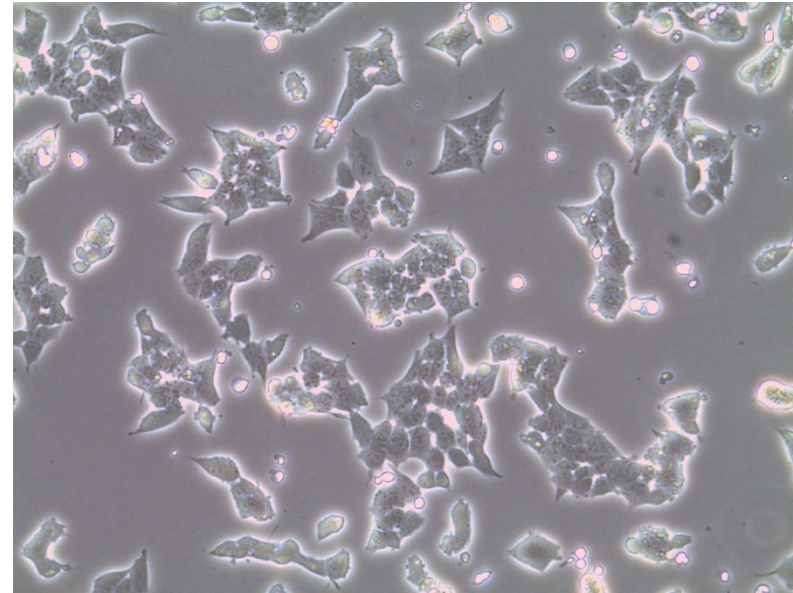


KBM-7 cells



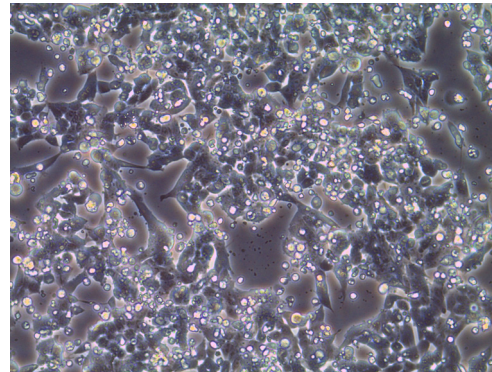
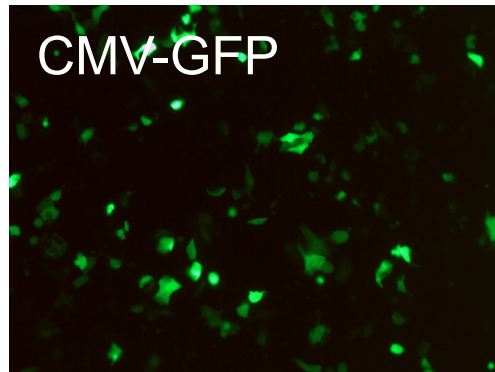
HAP1 cells

Supplementary Figure 1

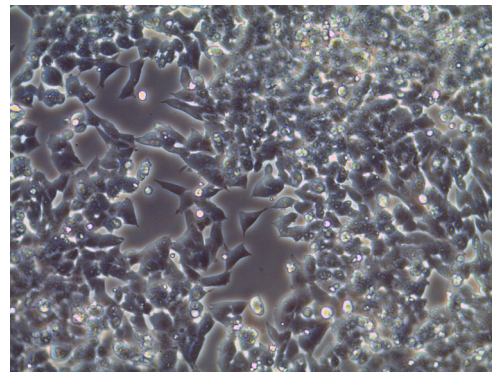
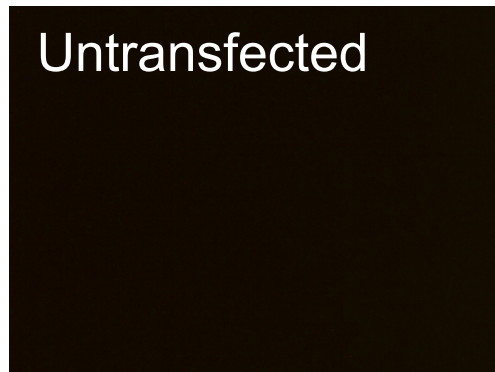
GFP

