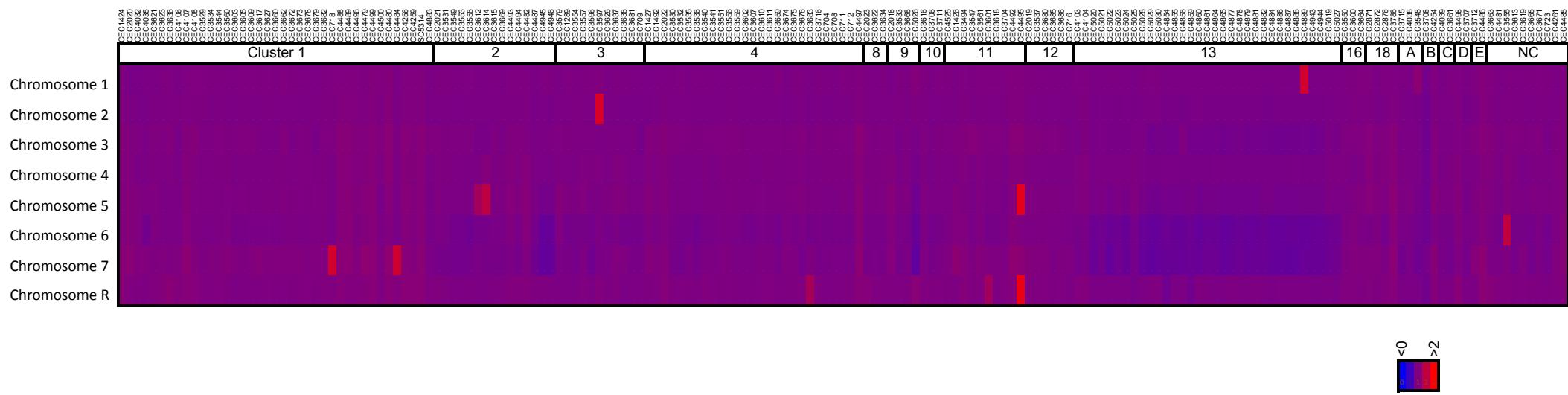
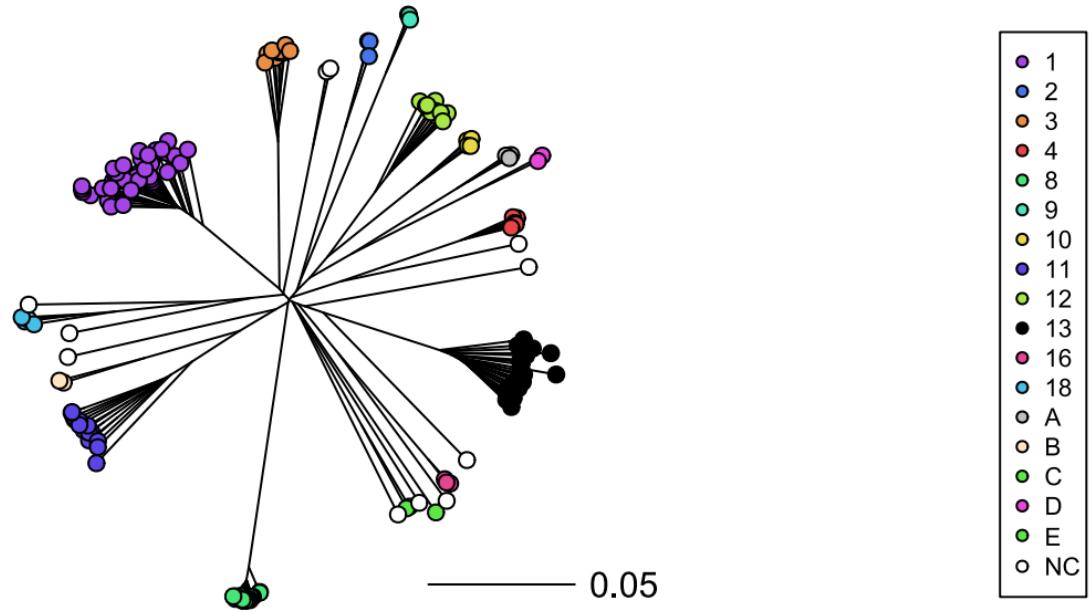


Gene flow contributes to diversification of the major fungal pathogen *Candida albicans*.

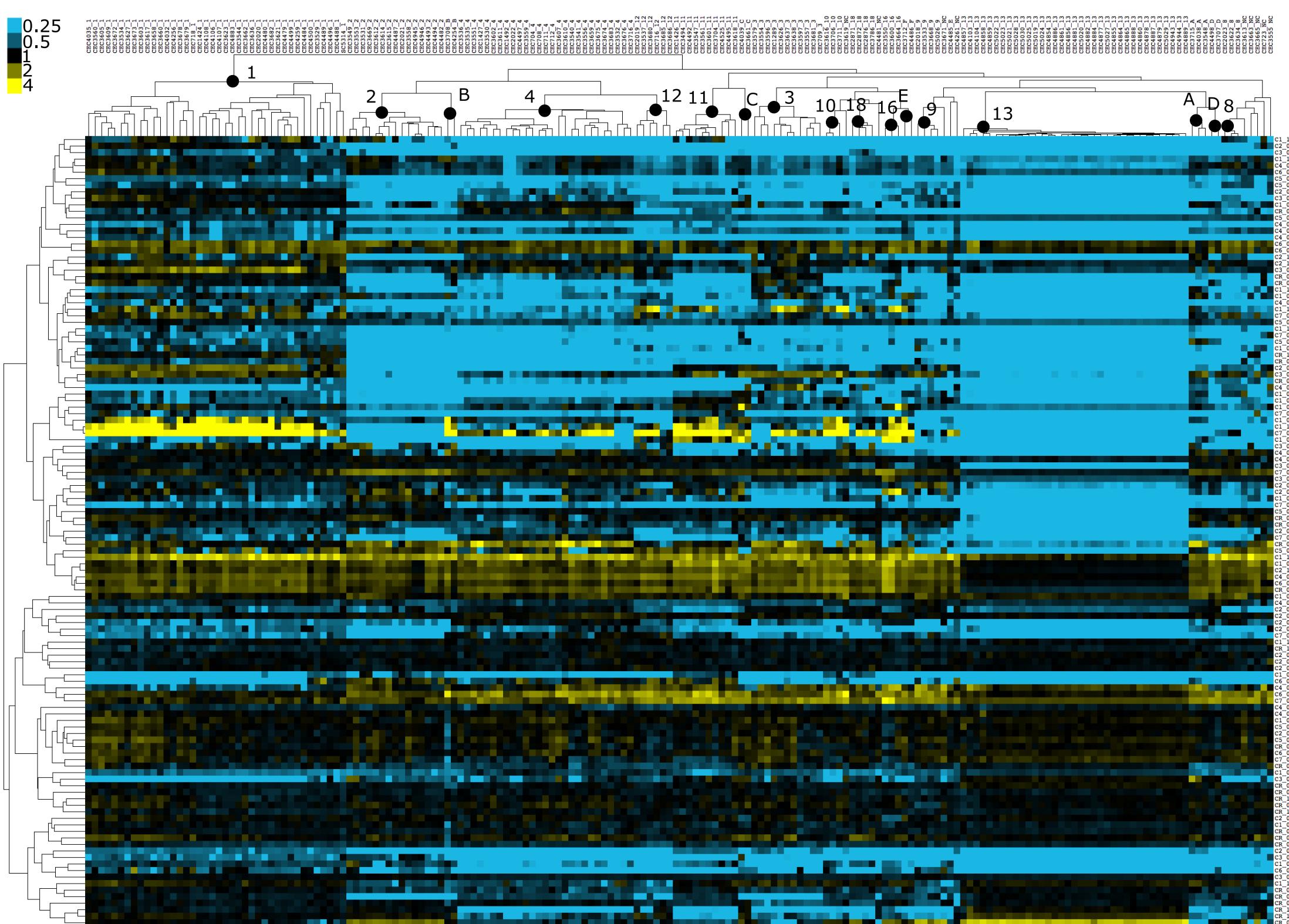
Ropars et al.





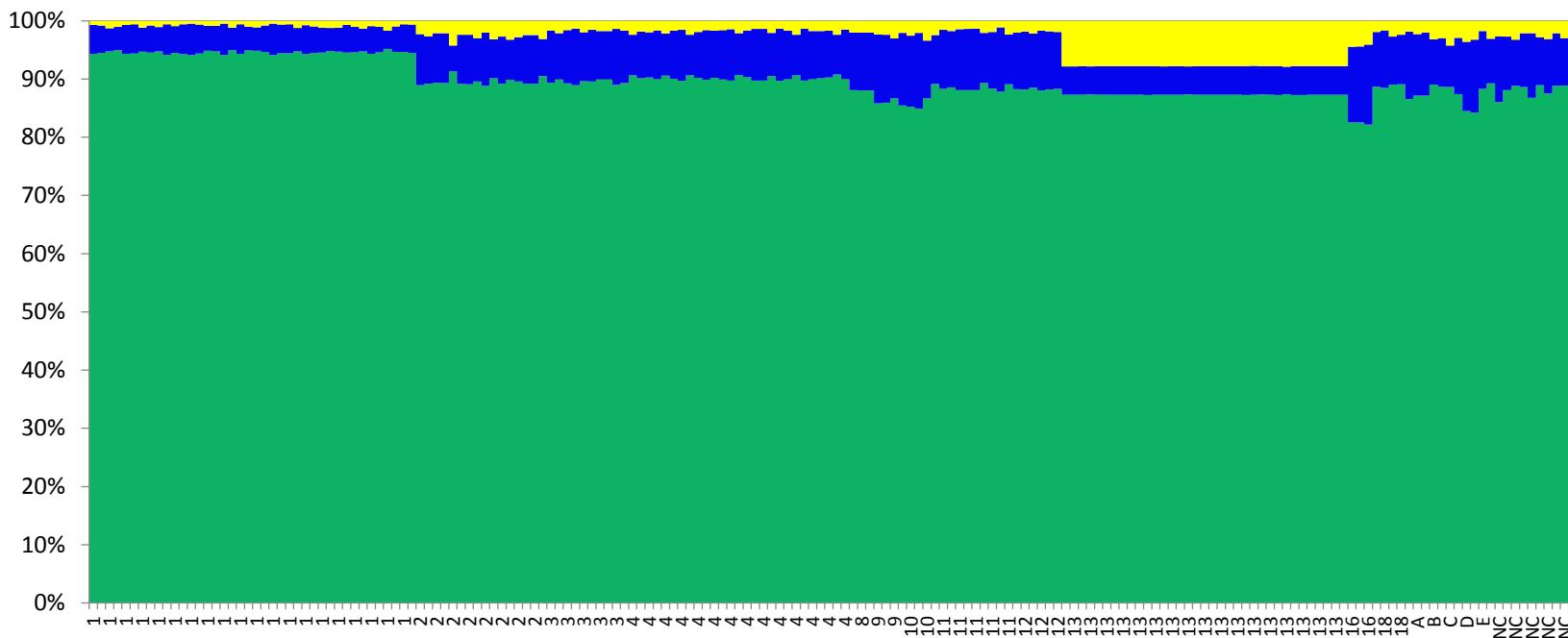
Supplementary Fig. 2 (related to Fig. 2): Distance tree based on 183,974 insertion-deletion events (indels) information.

Insertions at homozygous state were coded as 2, insertions at heterozygous state as 1 and no indel event as 0. Branch length are shown and the scale bar represents 0.05 number of differences per site.

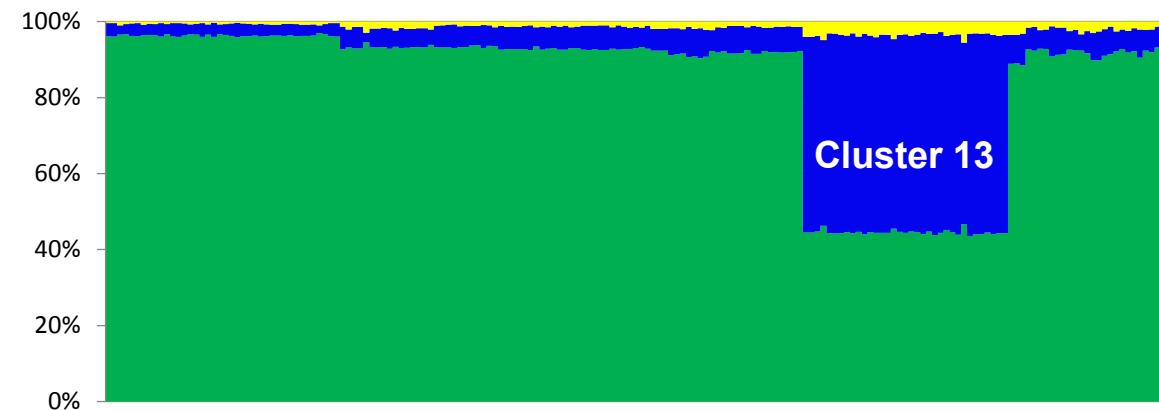


Supplementary Fig. 3 (related to Fig. 2): Hierarchical clustering of the 182 isolates of *C. albicans* based on the coverage of repeat regions (including long-terminal repeats, retrotransposons and repeat regions) normalized by chromosome.

The clustering was generated by Cluster 3.0 using hierarchical clustering (complete linkage clustering) and the spearman rank correlation for measuring non-parametric distance, and visualized with java treeview by converting values in log2 scale. The scale bar on the top left indicates color codes.

