

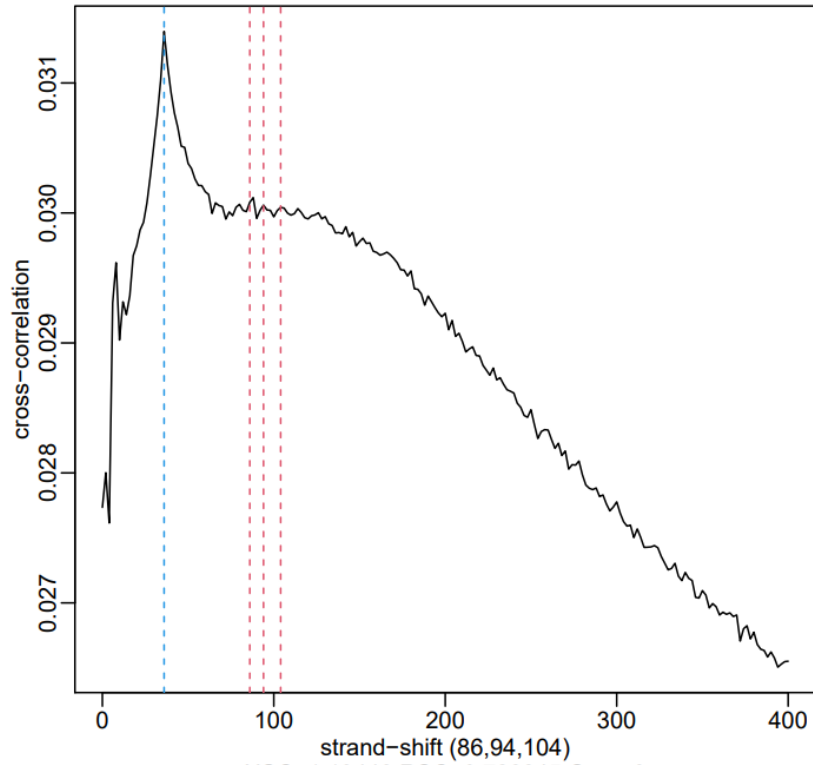
Datasets stats

Species	#	Raw fragments	Read Length	Unique	Unique dedup	Multi	Fraction aligned	Complexity	MACS2 NumPeaks	MACS2 RPM	MACS2 PseudoRep NumPeaks	MACS2 RPM	NSC	RSC	QC
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R1-CACO-A-NC-AGK-t78B3aD261g-H3K4me1	37,293,259	1x36	31,937,424			0.86	0.97					1.134	0.729	0
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R2-CACO-B-NC-AGK-tD89CaFF1Bg-H3K9me3	23,981,741	1x36	18,413,862			0.77	0.98					1.174	0.276	-1
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R3-CACO-C-NC-AGK-t6CCDa5266g-H3K27ac	21,955,854	1x36	19,136,003			0.87	0.98					1.130	1.083	1
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R4-CACO-D-NC-AGK-tAF48aFCE3g-H3K79me2	22,183,741	1x36	18,681,799			0.84	0.97					1.039	0.401	-1
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R5-CACO-E-NC-AGK-t6CE8a86E5g-H3K4me3	24,298,611	1x36	20,731,022			0.85	0.95					1.181	0.970	0
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R6-CACO-F-NC-AGK-tA3D6aE30Cg-H3K27me3	20,626,793	1x36	17,229,178			0.84	0.98					1.073	0.514	0
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R7-CACO-G-NC-AGK-t590Da1B2Eg-Control	23,350,393	1x36	18,844,614			0.81	0.98					1.073	0.191	-2
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R1-CACO-A-NC-AGK-t78B3aD261g-H3K4me1	37,293,259	2x76	45,473,866	45,039,908		0.61	0.97	43,771	76,861					
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R2-CACO-B-NC-AGK-tD89CaFF1Bg-H3K9me3	23,981,741	2x76	31,921,932	31,612,504		0.67	0.97	11,703	29,270					
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R3-CACO-C-NC-AGK-t6CCDa5266g-H3K27ac	21,955,854	2x76	32,053,496	31,769,454		0.73	0.97	55,121	186,464					
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R4-CACO-D-NC-AGK-tAF48aFCE3g-H3K79me2	22,183,741	2x76	33,537,842	33,210,286		0.76	0.97	90,648	358,293					
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R5-CACO-E-NC-AGK-t6CE8a86E5g-H3K4me3	24,298,611	2x76	29,449,394	29,103,648		0.61	0.94	56,418	385,231					
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R6-CACO-F-NC-AGK-tA3D6aE30Cg-H3K27me3	20,626,793	2x76	27,533,530	27,282,194		0.67	0.98	73,124	141,829					
Bassariscus_sumichrasti_HiC	DNAZ-CACO-PFIB-R7-CACO-G-NC-AGK-t590Da1B2Eg-Control	23,350,393	2x76	30,632,000	30,353,050		0.66	0.98							

