**CELL-REPORTS-D-19-01410R3:**

**Differential Histone Distribution Patterns in Induced Asymmetrically Dividing Mouse Embryonic Stem Cells**

**Histone-Dendra2 Plasmids**

TheDendra2-H3.3-N-14 vector was purchased from Addgene (Plasmid #57725). We amplified the full-length coding sequence of H3, H4, H2A and H2B from genomic DNA of mESCs and then subcloned them into Dendra2-H3.3-N-14 vector to replace H3.3 sequence. Each primer used for cloning are attached here:

mH2a F: CTCAAGCTT CCGCGGCGCCACCATGTCTGGACGCGGCAAGCA

mH2a R: GGTGGATCCCCACTGCCTGCGCTTCCGGACCCCTTCCCCTTGGCCTTGTGGT

mH2b F: CTCAAGCTT CCGCGGCGCCACCATGCCAGAGCCTTCTAAGTC

mH2b R: GGTGGATCCCCACTGCCTGCGCTTCCGGACCCCTTGGAGCTGGTGTACTTGG

mH4 F: CTCAAGCTT CCGCGGCGCCACCATGTCTGGCAGAGGAAAGG

mH4 R: GGTGGATCCCCACTGCCTGCGCTTCCGGACCCGCCTCCGAAGCCGTAGAGG

mH3 F: CTCAAGCTTCCGCGGCGCCACCATGGCTCGTACTAAGCAGAC

mH3 R: GGTGGATCCCCACTGCCTGCGCTTCCGGACCCAGCCCGCTCGCCGCGGATAC