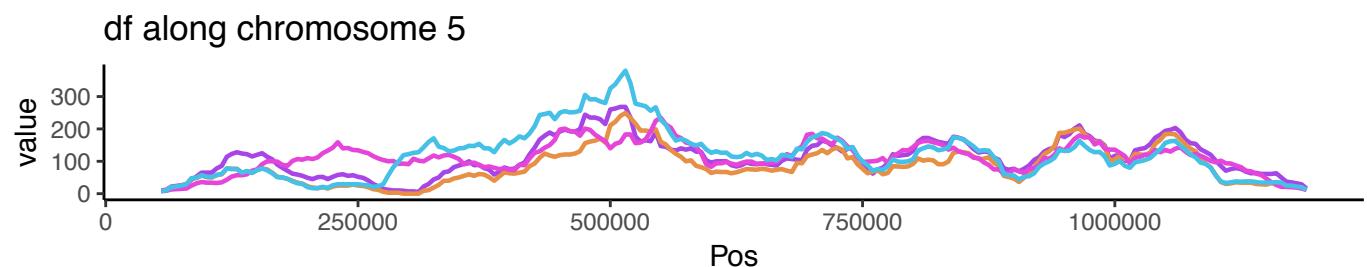
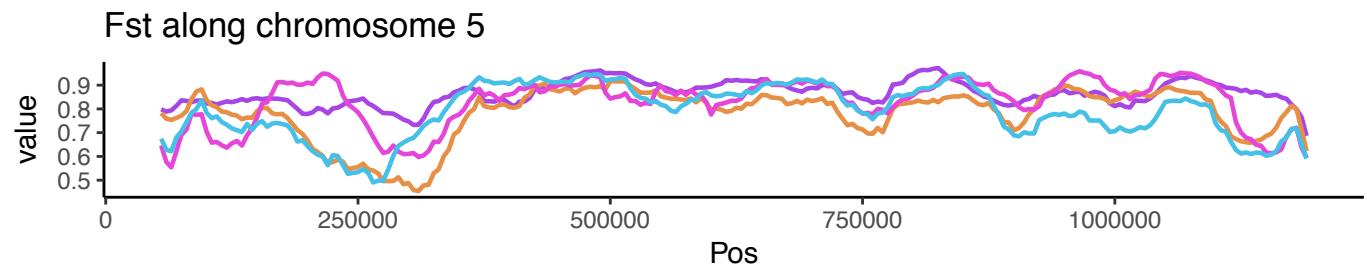
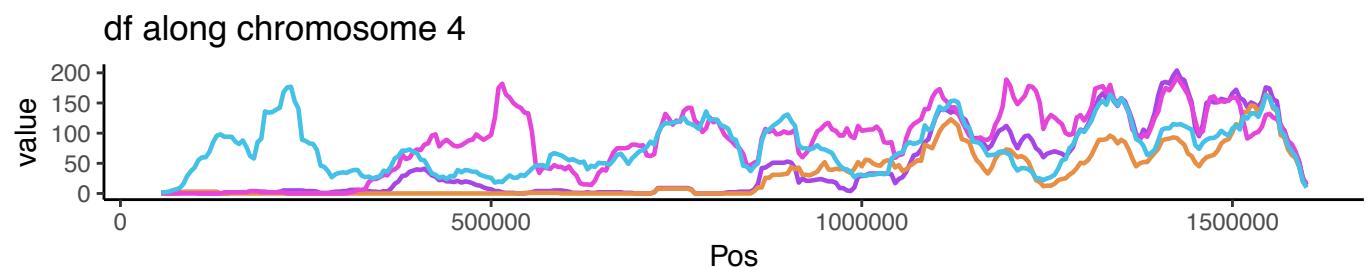
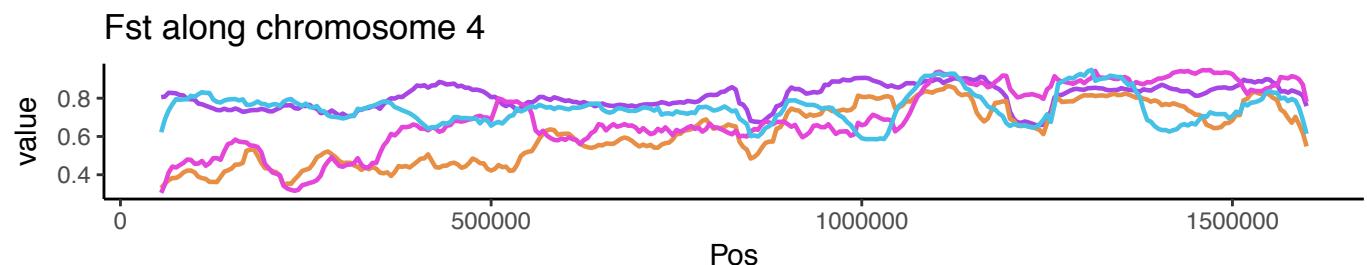
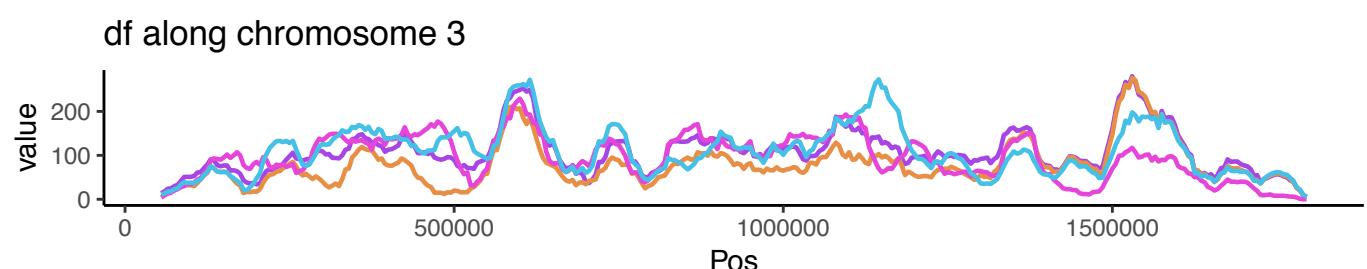
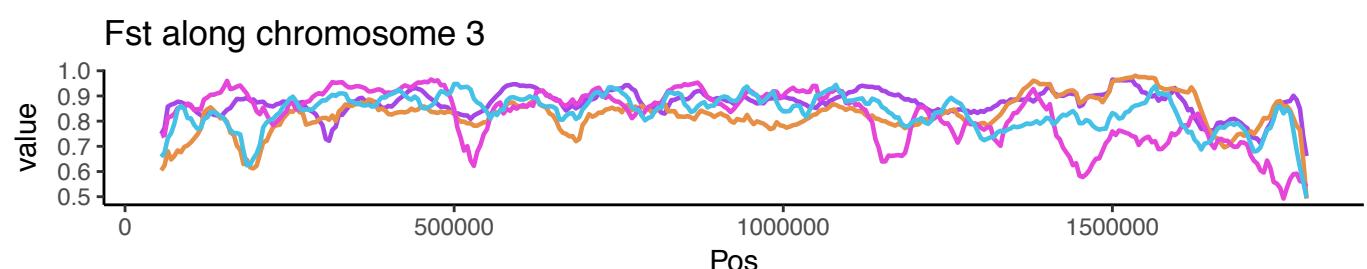
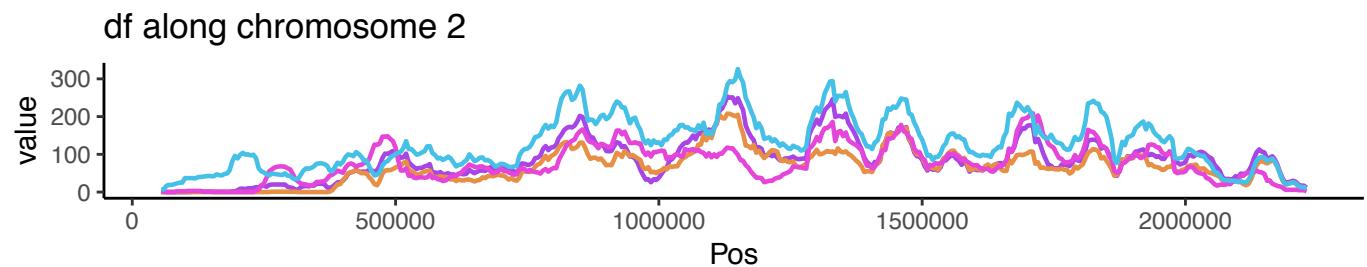
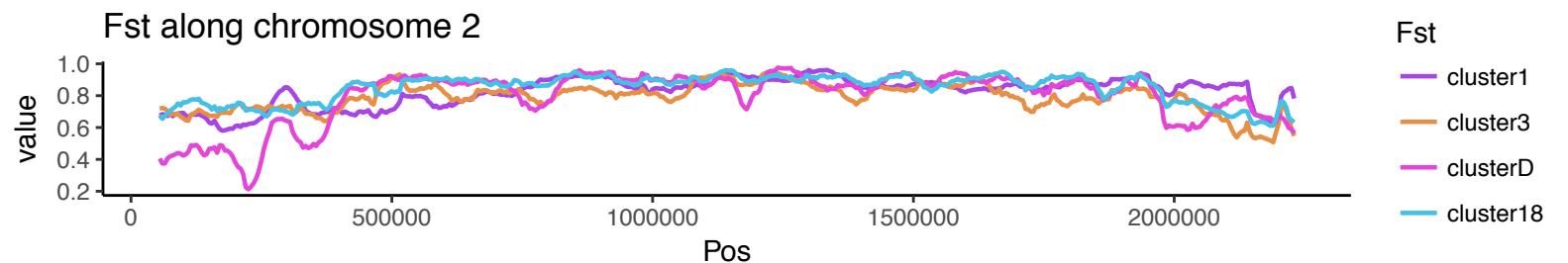
a)**b)**

Minor homozygous SNP
Heterozygous SNP
Major homozygous SNP

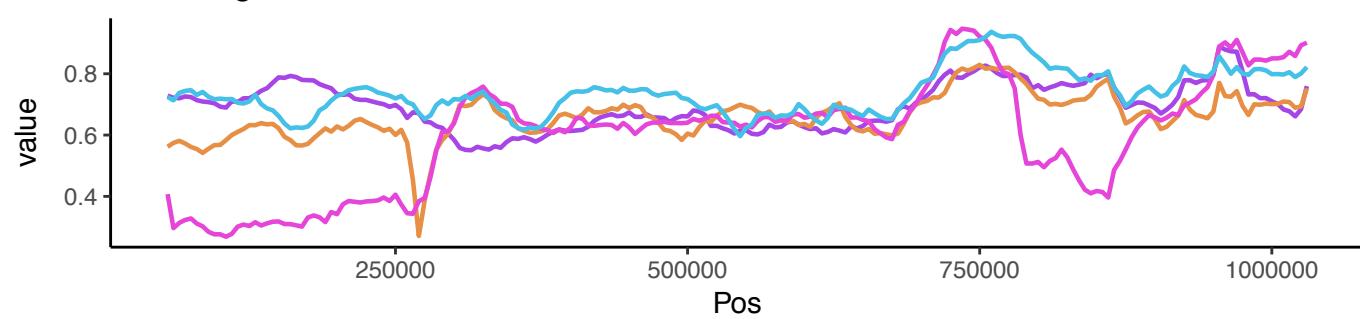
c)

Supplementary Fig. 4: Graphic representation of counts of major / minor homozygous SNPs and heterozygous SNPs at a) the whole population level (182 isolates, 262,661 SNPs) and b) and c) at the cluster level.

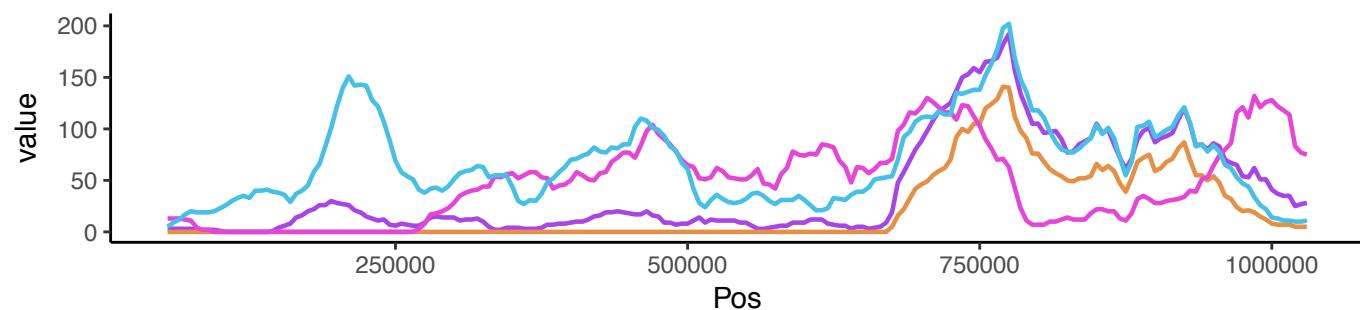
b) SNP positions invariant across cluster 1 were removed, the analysis thus included 28,142 polymorphic sites; c) SNP positions invariant across cluster 13 were removed, the analysis thus included 12,096 polymorphic sites. This shows an excess of homozygous SNPs at the whole population level and an excess of heterozygous SNPs within each cluster (shown here: clusters 1 and 13).