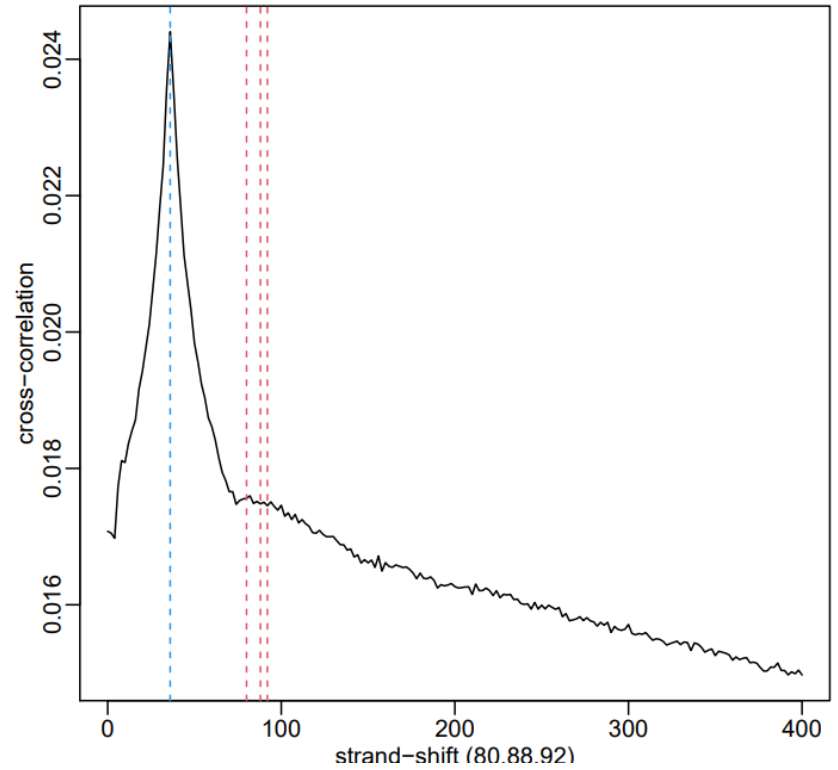
Note: the 1x36mers alignment is done in order to run cross-correlation QC after that (cannot run CC on PE reads, or reads that are too long)

Cross-correlation

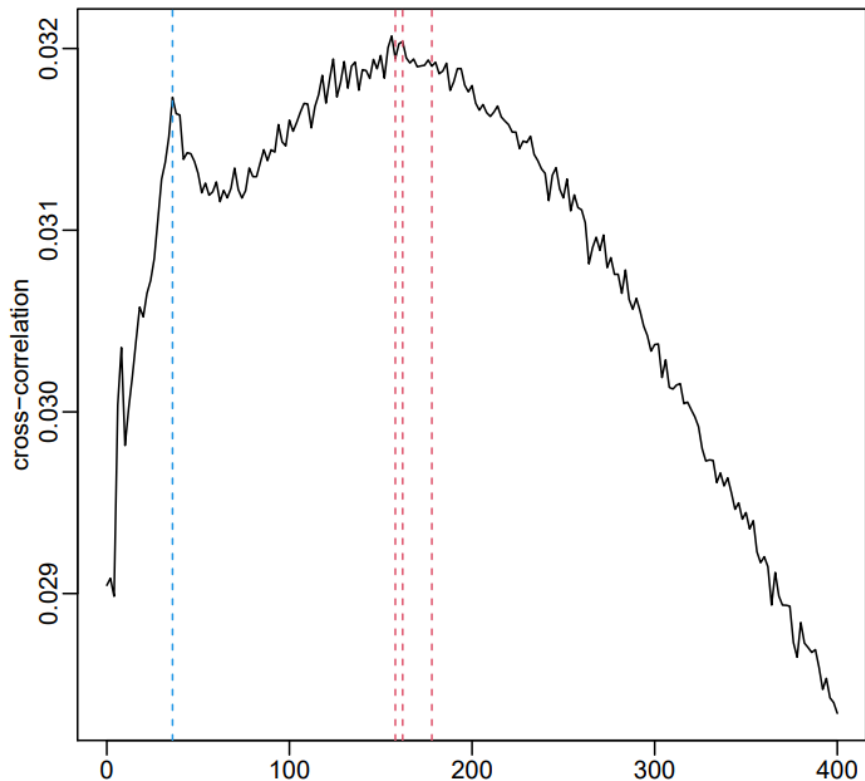
`\CO-A-NC-AKG-t78B3aD261g-H3K4me1.1x36mers.Bassarisc`