Brightfield

FACS
(not shown)

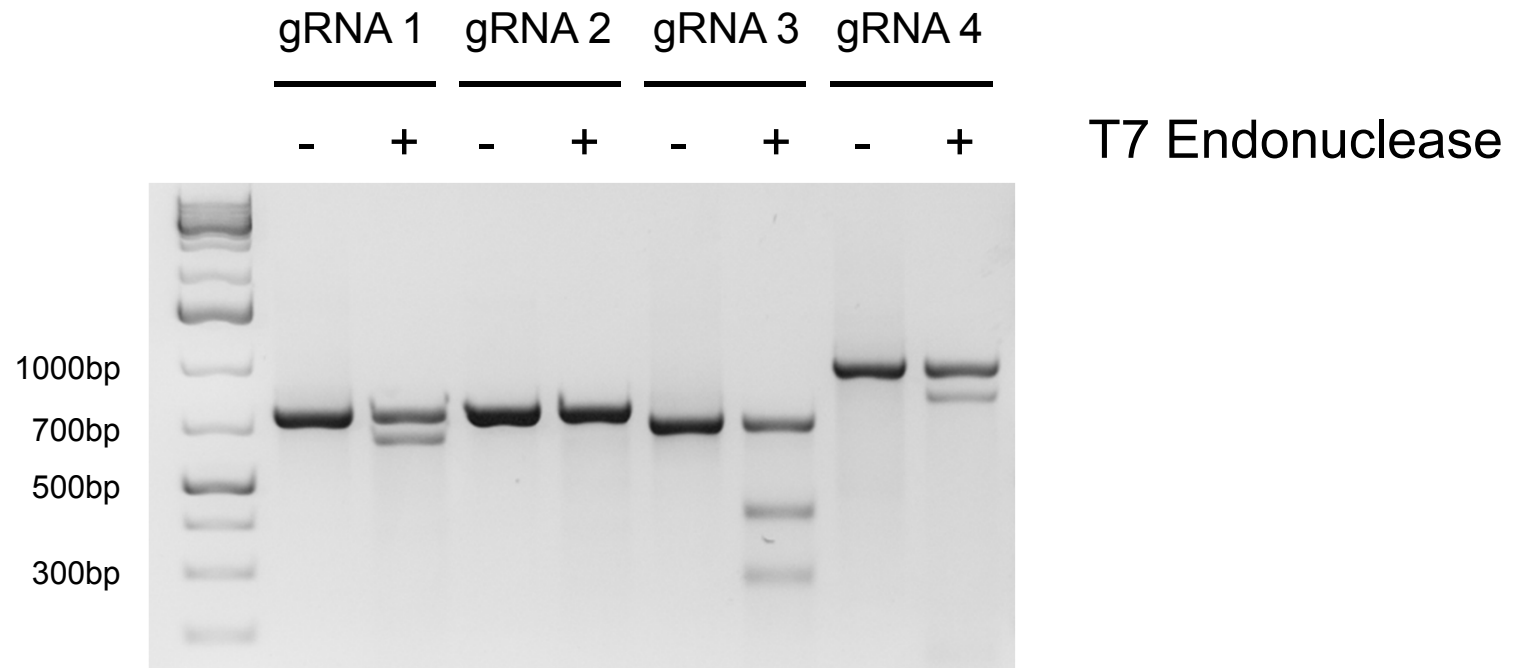


11.2%

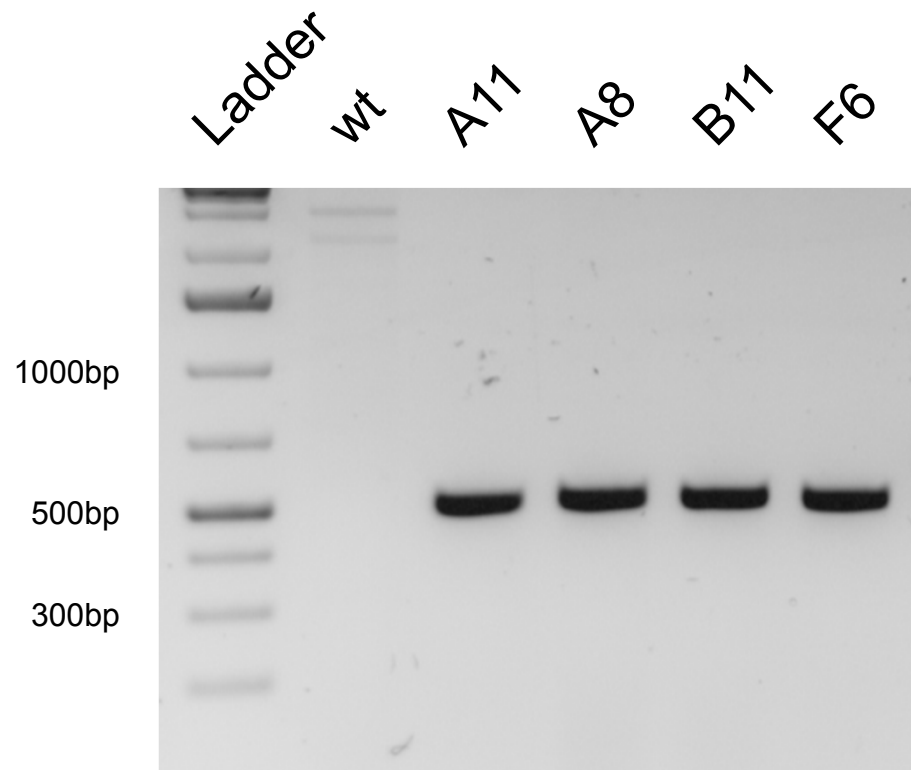


0.3%

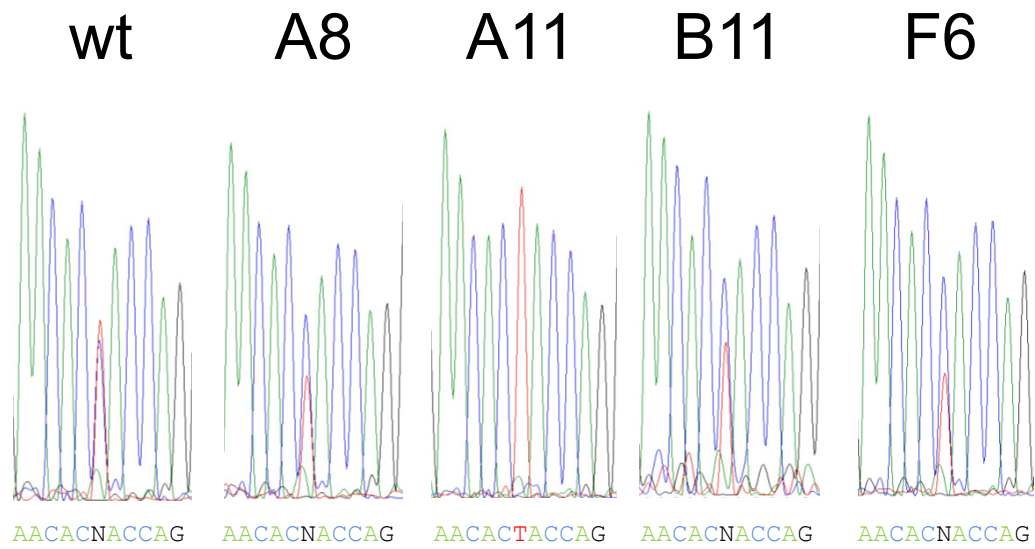
Supplementary Figure 2



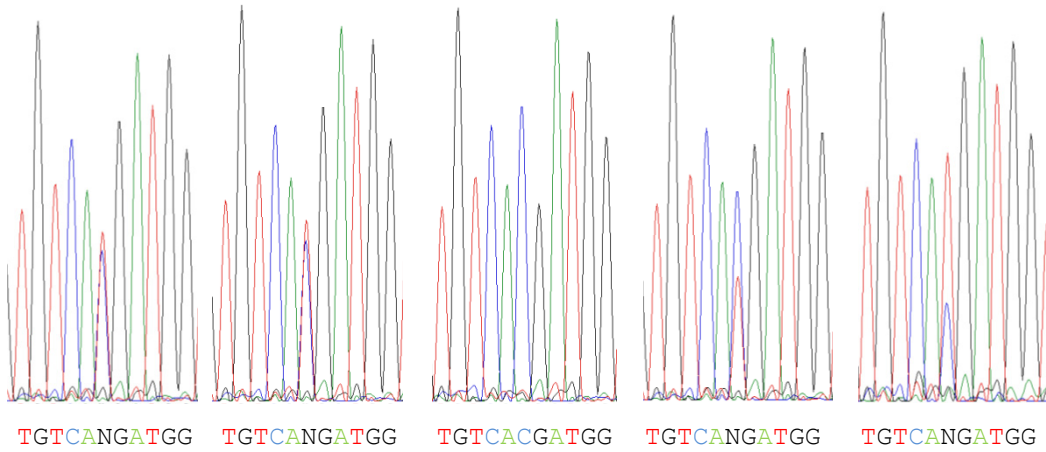
Supplementary Figure 3



Supplementary Figure 4