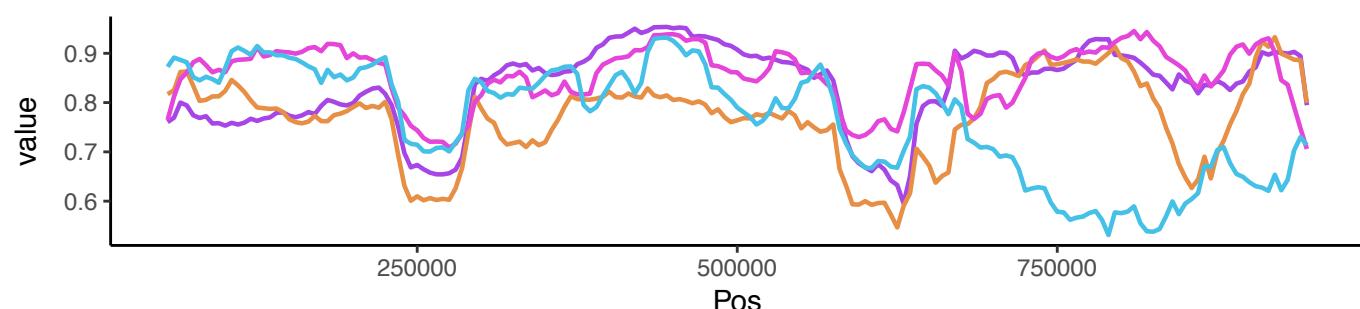
Fst along chromosome 6



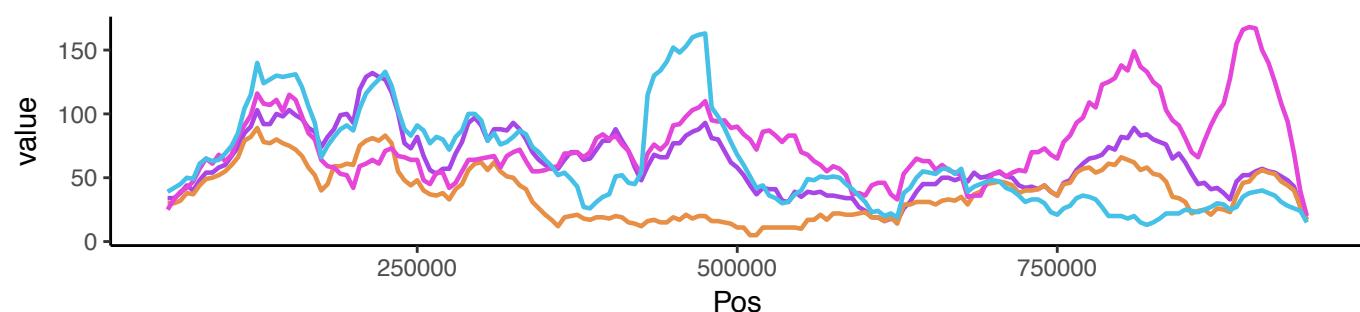
df along chromosome 6



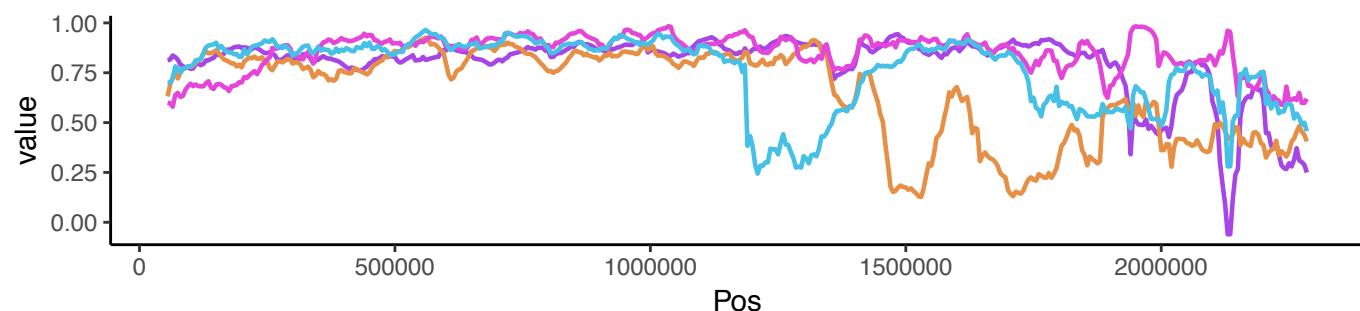
Fst along chromosome 7



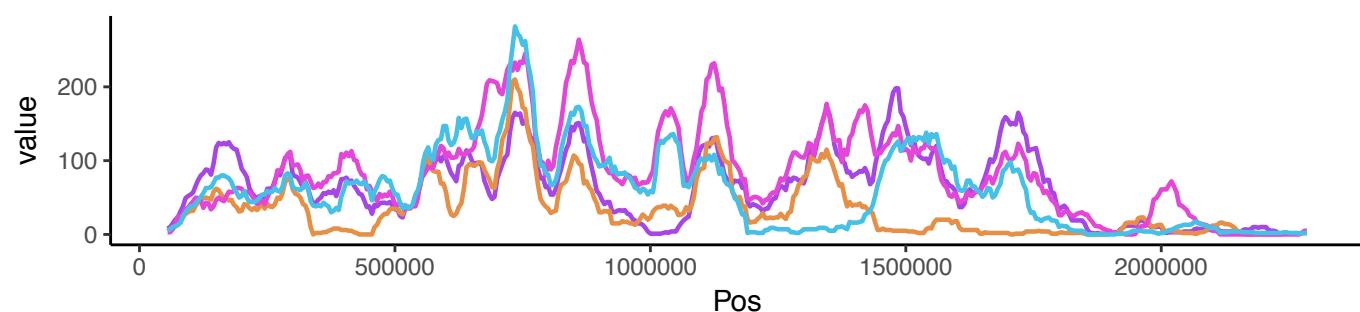
df along chromosome 7



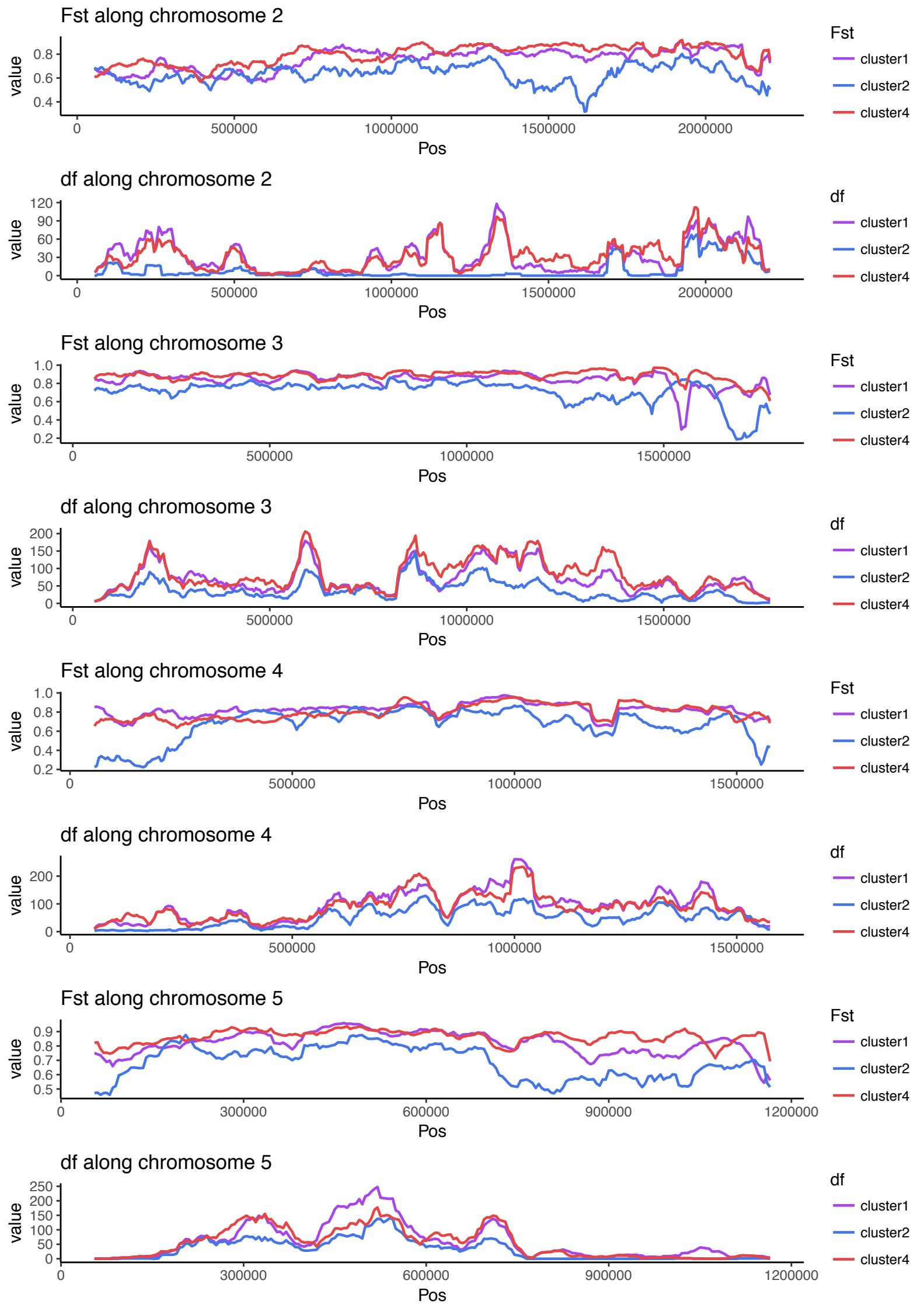
Fst along chromosome R



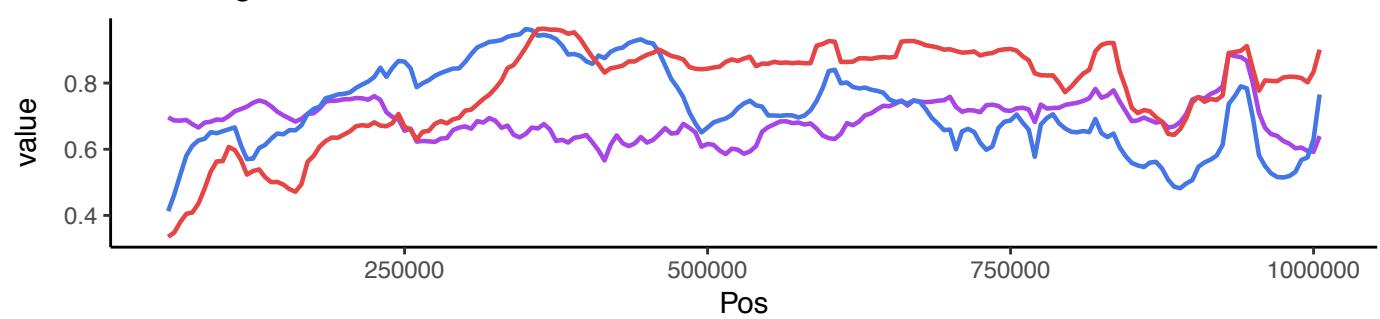
df along chromosome R



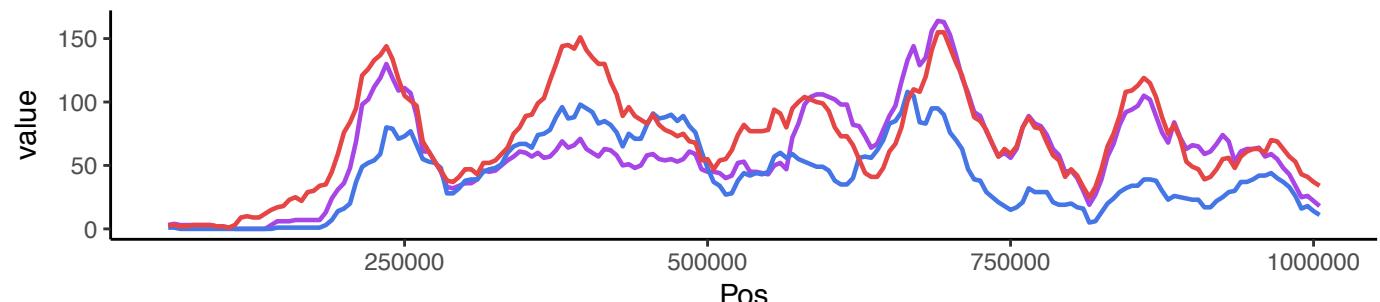
Supplementary Fig. 5 (related to Fig. 4): Genomic scans of FST (fixation index, an index measuring the differentiation between populations) and df (the number of fixed differences between populations) in sliding windows of 50 kb using a window step of 5,000 bp of cluster A compared to clusters 1, 3, D and 18 along chromosomes 2 to 7 and R.



