Derivation of oocyte-like cells from putative embryonic stem cells and parthenogenetically activated into blastocysts in goat

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**Supplementary figure 1.** Establishment of goat ESCs. (A) Culture of ESCs colony on goat fetal fibroblast feeder layer. (B) Compact and dense embryoid bodies. (C) Sexing of ESCs colonies. Lane 1: Genomic DNA of ESCs colonies produced two amplified products of amelogenin gene with different sizes of 262bp (AMELX) and 202bp (AMELY) affirming the male genotype of these cells. Lane 2: Genomic DNA of ESCs colonies produced 162bp of amplified product of SRY gene (male specific). Lane 3: Female fibroblast cells; Lane 4: Negative control (No template); Lane 5: Male fibroblast cells; Lane 6: GAPDH served as an internal positive standard (463bp); Lane M: 100bp DNA ladder. Scale bar 50 μm.