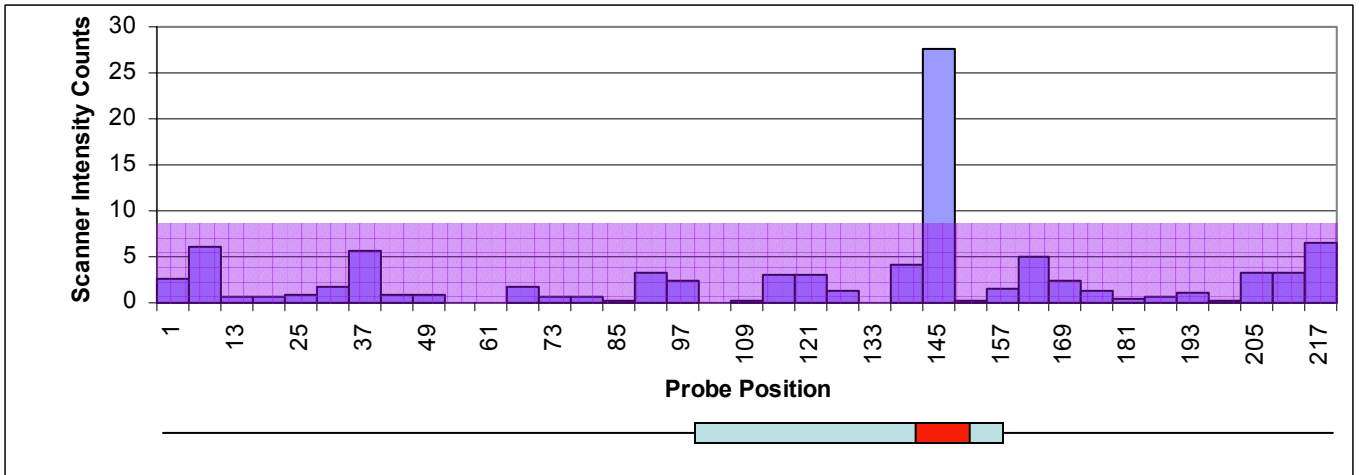
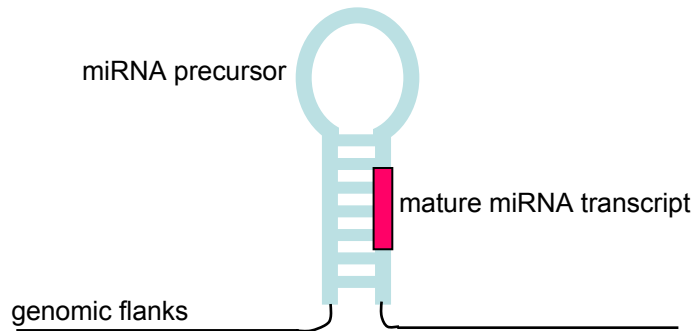
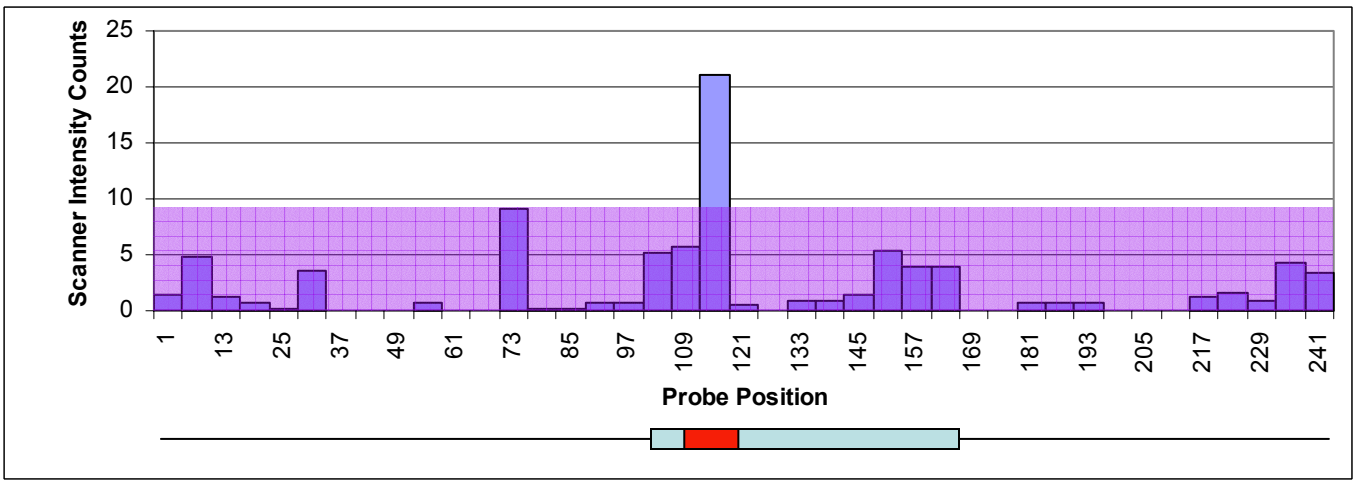


