miRCURY LNA™ Detection Probes for *In Situ* Hybridization

**Selected publications — cryosections**


Source: Frozen mouse uterine sections

Targets: miR-101a, miR-199a*


Source: Mouse main olfactory epithelium (MOE) tissue sections / Whole mount zebrafish

Targets: miR-34b, c, miR-96, miR-125b, miR-139, miR-140*, miR-141, miR-182, miR-183, miR-191, miR-199a, a*, miR-199b, miR-200a, b, miR-205, miR-429, miR-449 / miR-200 family members


Source: Frozen tissue sections from adult mouse brain

Targets: miR-200b


Source: Human (adult and fetal) pancreatic tissue sections.

Targets: miR-7, sense miR-159 (control)


Source: Rat brain sections

Targets: miR-137, miR-145


Source: Frozen sections from normal rat heart

Targets: miR-133


Source: Frozen human bladder tissue sections

Targets: miR-21, miR-145, miR-129


Source: Frozen liver sections from African green monkeys

Targets: miR-122
Source: Mouse and zebrafish inner ear
Targets: Mouse: miR-15a, miR-18a, miR-30b, miR-99a, miR-199a, zebrafish: miR-15a, miR-18a

Source: Frozen mouse brain sections
Targets: miR-29a, b-1

Huse et al. The PTEN-regulating microRNA miR-26a is amplified in high-grade glioma and facilitates gliomagenesis in vivo. Genes Dev. 2009, 23: 1327-37. PMID: 19487573
Source: Frozen mouse brain sections
Targets: miR-26a

Source: Frozen sections of human testis
Targets: miR-383

Source: Frozen rat vessel (carotid arteries) sections
Targets: miR-221, miR-222

Source: Mouse tissue sections

Source: Human skin sections (tissue microarray slides)
Targets: miR-182

Source: Frozen mouse brain sections
Targets: miR-9, miR-138, miR-218

Source: Animal tissue cryosections, human tumor biopsies

Source: Mouse testis
Targets: miR-883-3p, miR-833-5p, miR-718
Source: Whole mount mouse embryos. Sections of third ventricles, cortex, striatum and midbrain, anterior spinal cord and dorsal root ganglia, jaw primordia and tongue, left ventricle, lung and pleural cavity, liver, stomach, and hind limb
Targets: miR-1, miR-124, miR-125, miR-128, miR-140, let-7

Source: Mouse (K14-miR-203) skin sections
Targets: miR-203

Selected publications — cells
Source: Cryopreserved human bone marrow cells
Targets: miR-127, miR-154

Fiore et al. Mef2-mediated transcription of the miR379-410 cluster regulates activity-dependent dendritogenesis by fine-tuning Pumilio2 protein levels. EMBO J. 2009, 28: 697-710. PMID: 19197241
Source: Rat brain (hippocampal neuron) cells
Targets: miR-134

Source: Fixed P19 (mouse embryonic carcinoma) cells.
Targets: miR-219

Source: 293T cells
Targets: miR-18a, HIV-1 nef RNA

Source: FFPE tissues and cells

Source: L6 rat myogenic cells
Targets: let-7a, miR-206, pre-miR-206

Source: p19 EC (embryonic carcinoma) cells
Targets: let-7a, pre-let-7a
Source: Rat hippocampal neuron cells
Targets: miR-134

Source: Human prostatic cell lines: Cds1, LNCaP, pRNS-1-1-ARWT / Human FFPE CaP tissue
Targets: miR-125b

Source: Human embryonic stem [hESC] cells
Targets: miR-145

Selected publications — whole mount
Source: Whole mount chicken, mouse, medaka, zebrafish
Targets: miR-1, miR-125b (all org.); let-7a, miR-107, miR-146, miR-199a (chick. & med.); miR-145, miR-205, miR-454a (zeb. & med.); miR-7, miR-34a, miR-140, miR-200b, miR-206 (med.)

Source: Whole mount chicken embryos
Targets: let-7a, b, k, miR-1, b, miR-9, b, miR-10b, miR-15a, miR-17-5p, miR-18b, miR-19a, miR-20a, b, miR-21, miR-30a, e, miR-34a, miR-106, miR-124a, b, miR-125b, miR-126, miR-128, miR-130b, miR-133a, miR-135, miR-140, miR-144, miR-153, miR-183, miR-184, miR-187, miR-199a, miR-200b, miR-204, miR-205a, b, miR-206, miR-218, miR-219, miR-222b, miR-307, miR-363, miR-367, miR-375, miR-449

Daubas et al. The regulatory mechanisms that underlie inappropriate transcription of the myogenic determination gene Myf5 in the central nervous system. Dev. Biol. 2009, 327: 71-82. PMID: 18593903
Source: Mouse embryos
Targets: miR-31

Source: Whole mount zebrafish
Targets: miR-451

Source: Whole mount and frozen sections of zebrafish embryos
Targets: miR-140
Source: Whole mount zebrafish embryos
Targets: miR-200b

Source: Whole mount zebrafish
Targets: miR-144

Kapsimali et al. MicroRNAs show a wide diversity of expression profiles in the developing and mature central nervous system. Genome Biol. 2007, 8: R173. PMID: 17711588
Source: Larval and adult zebrafish brain and retinal sections
Targets: let-7b, miR-9, miR-34, miR-92b, miR-96, miR-124, miR-125b, miR-132, miR-137, miR-138, miR-153a, miR-181a, b, miR-182, miR-183, miR-218a, miR-219, miR-222, miR-454a