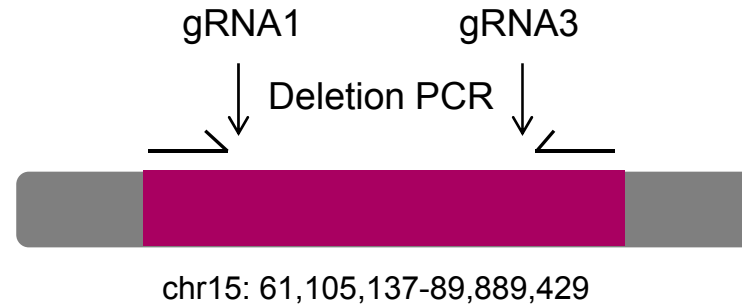


SNP
Chr15: 61,113,214



SNP
Chr15: 89,868,948

Supplementary Figure 5



(A)

Clone A11

```
CCAGAAGGGGCATGTCCTATCATTTGTAATAAAAAAGGACACTGC
CAGTTTCTGAACTATAGTGACACCACCAAGGCAACGGTAGATGT
GGCTGAGAGCCCTGCCCTTGAGCCTTTTGGCTTGAGGCTTCATG
CCAGCATCCACGGAGGCACAGCTTCAGGGTCCCCTGGTGGCCCAG
CCACTGGGCAAGAGAGGATGCTCTTTTCCATCCCCTGGGTCTGGC
TAGAGGCCCTGGAGGGAGTCAGGGTCCTTGCCAAAGAGCAGCAG
AGCCTGCCGTGAAGTGAAGGCTTCTGAAAGAAATGAGTCTGAAT
CCTGGCTCCACCTGTCCAAACTGTGTGACCTTAAGCAAATTACA
AGGGAGCTTGCTGTGCCTCAGCATCCTTGTCTCTATAATGGGAA
GGTGATAGCCTCATAGGGGGCTTGTGAGGTTT
```

chr15: 61105068-61105145
chr15: 89889434-89889783

(B)