miR-127 RNA extracted from: brain

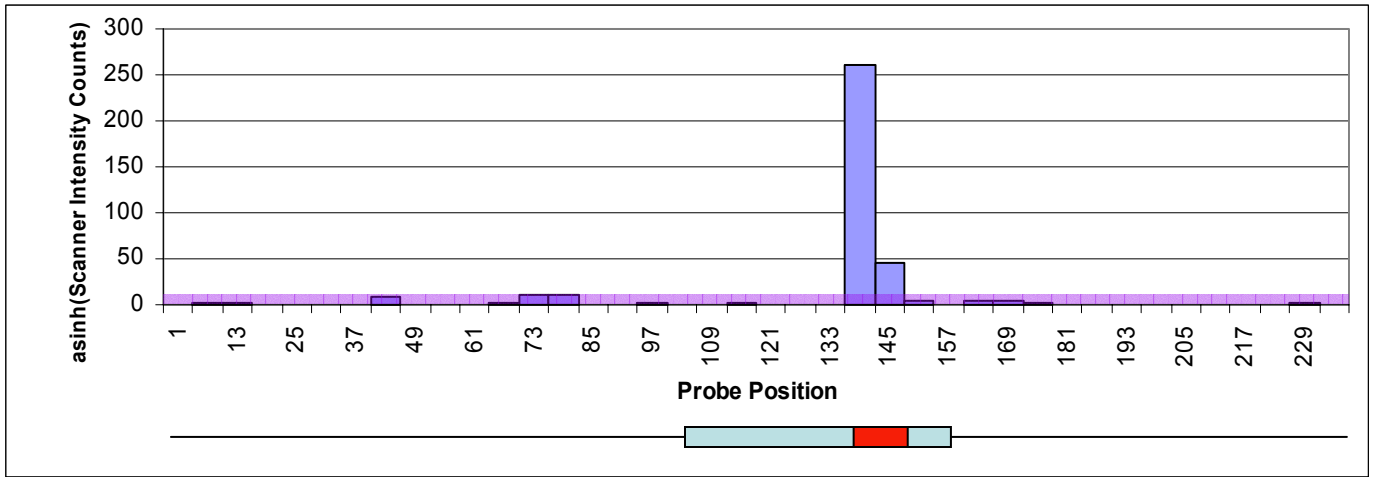


miR-132 RNA extracted from: brain

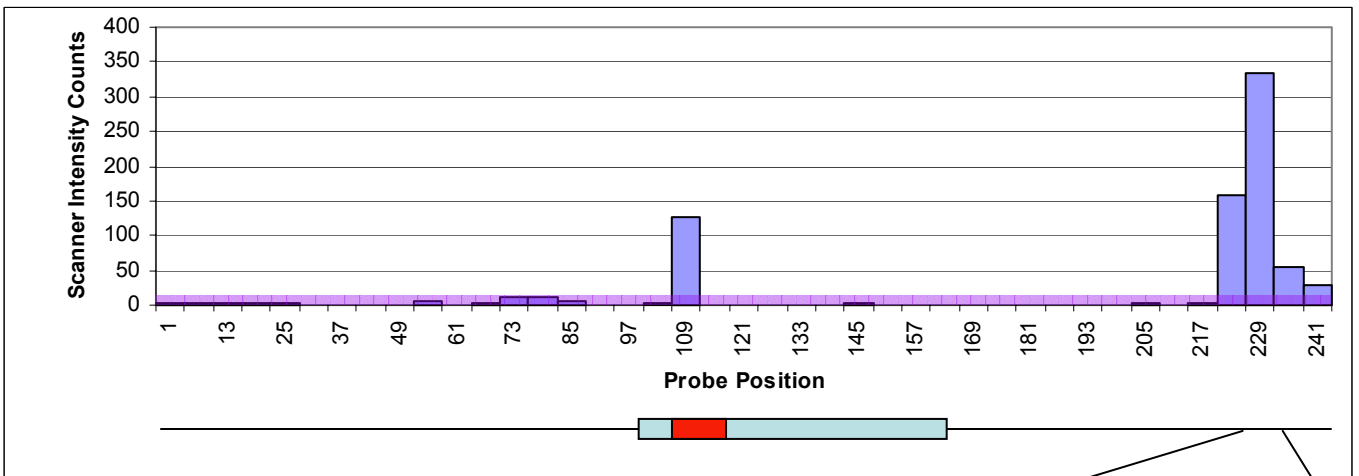




miR-134 RNA extracted from: 15 day embryo

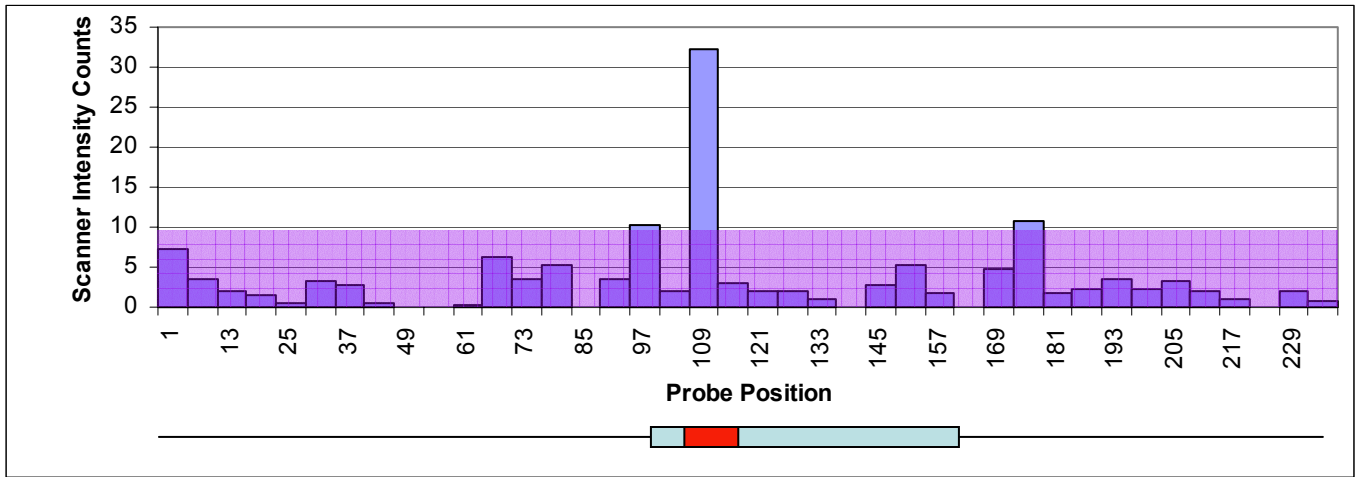


miR-143 RNA extracted from: stomach

