

1 **FIGURE LEGENDS**

2

3 **Figure S1: miR-130b-3p is downregulated by TSH.**

4 qRT-PCR analysis of miR-130b was carried out on FRTL5 treated with TSH  
5 (10 nM) at the indicated times. The relative expression values indicate the  
6 relative change in the expression levels between TSH- and BSA-treated FRTL5  
7 cells, assuming that the value of the FRTL5 cells treated with BSA was equal to  
8 1. Each bar represents the mean values  $\pm$  s.e. from three independent  
9 experiments performed in triplicate.

10

11 **Figure S2: miR-130b-3p targets CCDC6.**

12 Western blot analysis of CCDC6 protein levels in FRTL5 cells transfected with  
13 miR-130b-3p or scrambled oligonucleotide and collected at 48 h. Vinculin was  
14 analysed as loading control. A representative experiment is shown.

15

16 **Figure S3: miR-130b-3p induces cell proliferation.**

17 (A) Cell proliferation assay of FRTL5 cells transfected with miR-130b-3p and  
18 seeded in 96-well plates at  $1 \times 10^4$  cells/well. After 72 h, 20  $\mu$ l of Promega's  
19 CellTiter® 96 AQueous One Solution were dispensed into each well and  
20 absorbance measured at 595 nm to evaluate cell viability. Each bar represents

21 the mean values  $\pm$  s.e. from three independent experiments performed in  
22 triplicate. \*Significance values of  $P < 0.05$  compared to scrambled  
23 oligonucleotide-transfected cells. (B) Flow cytometric analysis of synchronized  
24 FRTL5 cells transfected with miR-130b or scrambled oligonucleotide. After  
25 transfection, the DNA of the transfected cells was analysed 72h later by flow  
26 cytometry after propidium iodide staining. Each bar represents the mean  $\pm$  s.e.  
27 from three independent experiments performed in triplicate. \*Significance  
28 values of  $P < 0.05$  compared to scrambled oligonucleotide-transfected cells.

29

30 **Figure S4: *CCDC6* mRNA levels in FTAs.**

31 qRT-PCR analysis of *CCDC6* expression in a subset of FTAs. Each bar  
32 represents the mean  $\pm$  s.e. from three independent experiments performed in  
33 triplicate.

34

35 **Figure S5: Analysis of miR-130b-3p expression in PTCs, FTCs and ATCs**  
36 **by qRT-PCR.**

37 The relative expression values indicate the relative change in the expression  
38 levels between PTCs, FTCs and ATCs *versus* three normal thyroid glands,  
39 assuming that the mean value of the normal samples was equal to 1. The range  
40 of variability of the expression of this miRNA in normal thyroid tissues is less

41 than 10%. U6 was used to normalize RNA levels. Each bar represents the mean  
42 value  $\pm$  s.e. from three independent experiments performed in triplicate.