`\CO-B-NC-AKG-tD89CaFF1Bg-H3K9me3.1x36mers.Bassarisc`

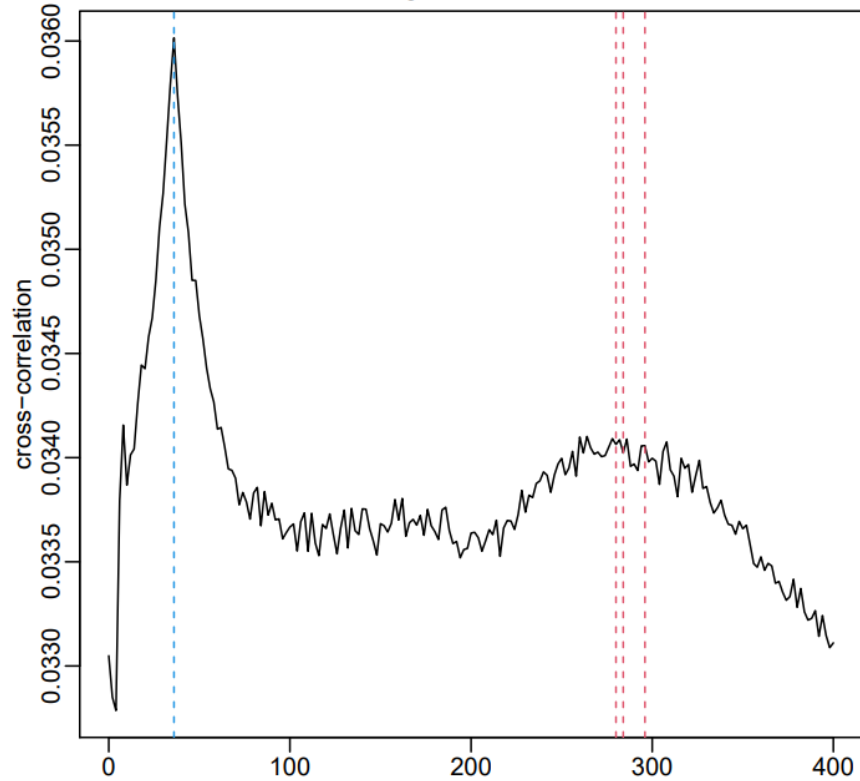


\ACO-C-NC-AKG-t6CCDa5266g-H3K27ac.1x36mers.Bassarisc



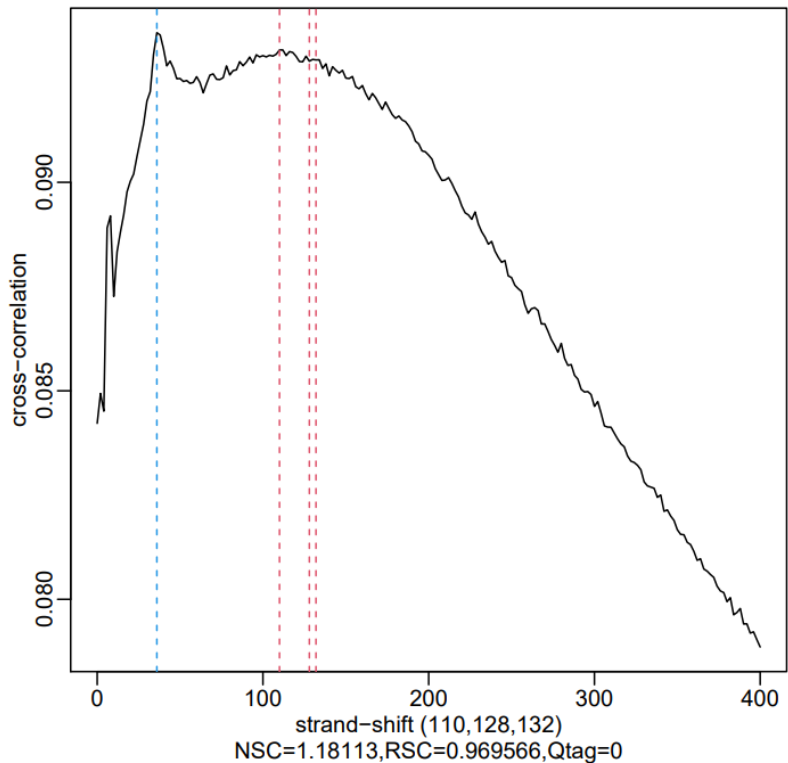
strand-shift (158,162,178)
NSC=1.12958,RSC=1.08318,Qtag=1

