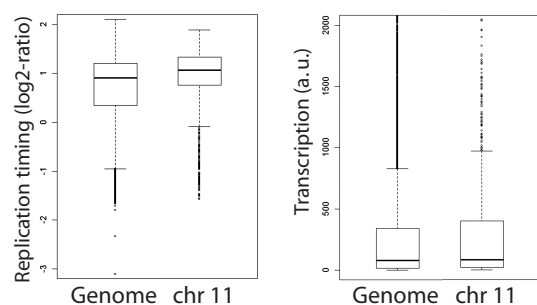
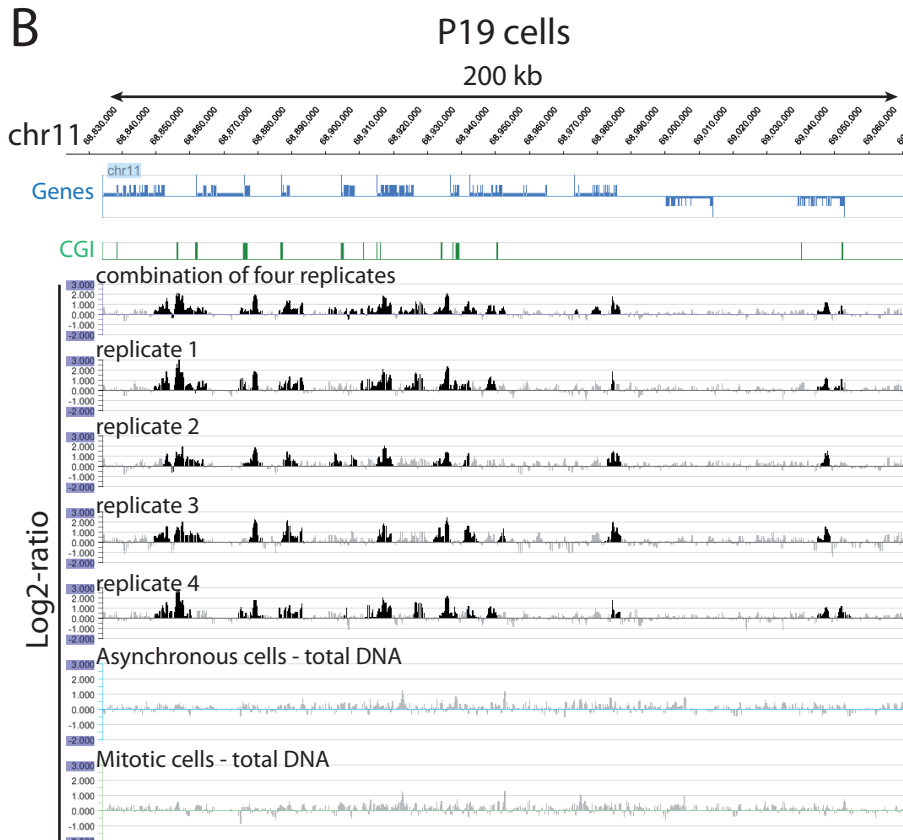