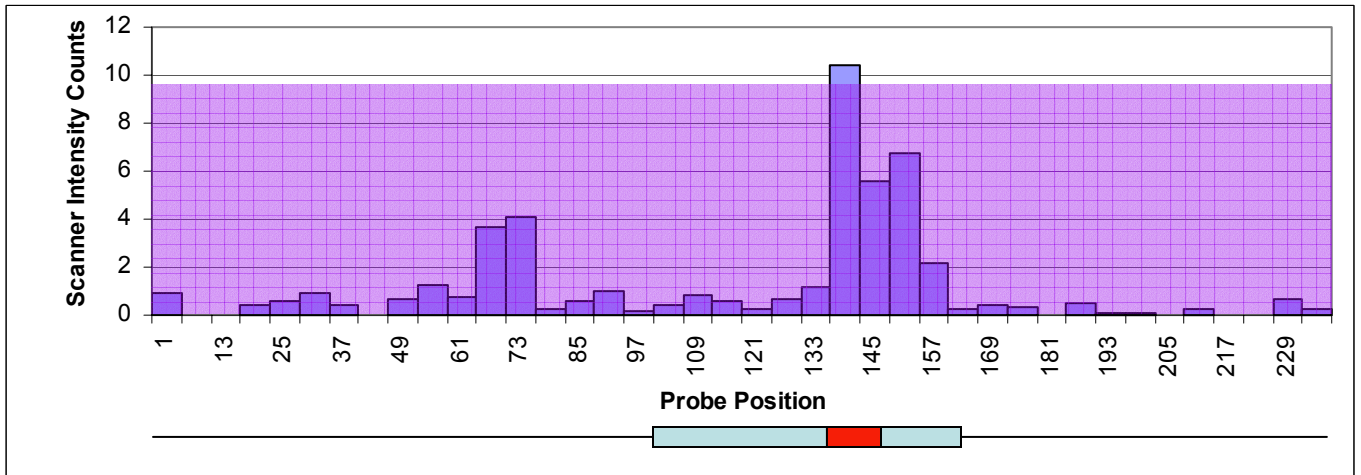


miR-145 RNA extracted from: heart

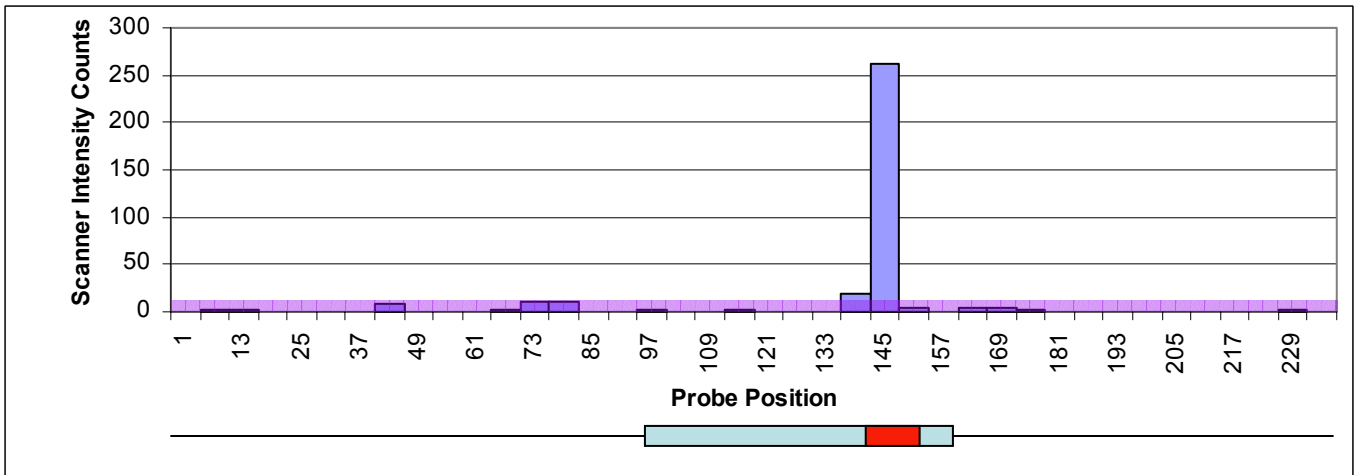
ACCGCCTCCTCCTCCCTA



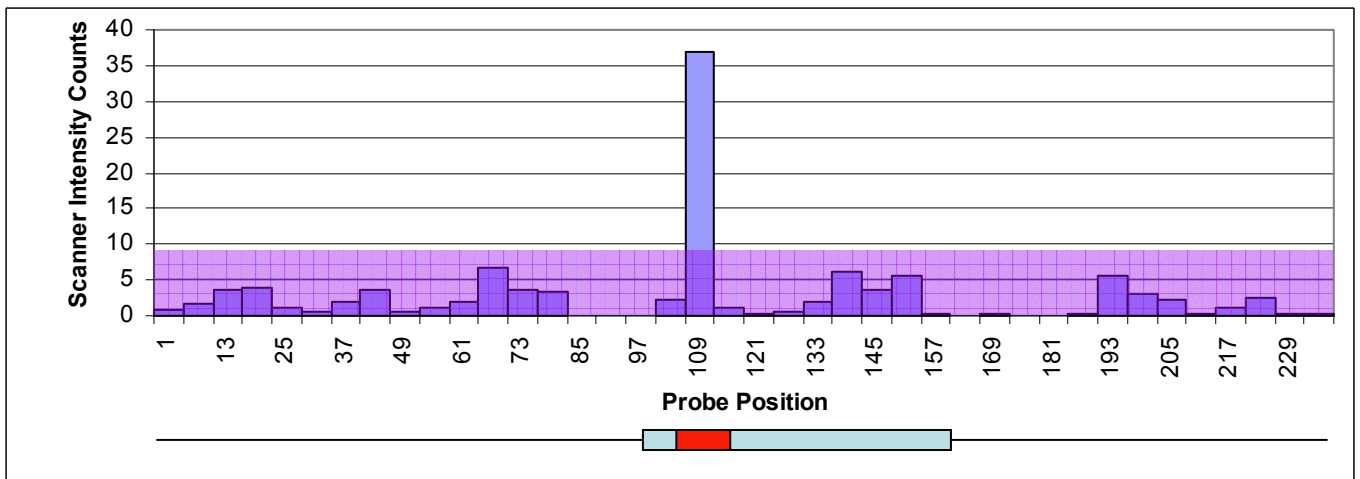
miR-150 RNA extracted from: spleen



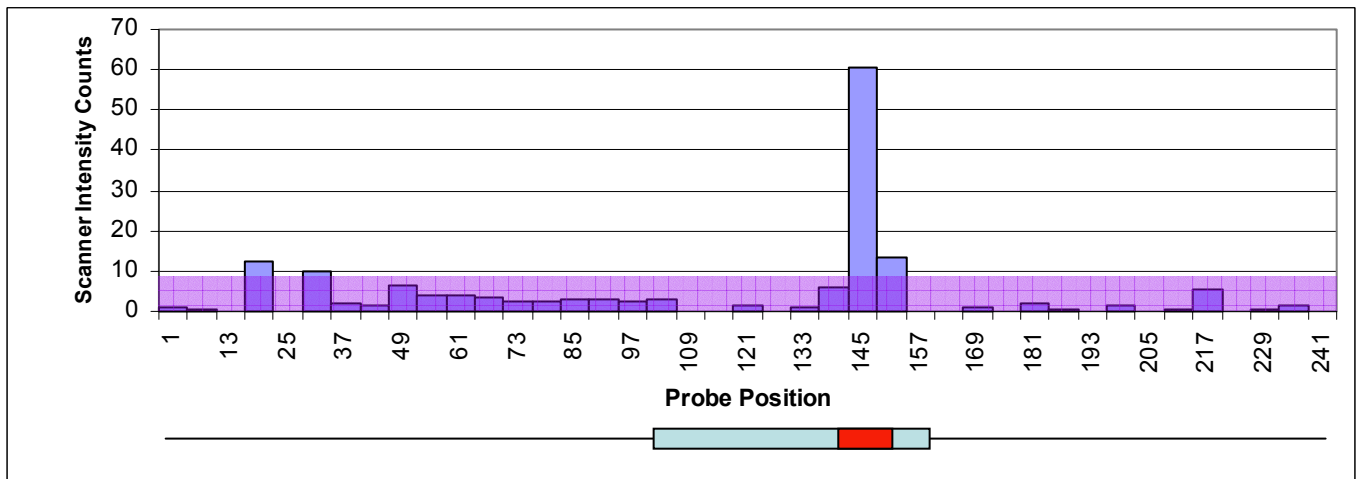
