Table S1. **Oligonucleotide sequences**

Primers and probes	**Sequence**
PCR primers	
Pri-let7FH (f)	CGCGC**AAGCTT**AAACTTCATTTTCAACGTAAGTG
Pri-let7RA(r)	CGCGC**GGGCCC**GAGATAAAGTCTGTAGCAAGTACACT
Pri-lin4FH (f)	CGCGC**AAGCTT**GGTCACTCTTTCCAATAGACTC
Pri-lin4RA (r)	CGCGC**GGGCCC**AAATACTCACTTTATCAGTTTCTCC
Pri26bFEF (f) (includes flanking exons)	CGCGC**AAGCTT**CCAGTGAACAACGCGGAC
Pri26bFER(r) (includes flanking exons)	CGCGC**CTCGAG**CTTGGCGAGGCTAGCAGTG
Pri26bIF (f) (intron only)	CGCGC**AAGCTT**GTGAGGGCCAGGAAGAGG
Pri26bIR (r) (intron only)	CGCGC**CTCGAG**CTGGGGGGCGGG
Pri-miR-17□92F (f)	AGCTGCCTCGGGAAGCCAAGTTG
Pri-miR-17□92R (r)	CTTATGCCAGAAGGAGCACTTAGGG
Pri-miR-21F (f)	GGGTTCGATCTTAACAGGCCAGAAATGC
Pri-miR-21R (r)	ACTATCCCCATTTCTCCATAAAATCCTCCC
Pri-miR-23a□27a□24-2F (f)	TCACCCCTGTGCCACG
Pri-miR-23a□27a□24-2R (r)	CAAACCAACTGTGTTTCAGCTCAG
Pri-miR-16-1□15aF (f)	CCTTGGAGTAAAGTAGCAGCACATAATG
Pri-miR-16-1□15aR (r)	ATATACATTAAAACACAACTGTAGAGTATG
Pri-miR-34aF (f)	TGGGCATCTCTCGCTTCATCTTCCC
Pri-miR-34aR (r)	GTGCTGGGGAGAGGCAGGACAG
Pri-miR-34b□34cF (f)	ACCGTCCGGGAGCTGCAGC
Pri-miR-34b□34cR (r)	CCTGGCCGTGTGGTTAGTGATTGG
Pri-miR-BHRF1-2□3F (f)	GAATCAGGGTCATTGGGCCTG
Pri-miR-BHRF1-2□3R (r)	GGTTCTTCATCATTAACATAGCG
NC275 (f)	CCACTCCCACTGTCCTTTCCTATGAGGAAATTGCATCGCATTG
NC276 (r)	CAATGCGATGCAATTTCCTCATAGGAAAGGACAGTGGGAGTGG
ActinRTF (f)	AAAGACCTGTACGCCAACAC
ActinRTR (r)	GTCATACTCCTGCTTGCTGAT
βACTINEF[a]	GAAAATCTGGCACCACACCT
βACTINER[a]	GGCCGGACTCGTCATACTC
βACTINIF[a]	CGCTACCTCTTCTGGTGGC
βACTINIR[a]	ACCATGTCACACTGGGGAAG
TAFII30EF[a]	AGGGGGCCATATCTAACGG
TAFII30ER[a]	AGTAGTGCGGCTTCTTCACATT
miRNA Northern Blot Probes	
let-7	AACTATACAACCTCTACCTCA
lin-4	TCACACTTGAGGTCTCAGGGA
miR-26b	AACCTATCCTGTTACTTGAA
miR-34a	AACAACCAGCTAAGACACTGCCA
miR-BHRF1-1	AACTCCGGGGCTGATCAGGTTA
miR-BHRF1-2	TCAATTTCTGCCGCAAAAGATA
miR-BHRF1-3	TGTGCTTACACACTTCCCGTTA
miR-30GST-pi	ACCTCACCCTGTACCAGTCCAATAC
U6	GGGGCCATGCTAATCTTCTCTGTATTGTTCCAATTTTAGTATATGTTCTCCCTATAGTGAGTCG
In situ hybridization probes	
Pri-let-7a-1-1	TGTGAGTGATAAGAAAAATAGTATTAGACC
Pri-let-7a-1-2	GGAAGGCTTTTTTTCCTCCTCGGTAATCC
Pri-let-7a-1-3	GGTTTCCCCACCCCCATCCAGTGTACTTGC
Pri-let-7a-1-4	TTTATTTCCAGGCCATAAACAAATGCTGC
Pri-lin-4-1	CTTATTGTATCGCAATCATTGGCAACGCAAG
Pri-lin-4-2	CGTTTGCGTTTGACCCTTTTCCCCGAATACC
Pri-lin-4-3	GAAAGGGTCTCTGGGAGTGATGGGGCGGAGG
Pri-lin-4-4	CTGGGTCATTCGGTCGCTTCGTCGTTATTC
Pri-miR-26b-1	CAAGCCCACCACTGCCTCTTCCTGGCCCTC
Pri-miR26b-2	GAGGCGCTCCGGATTGGTGGGAAGAGCC
Pri-miR26b-3	GGCGCACAGGAAGGAGACTGGGCCCGCAGGCTCC
Pri-miR26b-4	GGCCACCCCCACACTGCCCCACTGGCCC
Pri-let-7g-1	GTGCCACACATTTGCCTCATCTTGCACCACATTTGGAGAATCCTC
Pri-let-7g-2	CTTCAGGATGCACTTGAGACAGGAAAGGGAACATCC
Pri-let-7g-3	GTTTCCCAGAGATGAGCAGGGTGACGCCATCCTCTCAGCCCC
Pri-let-7g-4	CTAATAAGAGGGCATTTAACTTGGGAGGGGGAATAGGGGAATAGGG
Pri-miR-17-1	CAAGGTGATGTTCTCTTTTTTCCTGCTAAATTTGAAATAGATAATTAGAATTAACAC
Pri-miR-17-2	CTTGTAGTGCAACTATGCAAAACTAACAGAGGACTGCAAACAAAAACTATTAAAACACC
Pri-miR-17-3	CAGAAGCTGTCACATCAGATAGACCAGGCAGATTCTACATCGACACAATAAAAGTAC
Pri-miR-17-4	CCCTTACTTTTTCTACAGACTTTTCACTACCACAGTCAGTTTGCATGGATTTGC
Pri-miR-34a-1	CCCCAGACCGACGGGACAGCGGCATCTCCTCCACCTGAAAAGGAAAGAGGACCAGGTGGGGG CCAGGCAGGGCGC
Pri-miR-34a-2	GTGCCACCAGGCCCCGGGGCCGCGACGCGTCTCTCCAGCCCGGGATCCGGGGAGCTGGGC
Pri-miR-34a-3	GTCACCGAGAAGCAGCCCGGCTCGGAACAAGCCCAGGCAAGCCCAGGCAGAGCCCGCCGCC GGGTCCTCC

