

Supplementary Figure 1. Immunohistochemistry for COX2 in the chorioamniotic membranes. Representative images (**A**) and semi-quantification (**B**) of COX2 in the chorioamniotic membranes from women who underwent spontaneous preterm labor (n = 7) or labor at term (n = 8). Gestational age-matched non-labor controls were also included (n = 7-8 each). 20x magnification.

Supplementary Figure 2. Validation of relative telomere length in peripheral blood mononuclear cells. Relative telomere length in peripheral blood mononuclear cells using two sets of primers (primer set #1 and primer set #2) from two individuals (a 25 year old and a 52 year old).

Supplementary Table 1: List of genes used in the RT-qPCR validation

Symbol	Gene Name	Assay ID	Lot
<i>TP53</i>	Tumor Protein p53	HS01034249_m1	1366180
<i>CDKN1A (P21)</i>	Cyclin-Dependent Kinase Inhibitor 1A	HS00355782_m1	1347306
<i>CDK2</i>	Cyclin-Dependent Kinase 2	HS01548894_m1	1356790
<i>CCNA2</i>	Cyclin A2	HS00996788_m1	1351631
<i>CCNB1</i>	Cyclin B1	HS01030099_m1	1323891
<i>CCNE1</i>	Cyclin E1	HS01026536_m1	1320002
<i>ACTB</i>	Beta-Actin	Hs99999903_m1	1086982