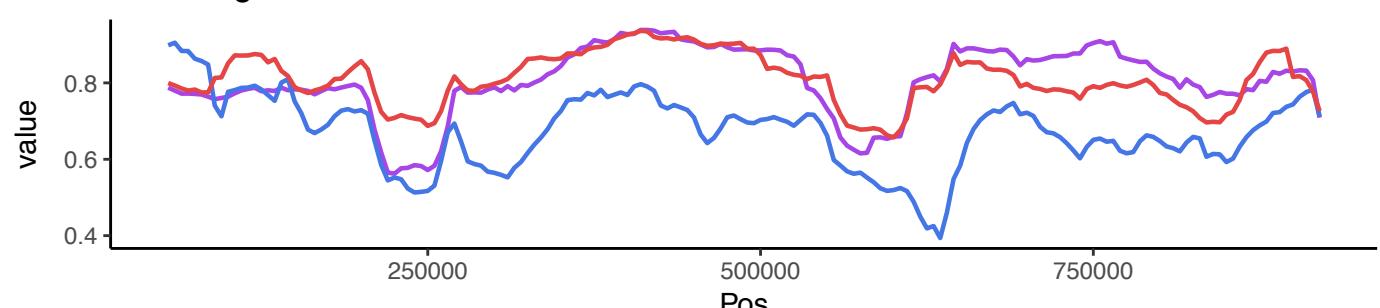
Fst along chromosome 6



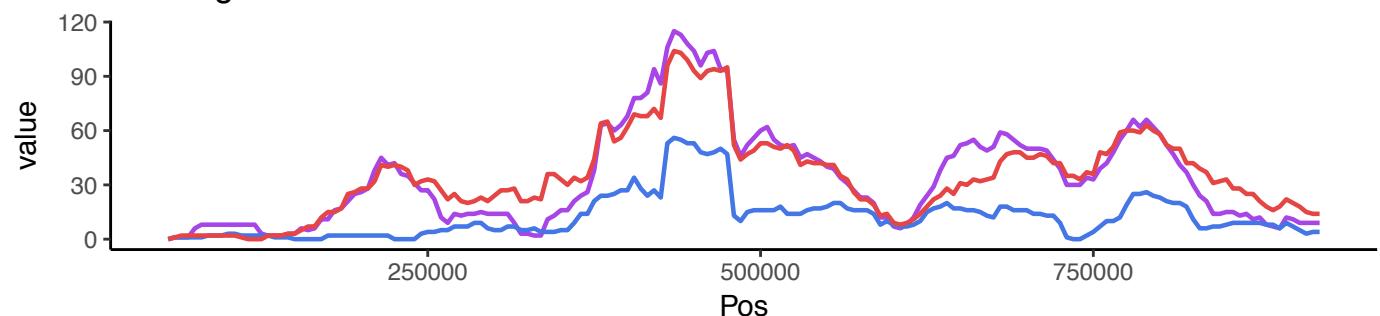
df along chromosome 6



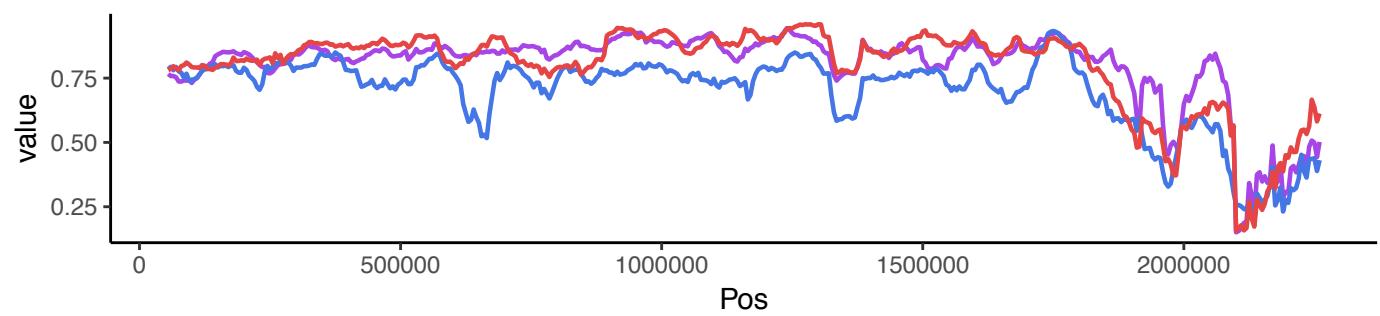
Fst along chromosome 7



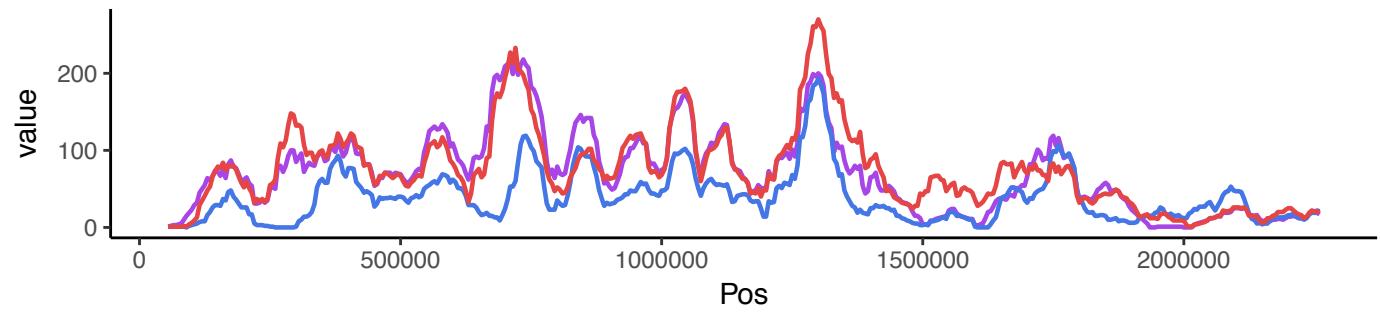
df along chromosome 7



Fst along chromosome R



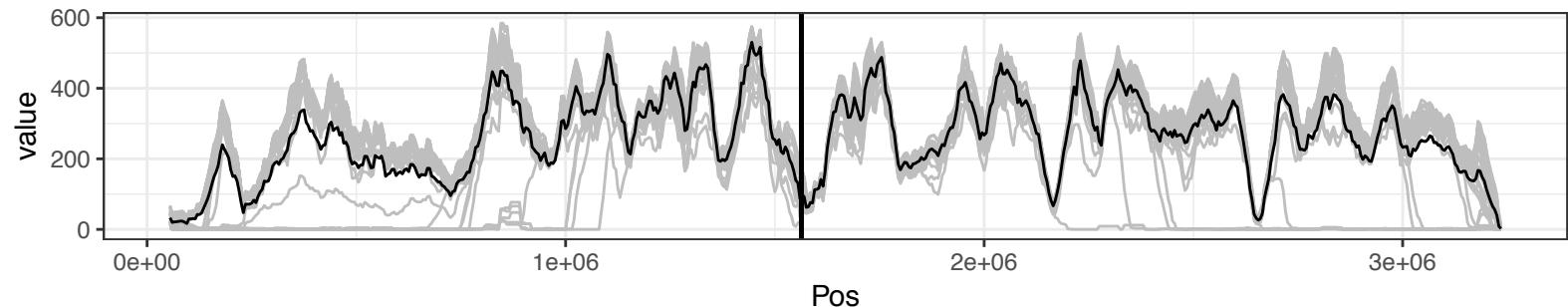
df along chromosome R



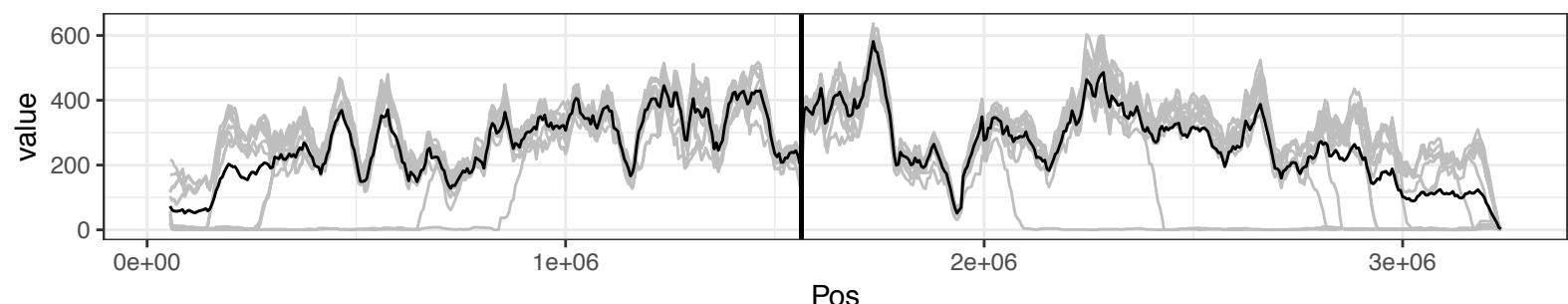
Supplementary Fig. 6 (related to Fig. 4): Genomic scans of FST (fixation index, an index measuring the differentiation between populations) and df (the number of fixed differences between populations) in sliding windows of 50 kb using a window step of 5,000 bp of cluster B compared to clusters 2 and B along chromosomes 2 to 7 and R.