Supplementary Figure1

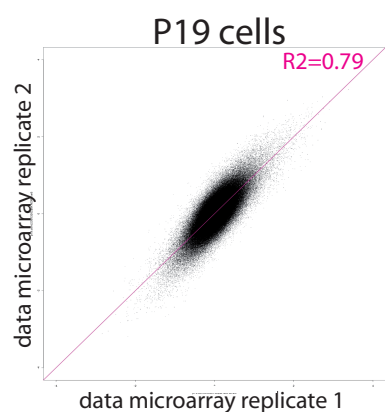
A



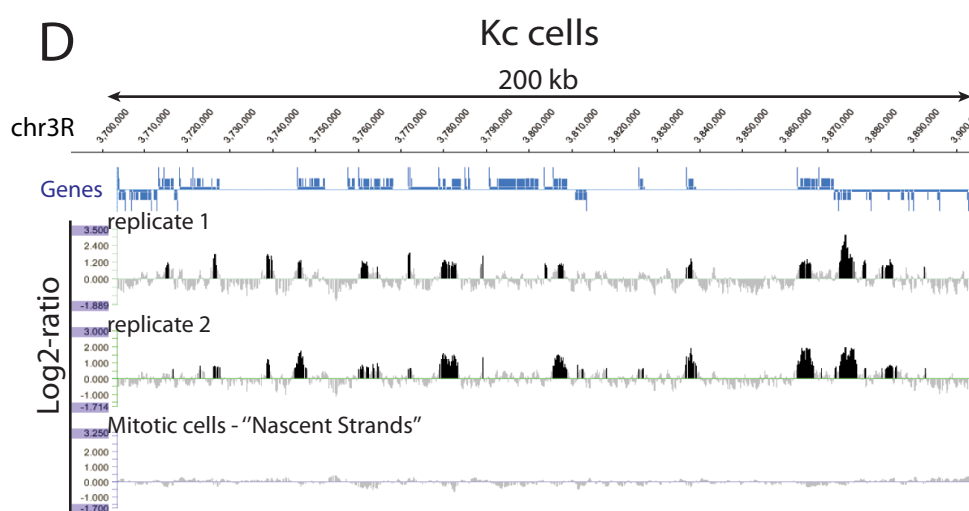
B



