref: [XLE]

## Parasites

### *Toxoplasma gondii*

- Strain wild-type RH ref: [TGRH]

### *Trypanosoma brucei* (genomic library)

- Strain TREU927 ref: [TB]

## Bacteria (Genomic)

### *Caulobacter crescentus*

- Strain NA 1000 ref: [CACR]

### *Enterococcus faecalis*

- Strain V583 ref: [ENFA]

### *Escherichia coli*

- Strain K-12 MG1655 ref: [EC]

### *Helicobacter pylori*

- Strain 26695 ref: [HP]

### *Mycobacterium tuberculosis*

- Strain H37Rv ref: [MYT]

### *Pseudomonas aeruginosa*

- Strain PAO1 ref: [PSAE]

### *Staphylococcus aureus*

- Strain COL ref: [Sa]

### *Streptococcus pneumoniae*

- Strain G1 type 4 ref: [Sp]

### *Streptococcus pyogenes*

- Strain M5 Manfredo ref: [SCPY]
- Strain SF370 ref: [SP370]

## Fishes

### **Medaka (*Oryzias latipes*)**

➤ Embryo ref: [OLE]

### **Rainbow trout (*Oncorhynchus mykiss*)**

➤ Embryonic male gonads ref: [ONMY]

### **Zebrafish (*Danio rerio*)**

➤ Embryo ref: [ZFE]

## Yeasts

### ***Candida albicans* (genomic library)**

➤ Strain SC5314 ref: [CANA]

### ***Saccharomyces cerevisiae* (genomic library)**

➤ Strain YM955 ref: [SaC]

### ***Schizosaccharomyces pombe* (cDNA library)**

➤ ref: [SAPO]

## Green algae

### ***Chlamydomonas reinhardtii***

➤ Strain CC-124 ref: [CHRE]