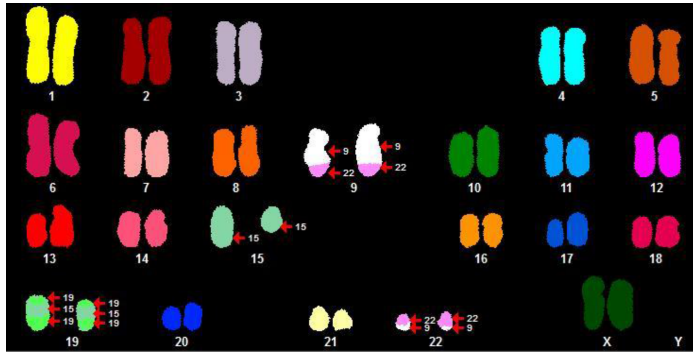
Clone E9

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CCAGAAGGGGCATGTCCTATCATTTGTAATAAAAAAGGACACTGC
CAGTTTCTGAACTATAGTGACACCACCAAGGCAACGGGACCGGT
AGATGTGGCTGAGAGCCCTGCCCTTGAGCCTTTTGGCTTGAGGC
TTCATGCCAGCATCCACGGAGGCACAGCTTCAGGGTCCCCTGGTG
GCCCAGCCACTGGGCAAGAGAGGATGCTCTTTTCCATCCCCTGGG
TCTGGCTAGAGGCCCTGGAGGGAGTCAGGGTCCTTGCCAAAGAG
CAGCAGAGCCTGCCGTGAAGTGAAGGCTTCTGAAAGAAATGAGT
CTGAATCCTGGCTCCACCTGTCCAAACTGTGTGACCTTAAGCAA