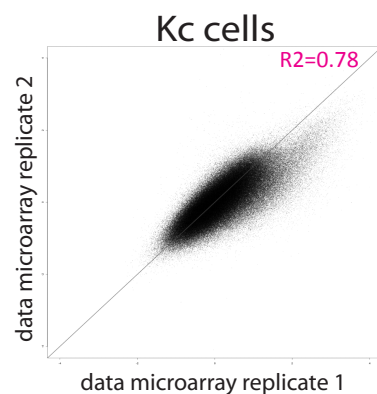
C



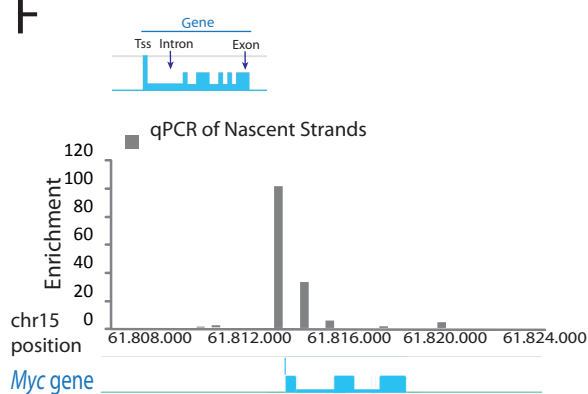
D



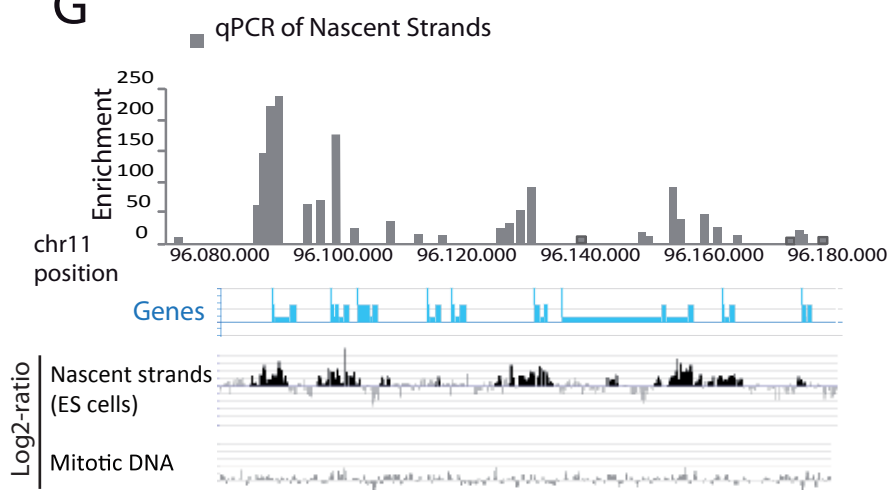
E



