

Myometrial cell line (hTERT-HM)

From: Duke/UNC/UT/EBI ENCODE group

Date: 8/25/09

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1. Source: Dr. Jennifer Condon of Magee Women's Research Institute (Pittsburg, PA). Primary myometrial cells were obtained and immortalized by transfection with hTERT as previously described (Condon, Yin, Mayhew, Word, Wright, Shay, and Rainey, 2002. Telomerase Immortalization of Human Myometrial Cells, *Biology of Reproduction*, 67, 506-514.)

2. Lineage: Immortalized myometrial cells obtained from uterus (Condon et al., 2002).

3. Growth conditions. These cells will grow rapidly and need to be split every 3 days initially. 1 million cells from frozen vial are thawed and plated in a T75. Within 3 days the cell numbers should have at least tripled. If they get over confluent, the cells will not trypsinize well and the expression levels of the progesterone receptor changes. The over confluent cells look like cross sections of muscle tissue, so it's easy to recognize. Therefore, these cells need to be split before they reach confluence. To split cells, add 1ml 0.25% trypsin for 2-3 mins, add 9ml growth media, knock the side of the T75, and all cells should easily come off.

Growth Media.

900ml of DMEM/F12 (Gibco 11330)

100ml FBS

10ml Antibiotic Antimycotic.

Freezing Media

1. 700ml of DMEM/F12 (Gibco 11330) and 200ml fetal bovine serum (Gibco 16000) (FBS) through a 0.22 μ m filter

2. Add 100ml sterile dimethyl sulfoxide (DMSO)