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TGGGAAGGTGATAGCCTCATAGGGGGCTTGTGAGGTTT
```

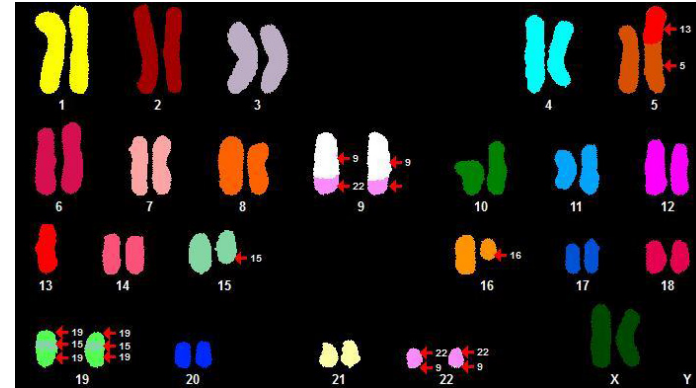
chr15: 61105068-61105151
chr15: 89889434-89889783

Supplementary Figure 6

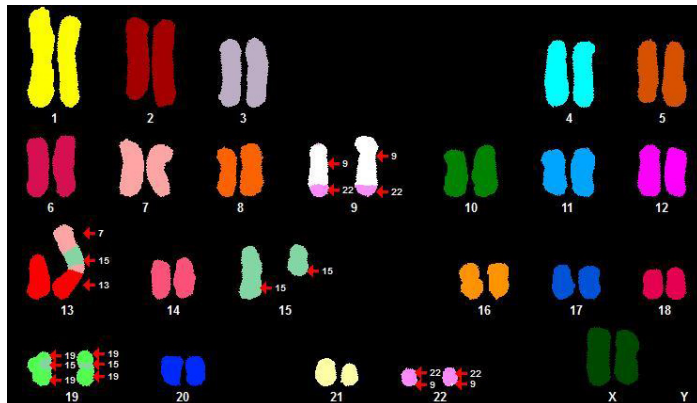
Clone A8



Clone F6



Clone B11



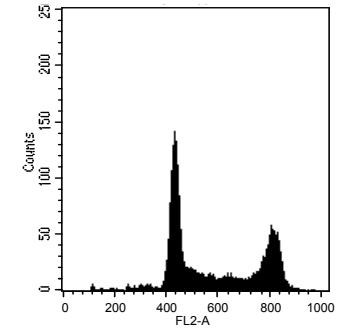
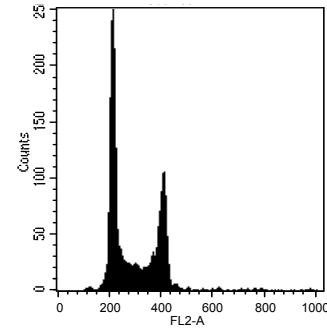
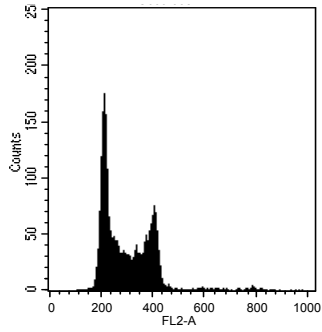
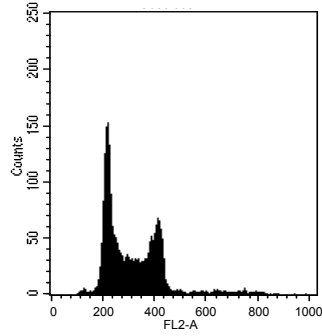
