

SUPPLEMENTARY TABLE S2 | Primers and barcode sequences used for library preparation in the multiplex strategy. Primers used are shown for the first- (A) and second-step PCR (B).

(A) Plate tagging (first PCR)

Forward primers						
Primer ID	Nextera transposase sequence	MT-F5	Linker	Forward rRNA primer	Complete sequence (5' to 3')	
008f_MT	TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG	NNNNNNNN	AC	AGATTTGATCMTGCC	TCGTCGGCAGCGTCAGATGTGTATAAGAGACAGNNNNNNNNNACAGAGTTTGTATCMTGCC	
Reverse primers (plate tagging)						
Primer ID	Nextera transposase sequence	MT-F5	Barcodes (plate tagging)	Linker	Reverse rRNA primer	Complete sequence (5' to 3')
1492r_MT_bc1	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TTACCGACG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTTACCGACGCTACCTTGTACGACTT
1492r_MT_bc2	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	ATTGGACAC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNATTGGACCGTACCTTGTACGACTT
1492r_MT_bc3	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TCGCATGGA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTCGCATGGAGTACCTTGTACGACTT
1492r_MT_bc4	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	AGCGAAGCT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNAGCGAAGCTGTACCTTGTACGACTT
1492r_MT_bc5	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	AGCTTCGAC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNAAGCTTCAGCGGTACCTTGTACGACTT
1492r_MT_bc6	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GTCACGCCG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGTCCAGCGCTGTACCTTGTACGACTT
1492r_MT_bc7	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TCCAGATAG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTCCAGATAGCTACCTTGTACGACTT
1492r_MT_bc8	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GAGAGTCCA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGAGAGTCCAGTACCTTGTACGACTT
1492r_MT_bc9	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GCTCACAAT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGCTCACAATGTACCTTGTACGACTT
1492r_MT_bc10	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TTGACGACA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTTGACGACGTACCTTGTACGACTT
1492r_MT_bc11	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CTTAGAAGC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTTAGAAGCGTACCTTGTACGACTT
1492r_MT_bc12	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CGGTTTACA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCGGTTTACACGTACCTTGTACGACTT
1492r_MT_bc13	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CGATAGGCC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCGATAGGCCGTACCTTGTACGACTT
1492r_MT_bc14	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GCTATATCC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGCTATATCCGTACCTTGTACGACTT
1492r_MT_bc15	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GTCTTCAGC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGTCTTCAGCGTACCTTGTACGACTT
1492r_MT_bc16	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TAGACACCG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTAGACACCGTACCTTGTACGACTT
1492r_MT_bc17	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TACGTCGAC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTACGTCGACGTACCTTGTACGACTT
1492r_MT_bc18	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TAACTGGCC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTAAGTGGCCGTACCTTGTACGACTT
1492r_MT_bc19	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GCTCTTAG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGCTCTTAGGTACCTTGTACGACTT
1492r_MT_bc20	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	ATGGCCTGA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNATGGCCTGACGTACCTTGTACGACTT
1492r_MT_bc21	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TTGCAAGTA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTTGCAAGTACGTACCTTGTACGACTT
1492r_MT_bc22	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CCTAGTAG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCCTTAGAGCTACCTTGTACGACTT
1492r_MT_bc23	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CTAGGATCA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTAGGATCACTACCTTGTACGACTT
1492r_MT_bc24	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TATGAACGT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTATGAACGTGTACCTTGTACGACTT
1492r_MT_bc25	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CTTGTGGCA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTTGTGGCACTACCTTGTACGACTT
1492r_MT_bc26	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CACGATGGT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCACGATGGTGTACCTTGTACGACTT
1492r_MT_bc27	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	ACGTGCCCT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNACGTGCCCTGTACCTTGTACGACTT
1492r_MT_bc28	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TGAAGTAGC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTGAAGTAGCTACCTTGTACGACTT
1492r_MT_bc29	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TATTCAGCG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTATTCAGCGGTACCTTGTACGACTT
1492r_MT_bc30	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TAACTGGTG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTAACTGGTGCTACCTTGTACGACTT
1492r_MT_bc31	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GGCTCCATC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCGTCCATCGTACCTTGTACGACTT
1492r_MT_bc32	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CGTAAGATG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTCGTAAGCTGTACCTTGTACGACTT
1492r_MT_bc33	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CTGTTACAG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTGTTCACGTACCTTGTACGACTT
1492r_MT_bc34	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	ACGATCATC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNACGATCATCTGTACCTTGTACGACTT
1492r_MT_bc35	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GTAACGGCT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTGTAACGGCTGTACCTTGTACGACTT
1492r_MT_bc36	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CCATGCTTA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCCATGCTGTACCTTGTACGACTT
1492r_MT_bc37	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GTACGCCA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGTACGCCGTACCTTGTACGACTT
1492r_MT_bc38	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TTAGAGCCA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTTAGAGCCGTACCTTGTACGACTT
1492r_MT_bc39	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	ATAAGTTCG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNATAAGTTCGTCGTACCTTGTACGACTT
1492r_MT_bc40	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	AGTGGCACT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNAGTGGCACTGTACCTTGTACGACTT
1492r_MT_bc41	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CCAGAAGTC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCCAGAAGTCGTACCTTGTACGACTT
1492r_MT_bc42	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CTACTAGCG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTACTAGCGGTACCTTGTACGACTT
1492r_MT_bc43	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TAGCGTTC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTAGCGTTCGTACCTTGTACGACTT
1492r_MT_bc44	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GTGATCAT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGTGATCATGTACCTTGTACGACTT
1492r_MT_bc45	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TGGTCTTAC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTGGTCTTACGTACCTTGTACGACTT
1492r_MT_bc46	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TACCGGTAC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTACCGGTACGTACCTTGTACGACTT
1492r_MT_bc47	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GAGCCATCT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGAGCCATCTGTACCTTGTACGACTT
1492r_MT_bc48	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CGTCCGTA	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNCGTCCGTAATGTACCTTGTACGACTT
1492r_MT_bc49	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	GATACGTC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNGATACGTCGTACCTTGTACGACTT
1492r_MT_bc50	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CAGCTGGTT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCAGCTGGTGTACCTTGTACGACTT
1492r_MT_bc51	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TAAAGCGCC	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTAAAGCGCCGTACCTTGTACGACTT
1492r_MT_bc52	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CTCGGAAG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTCGGACGTACCTTGTACGACTT
1492r_MT_bc53	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TTGTAGCCG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTTGTAGCCGTACCTTGTACGACTT
1492r_MT_bc54	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	TCTGTAGAG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNTCTGTAGAGCTACCTTGTACGACTT
1492r_MT_bc55	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CTATTAAAG	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTATTAAAGCTACCTTGTACGACTT
1492r_MT_bc56	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG	NNNN	CATTGAGGT	CG	TACCTTGTACGACTT	GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAGNNNNCTATTGAGGTACCTTGTACGACTT