CO-D-NC-AKG-tAF48aFCE3g-H3K79me2.1x36mers.Bassarisc

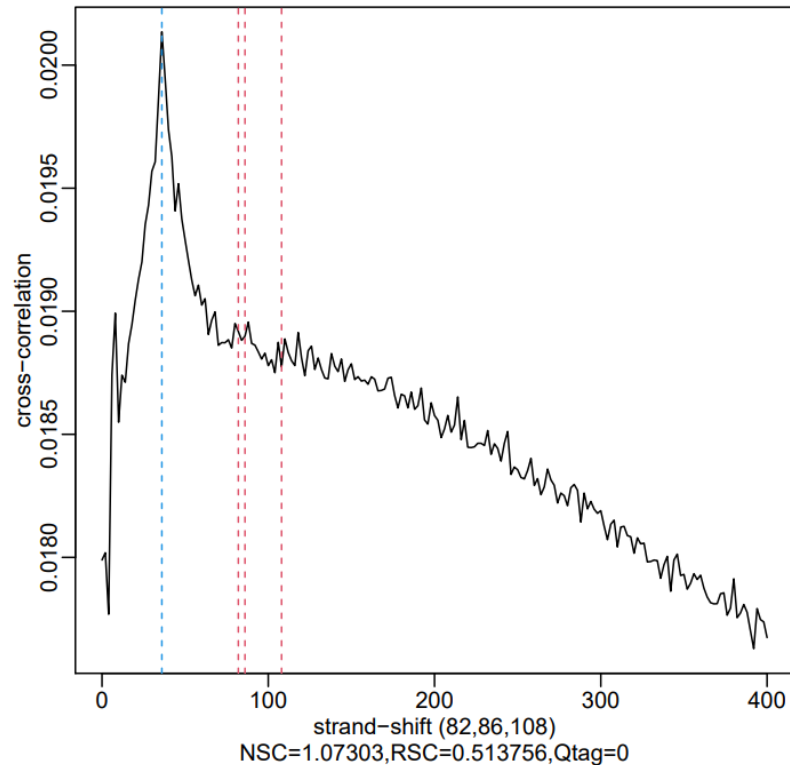


strand-shift (280,284,296)
NSC=1.03947,RSC=0.400831,Qtag=-1

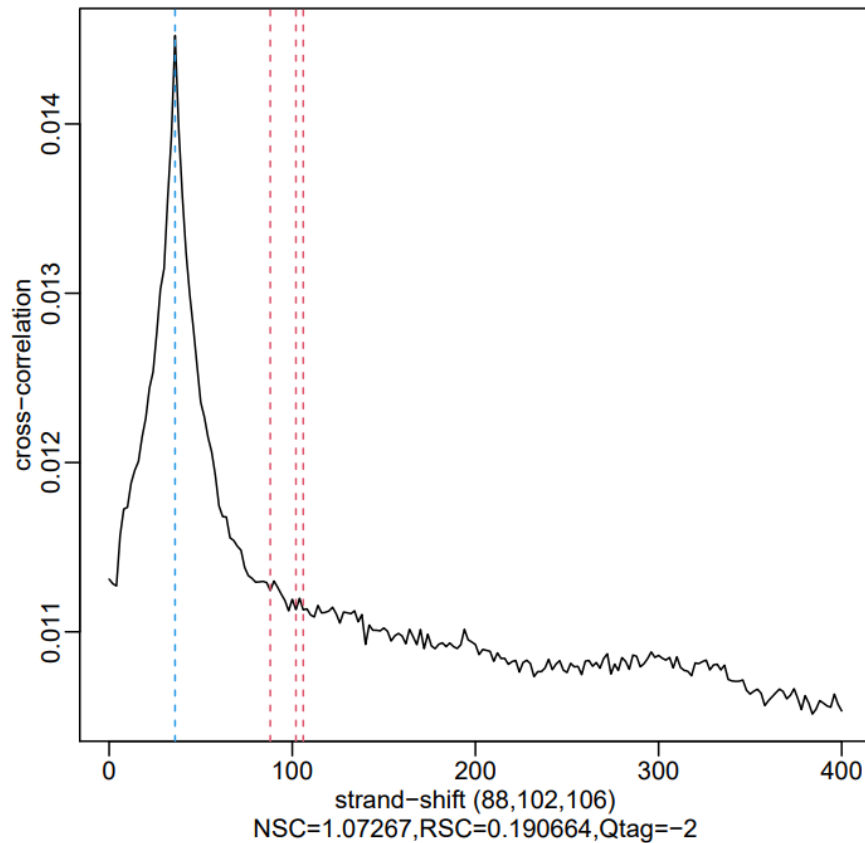
\CO-E-NC-AKG-t6CE8a86E5g-H3K4me3.1x36mers.Bassarisc



CO-F-NC-AKG-tA3D6aE30Cg-H3K27me3.1x36mers.Bassarisc



ACO-G-NC-AKG-t590Da1B2Eg-Control.1x36mers.Bassarisc

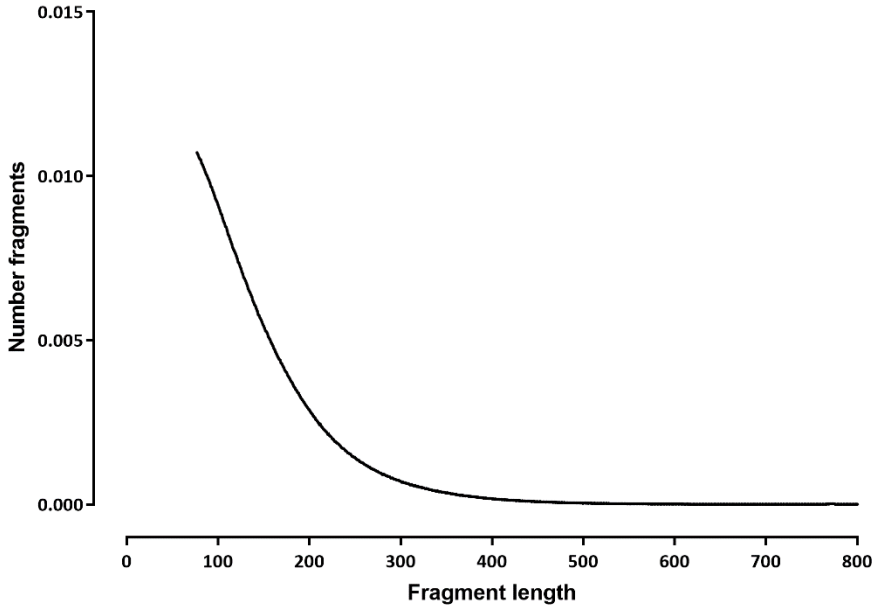


Summary:

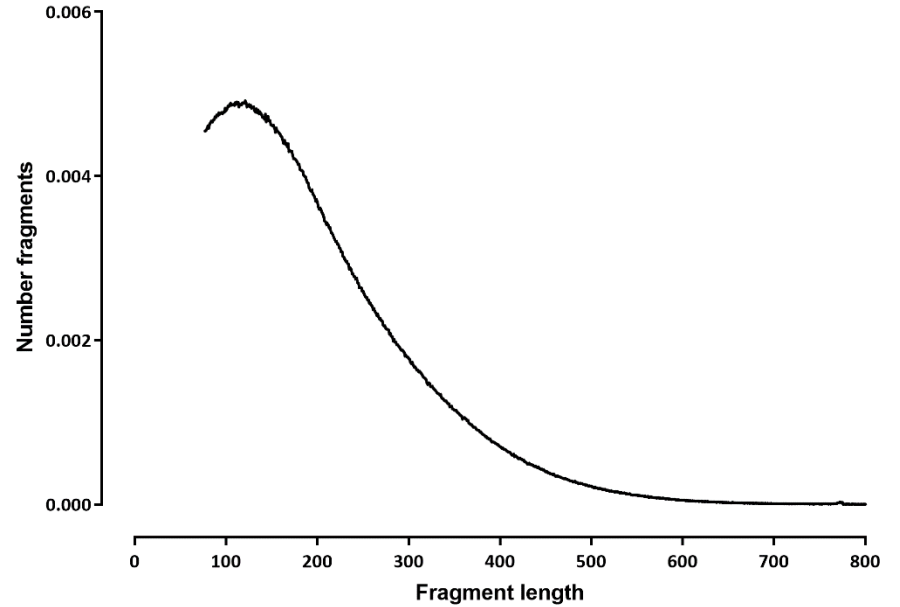
- The phantom peak does not look as strong as it is in humans and mouse
- Likely this is because the repeat structure of the cacomistle assembly isn't the same
- This makes the plots look different than usual
- But still, it looks like the point-source marks (H3K4me1, H3K4me3, H3K27ac) worked
- The broad marks usually do not show strong CC peaks, so those CC plots are OK too
- The control does not look to have the occasionally seen artifactual read clustering, which is good too