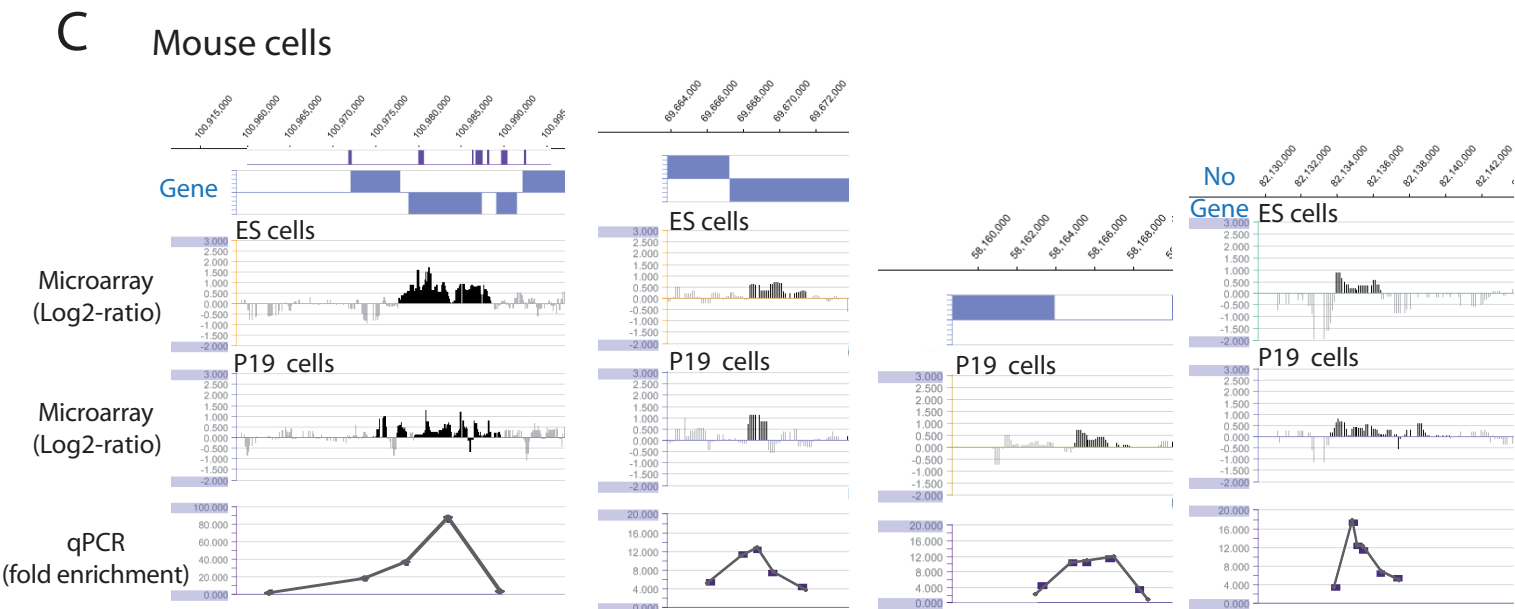
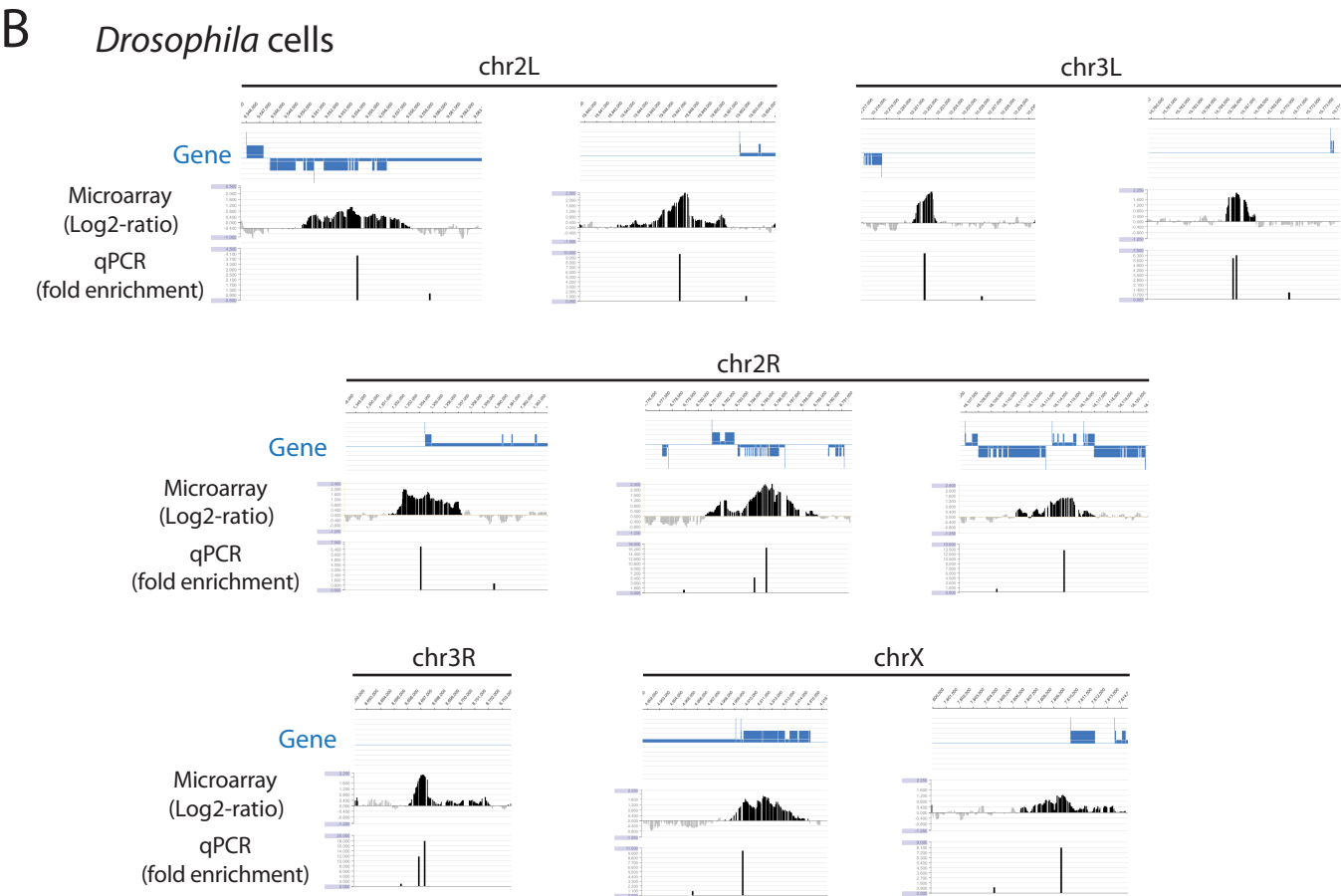
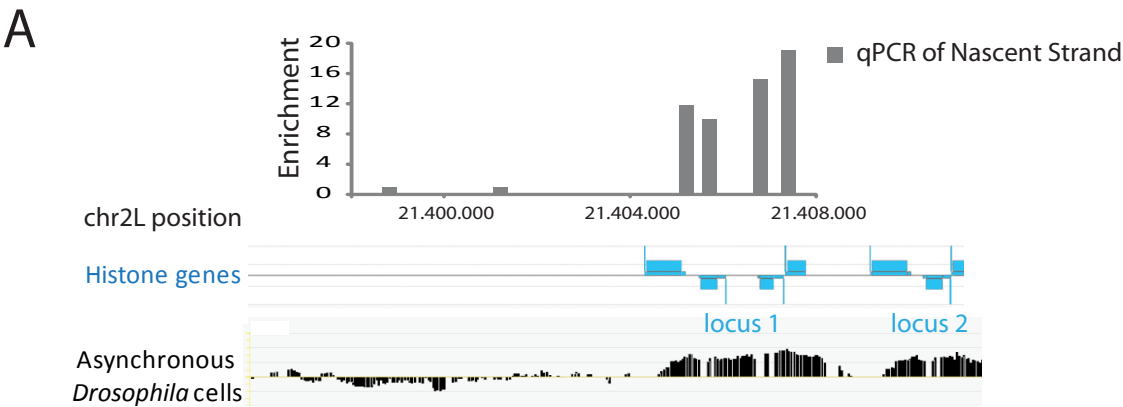
F