(B) Well tagging (second PCR)

Forward primers (row tagging)					
Primer ID	Forward Illumina adapter	Barcode (row tagging)	Nextera transposase sequence	Complete sequence (5' to 3')	
S501	AATGATACGGCGACCAACCGAGATCTACAC	TAGATCGC	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACACTAGATCGCTCGTCGGCAGCGTC	
S502	AATGATACGGCGACCAACCGAGATCTACAC	CTCTCTAT	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACACTCTCTATTCGTCGGCAGCGTC	
S503	AATGATACGGCGACCAACCGAGATCTACAC	TATCTCTT	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACACTATCTCTTCGTCGGCAGCGTC	
S504	AATGATACGGCGACCAACCGAGATCTACAC	AGAGTAGA	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACACAGTAGATCGTCGGCAGCGTC	
S505	AATGATACGGCGACCAACCGAGATCTACAC	GTAAGGAG	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACAGTAAGGAGTCTGTCGGCAGCGTC	
S506	AATGATACGGCGACCAACCGAGATCTACAC	ACTGATA	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACACTGATATCTGTCGGCAGCGTC	
S507	AATGATACGGCGACCAACCGAGATCTACAC	AAGGAGTA	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACACAAGGATATCTGTCGGCAGCGTC	
S508	AATGATACGGCGACCAACCGAGATCTACAC	CTAAGCCT	TCGTCGGCAGCGTC	AATGATACGGCGACCAACCGAGATCTACACTAAGCCTTCGTCGGCAGCGTC	
Reverse primers (column tagging)					
Primer ID	Reverse Illumina adapter	Barcode (column tagging)	Nextera transposase sequence	Complete sequence (5' to 3')	
N701	CAAGCAGAAGACGGCATAACGAGAT	TGCGCTTA	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATTCGCTTAGTCTCGTGGGCTCGG	
N702	CAAGCAGAAGACGGCATAACGAGAT	CTAGTAGC	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATCTAGTAGGTCGTGGGCTCGG	
N703	CAAGCAGAAGACGGCATAACGAGAT	TTCTGACTT	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATTTCTGCTGCTCGTGGGCTCGG	
N704	CAAGCAGAAGACGGCATAACGAGAT	GCTCAGGA	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATGCTCAGAGATCTCGTGGGCTCGG	
N705	CAAGCAGAAGACGGCATAACGAGAT	AGGAGTCC	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATAGGAGTCTCGGTACGCTCGG	
N706	CAAGCAGAAGACGGCATAACGAGAT	CATGCTTA	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATCATGCTTAGTCTCGTGGGCTCGG	
N707	CAAGCAGAAGACGGCATAACGAGAT	GTAGAGAG	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATGTAGAGAGTCTCGTGGGCTCGG	
N708	CAAGCAGAAGACGGCATAACGAGAT	CCTCTCTG	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATCCTCTCTGTGCTCGTGGGCTCGG	
N709	CAAGCAGAAGACGGCATAACGAGAT	AGCGTAGC	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATAGCGTAGCGTCTCGTGGGCTCGG	
N710	CAAGCAGAAGACGGCATAACGAGAT	CAGCGTCG	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATCAGCGTCGTCTCGTGGGCTCGG	
N711	CAAGCAGAAGACGGCATAACGAGAT	TGCTCTTT	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATTGCTCTTTGTCTCGTGGGCTCGG	
N712	CAAGCAGAAGACGGCATAACGAGAT	TCCTCTAC	GTCTCGTGGGCTCGG	CAAGCAGAAGACGGCATAACGAGATTCCTCTACTGCTCGTGGGCTCGG	