Fragment length

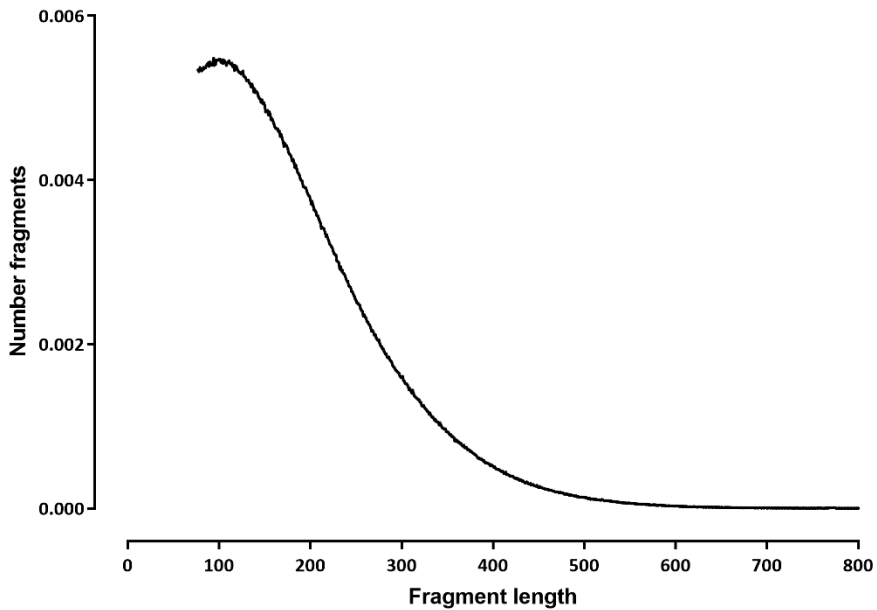
DNAZ-CACO-PFIB-R1-CACO-A-NC-ACG-t78B3aD261g-H3K4me1



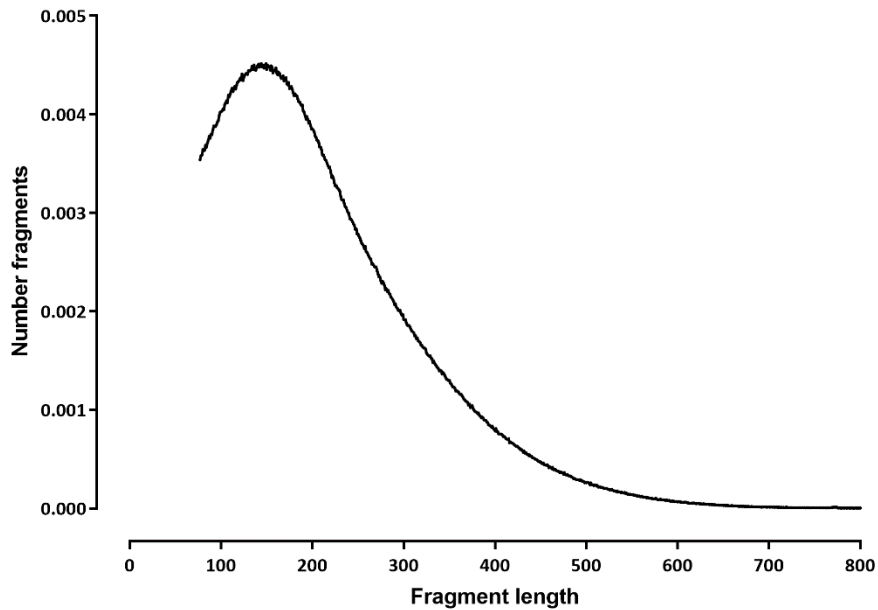
DNAZ-CACO-PFIB-R2-CACO-B-NC-ACG-tD89CaFF1Bg-H3K9me3



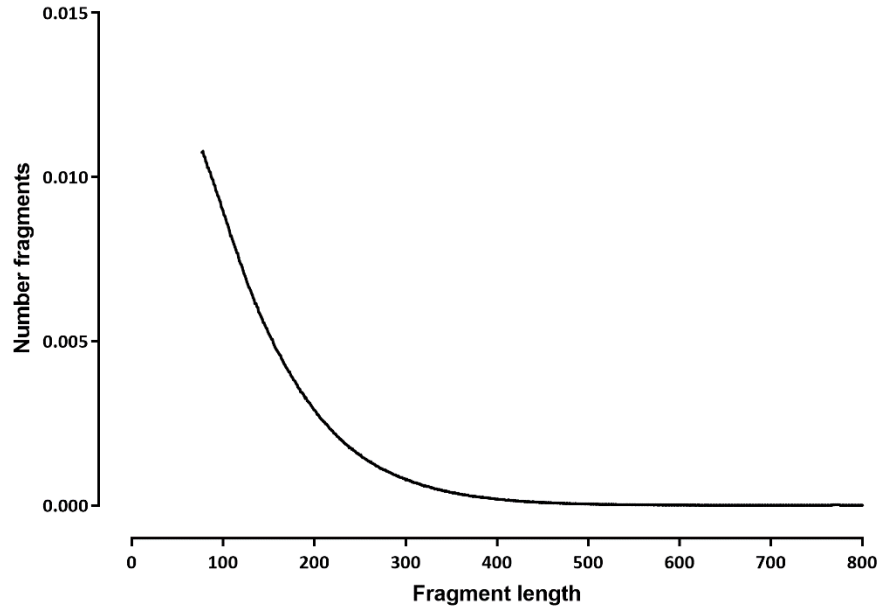
DNAZ-CACO-PFIB-R3-CACO-C-NC-AKG-t6CCDa5266g-H3K27ac



