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**Figure 1**

**a**

![Diagram of Inc-pri-miR-122](image)

**b**

**Northern blot**

- Unspliced pri-miR-122
- Spliced pri-miR-122
- γ-actin mRNA
- miR-122

**c**

**Northern blot**

- Intronic probe (1563-2005)
- Exonic probe (3077-3707)

**d**

**m7G-Cap selection**

- % input
- Spliced, Unspliced, GAPDH mRNA

**e**

**poly(A) separation**

- RNA levels relative to pA- (fold change)
- GAPDH mRNA, U6 snRNA, spliced, unspliced

**Northern blot**

- Total human liver RNA
Figure 2

a) Inc-pri-miR-122

b) Mapping 3' ends of pri-miR-122

C) Nuclear-cytoplasmic distribution

D) RNA stability

Western blot fractionation control

WC: Whole Cell
N: Nucleus
C: Cytoplasm
Figure 3

**a**

Inc-pri-miR-122

---

**Chromatin RNA**

- RNA levels normalized to INT1 (relative to si Cntrl)
- si Cntrl
- siDGCR8
- siCPSF-73

**BrU-NRO**

- RNA levels normalized to INT1 (relative to si Cntrl)
- si Cntrl
- siDGCR8
- siCPSF-73

---

**b**

GAPDH

---

**Chromatin RNA**

- RNA levels normalized to INT1 (relative to si Cntrl)
- si Cntrl
- siDGCR8
- siCPSF-73

**BrU-NRO**

- RNA levels normalized to INT1 (relative to si Cntrl)
- si Cntrl
- siDGCR8
- siCPSF-73

---

**c**

Western blot

- α: CPSF-73
- α: Tubulin
- α: DGCR8
Figure 4

(a) Poly (A) separation

(b) Chromatin RNA-seq profile of Inc-pri-miR-122
**Figure 5**

(a) Diagram showing the structure of HIV-pri-miR-122 and its regulation by Drosha and DGCR8.

(b) Northern blot showing pri-miR-122 WT and ∆ in Hela and HepG2 cells.

(c) Northern blot showing the effect of siRNA on pri-miR-122 WT and ∆ in Hela cells.

(d) Northern blot showing the effect of siRNA on pri-miR-122 WT and ∆ in Hela cells.

(e) Northern blot showing the effect of siRNA on pri-miR-122 WT and ∆ in Hela cells.

(f) Graph showing RNA levels relative to poly (A) separation.

(g) Northern blot showing the effect of siRNA on pri-miR-122 WT and ∆ in Hela cells.
Figure 6

Metagene analysis of lncRNA genes harbouring miRNA

Metagene analysis of protein coding genes harbouring miRNA

Western blot
Figure 7

Detection of MIR17HG-GPC5 chimeric transcript

Chromatin RNA-seq

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mRNA levels

Western blot