A11

E9

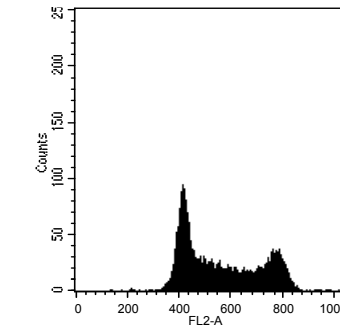
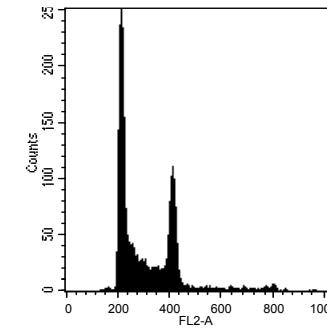
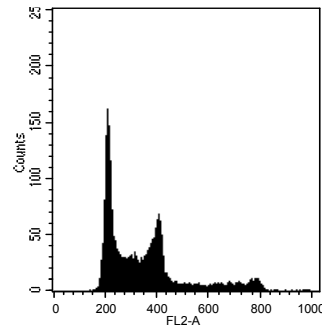
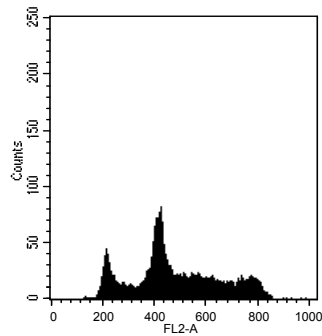
HAP1

Diploid
control

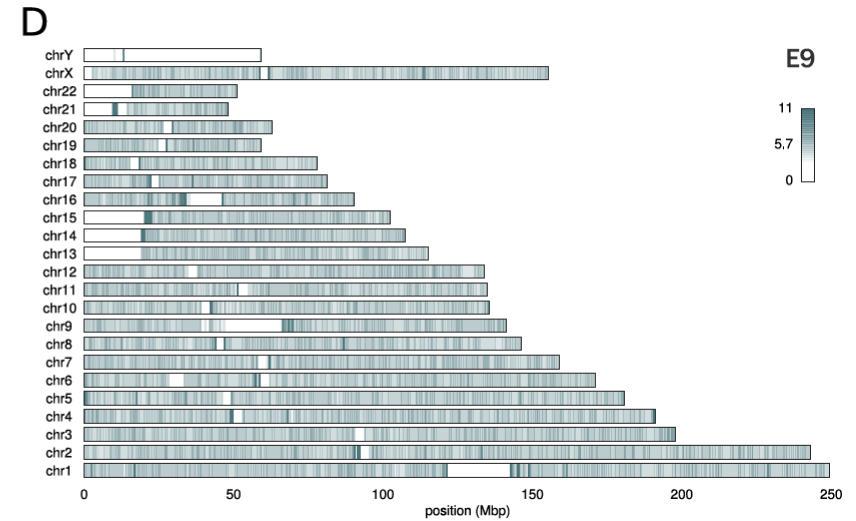
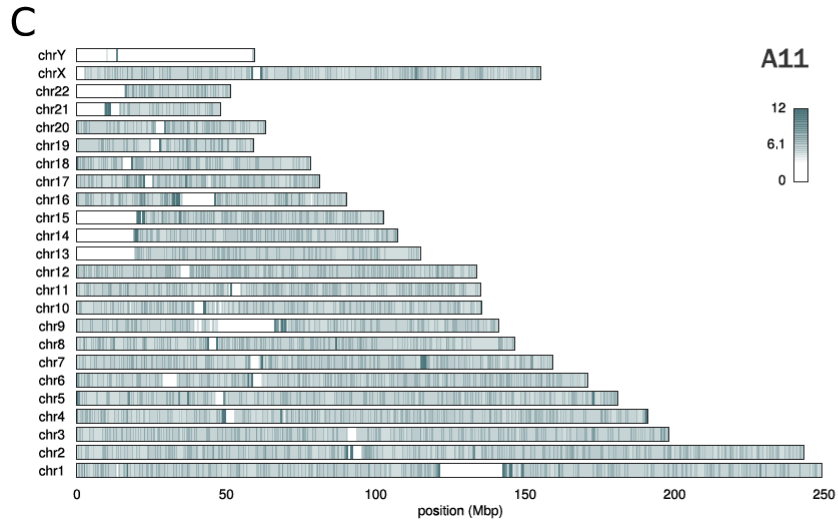
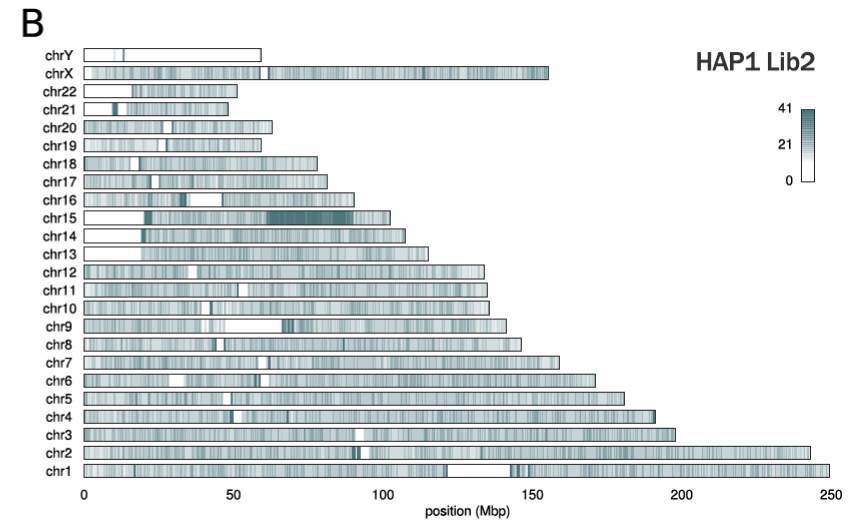
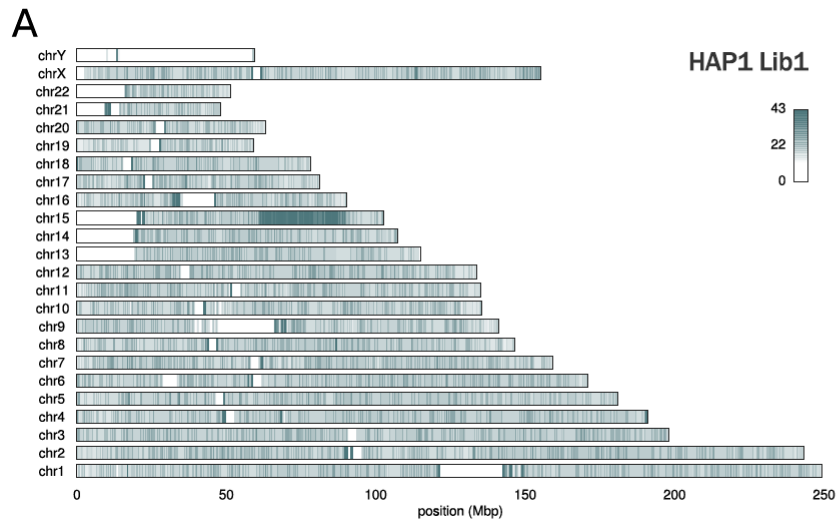
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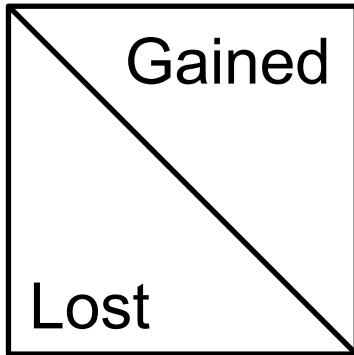