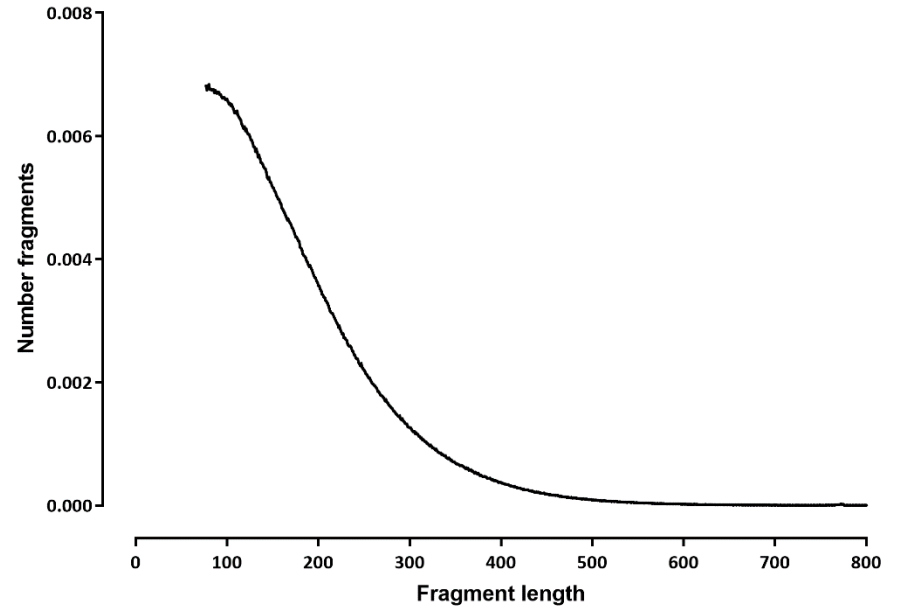
DNAZ-CACO-PFIB-R4-CACO-D-NC-AKG-tAF48aFCE3g-H3K79me2



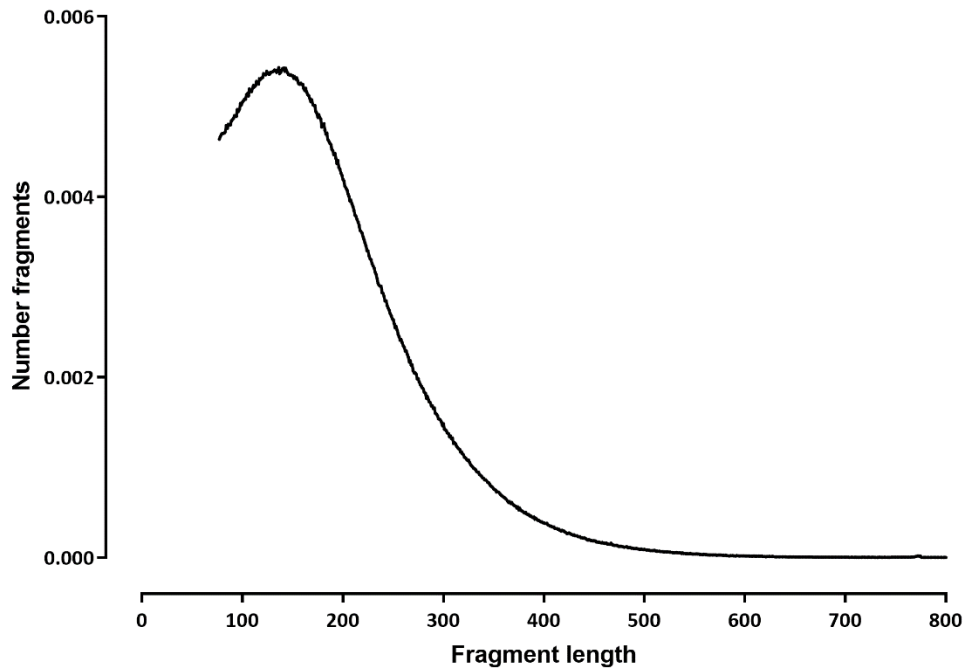
DNAZ-CACO-PFIB-R5-CACO-E-NC-AKG-t6CE8a86E5g-H3K4me3