G

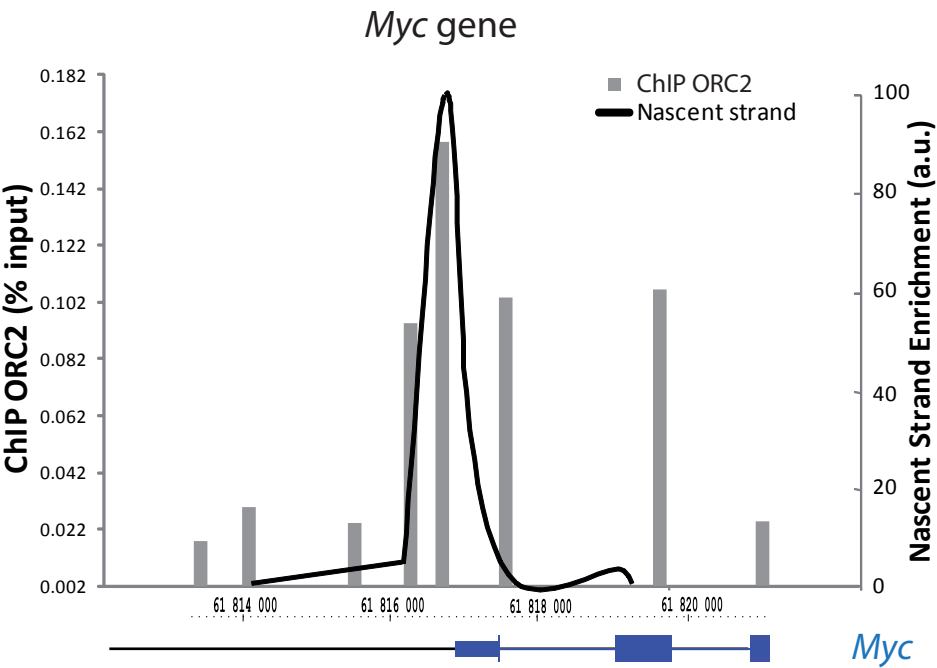


Supplementary Figure 2

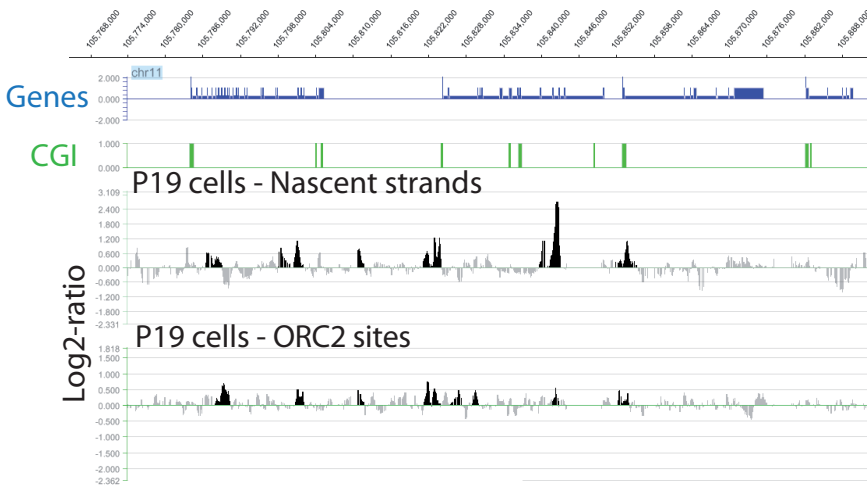


Supplementary Figure 3

A

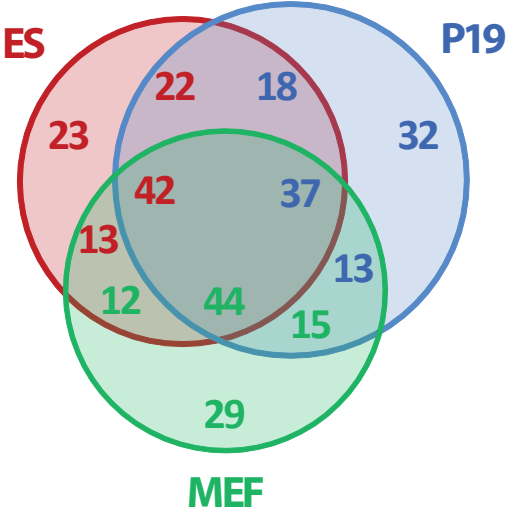