p20



Supplementary Figure 8



Supplementary Figure 9



E9,
whole genome

HAP1 wt1	5 152	1436 308
17 187	HAP1 wt2	1464 298
1850 558	1699 495	eHAP2

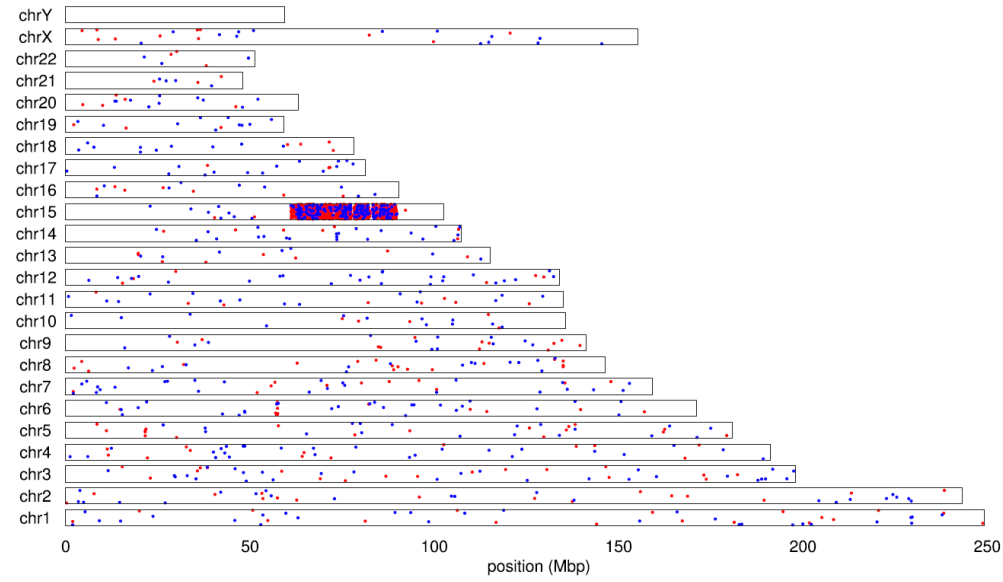
E9,
outside chr15 fragment

HAP1 wt1	5 151	1425 307
17 184	HAP1 wt2	1454 295
213 366	223 337	eHAP2

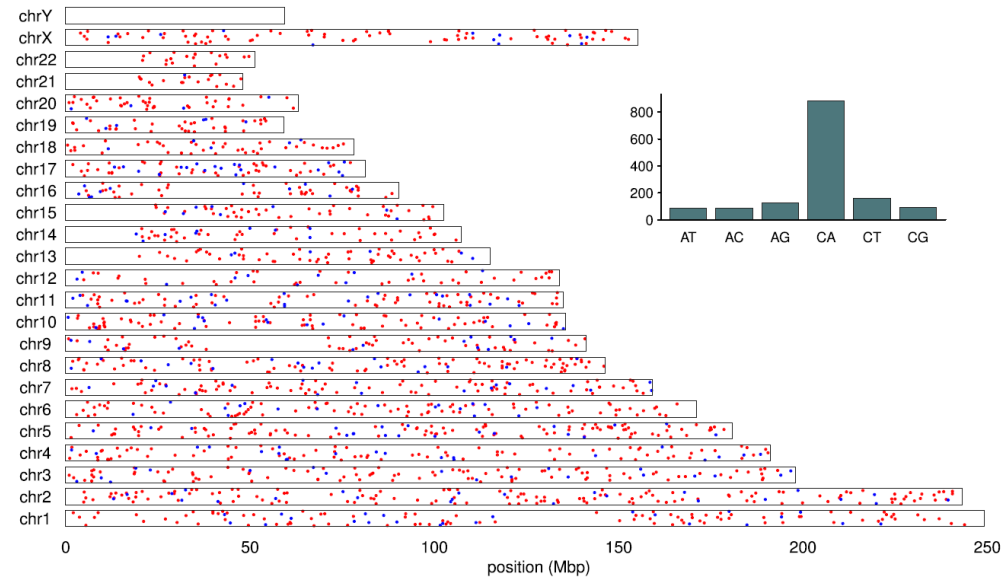
Red: Single-nucleotide substitutions
Blue: Small indels

Supplementary Figure 10

(A)



(B)



Supplementary Figure 11