miR-151 RNA extracted from: liver



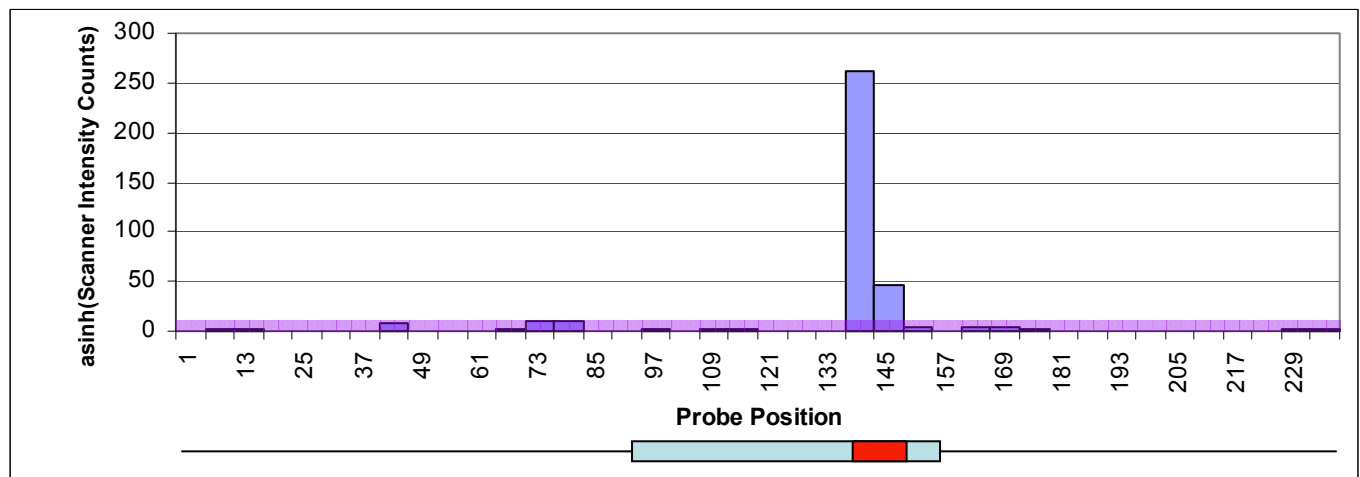
miR-133 RNA extracted from: muscle



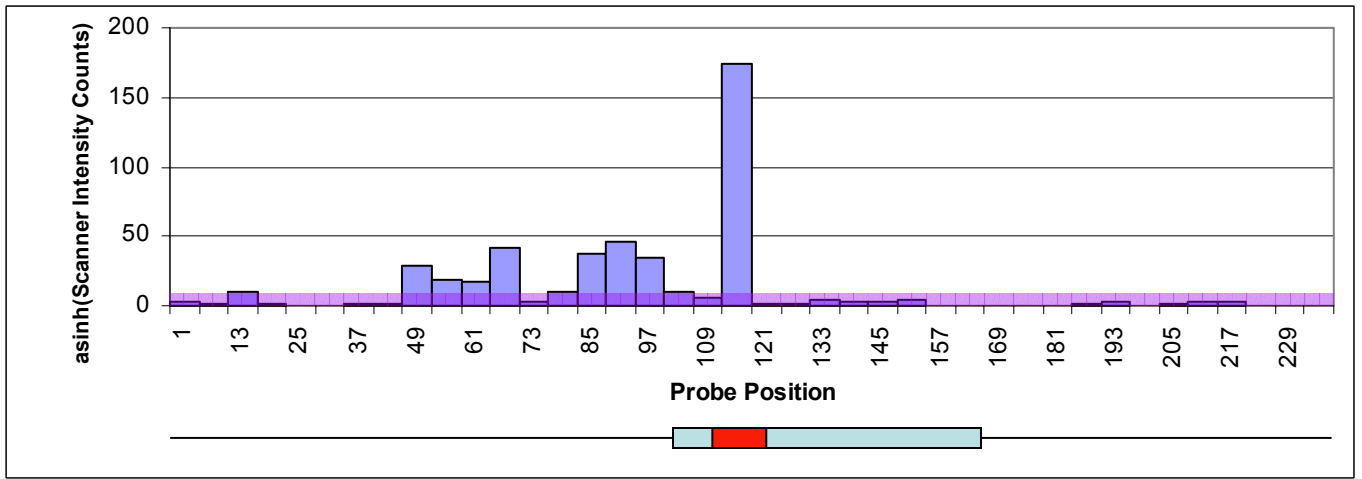
miR-181a RNA extracted from: brain



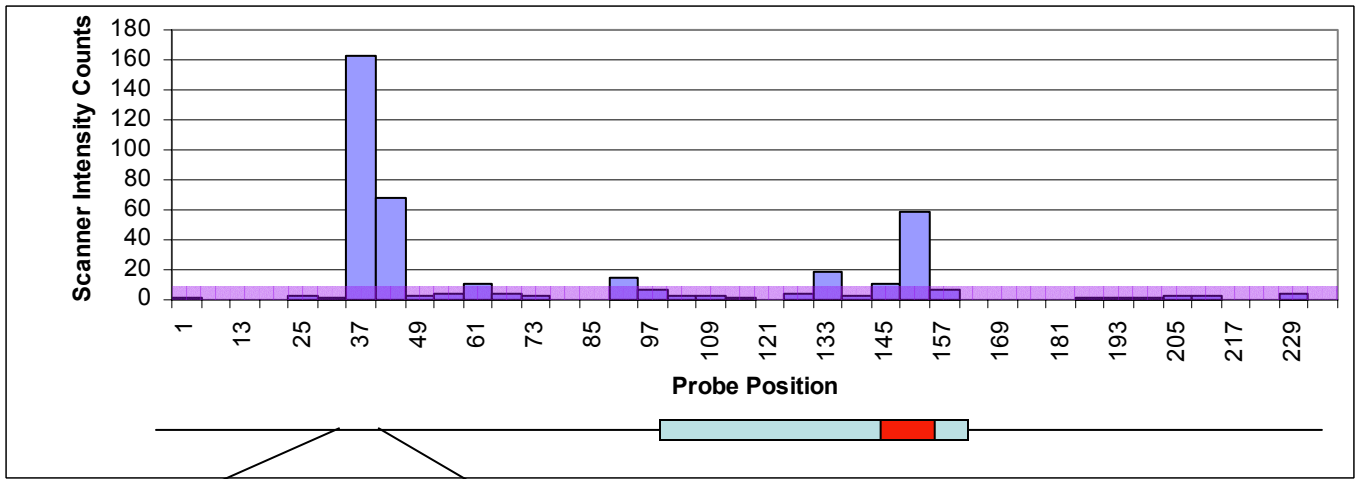
miR-23b RNA extracted from: heart