CHROMOSOME 1: sliding windows of 50,000bp, step 5000

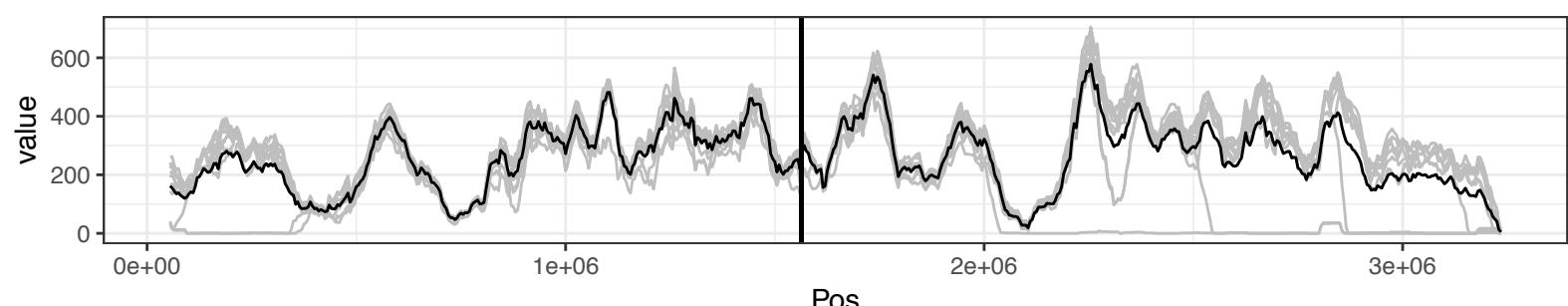
cluster1



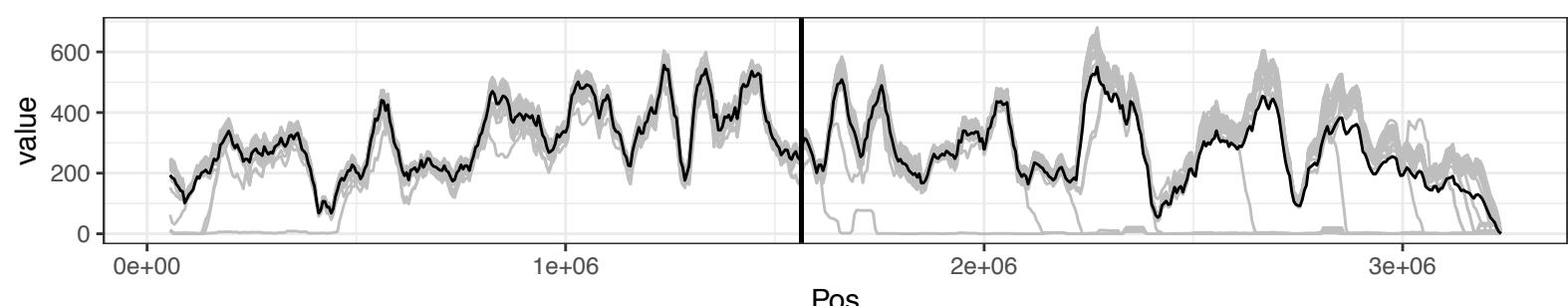
cluster2



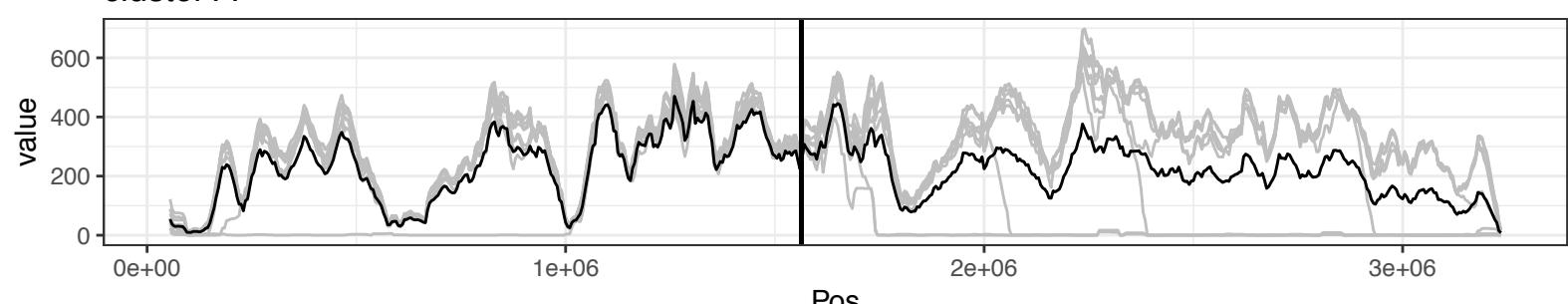
cluster3



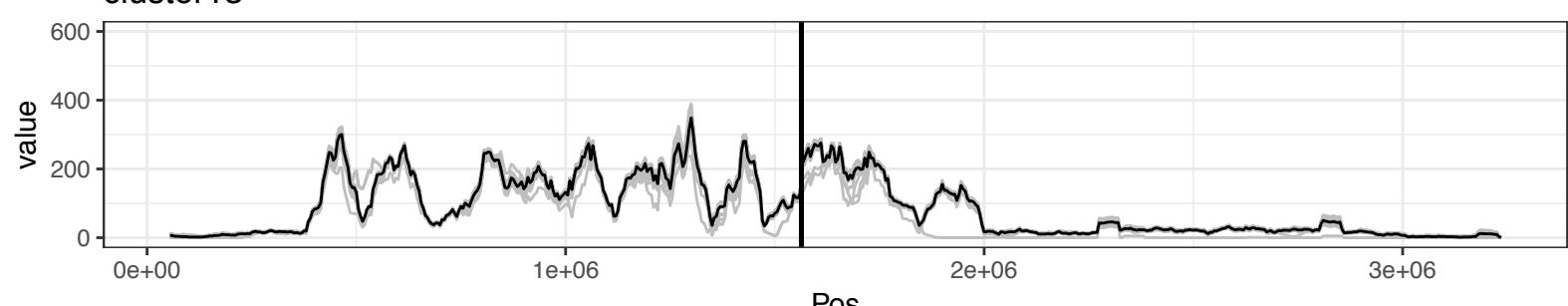
cluster4



cluster11

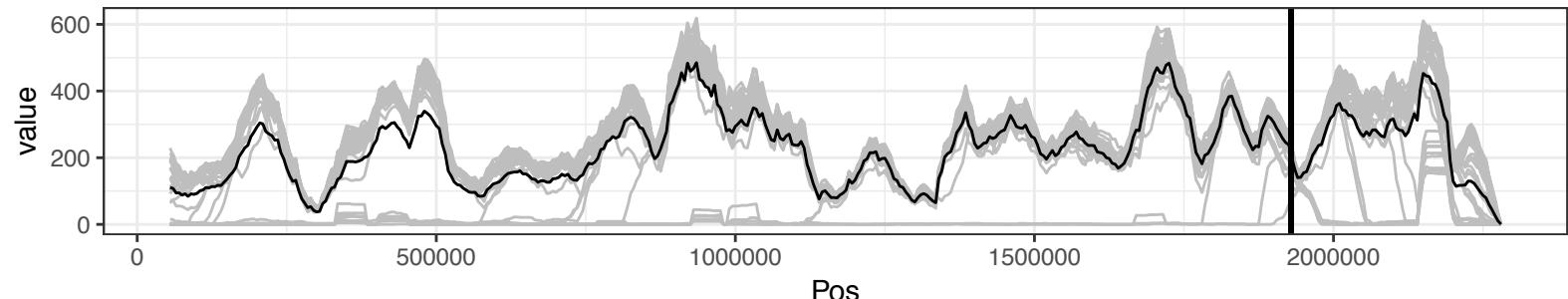


cluster13

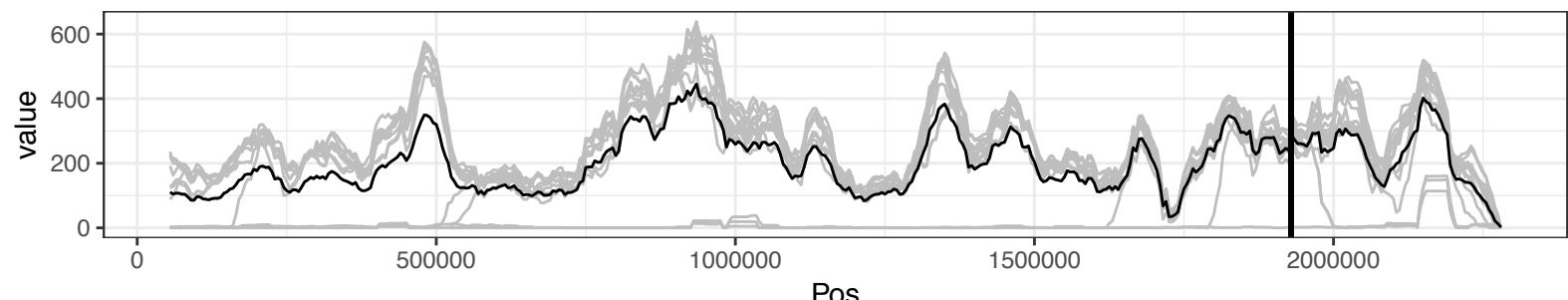


CHROMOSOME 2: sliding windows of 50,000bp, step 5000

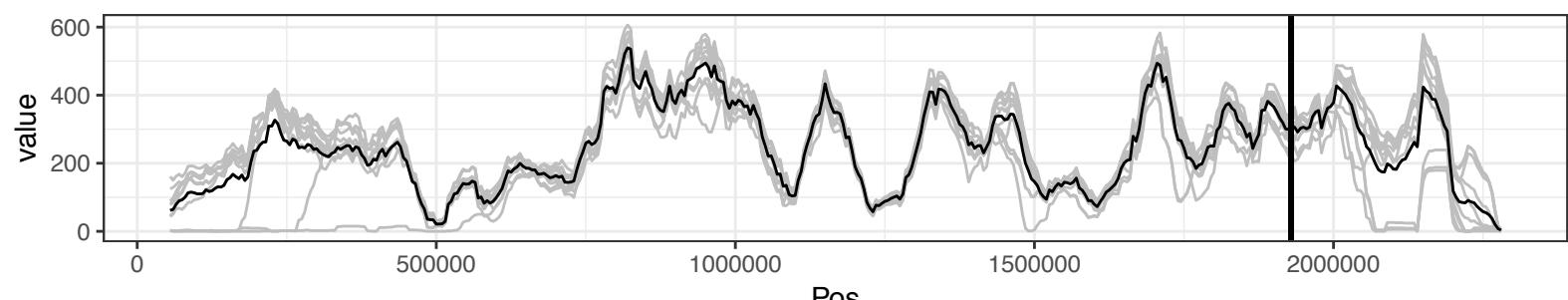
cluster1



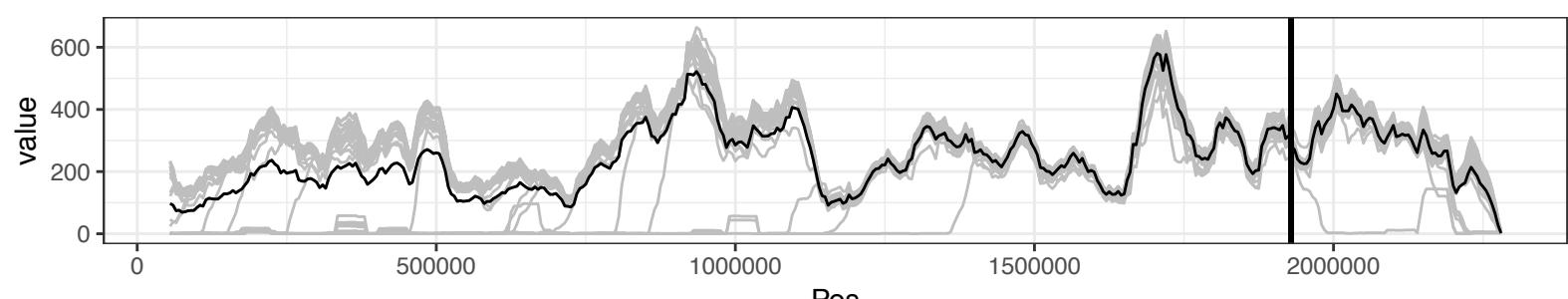
cluster2



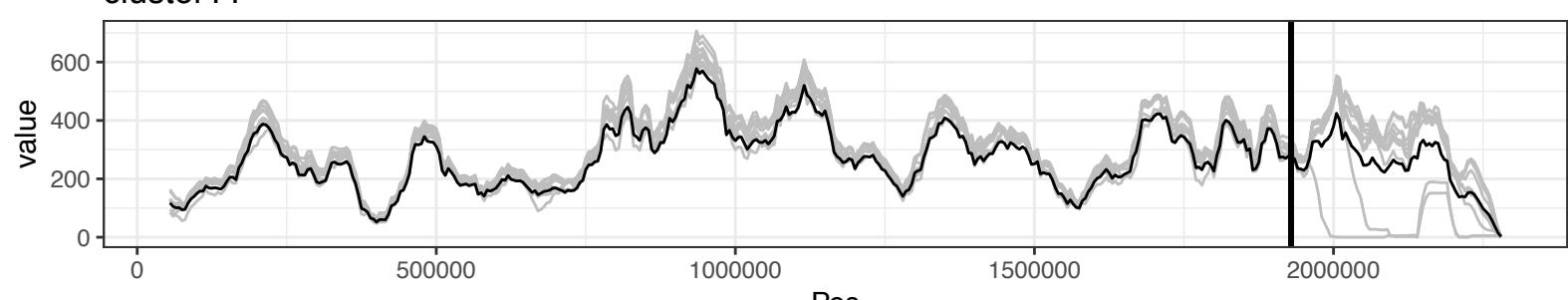
cluster3



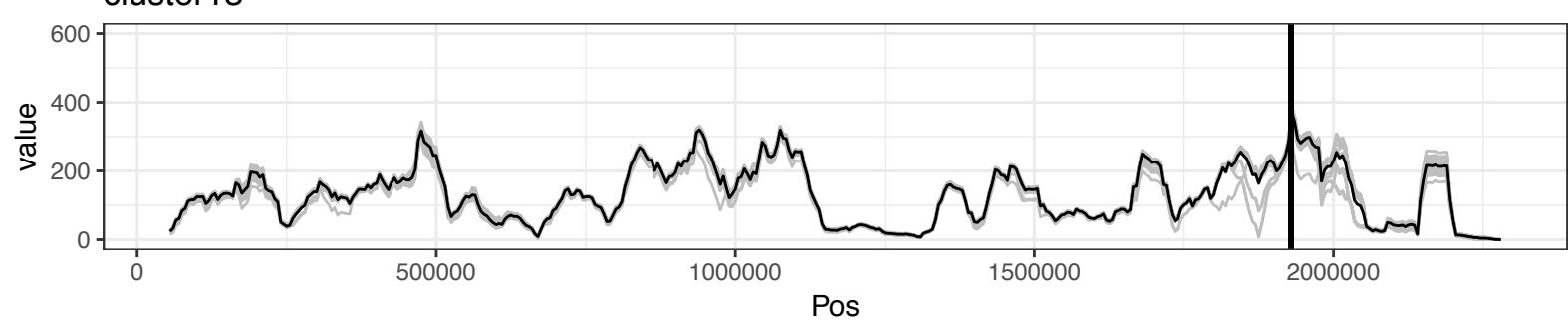
cluster4



cluster11

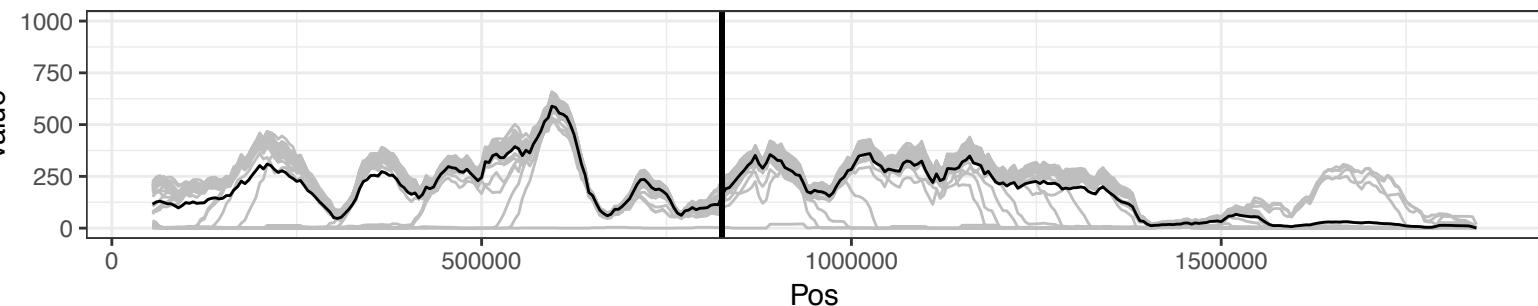


cluster13

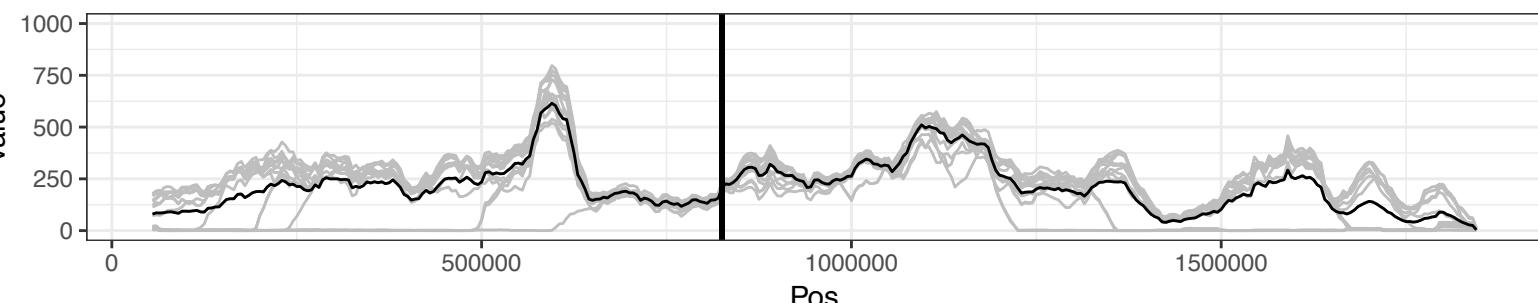


CHROMOSOME 3: sliding windows of 50,000bp, step 5000

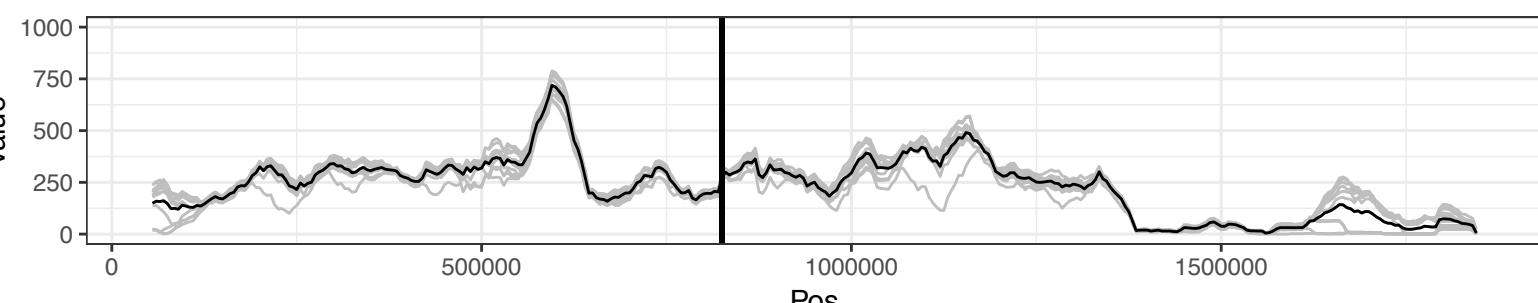
