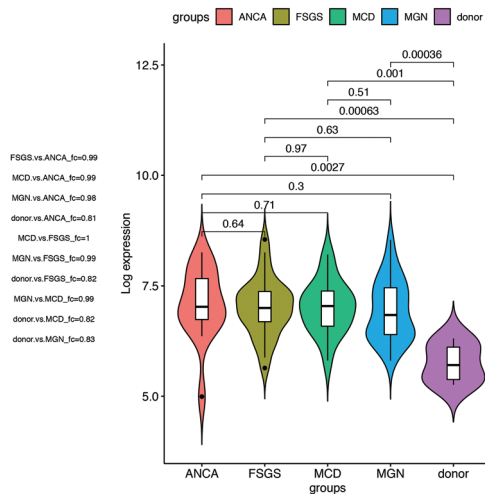
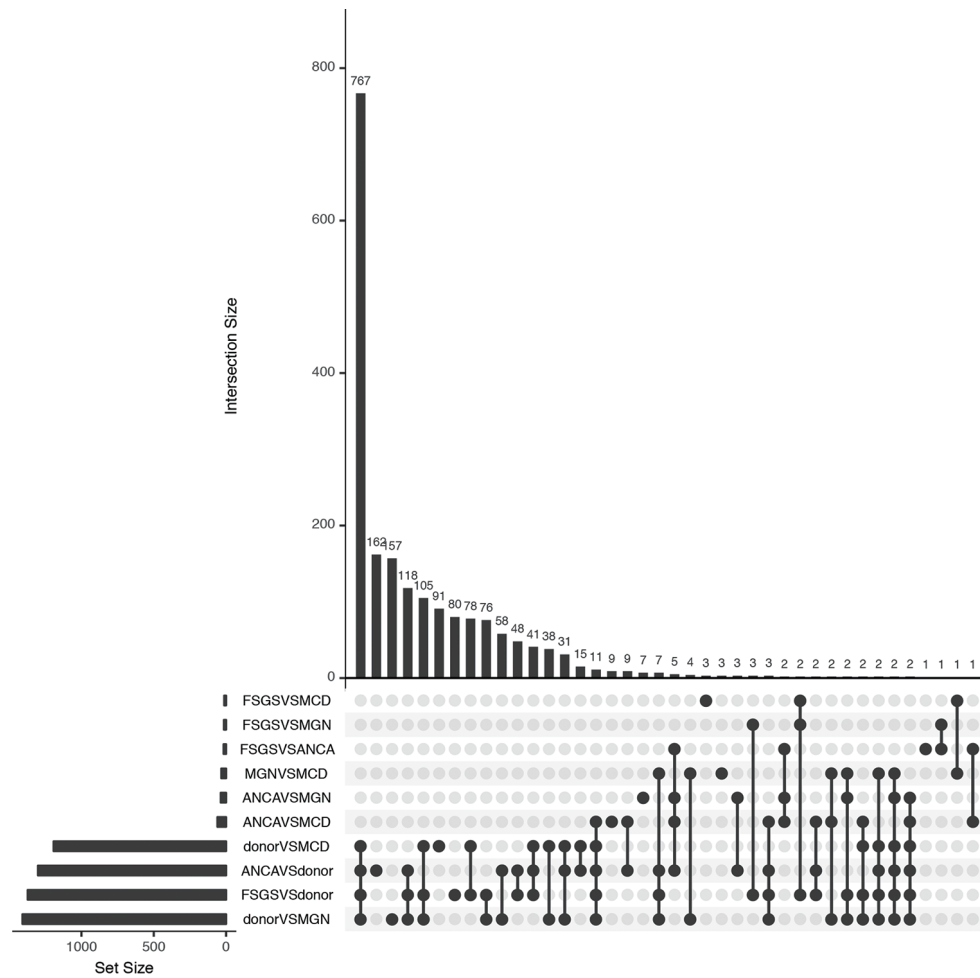


siRNA for testing	siRNA	Banchmark Function	
	Akt1 siRNA1	siRNA NC	
	Akt1 siRNA2		
	Akt1 siRNA3		
	Akt2 siRNA1		
	Akt2 siRNA2		
	Akt2 siRNA3		
	PPAR $\alpha$ siRNA1		
	PPAR $\alpha$ siRNA2		
	PPAR $\alpha$ siRNA3		
	TRPC6 siRNA1		
	TRPC6 siRNA2		
	TRPC6 siRNA3		
	siRNA NC		
	Mock		
	Blank		
Target gene	Gene name	Gene ID	Species
	Akt1	11651	mice
	Akt2	11652	
	PPAR $\alpha$	19013	
	TRPC6	22068	

