

**Table S1.** Type of sample collected from each patient included in the study

Patient	Sample type					
	Oocytes (GV-Fresh)	Oocytes (GV-IVM)	Preantral follicles	Cumulus cells	Medulla tissue	Cortex tissue
1	*					
2	*		*			
3	*		*			
4	*		*	*		
5			*			
6	*			*		
7			*		*	
8	*				*	
9			*		*	
10	*		*	*	*	
11		*				
12		*				
13		*				
14		*				
15		*				
16		*				
17		*				
18		*				
19		*				
20		*				
21		*				
22		*				
23		*				
24		*				
25		*				
26						*
27						*
28						*
29						*

GV-Fresh, non-cultured immature oocytes collected at the germinal vesicle stage. GV-IVM, oocytes that remained at the GV stage after in vitro maturation (IVM). Preantral follicles were around 60  $\mu$ m in diameter.