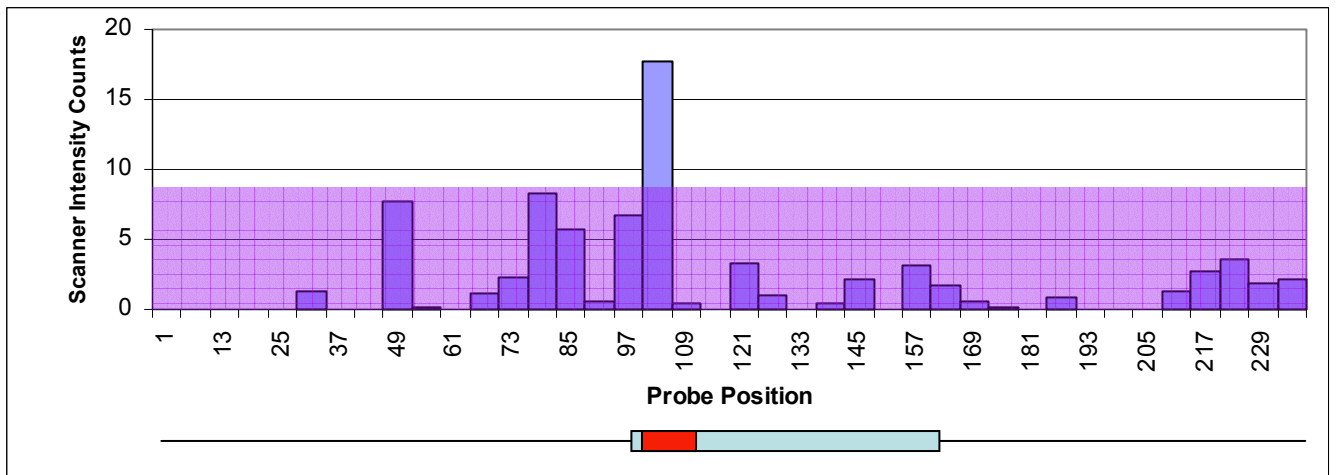
miR-183 RNA extracted from: 9.5 day placenta



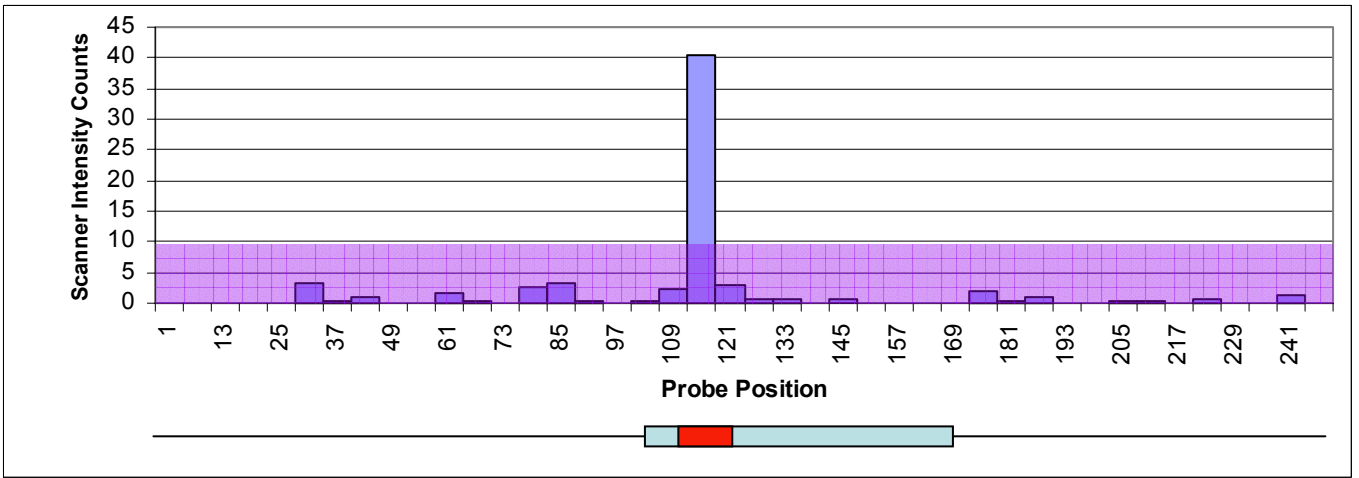
miR-185 RNA extracted from: lung



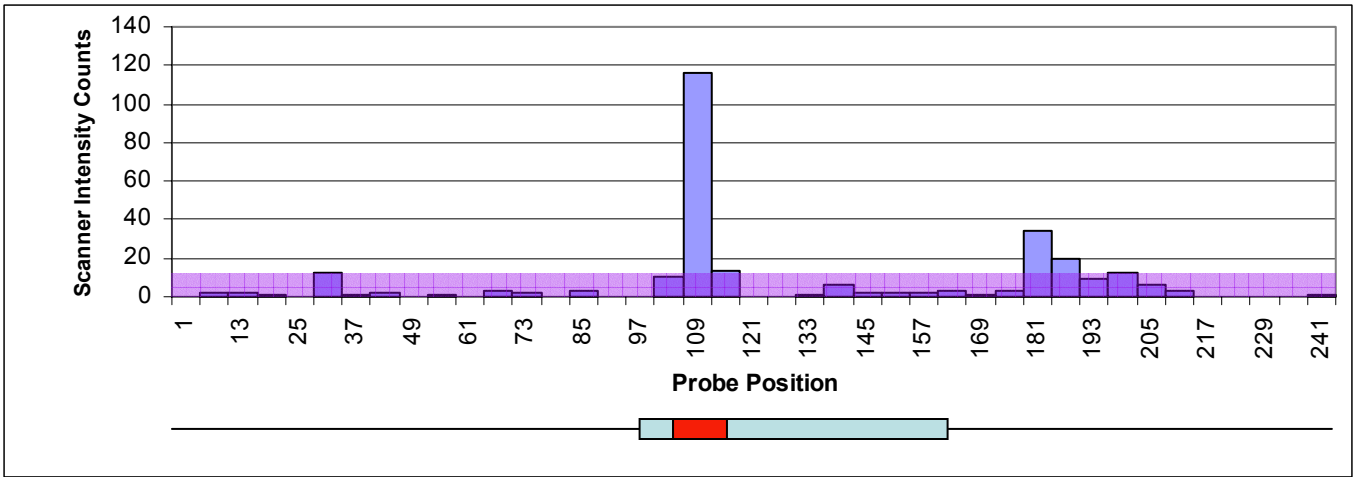
CTCCTCCTCTGGGTGGGC miR-187 RNA extracted from: heart