B

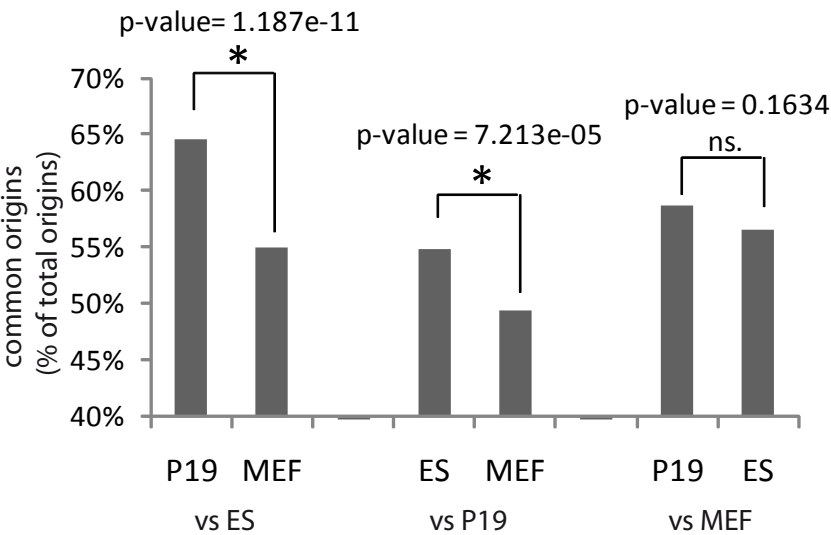


Supplementary Figure 4

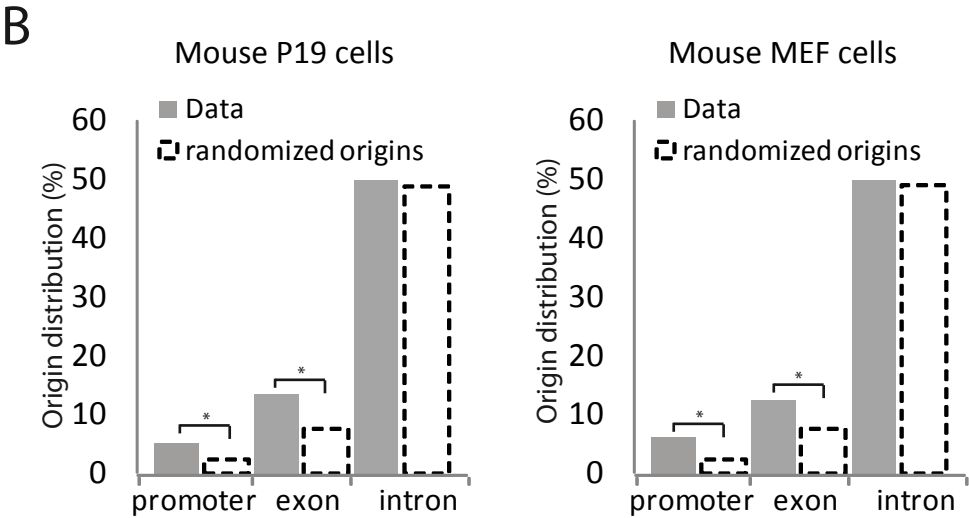
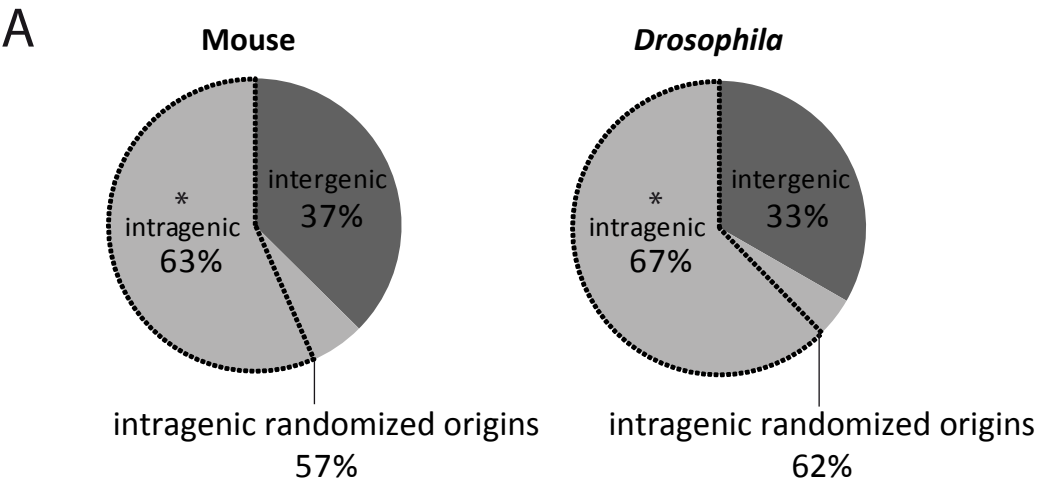
A



