

Table S1

name	sequences (5'->3')
Mouse ISY1_1	UCAUGAAGGCCAUCGAUUU
Mouse ISY1_2	GAAAGAAGUCCCAGGAAAUU
Mouse SF3B1	UCGGAAAGUCAGAGACGUUUU
Mouse CPSF2_1	AGCUAAAAGAUGCCGAGUUA
Mouse CPSF2_2	GAAUUAAAUGGGACGAGUA
Mouse CPSF3_1	GUACCAGACCUACGUGAAU
Mouse CPSF3_2	UGAGAAGCGUGAAGAGCGA
Mouse PRPF4_1	CCAAAGCGCCUGACGAUUU
Mouse PRPF4_2	GAUUGUGGAUUGCUGAAUUA
Mouse SNRNP40_1	GUGAUAACUAUGCGACGUU
Mouse SNRNP40_2	AGGCUCAGACUGCGGAAUU
Mouse U2AF2_1	CUGCUUGUCCAGAGGGCGA
Mouse U2AF2_2	GGUUAAGGAUAGUGCCACA
Mouse CSTF2_1	GACUGUAACUGGAGACGUA
Mouse CSTF2_2	ACAAAUAUCCCAACGCUGA
Mouse CSTF2T_1	GCGAAACCUCAAUGGGCGA
Mouse CSTF2T_2	GACCUAACGUCAUGUUGAA
Mouse FIP1L1_1	CAAACAAGAUUACGGUACA
Mouse FIP1L1_2	ACAGUGACGAAGAGCGAUA

List of siRNAs used (Related to Experimental Procedures)**Table S2**

name	sequences (5'->3')
Mouse ISY1_CDS_Sall_F	GGTCGACATGGCCCGAAATGCAGAA
Mouse ISY1_CDS_BamHI_R	CGGATCCCTAGTACCCAGGAGTCGCTT
Mouse CPSF3_CDS_Sall_F	GGTCGACATGTCTGCGATTCTGCTGAGGA
Mouse CPSF3_CDS_BamHI_R	CGGATCCTCAGTGAAGTGGCGTCAGGGCC
Mouse CPSF3_CDS_Not1_R	GCGGCCGCTCAGTGAAGTGGCGTCAGGGCC
Mouse pri_miR-17~92_EcoR1_F	CGGAATTCCTAGTCATACACGTGGACCTA
Mouse pro-pri_miR-17~92_EcoR1_F	CGGAATTCGTCAGAATAATGTCAAAGTGCT
Mouse pri_miR-17~92_Xho1_R	CGCTCGAGTCAGTGCTACAAAATAACTTT
Mouse pro-pri_miR-17~92_Xho1_R	CGCTCGAGCCAAACTCAACAGGCCGGGACAA
Mouse pri_miR-17~92_Xho1_F	CGCTCGAGCCTAGTCATACACGTGGACCTA
Mouse pre_miR-17_3P_Not1_R	TGCGGCCGCCAGTAGATGCACACATCACT
Muta_miR-17~92_AG_CC_F	GTGACCAGTCccAATAATGTCAAAGTG
Muta_miR-17~92_AG_CC_R	AGCTTCAGTCCCAAGGTG
Muta_miR-17~92_G_C_F	GTGACCAGTCAcAATAATGTCAAAG
Muta_miR-17~92_G_C_R	CAGCTTCAGTCCCAAGGTG
Muta_miR-17~92_A_C_F	GTGACCAGTCCcGAATAATGTCAAAG
Muta_miR-17~92_A_C_R	AGCTTCAGTCCCAAGGTG
Muta_miR-17~92_C_A_F	TGTGACCAGTAgAATAATGTCAAAG
Muta_miR-17~92_C_A_R	GCTTCAGTCCCAAGGTGAG

