DNA Sequencing from Subcritical Concentration of cf-DNA Extracted from EWOD

Supplementary Information:

The mouse embryo culture medium is kept at -80degree C. The bio-buffers for cf-DNA and their storage temperature are listed in table S1.

Table S1: Bio-buffers required for cf-DNA extraction and its storage temperature

Sl. No.	Bio-Buffers	Storage Temperature (In Degree C)
1	Lysis Buffer	6
2	Carrier-RNA	-20
3	Proteinase K	6
4	Magnetic Beads	6
5	Wash Buffer-1	6
6	Wash Buffer-2	6
7	Elution Buffer	6

Table S2 shows the raw sequencing data of E2.5 and E3.5 along with the subject query. For the better understanding, the noisy regions are given in grey colour. After ignoring the grey region in Query Sequence, we can observe perfect match between E2.5 and E3.5 (forward) & E2.5 and E3.5 (reverse).

Table S2: The query sequencing data with subject sequence

Sample Type	DNA Sequence
Query Sequence: Second-time PCR product of E2.5 with forward primer	TAAGAAGAGCGTGAGAAGTAGCACACTTAAAAGTATAACCCCCTTGAGAATTAAAATGAACGAAAATCTATTTGCCTCATTCATTACCCCAACAGA
Query Sequence: Second-time PCR product of E2.5 with reverse primer	TAAACCTGCACACACAGAGAAGGGGGTTTTTACTTTATATGGTTGTTAGTGATTTTGGTGAAGGTGCCAGTGGGAATGTTTGTGATGAGACA
Query Sequence: Second-time PCR product of E3.5 with forward primer	GTAGCTAGCGTCTTTATGTGCTGTGCCATAAAAGTATAACCCCCTATGAGAATTAAAATGAACGAAAATCTATTTGCCTCATTCATTACCCCAACAAA
Query Sequence: Second-time PCR product of E3.5 with reverse primer	GTATGCATCACACACAACAGTAGTAGGGTTTTTACTTTATATGGTTGTTAGTGATTTTGGTGAAGGTGCCAGTGGGAATGTTTGTGATGAGACA
Subject sequence: g-DNA (Positive control) sequencing with forward primer	GTAGTATCACTCACTAACACCATAAAAGTAAAAACCCCTTGAGAATTAAAATGAACGAAAATCTATTTGCCTCATTCATTACCCCAACCAA
Subject sequence: g-DNA (Positive control) sequencing with reverse primer	GTTAGTTACGTTCGTGTAGATCTCAGGGGTTTTTACTTTTATGGTTGTTAGTGATTTTGGTGAAGGTGCCAGTGGGAATGTTTGTGATGAGACA