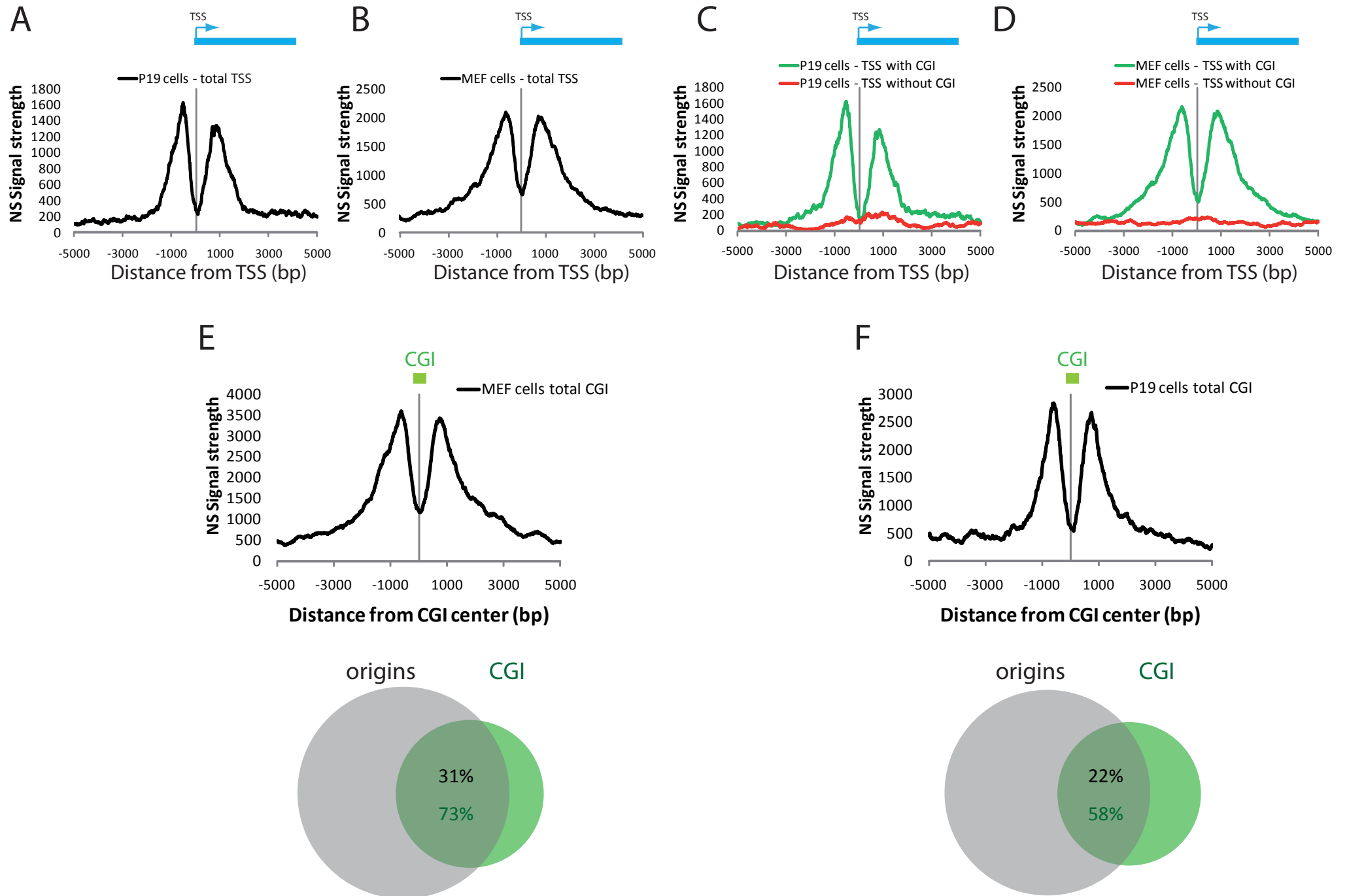
B



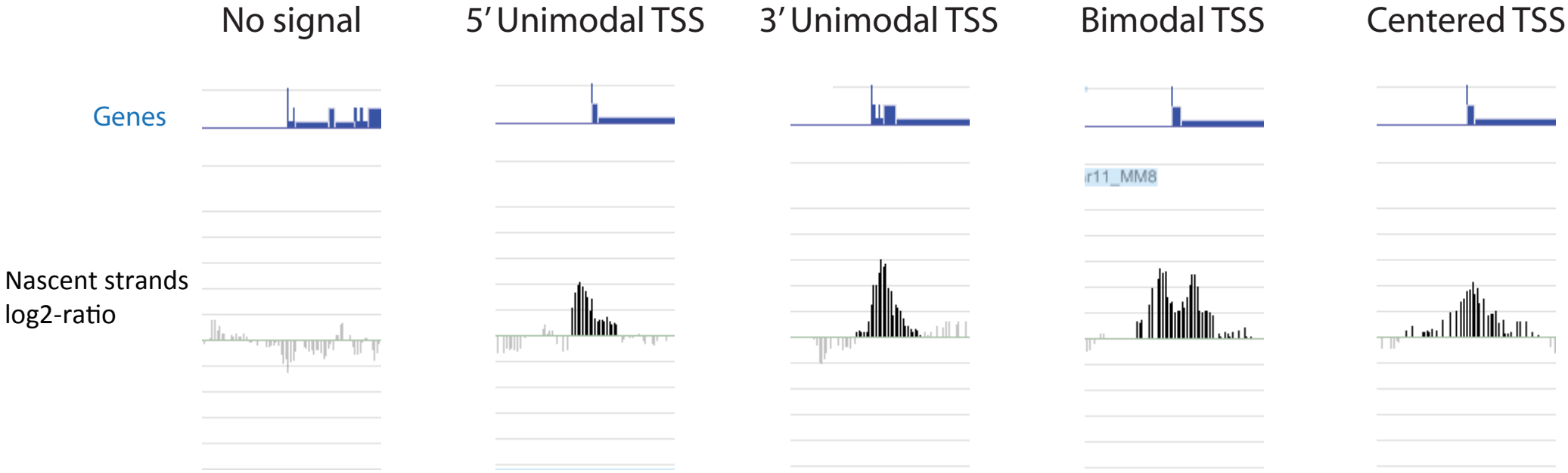
Supplementary Figure 5



Supplementary Figure 6



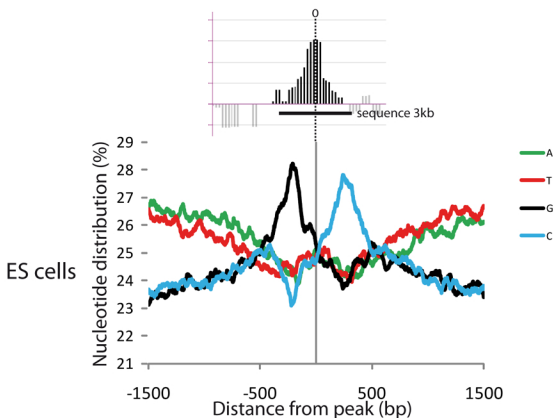
Supplementary Figure 7



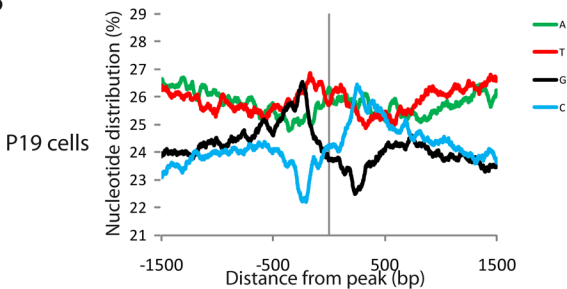
MEF	-	10.5%	8.3%	76.9%	4.2%
P19	-	9.1%	9.9%	76.8%	4.2%