Muta_miR-17~92_CA_GG_F	TGTGACCAGTggGAATAATGTCAAAGTGC
Muta_miR-17~92_CA_GG_R	GCTTCAGTCCCAAGGTGAG
Del_miR-17~92_RD_F	AATTATTTATTTCAAATTTAGCAGGAATAAAG
Del_miR-17~92_RD_R	TCTGTCACAAACATCAATTAC
Del_miR-17~92_RD*_F	CAGGTTGGGATTTGTGCG
Del_miR-17~92_RD*_R	CCCTTACTTCTCTACAGAC
Sub_miR-17~92_RD_F	aagagaAATTATTTATTTCAAATTTAGCAGGAATAAAG
Sub_miR-17~92_RD_R	cattccAAAAAGCCAAAGCTCTAAATTC
Sub_miR-17~92_RD*_F	cattccGAAAATCAAACCCCTTTCTAC
Sub_miR-17~92_RD*_R	aagagaACAGACTTTTACCACCAC
Muta_CPSF3_75DK_76HA_F	TTTCCATTTGaaggcCTGTGGAGCCCTGC
Muta_CPSF3_75DK_76HA_R	TGACTGATCAACAGAAGG
Mouse pri_miR-17~92_EcoR1_40F	CGGAATTCTAAAGTGAACCTCACCTTGGGA
Mouse pri_miR-17~92_EcoR1_80F	CGGAATTCTTTGTCTAATTATTTATTTCAAAT
Mouse pri_miR-17~92_EcoR1_120F	CGGAATTCTTTGTGACAGAATTTAGAGCTT
Mouse pri_miR-17~92_EcoR1_160F	CGGAATTCCTTCTGGCTATTGGCTCCTCCC
Mouse pri_miR-17~92_EcoR1_200F	CGGAATTCAAGGCTTACATGTGTCCAATT
Mouse pri_miR-17~92_EcoR1_300F	CGGAATTCTTTGTAGGACCCTTATTGTGT
Mouse pri_miR-17~92_EcoR1_400F	CGGAATTCTATCTGACAATGTGGAGGAC
Mouse pri_miR-17~92_EcoR1_500F	CGGAATTCTATTTCTAATTTGGGGTGATA
Mouse pri_miR-17~92_EcoR1_600F	CGGAATTCAATAAATACAGTTTGAACCTTTG
Mouse pri_miR-17~92_EcoR1_700F	CGGAATTCGTGAGTATATTCTAGTTTTGTAGCTA
CRISP_pre_miR17_F	CACCGAATAAAGTGAACCTCACCTT
CRISP_pre_miR17_R	AAACAAGGTGAGGTTCACTTTATTC
CRISP_pre_miR17_AG_CC	ACAGAATTTAGAGCTTTGGCTTTTTCTTTTTGTCTAA TTATTTATTTCAAATTTAGCAGGAATAAAGTGAACCTC ACCTTGGGACTGAAGCTGTGACCAGTCCCAATAATGT CAAAGTGCTTACAGTGCAGGTAGTGATGTGTGCATCT ACTGCAGTGAGGGCACTTGTAGCATTATGCTGACAGC TG

List of primers used for cloning (Related to Experimental Procedures)

Table S3

name	sequences (5'->3')
miR-17/20_R	CTACCTGCACTATAAGCACTTTA
miR-18a_R	CTATCTGCACTAGATGCACCTTA
miR-19_R	TCAGTTTTGCATAGATTTGCACA
miR-92_R	CAGGCCGGGACAAGTGCAATA
miR-17~92_P1_F	GCTCGTGGTTCTTAGGTGA
miR-17~92_P1_R	GCAGCAAGCCTGAACTCTA
miR-17~92_P2_F	GGTGAGTATATTCTAGTTTTGTA
miR-17~92_P2_R	TCGACAAGATTAATGATTATTGTT

miR-17~92_P3_F	CTCATCCAATCCAAGTCAAGCAA
miR-17~92_P3_R	ACACCACGCAGGCTCTACATCGA
miR-17~92_P4_F	TGGTTTGAAGAGTCAGTCCTAC
miR-17~92_P4_R	AGCACGCACTTCCTGAATA
RP2_1	AGTGCTACAGAAGCTGTCACATCACAC
RP2_2	CTGGAGTTCTACAGCTGGCAGTACTTT
RP2_3	ACACCACGCAGGCTCTACATCGA
RP1_1	TGGCAGGCTTCCTATGTT
RP1_2	GCAGGCTTCCTATGTTGGA
RP1_3	CTTCTTACTAAATCCAGCGAGC
Pre-miR-92_R	GTGTAGAAAGGGGTTTGATTTTCC
Pre-miR-19b_R	AACCATAGACCAGTGCTCAATAAC

