

Supplementary Table 2 Summary of subjects' reproductive history.

Label of Subjects	Reproductive History	RNA-Seq	qPCR
Recurrent Implantation Failure			
RIF1	2010: Feb, ET with 2 embryos, IF; Jul, ET with 2 embryos, IF; 2011: Feb, ET with 2 embryos, IF; 2014-2015: 7 ETs with total 13 embryos, IF.	Yes	Yes
RIF2	2006: Oct, ET with 3 embryos, miscarriage at 6 wk; 2007: ET with 3 embryos, IF; second ET, IF; ETs in 2008 Nov, 2009 Apr, 2009 Jun, 2009 Dec, 2010 Aug, all IF.	Yes	Yes
RIF3	2009: natural conception, EP; 2010: 2 ETs with 3 embryos, IF; 2011: May, ET with 2 embryos, IF; 2013: 3 ETs with 4 embryos, IF.	Yes	Yes
RIF4	2012-2014: 3 ETs, IF; 2015: 1ET, IF.	Yes	Yes
RIF5	2010: natural conception, 1 <sup>st</sup> trimester miscarriage; 2011: Apr and Nov, natural conception, EP; 2014: Jun, ET with 1 embryo, IF; 2015: 2 ET with 3 embryos, IF.	Yes	Yes
RIF6	2013: 2 ETs with 3 embryos; 1 ET, EP with salpingectomy; 2014: 2 ETs with 2 embryos.	No	Yes
RIF7	2010: ET with 2 embryos, IF; 2012: 3ETs with 5 embryos, IF; 2013: 3ETs with 5 embryos, IF; 2014: ET with 1 embryo, IF.	No	Yes
RIF8	2013-2015: 4 ETs with more than 4 embryos, IF.	No	Yes
RIF9	2013-2015: 4 ETs with 6 embryos, IF.	No	Yes
Recurrent Miscarriage			
RM1	2010-2014: 3 1 <sup>st</sup> trimester miscarriages;	Yes	Yes
RM2	2009-2014: 3 1 <sup>st</sup> trimester miscarriages;	Yes	Yes
RM3	2 1 <sup>st</sup> trimester miscarriages; 1 miscarriage at 15 wk;	Yes	Yes
RM4	2007-2015: 6 1 <sup>st</sup> trimester miscarriages;	Yes	Yes
RM5	2013-2014: 3 1 <sup>st</sup> trimester miscarriages;	Yes	Yes
RM6	2005: natural conception, TOP; 2009: natural conception, term delivery; 2013-2014: 3 1 <sup>st</sup> trimester miscarriages.	Yes	Yes
RM7	2007-2014: 4 1 <sup>st</sup> trimester miscarriages; 2013: natural conception, EP;	No	Yes
RM8	2011-2015: 4 1 <sup>st</sup> trimester miscarriages, one with normal karyotype.	No	Yes
RM9	2011-2014: 3 1 <sup>st</sup> trimester miscarriages;	No	Yes
RM10	2012-2014: 3 1 <sup>st</sup> trimester miscarriages;	No	Yes
RM11	2011, 2013, 2014, 2015: 4 1 <sup>st</sup> trimester miscarriages.	No	Yes
Fertile			
C1	2007, 2008: natural conception, live birth.	Yes	Yes
C2	1999, 2002: natural conception, live birth.	Yes	Yes
C3	2007: natural conception, TOP; 2013: natural conception, live birth.	Yes	Yes
C4	2004, 2012, 2015: natural conception, live birth.	No	Yes

EP: ectopic pregnancy; ET: embryo transfer; IF: implantation failure; TOP: termination of pregnancy; wk: week(s)