

## Domain libraries for ULTimate screens

### Homo sapiens

#### Tissues

- › Brain adult
- › Brain fetal
- › Breast
- › Colon
- › Heart adult/fetal
- › Langerhans islets
- › Liver
- › Lung
- › Muscle skeletal adult/fetal
- › Pancreas
- › Placenta
- › Reconstituted skin (Episkin)
- › Retina
- › Testis

#### Primary cells

- › Fibroblasts
- › Leukocytes + activated mononuclear cells
- › Macrophages (non induced)
- › Macrophages (Pam3CSK4 induced and IFN $\beta$  induced)
- › Melanocytes
- › Thymocytes (CD4+ and CD8+)

#### Cell lines

- › B cell lymphoma (SUDHL-4, SUDHL-6, RCK8)
- › Bone marrow endothelial cells (HBMEC)
- › Breast tumor epithelial cells (T47D, MDA-MB-468, MCF7, BT20)
- › Brown adipocytes (differentiated PAZ6)
- › Colon tumor epithelial cells (Caco2, HCA7, Colo205, SW480)
- › HeLa cells
- › Lung tumor cells (A549, H1703, H460)
- › Pre-adipocytes (undifferentiated PAZ6)
- › Prostate tumor cells (PC3, DU145, PNT1A, LNCaP)
- › T-cells (CEMC7)

### Green algae

- › *Chlamydomonas reinhardtii*

### Insects

- › *Drosophila melanogaster*
  - Adult head
  - Embryo
  - Larvae brain
  - Ovary
  - Testis
  - Third instar larvae
- › Tiger mosquito (*Aedes albopictus*)

### Rodents

- › Mouse (*Mus musculus*)
  - Brain adult
  - Brain embryo (E10.5 and E12.5)
  - Brain embryo (E14, E16 and E18)
  - Embryonic stem cells
  - Inner Ear
  - Kidney
  - Kidney Embryo
  - Neurosphere adult
  - Ovary
  - Pancreatic beta-cells
  - Spleen
- › Rat (*Rattus norvegicus*)
  - Hippocampus
  - Rear brain

### Plants

- › *Arabidopsis thaliana*
  - Seedlings (one-week old)
  - Flowers
- › Corn (*Zea mays*)
  - Leaves and ovaries
  - Endosperm
- › *Kalanchoe laxiflora* leaves
- › *Nicotiana benthamiana* mixed tissues
- › Rice leaves and roots (*Oryza sativa*)
- › Soybean (*Glycine max*)
  - Leaves and roots, water stressed
  - Leaves, shoots, roots, *B. japonicum* infected
- › Tobacco leaves (*Nicotiana tabacum*)
- › Tomato (*Solanum lycopersicum*)
  - Fruits
  - Meristems, leaf primordia and stems, floral buds
  - Infected roots
- › Wheat (*Triticum aestivum*)
  - Heads, leaves and roots
  - Leaf, peduncle and grain

### Yeasts

- › *Saccharomyces cerevisiae* (genomic library)
- › *Schizosaccharomyces pombe* (cDNA library)

### Fishes

- › Medaka embryo (*Oryzias latipes*)
- › Rainbow trout, embryonic male gonads (*Oncorhynchus mykiss*)
- › Zebrafish embryo (*Danio rerio*)

80+ libraries available as of August 10th, 2015

Interested in another specific library? Ask us, we can construct it for you!

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## Domain libraries for ULTimate screens

### Other model organisms

- *Caenorhabditis elegans*
  - Mixed stages
  - Embryo
- *Dictyostelium discoideum* vegetative, aggregative & slug stages
- *Xenopus* embryo (*Xenopus laevis*)

### Structurally constrained peptides

- Cysteine-rich
- Proline-rich

### Bacteria (genomic)

- *Escherichia coli*
- *Helicobacter pylori*
- *Mycobacterium tuberculosis*
- *Staphylococcus aureus*
- *Streptococcus pneumoniae*
- *Streptococcus pyogenes*
  - M5 Manfredo
  - SF370

### Parasites

- *Trypanosoma brucei* (genomic library)

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35 MBmate libraries available to screen in the split-ubiquitin system as of July 29<sup>th</sup>, 2014  
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