DNAZ-CACO-PFIB-R6-CACO-F-NC-AKG-tA3D6aE30Cg-H3K27me3

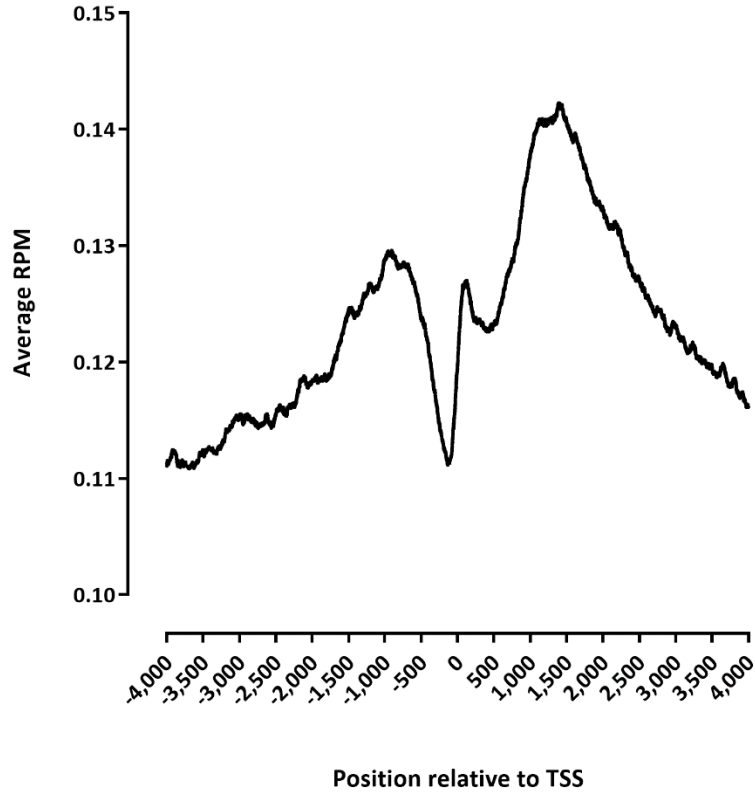


DNAZ-CACO-PFIB-R7-CACO-G-NC-AKG-t590Da1B2Eg-Control

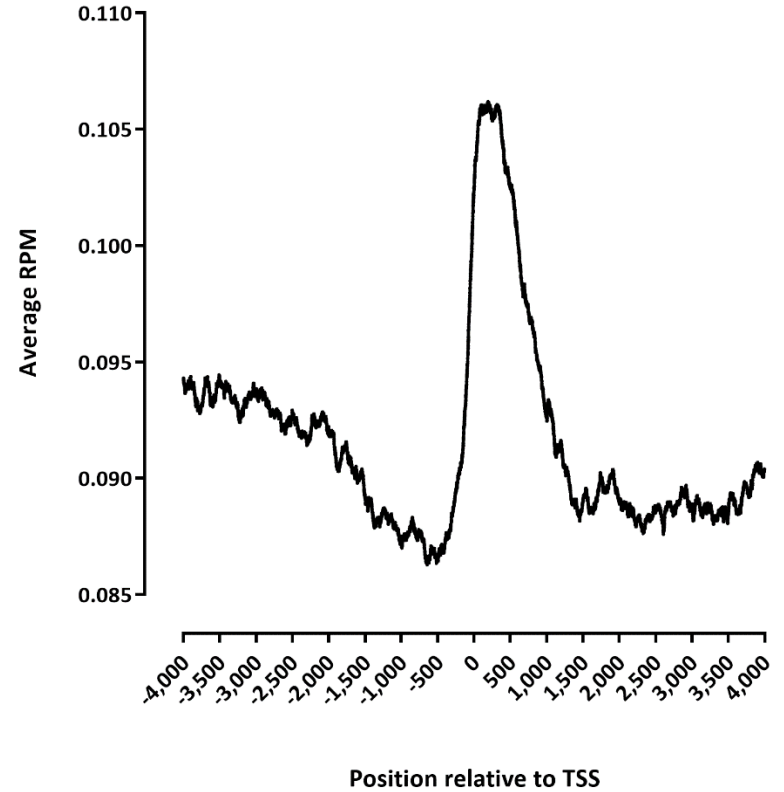


TSS profiles

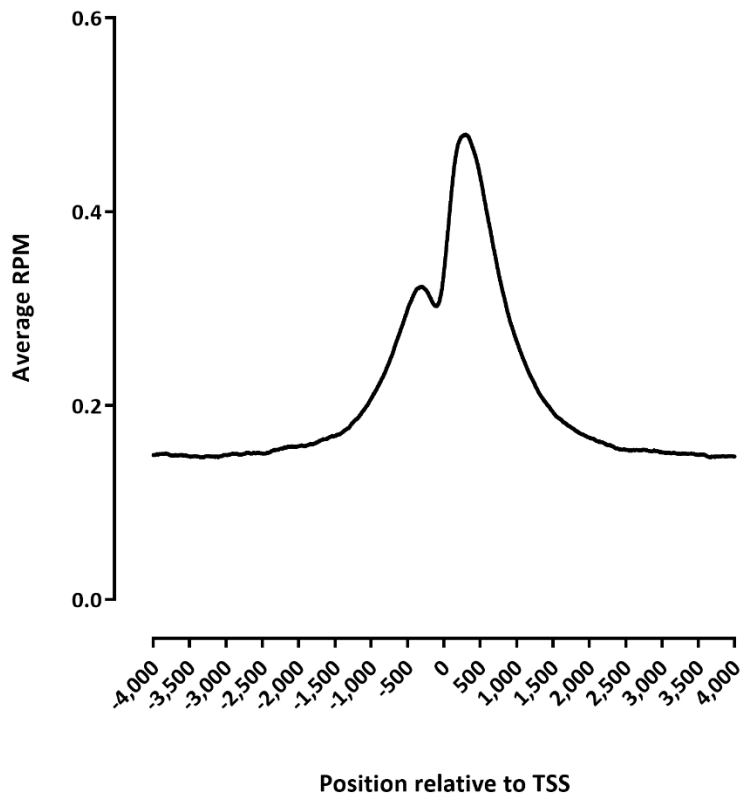
DNAZ-CACO-PFIB-R1-CACO-A-NC-AKG-t78B3aD261g-H3K4me1