Source: Whole mount zebrafish embryos and sections
Targets: miR-34c-5p, miR-92b, miR-135, miR-429, miR-451, miR-454a, miR-455, miR-459, miR-499, miR-733, miR-795-3p


Source: Zebrafish embryos
Targets: miR-125b (double DIG labeled probes)

Source: Whole mount mouse embryos
Targets: miR-199a-5p, miR-199a-3p, miR-214

Source: Whole mount zebrafish embryos and sections
Targets: miR-9

Source: Whole mount zebrafish embryos
Targets: miR-138

Source: Whole mount zebrafish embryos and adult tissues
Targets: miR-144, miR-451, miR-206
Source: Whole mount *Xenopus* embryo
Targets: miR-196a

Redshaw et al. microRNA-449 is a putative regulator of choroid plexus development and function. Brain Res. 2009, 1250: 20-6. PMID: 19056356
Source: Whole mount and mouse embryo sections
Targets: miR-449 (double DIG labeled probes)

Source: Whole-mount *Xenopus* embryos
Target: miR-427

Source: Mouse heart FFPE sections
Targets: miR-21

Source: Whole mount zebrafish embryos
Targets: mir-124, mir-206

Source: Whole mount mouse embryos
Targets: miR-124, miR-183

Source: Whole mount chicken, mouse and *Xenopus* embryos
Targets: miR-124, miR-206

Sweetman et al. Specific requirements of MRFs for the expression of muscle specific microRNAs, miR-1, miR-206 and miR-133. Dev. Biol. 2008, 321: 491-9. PMID: 18619954
Source: Whole mount chicken embryos
Targets: miR-1, miR-133, miR-206 (double DIG labeled probes)

Source: Whole mount zebrafish
Targets: miR-7, miR-30c, miR-122, miR-124a, miR-126, miR-140, miR-200a, miR-206, miR-217
**Woltering & Durston.** MiR-10 represses HoxB1a and HoxB3a in zebrafish. PLoS ONE 2008, 3: e1396. PMID: 18167555
Source: Whole mount zebrafish embryos
Targets: miR-10a, b, c, d

Source: Whole mount mouse embryos. Sections of third ventricles, cortex, striatum and midbrain, anterior spinal cord and dorsal root ganglia, jaw primordia and tongue, left ventricle, lung and pleural cavity, liver, stomach, and hind limb
Targets: miR-1, miR-124, miR-125, miR-128, miR-140, let-7

**Selected publications — FFPE**

Source: Human gastric mucous glands
Targets: miR-451

**Foshay & Gallicano.** miR-17 family miRNAs are expressed during early mammalian development and regulate stem cell differentiation. Dev. Biol. 2009, 326: 431-43. PMID: 19073166
Source: Paraformaldehyde fixed mouse blastocysts. Immunostaining.
Targets: miR-17-5p, miR-20a, miR-93 and miR-106

Source: Human esophageal tissue
Targets: miR-21

**Kong et al.** MicroRNA-155 is regulated by the transforming growth factor beta/Smad pathway and contributes to epithelial cell plasticity by targeting RhoA. Mol. Cell Biol. 2008, 28: 6773-84. PMID: 18794355
Source: FFPE human breast tissue sections
Targets: miR-155

Source: Mouse FFPE lung sections.
Targets: miR-21, miR-34c, miR-145

Source: FFPE human colon tissue sections
Targets: miR-17-5p

Source: FFPE human lymph node tissue
Targets: miR-21, miR-134, miR-138, miR-155

Source: FFPE human brain tissue
Targets: miR-9, miR-122a, miR-124a, miR-125b
Source: FFPE tissues and cells

Source: FFPE samples

Source: Formaldehyde and EDC-fixed tissues

Robertus *et al.* Specific expression of miR-17-5p and miR-127 in testicular and central nervous system diffuse large B-cell lymphoma. Mod. Pathol. 2009, 22: 547-55. PMID: 19287466
Source: Human B-cell lymphoma
Targets: miR-17-5p, miR-127-3p

Source: FFPE human breast tissue
Targets: let-7-a, miR-21, miR-141, miR-145, miR-205, miR-214

Source: Human prostatic cell lines: Cds1, LNCaP, pRNS-1-1-ARWT / Human FFPE CaP tissue
Targets: miR-125b

Source: human colorectal tissue
Targets: miR-21

Source: FFPE human ovarian tissue sections
Targets: miR-214

Source: FFPE human breast tissue sections
Targets: miR-221, miR-222

Source: FFPE human retinal tissue sections
Targets: miR-9, miR-21, miR-124a, miR-125b, miR-26a, miR-320
Selected publications — plants

Source: Arabidopsis
Targets: miR-390, tasiR-ARFs (trans-acting siRNA)

Source: Whole mounts of leaves from Arabidopsis and Brassica rapa
Targets: miR-824, miR-824*

Source: Tissue sections from maize shoot apices
Targets: miR-166, miR-390

Source: Tissue sections of Arabidopsis inflorescences
Targets: miR-164

Válokzi et al. Spatio-temporal accumulation of microRNAs is highly coordinated in developing plant tissues. Plant J. 2006, 47: 140-51. PMID: 16824182
Source: FFPE Nicotiana benthamiana and Arabidopsis thaliana sections
Targets: miR-156a, miR-159a, miR-160, miR-164a, miR-167a, miR-171a, miR-319a

Source: Arabidopsis thaliana leaf sections
Targets: miR-156