Supplementary Figure 8

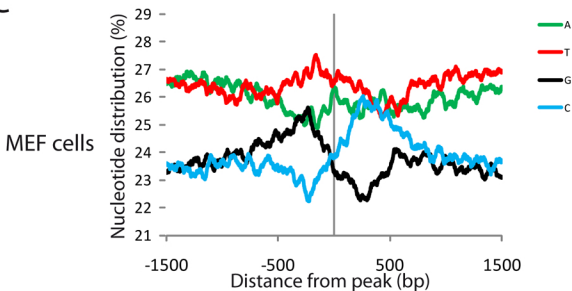
A



B



C

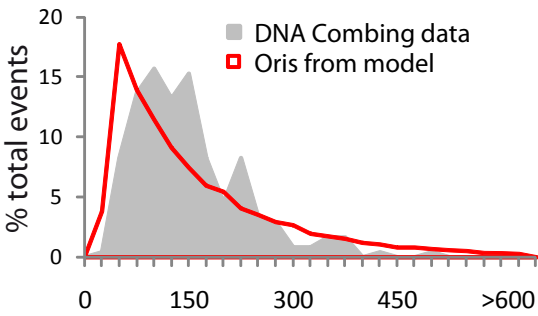


Supplementary Figure 9

A

Mouse ES cells

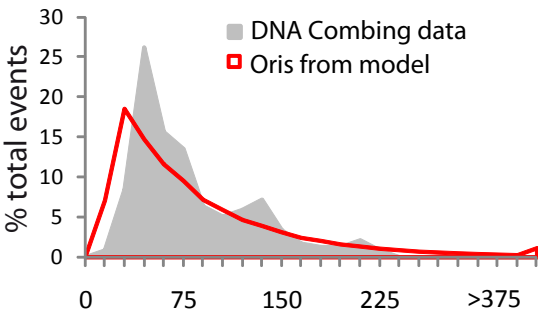
Random Ori firing



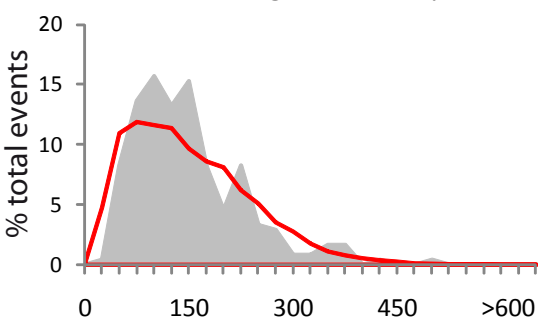
B

Drosophila Kc cells

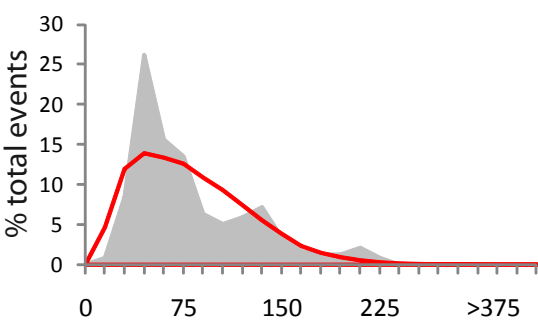
Random Ori firing



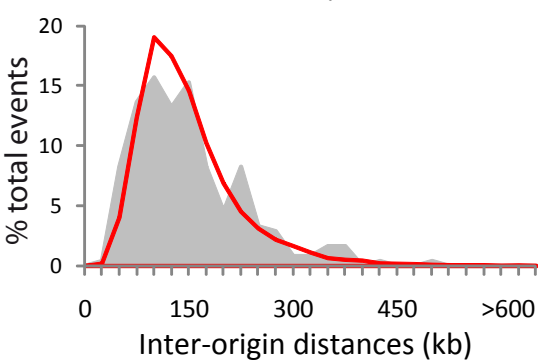
Increasing Ori efficiency



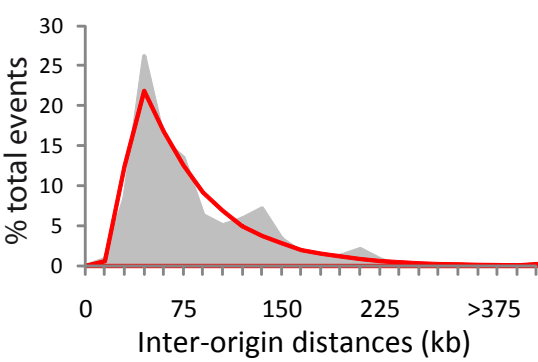
Increasing Ori efficiency



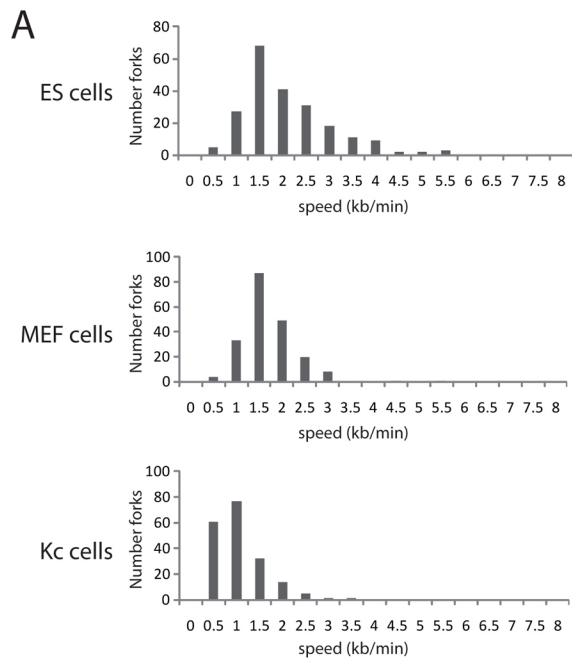
Flexible replicon



Flexible replicon



Supplementary Figure 10



Speed Fork (kb/min)	ES cells		MEF cells		Kc cells	
	Mean	Median	Mean	Median	Mean	Median
	1.47	1.37	1.77	1.57	0.81	0.66