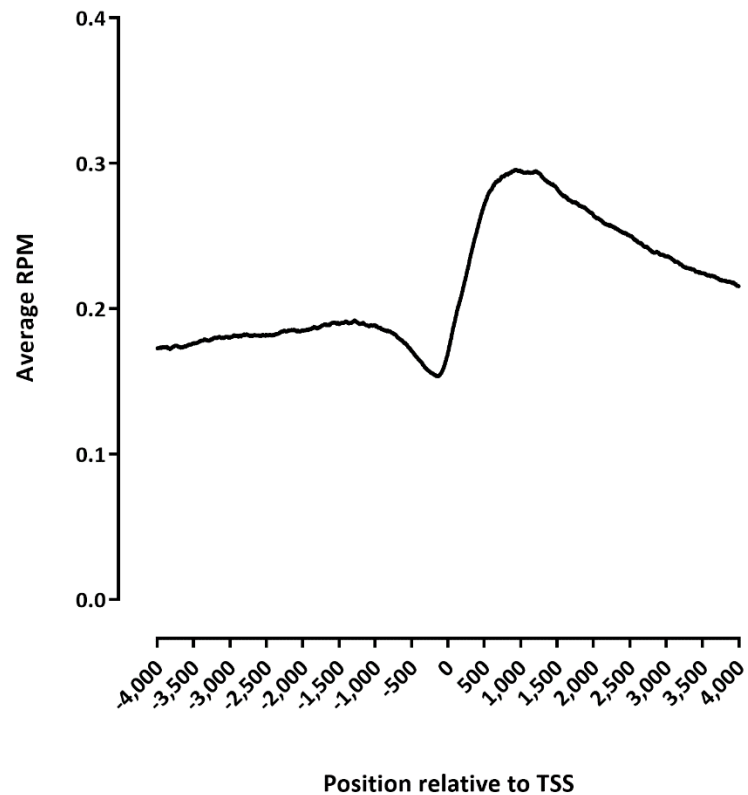
DNAZ-CACO-PFIB-R2-CACO-B-NC-AKG-tD89CaFF1Bg-H3K9me3



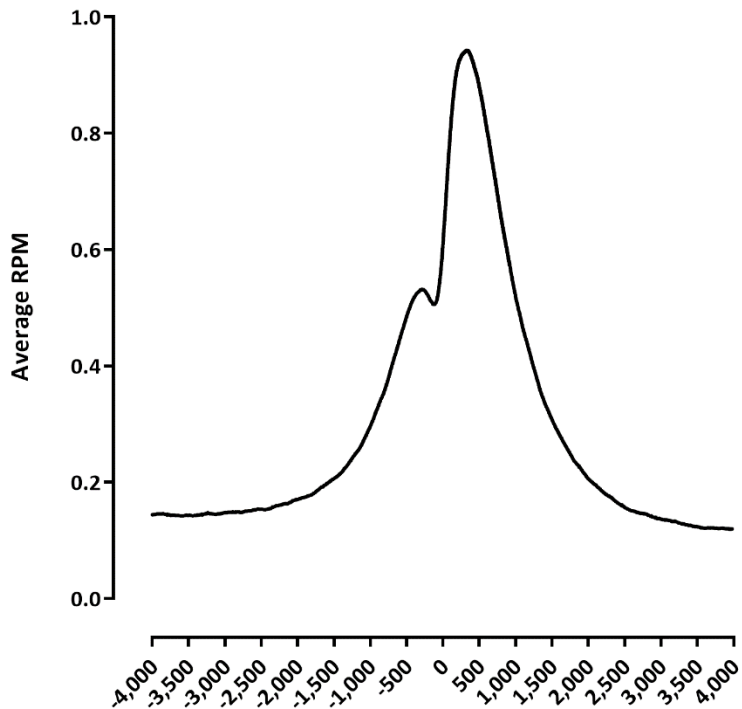
DNAZ-CACO-PFIB-R3-CACO-C-NC-AKG-t6CCDa5266g-H3K27ac



DNAZ-CACO-PFIB-R4-CACO-D-NC-AKG-tAF48aFCE3g-H3K79me2

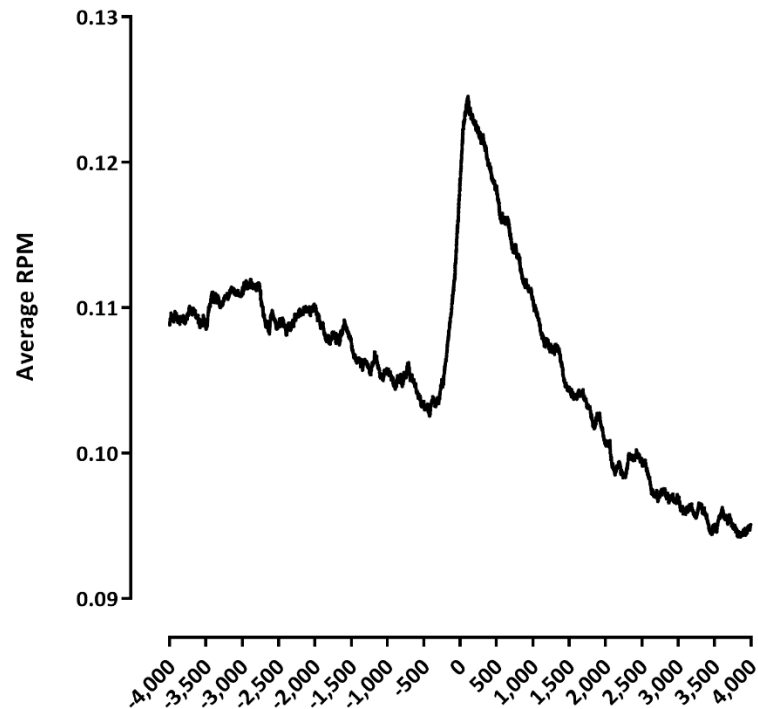


DNAZ-CACO-PFIB-R5-CACO-E-NC-AKG-t6CE8a86E5g-H3K4me3



Position relative to TSS

DNAZ-CACO-PFIB-R6-CACO-F-NC-AKG-tA3D6aE30Cg-H3K27me3



Position relative to TSS

DNAZ-CACO-PFIB-R7-CACO-G-NC-AKG-t590Da1B2Eg-Control

