## 1 Supplementary Table 1. Assays, primers and miRNA mimic/siRNA sequences

TaqMan assays		
MicroRNA	TaqMan Assay ID	
miR-15a-5p	000389	
miR-16-5p	000391	
miR-34a-5p	000426	
miR-34b-3p	000427	
RNU6B	001973	
Primers for mRNA expression		
Target	Forward primer (5'-3')	Reverse primer (5'-3')
BCL2	ACAGAGGATCATGCTGTAC	TTATTTCATGAGGCACGTT
18S	GCCGCTAGAGGTGAAATTC	
Primers for reporter assay		
Insert region	Forward primer (5'-3')	Reverse primer (5'-3')
BCL2 3'UTR	ATCGCTCGAGGTATGAAGC	ATCGGCGGCCGCCAACAA
MicroRNA mimics		
MicroRNA	Antisense strand (5'-3')	Sense strand (5'-3')
miR-15a-5p	UAGCAGCACAUAAUGGUU	CAAACCAUUAUGUGCUGC
miR-16-5p	UAGCAGCACGUAAAUAUU	CCAAUAUUUACGUGCUGC
miR-34a-5p	UGGCAGUGUCULIAGCUG	AACCAGCUAAGACACUGC
siRNAs		
Target	Antisense strand (5'-3')	Sense strand (5'-3')
Control	AAGCAACUUGGUAAGACU	CCACACGAGUCUUACCAA
BCL2 siRNA-1	GAGAUAGUGAUGAAGUA	AAUGGAUGUACUUCAUCA
BCL2 siRNA-2	GCCCCAGCAUGCGGCCUC	AAUCAAACAGAGGCCGCA

2 MiRNA TaqMan IDs are listed together with primers for mRNA expression, reporter

3 assay cloning and miRNA mimic/siRNA sequences



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24 **Supplementary Figure 3.** Direct regulation of the BCL2 mRNA by miR-15a/16-1.

- 25 miR-15a and miR-16 reduce luciferase activity of a reporter containing the 3'UTR
- region of BCL2 mRNA in MSTO-Par and an additional MPM cell line H28. Data is the
- average of 3 replicate experiments  $\pm$  SD. \* $P \le 0.05$ , \*\* $P \le 0.01$

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