



Figure S1: Hierarchical clustering of differentially expressed genes between foetal heart samples and human pluripotent stem cell derived cardiomyocytes (PSC-CMs). First trimester and second trimester foetal heart samples are compared with hPSC-CMs in LI-BPEL differentiation medium and maturation medium (MM). The dendograms illustrate closer clustering of the hPSC-CMs in MM with the foetal heart samples than the hiPSC-CMs in LI-BPEL (Fisher's exact test and Benjamini-Hochberg method).

Table S1: Description of fetal heart and commercial reference samples

First trimester			
Code	Name	Age of gestation (weeks.days)	Gender
FH1-V	heart ventricle	7.2	female
FH2-V	heart ventricle	7.4	female
FH2-A	heart atrium	7.4	female
FH3-V	heart ventricle	7.4	male
FH3-A	heart atrium	7.4	male
FH4-V	heart ventricle	10.5	female

Second trimester			
Code	Name	Age of gestation (weeks.days)	Gender
FH5-LV	heart left ventricle	15	male
FH5-RV	heart right ventricle	15	male
FH5-LA	heart left atrium	15	male
FH5-RA	heart right atrium	15	male
FH6-V	heart ventricle	15.3	male
FH7-V	heart ventricle	20	male
FH8-LV	heart left ventricle	20+	female
FH8-RV	heart right ventricle	20+	female
FH8-LA	heart left atrium	20+	female
FH8-RA	heart right atrium	20+	female

Reference samples			
Code	Name	Age (years)	Gender
AH-pool	Human Normal Heart Donor Pool	21, 24, 27, 29, 44	male
Ref-pool	Universal Human Reference RNA		

Table S2.

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Table S3.

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Table S4.

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