Pri-miR-34a-4	CCAGCACCTGGGTGCATGCTGGGACGGGGCGAGCAGGTAGTGCAGGCTTCCAGGCCTCTCCTGC CCCGGA
Pri-miR-34a-5	GGCGCAGAAGAGCTTCCGAAGTCCTGGCGTCTCCCACTGGTCTGGGCATCTCTCGCTTCATCTTCCCT CTTGGGCCCC
Pri-miR-155-1	GAATTTAAACCACAGATTTCCCCTTCCTGGTTTGTGCCAC
Pri-miR-155-2	CATGCTTCTTTGTCATCCTCCCACGGCAGCAATTTGTTCCA
Pri-miR-155-3	TATCTCATTAGCTGTCAGATGTTATTTACCCTGCTAACTG
Pri-miR-155-4	CCCCATATGGAGGAAGAAACAGGCTTAGAAGTGGAAAGGT
Pri-miR-155-5	AACTGAAGTTGCCTGAACAGAAAATCGTTACCTGGGGGAAAGTACCAGTTTCTAAATCTT
Pri-miR-155-6	CGTTGCCAGACAATCCATGATATAACTGGAGGTTAGTAGTCCTTCTAATTTTTAACTACAAA
Pri-miR-BHRF1-p1	GGGCACTGTGTCACCCTTGCCTAATATCCTACTGGCTC
Pri-miR-BHRF1-p2	GGCTCTCACCCGTTAACATAACACATAGTATTCCC
Pri-miR-BHRF1-p3	TCCAGGCCAACGCGCGCCCAAGGCTTGGGTCTCCACGG
Pri-miR-BHRF1-p4	ATAAGCAAACATTGTTACATAACAGTTAAATGTAGTGTC
Pri-miR-BHRF1-p5	CCTTCTGGATCCAGGAATGTTGTCTTCAATTAATGTAGACCAGCCGCCCTGTTGAT
Pri-miR-BHRF1-p6	GTGTCTTCCTCTGGAGATAAATAAATAACTACATATAACTAACAGACTCAAAGTCAGTCC

PCR primer sequences are given with restriction sites used in bold. ActinRTF and ActinRTR were used to amplify the β-actin control in Fig. 1 C. MiRNA Northern blot probes are complementary to the mature miRNA sequence. In situ hybridization probes, which were DIG-tailed before use, are complementary to regions of the pri-miRNAs flanking the hairpin precursor.

[a]Primers used to amplify β-actin pre-mRNA and mRNA (Mili, S., H.J. Shu, Y. Zhao, and S. Pinol-Roma. 2001. *Mol. Cell. Biol.* 21:7307–7319) in the nuclear fractionation procedures in Figs. 3, 4, and 5.