List of probes used for Northern blot and 5' RACE primers (Related to Experimental Procedures)

Table S4

name	sequences (5'->3')
Mouse ISY1_F	GTTACCTGGATGAAGATGATGG
Mouse ISY1_R	TGGTTGCCTTCCTCATCA
Mouse SF3B1_F	CAACTTCCAGTGCTCGTAAA
Mouse SF3B1_R	CATTATGTGACCTGGAGTCG
Mouse CPSF2_F	TGAAGGGAAAGAACTTGAGG
Mouse CPSF2_R	CTTTGTCTTGTGAGCCGAT
Mouse CPSF3_F	CAAGACAAGAAGACAGACACCT
Mouse CPSF3_R	GAGAGCAAAGACAGGAATGAG
Mouse DGCR8_F	TCGGAAGAAACCCAAGATGT
Mouse DGCR8_R	GCCACAGGGAAGGAACTTAG
Mouse Drosha_F	CCCGACCTATGTAGAGAATCAGAT
Mouse Drosha_R	TTGGAGTGGGTGGAGAGGAT
Mouse U2AF2_P1F	TGTTTATGTGCCTGGAGTTG
Mouse U2AF2_P1R	GGTGTCTGATTGATGGTGCT
Mouse U2AF2_P2F	TTCCCAAACAGCCTCTTATC
Mouse U2AF2_P2R	GGAAGACTAAGGAGAAGAACCA
Mouse CSTF2_P1F	TTCTATGCCAGGTGGAGTTC
Mouse CSTF2_P1R	GTCATTGGGAGCATCACCTA
Mouse CSTF2_P2F	TCCTGAGCAAAGACAGAGTATC
Mouse CSTF2_P2R	GAGCAATGGCGATGTAAGAC
Mouse CSTF2F_P1F	TGTGAAGGACATTCCACCTC
Mouse CSTF2F_P1R	GTCACTGAGAGCAAAGTCCC
Mouse CSTF2F_P2F	TAGTTCCAGAGGTCCGATGA
Mouse CSTF2F_P2R	CTTGTGGAGTTACCTGGCTT

Mouse FIP1L1_P1F	GCACCTCTTCTCAGTCTCAGA
Mouse FIP1L1_P1R	GAGGAGGAAGGTGAGTAGGA
Mouse FIP1L1_P2F	GGAAACAAGACACAAGTCCTC
Mouse FIP1L1_P2R	GCATCTATTTCTGGGACTGAC
Mouse PRPF4_P1F	TGGACCAGAAGGATGTCAAC
Mouse PRPF4_P1R	GCAATGTCATACACACCCAT
Mouse PRPF4_P2F	CGGAAGGACTCAGAACTTGT
Mouse PRPF4_P2R	TGGCAGAACCTGAGATGAGA
Mouse SNRNP40_P1F	GACTGTGATAACTATGCGACG
Mouse SNRNP40_P1R	CTGGCTGGGTAACAGGAGTT
Mouse SNRNP40_P2F	TCCCAAAGAGAGATGTGTGA
Mouse SNRNP40_P2R	ACTGGATGCTGAGAGGATGA
Mouse pri-miR-17~92_5'Upstram_F	GGTGAGTATATTCTAGTTTTGTA
Mouse pri-miR-17~92_5'Upstram_R	TCGACAAGATTAATGATTATTGTT
Mouse pri-miR-17~92_CS_F	AAGGCTTACATGTGTCCAATT
Mouse pri-miR-17~92_CS_R	CACTTAGGGCAGTAGATGCT
Mouse pri-miR-17~92_3'Downstram_F	TGGTTTGAAGAGTCAGTCCTAC
Mouse pri-miR-17~92_3'Downstram_R	AGCACGCACTTCCTGAATA

List of primers used for q.RT-PCR (Related to Experimental Procedures)