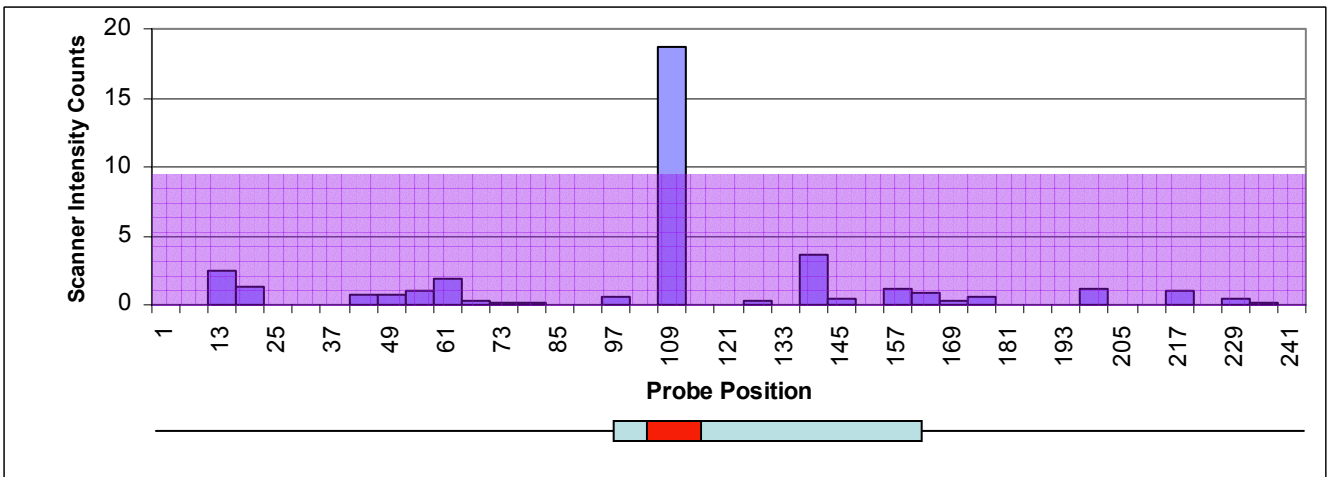
miR-99a RNA extracted from: heart



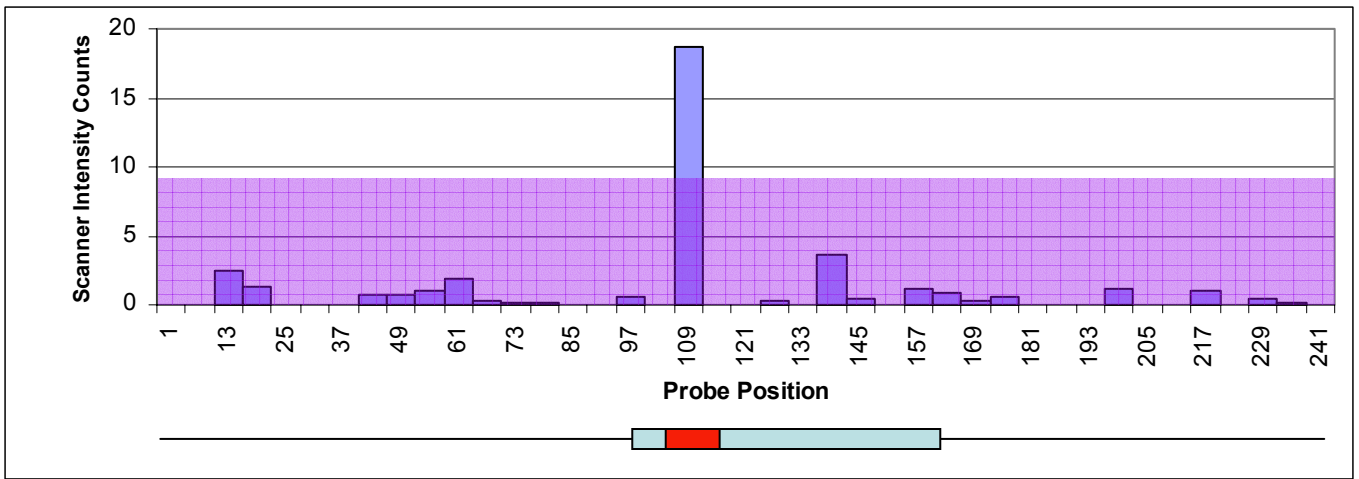
miR-30a RNA extracted from: lung



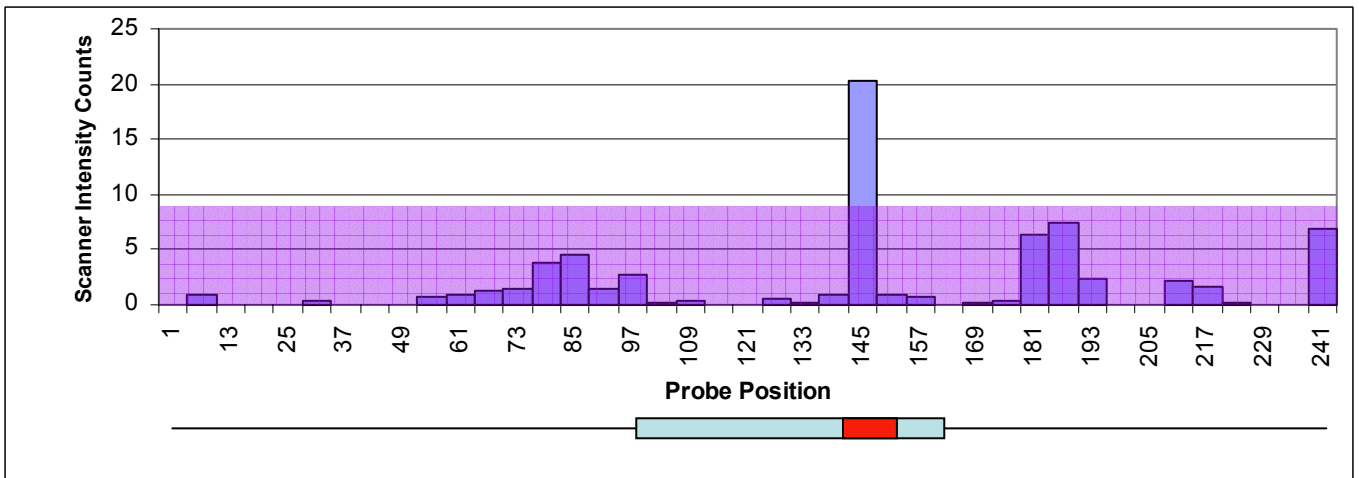
miR-194 RNA extracted from: intestine



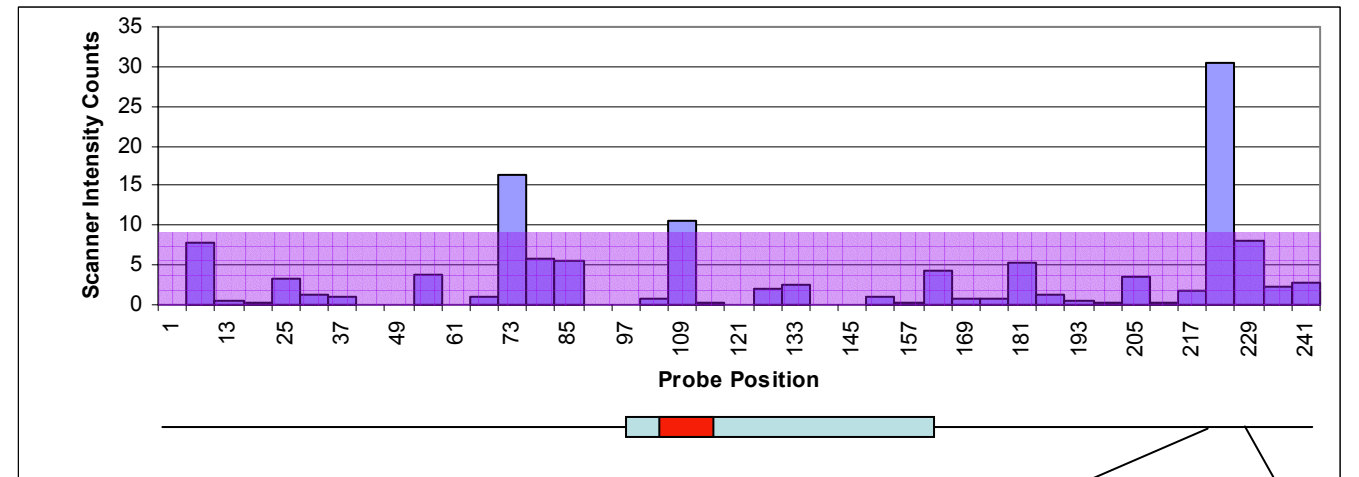
miR-1d RNA extracted from: muscle



miR-201 RNA extracted from: ES cells

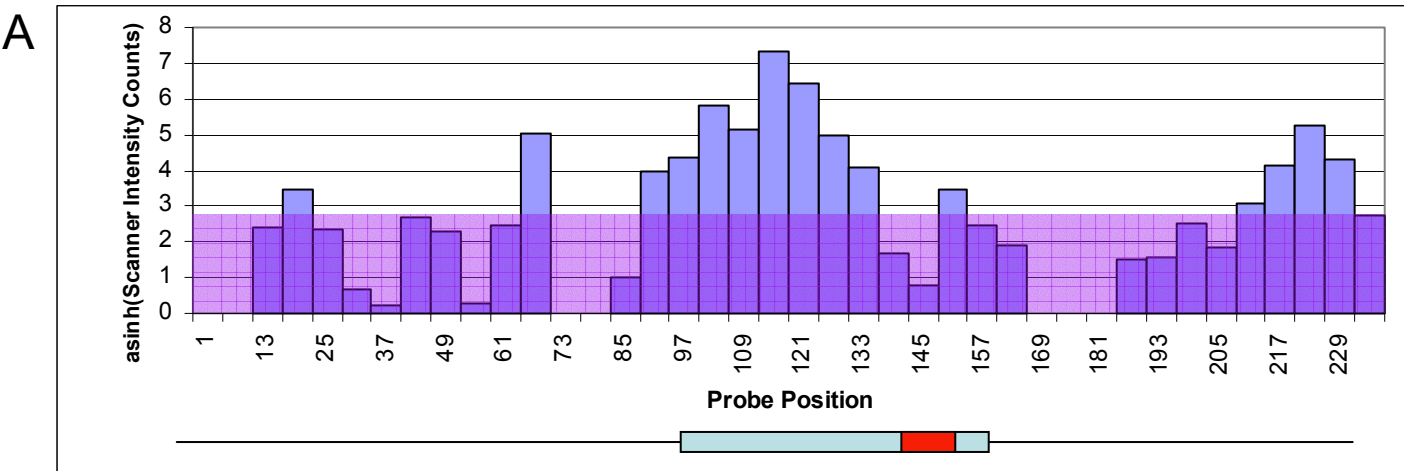


miR-206 RNA extracted from: muscle



miR-182 RNA extracted from: 9.5 day embryo

CTCCAGCAGCCAGACCAGTAA

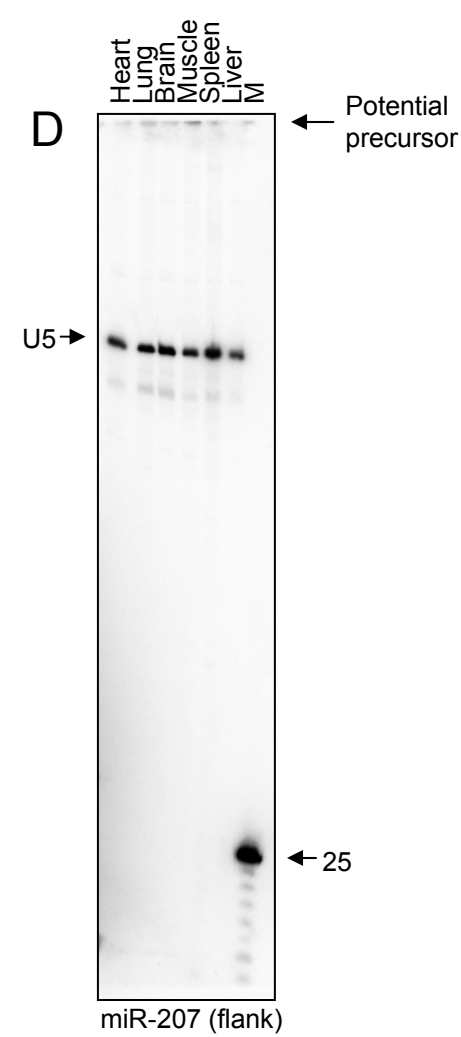
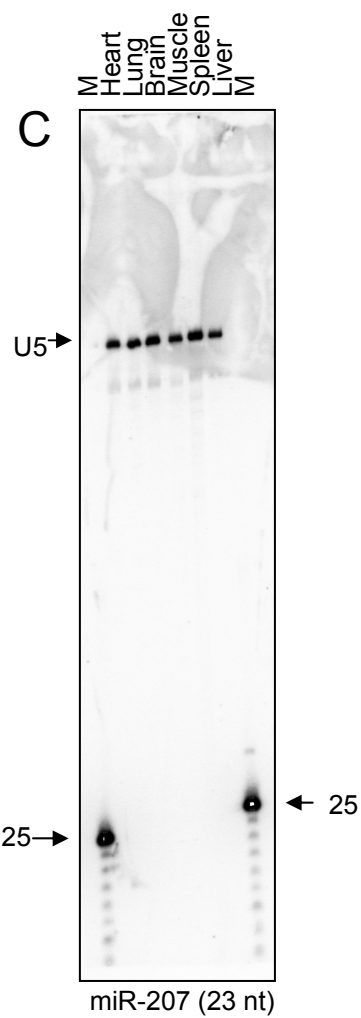


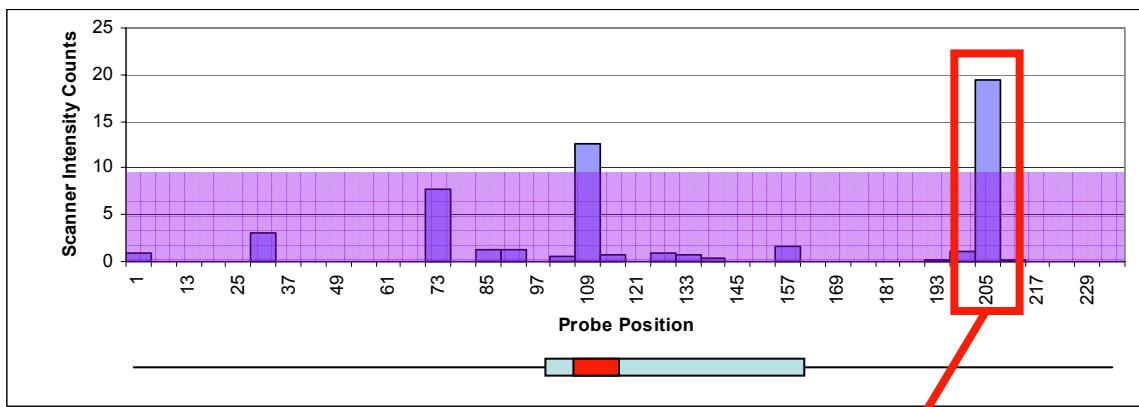
miR-207 RNA extracted from: muscle

B

```

>mmu-mir-207 pre-miRNA
AAGGCAGGGGTGAGGGGCTGCGGGAG