cluster1



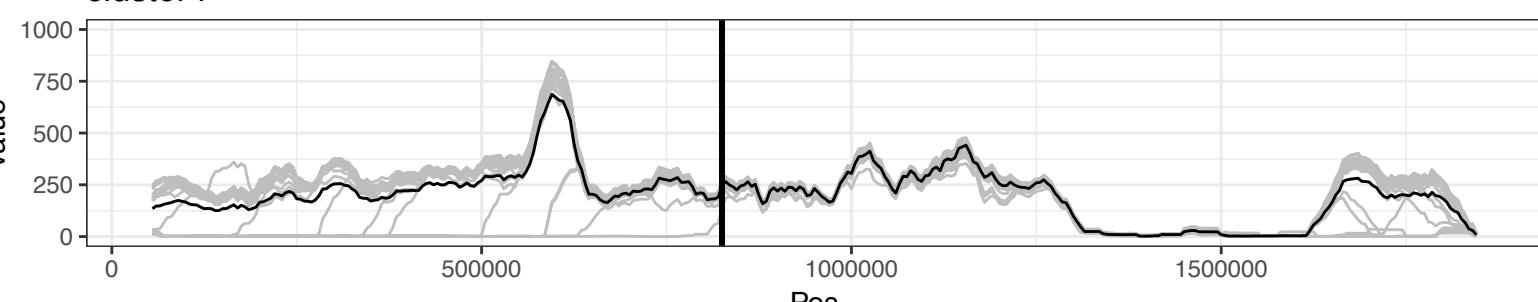
cluster2



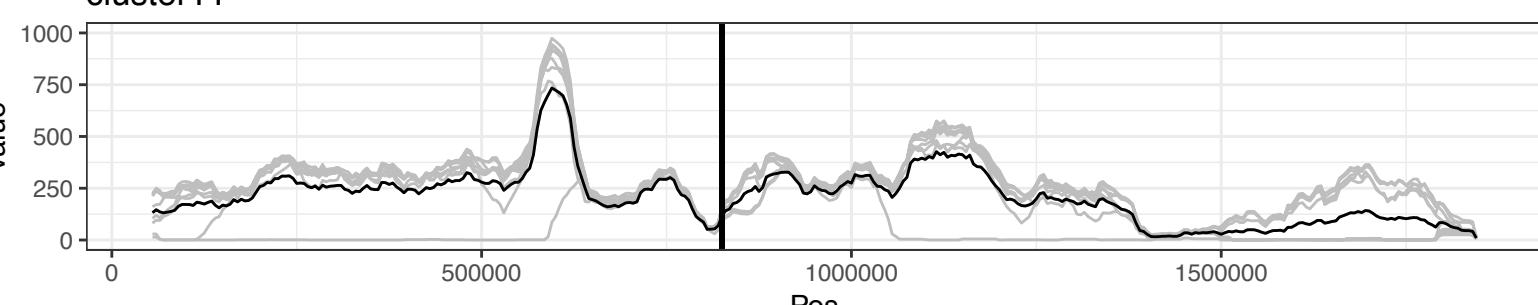
cluster3



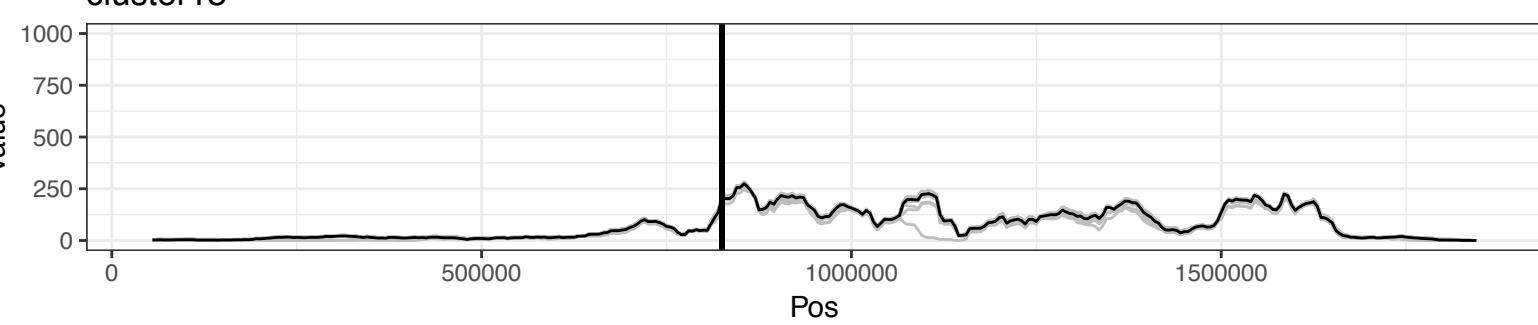
cluster4



cluster11

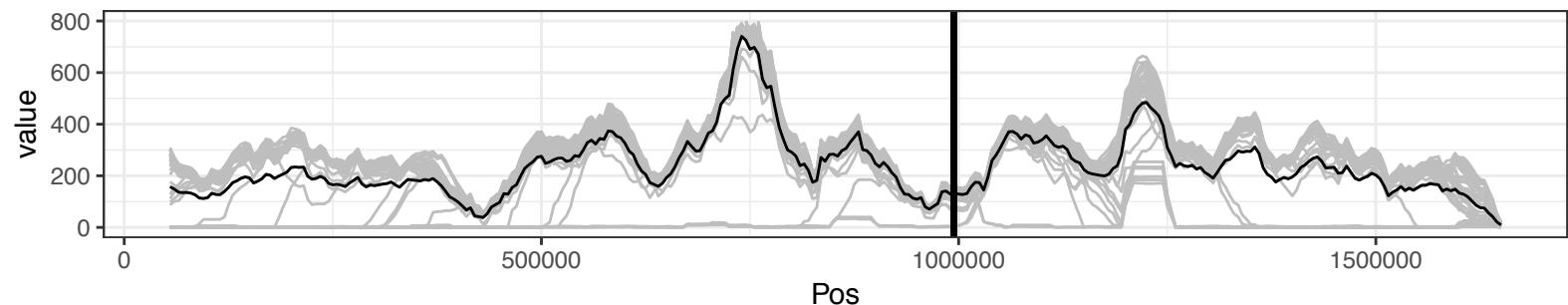


cluster13

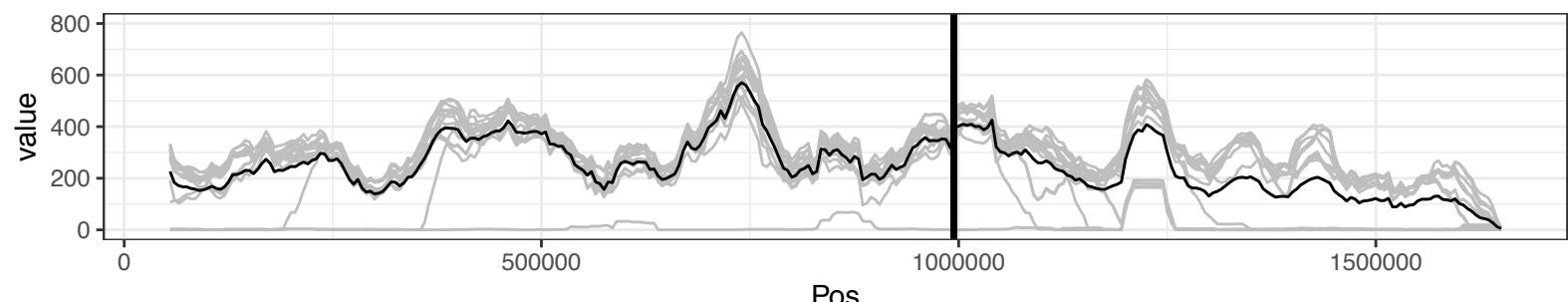


CHROMOSOME 4: sliding windows of 50,000bp, step 5000

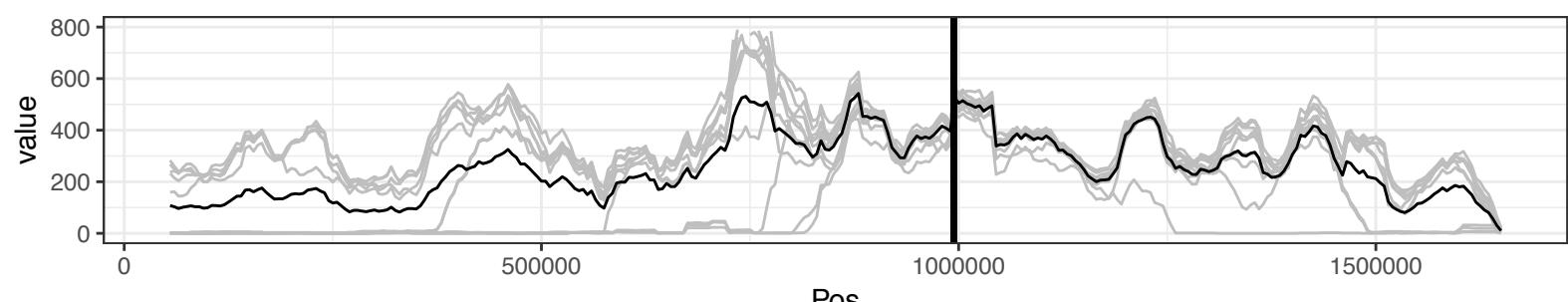
cluster1



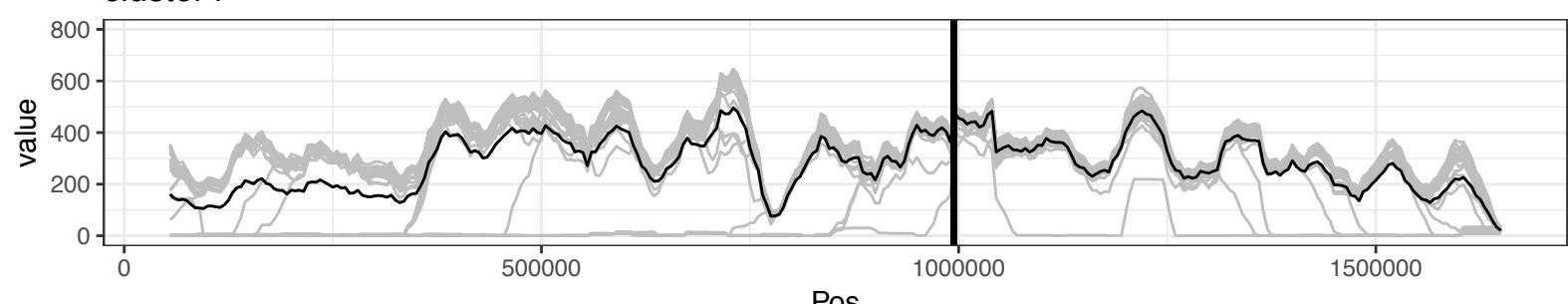
cluster2



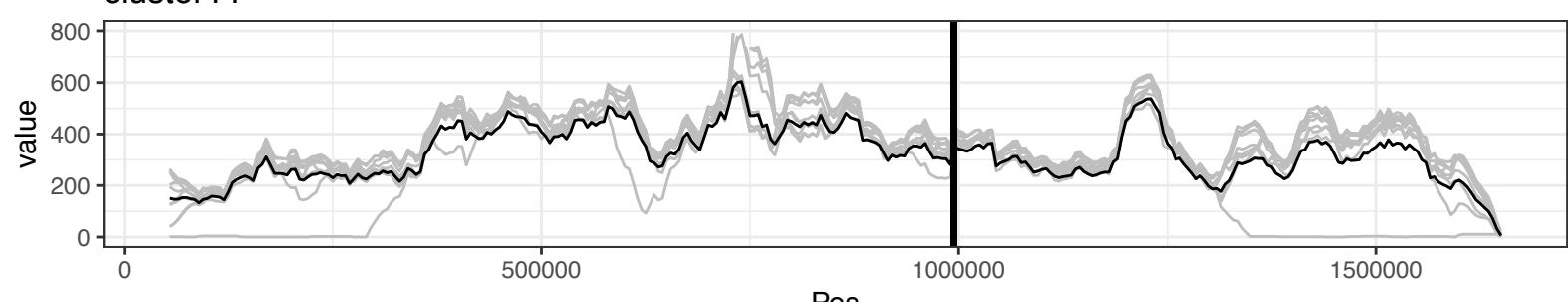
cluster3



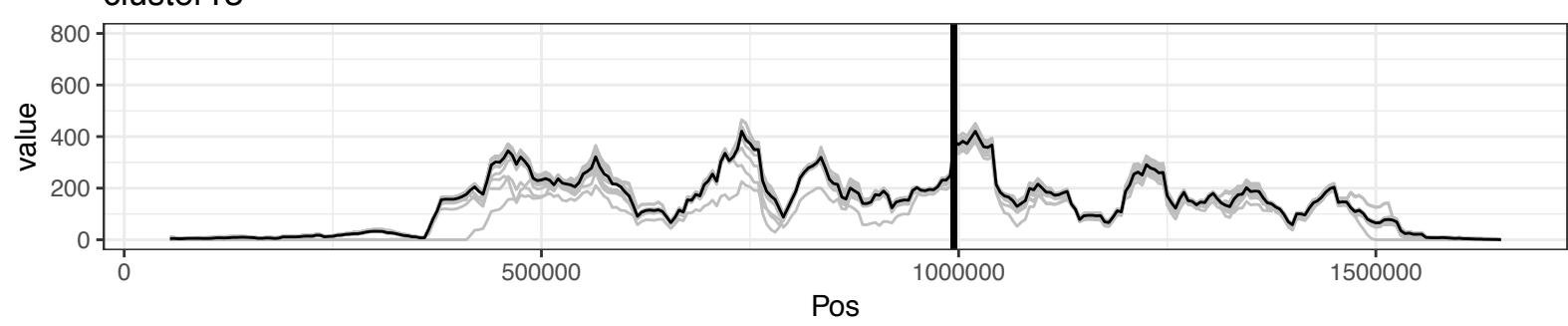
cluster4



cluster11

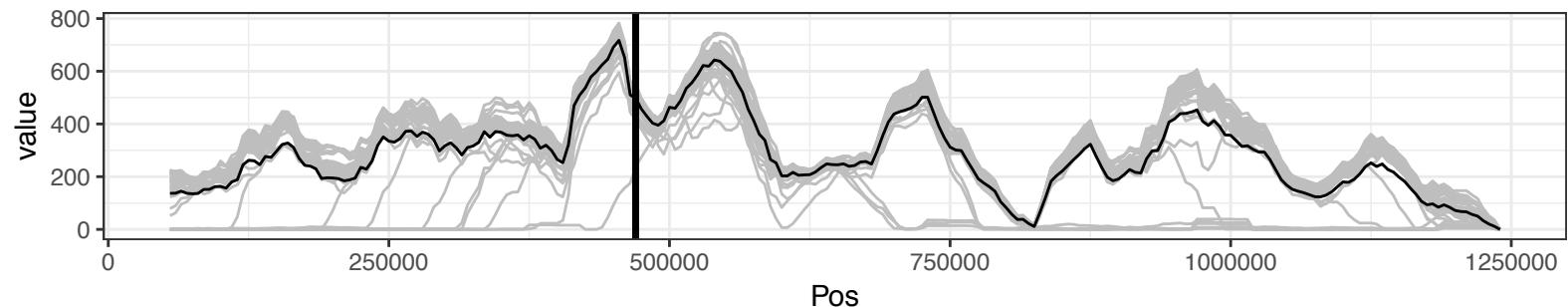


cluster13

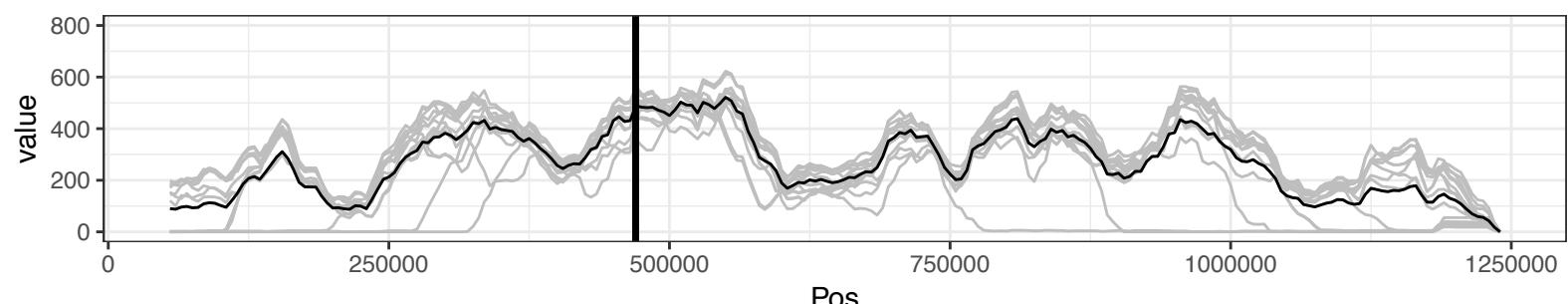


CHROMOSOME 5: sliding windows of 50,000bp, step 5000

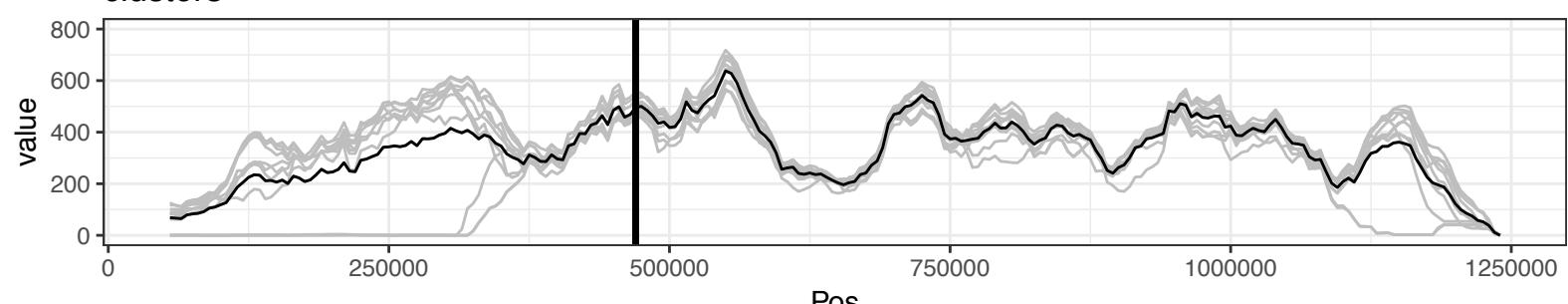
cluster1



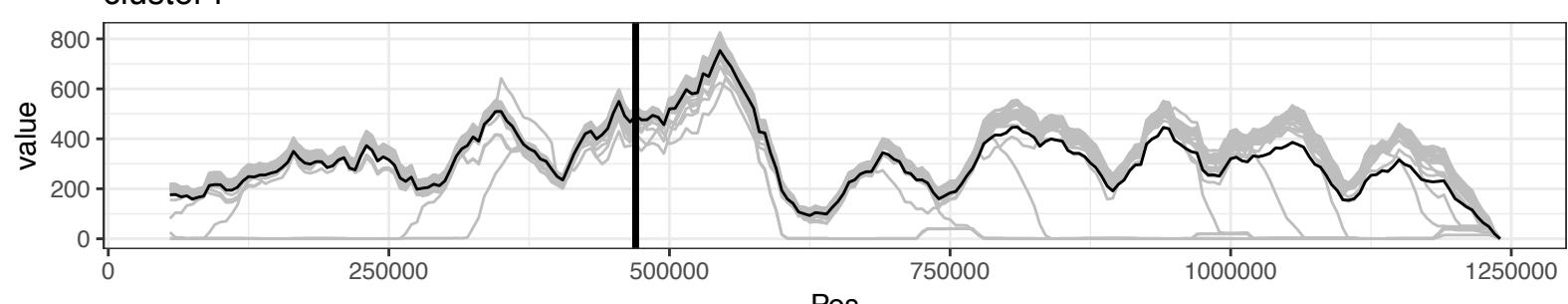
