

**Supplementary Table 7 | Primer sequences**

Primer name	Sequence
Linker sequence (long oligo)	GACCCGGGAGATCTGAATTCAGTGGCACAGCAGTTAGGGGGCTGGTCG
Linker sequence (blunt end)	/5Phos/CGACCAGCCC/3AmMO/
Linker sequence (CG end)	/5Phos/CGCGACCAGCCC/3AmMO/
Linker sequence (GATC end)	/5Phos/GATCCGACCAGCCC/3AmMO/
Tn primer 1	/5Biosg/ GGAATTGTGATACAGTGAATTATAAGTG
Tn primer 2	ACACTCTTCCCTACACGACGCTCTCCGATCTNNNCGAGTTTAAATGACTCCAAC
Tn primer 3	CTTGTCATGCACAAAGTAGATGTCC
Linker primer 1	GACCCGGGAGATCTGAATTC
Linker primer 2	GTGACTGGAGTTCAGACGTGTGCTCTCCGATCTAGTGGCACAGCAGTTAGG
Linker primer 3	AGTGGCACAGCAGTTAGG

Tn primer 2 and linker primer 2 are used in nest PCR for sequencing library construction; Tn primer 3 and linker primer 3 are used for regular LM-PCR.