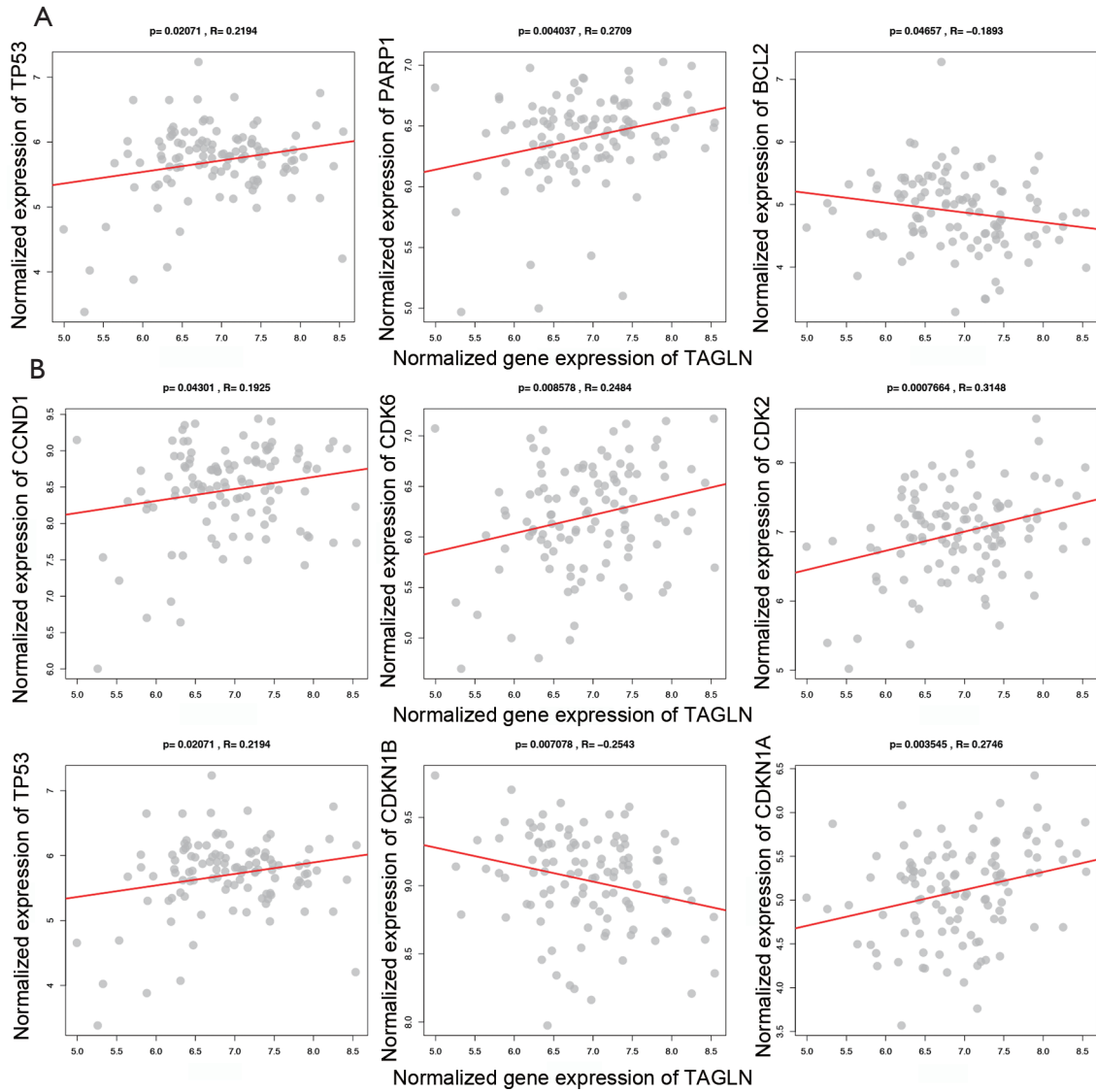
**Figure S1** Fifteen siRNAs designed to specifically silence the expression of four differentially expressed genes protein kinase B (AKT1, AKT2), peroxisome proliferator-activated receptor (PPAR) alpha and transient receptor potential channel 6 (TRPC6)



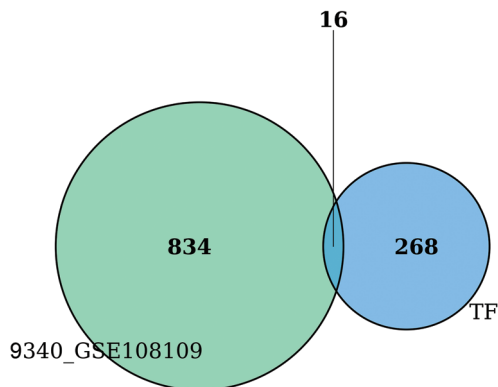
**Figure S2** Dynamic Log expression changes of transgelin in various nephropathy types and control from microarray expression profiling dataset GSE108109. The top and bottom edges of the violin graph represent the actual maximum and minimum values, and the width of the violin graph represents the occurrence frequency of Log expression.



**Figure S3** Differentially expressed genes (DEGs) from comparisons among nephropathy types and control from microarray expression profiling dataset GSE108109.



**Figure S4** Correlation between transgelin (TAGLN) and cell cycle-related genes (A) or apoptosis-related genes (B).



**Figure S5** The overlapped between transcription factors (TFs) and differentially expressed genes (DEGs) overlapped in GSE99340 and GSE108109.