GAGCCGGGCGGAGGCTGCGGCTTGCG
CTTCTCCTGGCTCTCCTCCCTCTCTT
T
>mmu-mir-207 pre-miRNA
(repeatmasked)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXTTGCG
CTXXXXXXXXXXXXXXXXXXXXXXXXXXT
T
  
```





miR-15b RNA extracted from: ES cells

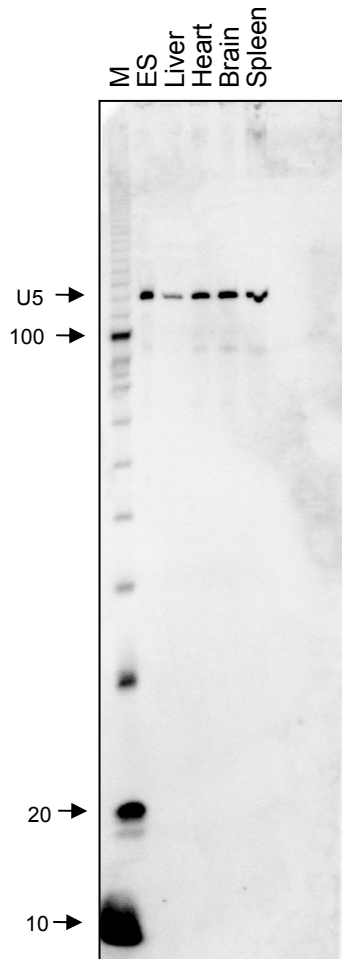


Figure S3.

Pages 1-7: Tiling results showing detection of only the mature form miRNA by microarray. Signal spikes in unexpected regions are likely due to non-specific hybridization arising from simple repeat sequences in the flanks of the precursor. This is exemplified in the probe sequences shown for miR-145 at position 229 (p. 2), miR-187 at position 37 (p. 5), and miR-182 at position 223 (p. 7).

Page 8: A) Tiling across miR-207 precursor RNA suggests presence of precursor RNA. However, the signal likely arises from GC repeats (B). Northern analysis of miR-207 suggests possible hybridization to large transcripts. C) northern analysis using probe complementary to miR-207 (GAGGGAGGAGCCAGGAGAAGC), D) northern analysis using probe complementary to miR-207 pre-cursor position 113 (tiling position with greatest signal; CGGCTCCTCCCGCAGCCC). M is a 25 nt DNA oligo. Repeat-masking was done using Scylla Paracel Package v2.6.2 (www.paracel.com), set for detecting low-complexity regions.

This page: northern analysis probing with sequence that resulted in an ES-specific signal in the pre-miRNA flanking region. M = 10 bp DNA ladder. The probe sequence was CATGTCAGATATCCAAACATAATACTG.