cluster2



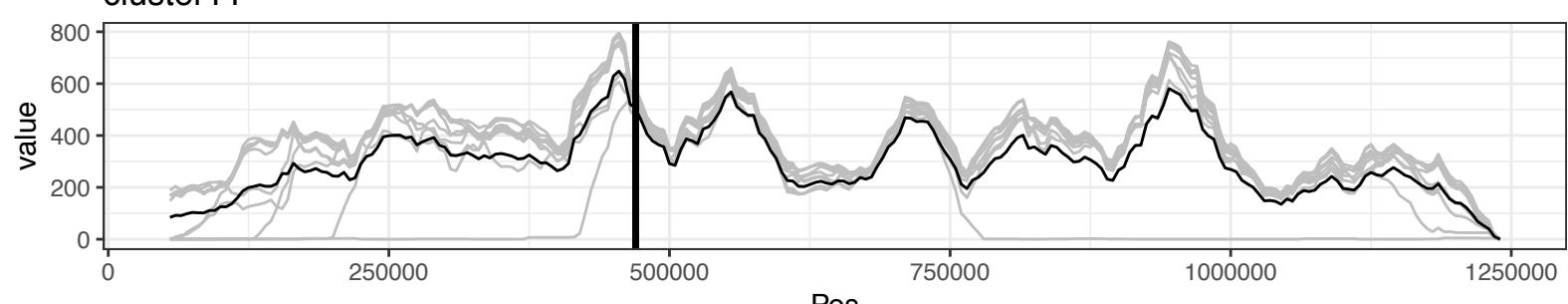
cluster3



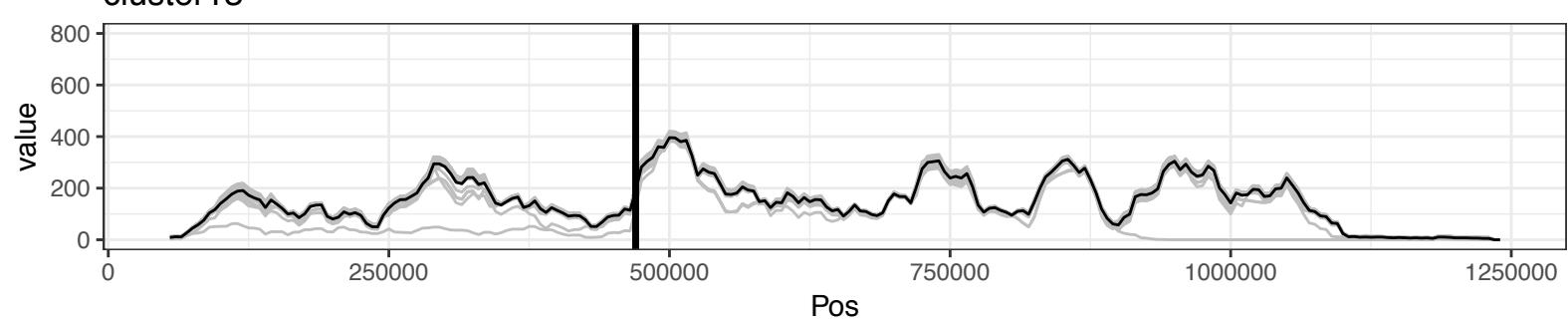
cluster4



cluster11

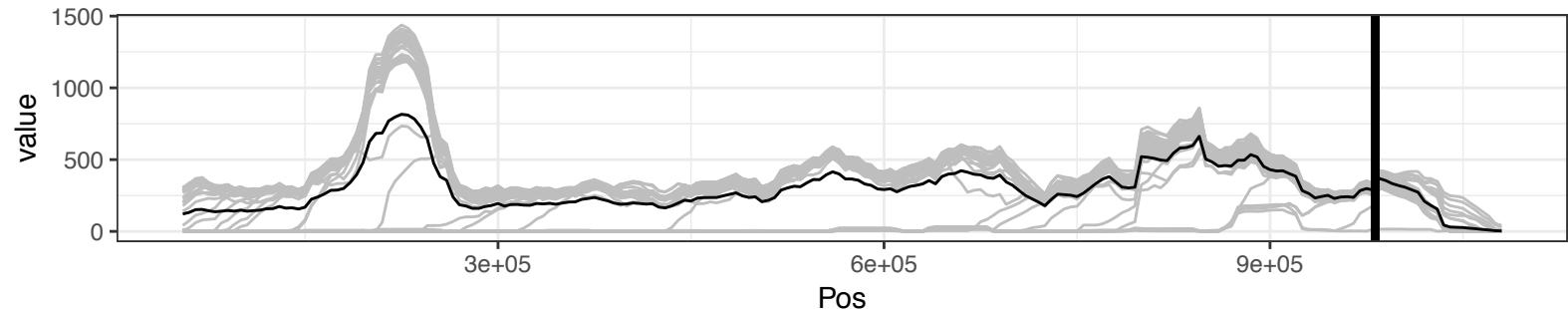


cluster13

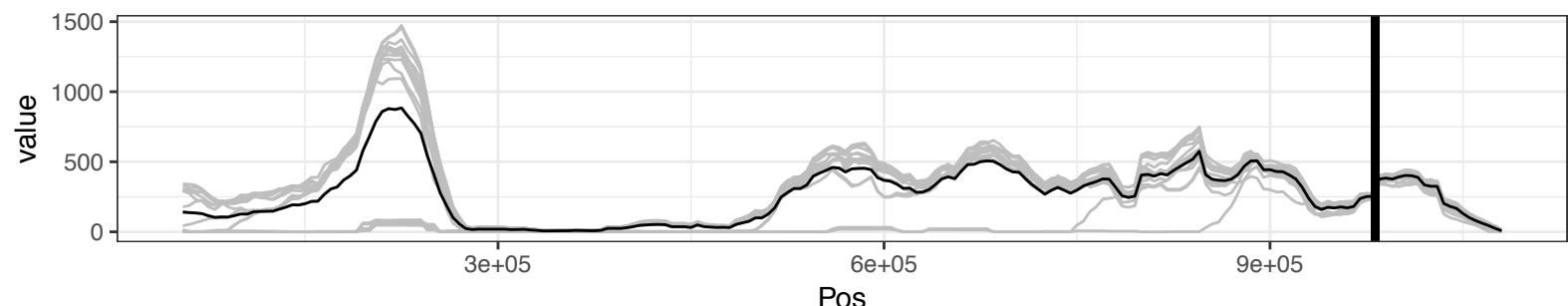


CHROMOSOME 6: sliding windows of 50,000bp, step 5000

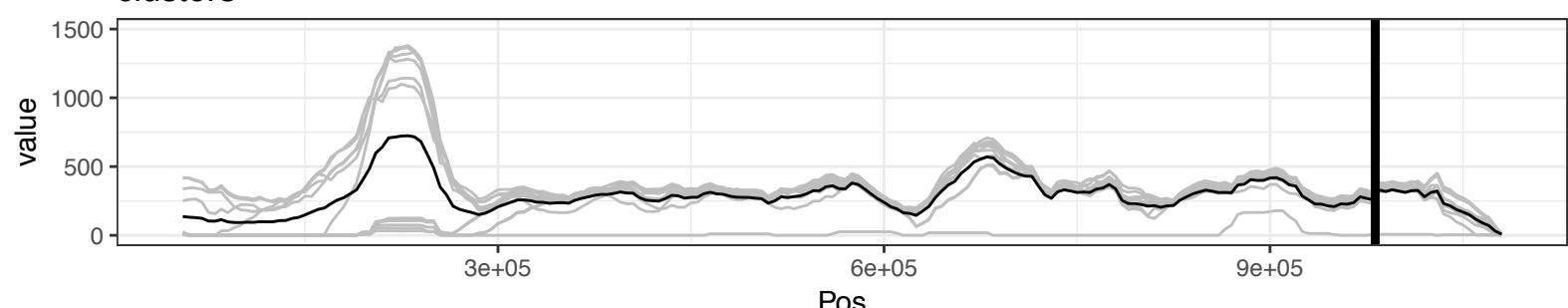
cluster1



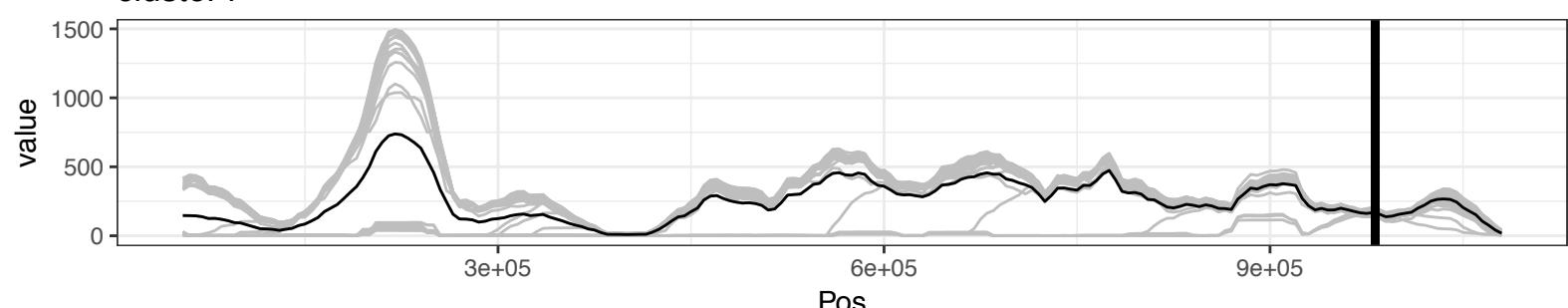
cluster2



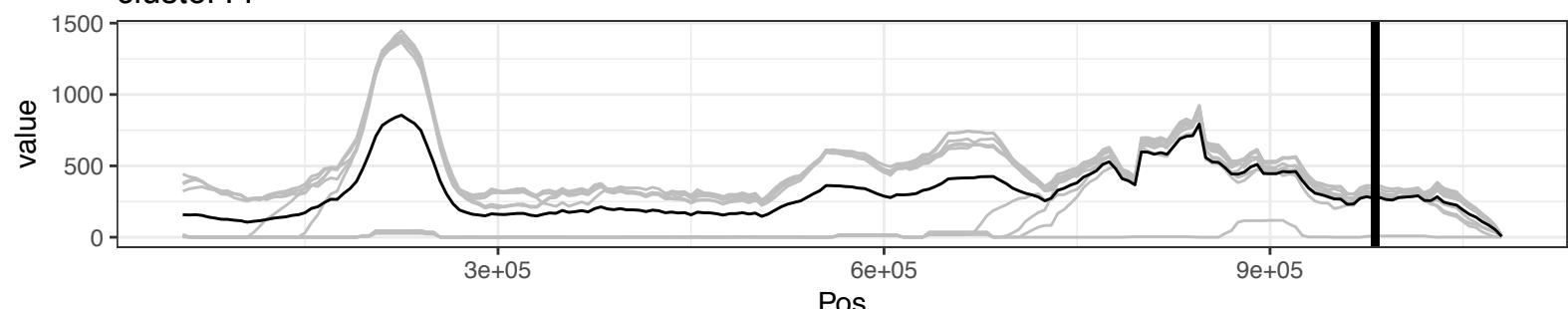
cluster3



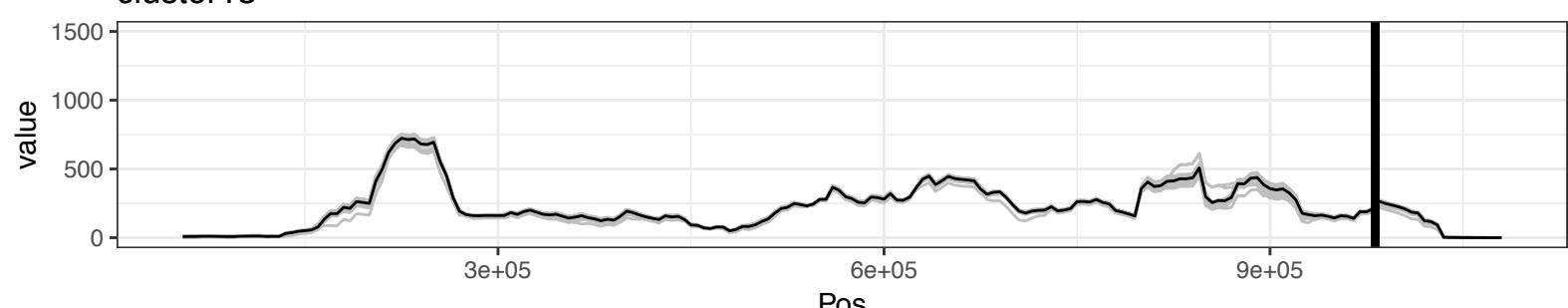
cluster4



cluster11

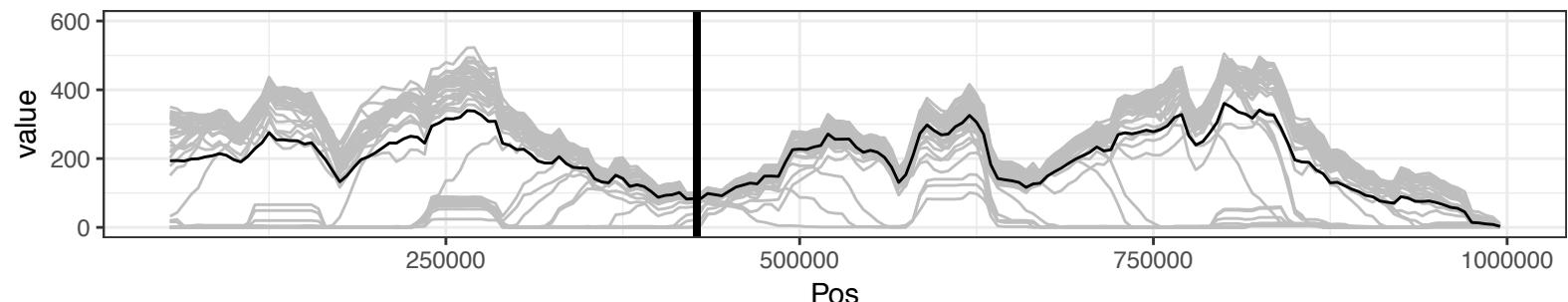


cluster13

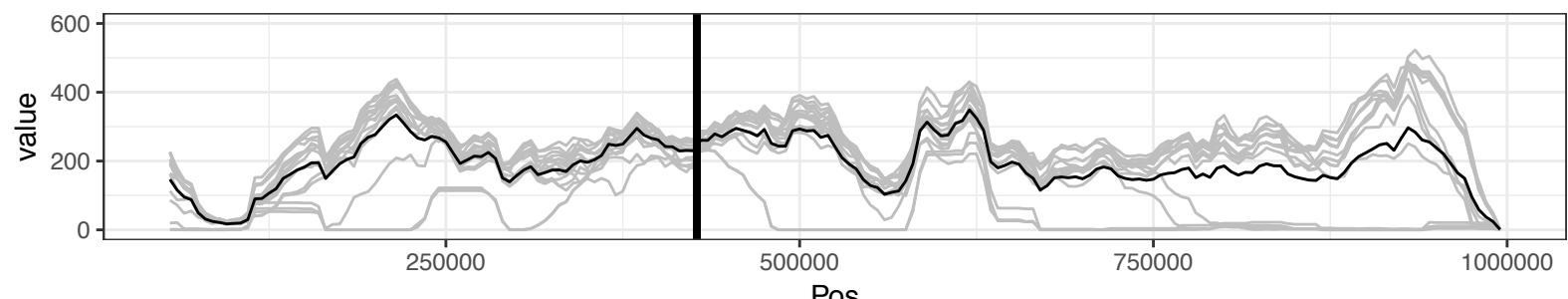


CHROMOSOME 7: sliding windows of 50,000bp, step 5000

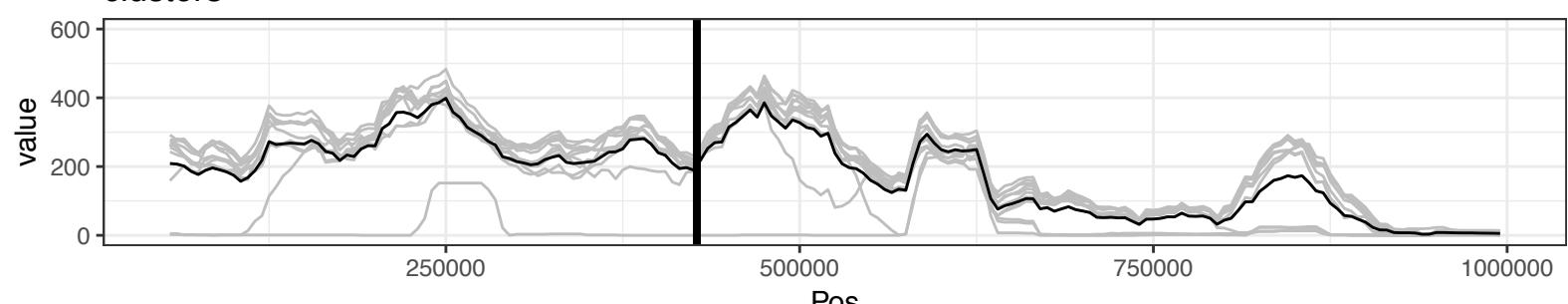
cluster1



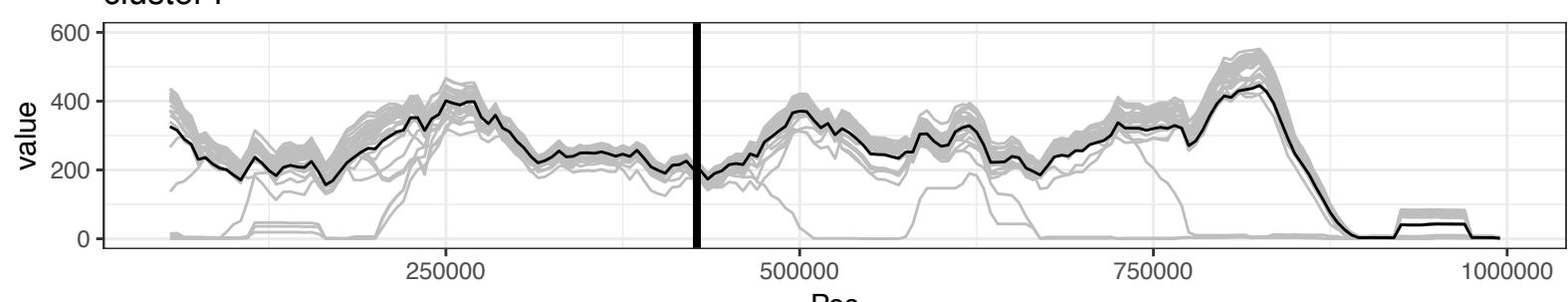
cluster2



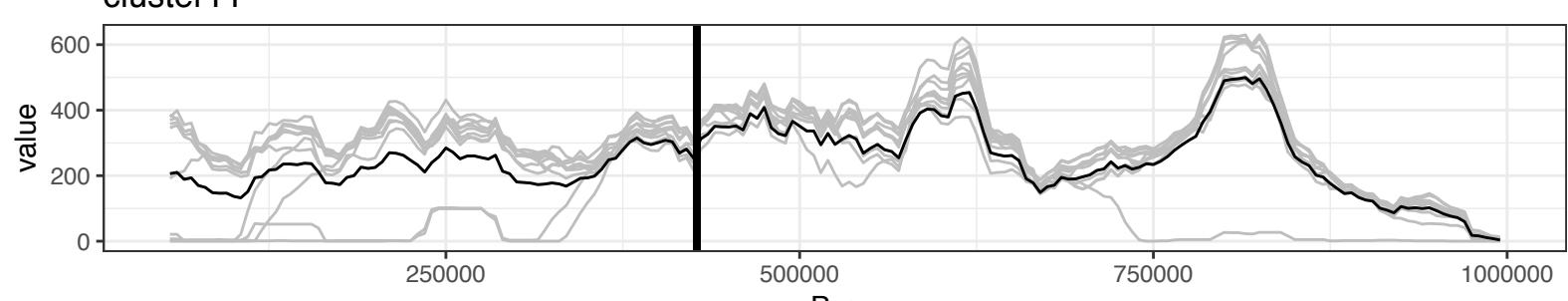
cluster3



