

Supplementary Table 3: Oligonucleotide sequences used in this study.

name/protocol	oligo sequence	comment
3'T-fill		
BioP5_dT16VN	[Btn] AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTTTTTTTTTTTTTTTTTVN	1 st strand primer
P7_T1_for_Mpx_01	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTCGTGAT*T	P7 adapter up
P7_T1_for_Mpx_02	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTAAGCTA*T	P7 adapter up
P7_T1_for_Mpx_03	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTGTAGCC*T	P7 adapter up
P7_T1_for_Mpx_04	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTTACAAG*T	P7 adapter up
P7_T1_for_Mpx_05	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTACATCG*T	P7 adapter up
P7_T1_for_Mpx_06	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTGCCTAA*T	P7 adapter up
P7_T1_rev_Mpx_01	[Phos] ATCACGAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAGACCGATCTCGTATGCCGTCTTCTGCTTG	P7 adapter down
P7_T1_rev_Mpx_02	[Phos] TAGCTTAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAGACCGATCTCGTATGCCGTCTTCTGCTTG	P7 adapter down
P7_T1_rev_Mpx_03	[Phos] GGCTACAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAGACCGATCTCGTATGCCGTCTTCTGCTTG	P7 adapter down
P7_T1_rev_Mpx_04	[Phos] CTTGTAAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAGACCGATCTCGTATGCCGTCTTCTGCTTG	P7 adapter down
P7_T1_rev_Mpx_05	[Phos] CGATGTAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAGACCGATCTCGTATGCCGTCTTCTGCTTG	P7 adapter down
P7_T1_rev_Mpx_06	[Phos] TTAGGCAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAGACCGATCTCGTATGCCGTCTTCTGCTTG	P7 adapter down
3'Internal		
P7_Gsul_dT16	[Btn] TGC GGCCGCAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTGGAGTTT TTTTTTTTTTTTTVN	1 st strand primer
BioP7_dT16VN	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTTTTTTTTTTTTTTTTTTVN	
P5_T1_for_Mpx_01	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTTACAAGT	P5 adapter up
P5_T1_for_Mpx_02	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTACATCGT	P5 adapter up
P5_T1_for_Mpx_03	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTGCCTAAT	P5 adapter up
P5_T1_rev_Mpx_01	CTTGTAAGATCGGAAGAGCGTCTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT	P5 adapter down
P5_T1_rev_Mpx_02	CGATGTAGATCGGAAGAGCGTCTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT	P5 adapter down
P5_T1_rev_Mpx_03	TTAGGCAGATCGGAAGAGCGTCTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT	P5 adapter down
3'Bpml		
P7_Gsul_dT16	[Btn] TGC GGCCGCAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTGGAGTTT TTTTTTTTTTTTTVN	1 st strand primer with <i>Bpml</i> side
P7T1-F	CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCTT	P7 adapter up
P7-Rev	[Phos] AGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAGACCGATCTCGTATGCCGTCTTCTGCTTG [AmC7]	P7 adapter down

P5_MpxTT-F1
P5_MpxTT-F2
P5_MpxTT-F3
P5_MpxTT-R1
P5_MpxTT-R2
P5_MpxTT-R3

AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTCGTGATTT
AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTAAGCTATT
AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCTGTAGCCTT
[Phos] ATCACGAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT [AmC7]
[Phos] TAGCTTAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT [AmC7]
[Phos] GGCTACAGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGTAGATCTCGGTGGTCGCCGTATCATT [AmC7]

P5 adapter up
P5 adapter up
P5 adapter up
P5 adapter down
P5 adapter down
P5 adapter down

RNAseq

mp25PE2
mp40PE2
mp11PE2
mp25PE1
mp40PE1
mp11PE1

ACACTCTTTCCCTACACGACGCTCTTCCGATCTTCCGTC*T
ACACTCTTTCCCTACACGACGCTCTTCCGATCTGAAATGA*T
ACACTCTTTCCCTACACGACGCTCTTCCGATCTTATAGAT*T
[Phos] GACGGAAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAG
[Phos] TCATTTCAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAG
[Phos] ATCTATAGATCGGAAGAGCGGTTTCAGCAGGAATGCCGAG

PE adapter up
PE adapter up
PE adapter up
PE adapter down
PE adapter down
PE adapter down

6 nt barcodes are underlined
[Btn] biotinylated nucleotide
[AmC7] 3'Amine C7
[Phos] 5'Phosphorylation
* s-linkage between the two bases