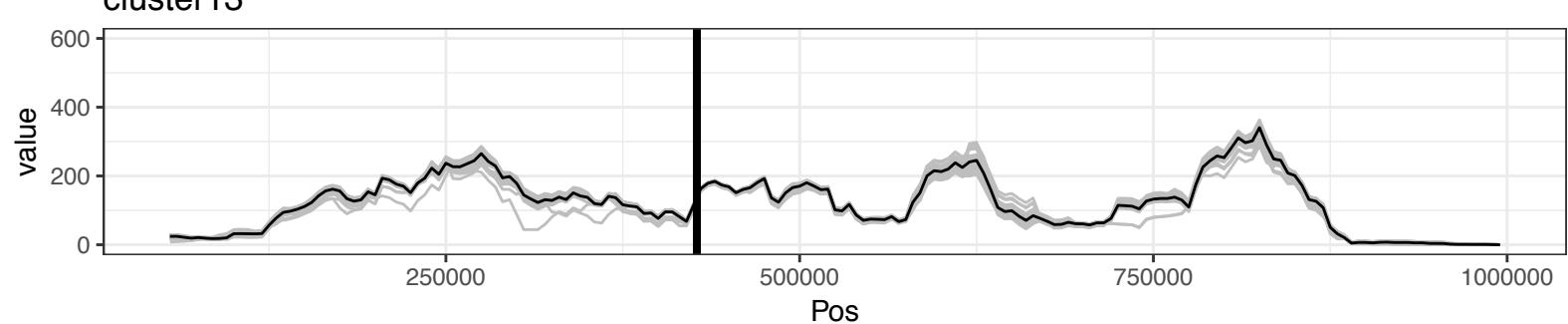
cluster4



cluster11

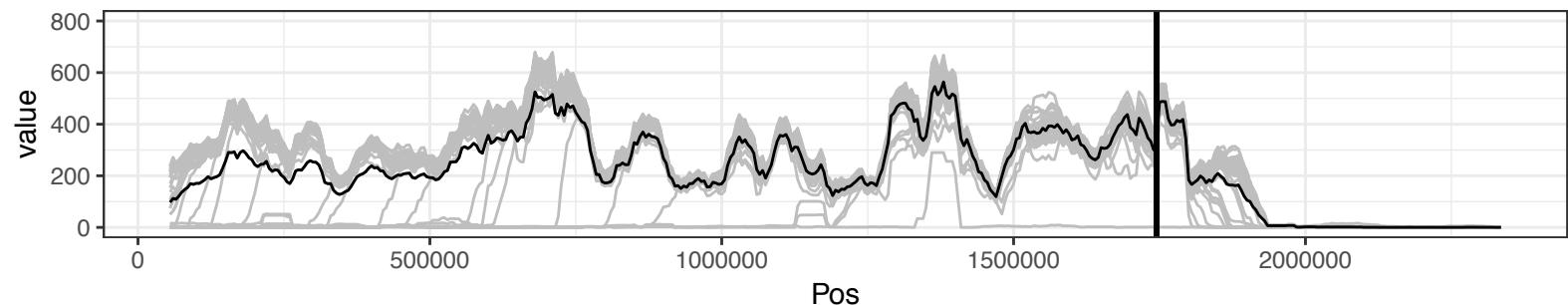


cluster13

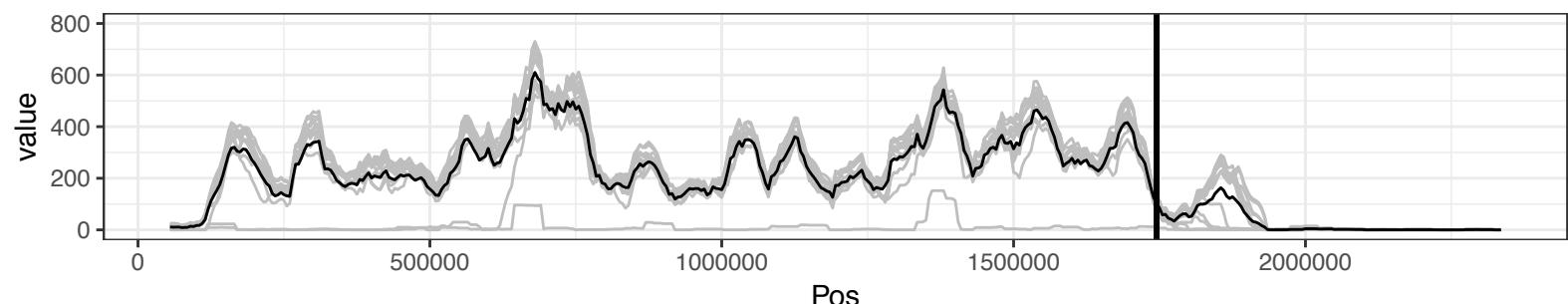


CHROMOSOME R: sliding windows of 50,000bp, step 5000

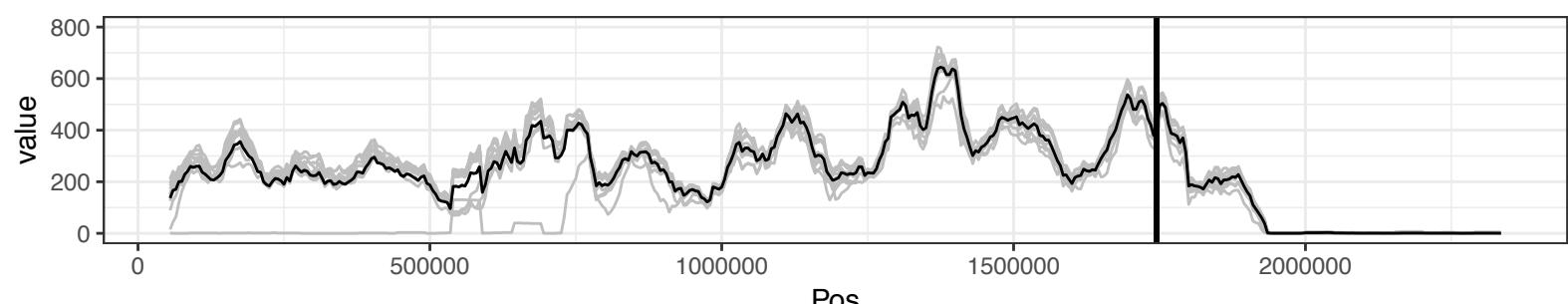
cluster1



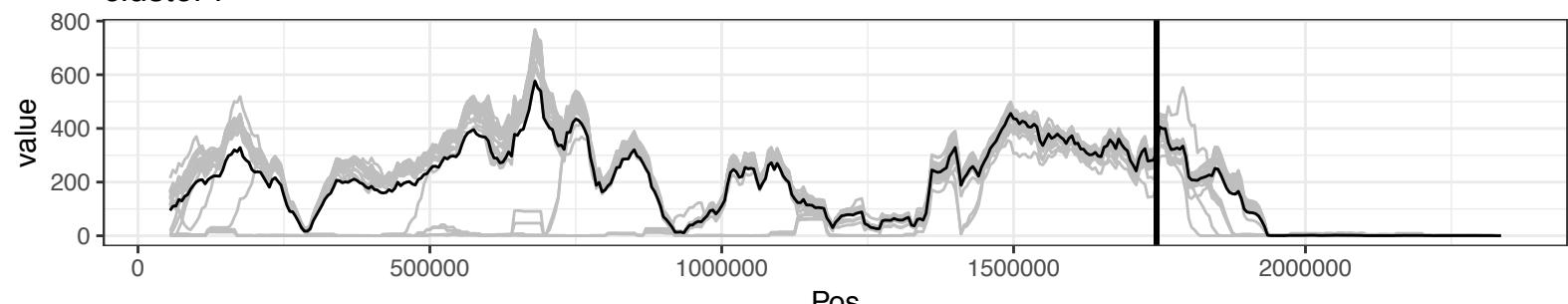
cluster2



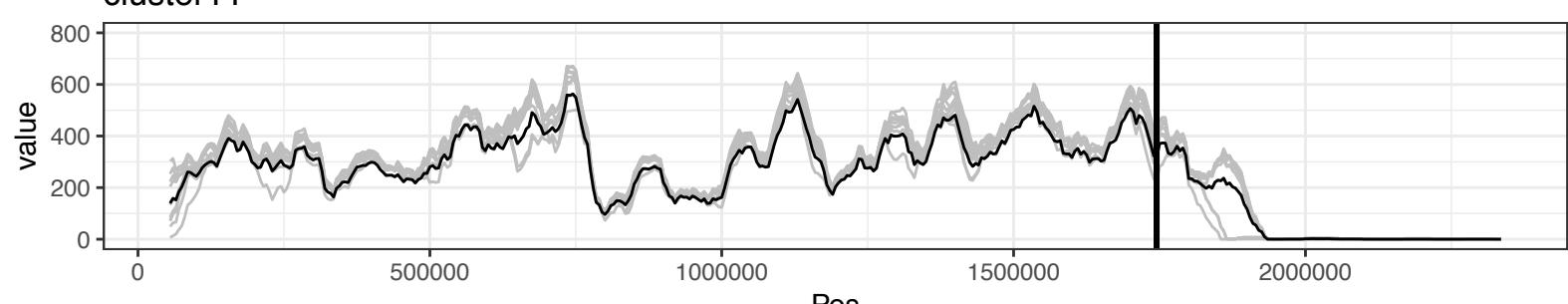
cluster3



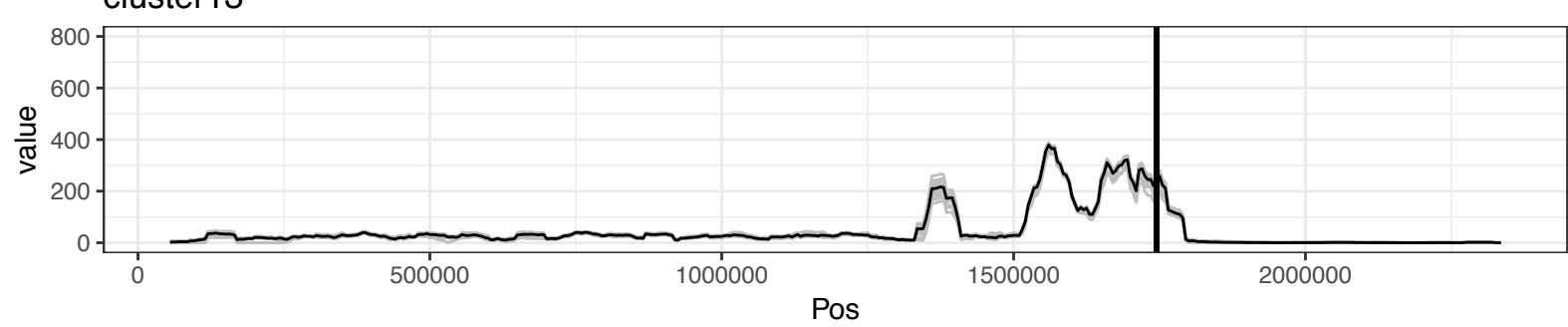
cluster4



cluster11



cluster13



Supplementary Fig. 7: Heterozygosity plots by chromosome and by cluster (for the six most represented clusters 1, 2, 3, 4, 11 and 13. Counts of heterozygous SNPs per windows of 50,000bp were calculated for each strain with a sliding window step of 5,000bp. Plots were generated using the R package ggplot2.

Fst	Cluster 2	Cluster 3	Cluster 4	Cluster 11	Cluster 13
Cluster 1	0,8	0,81	0,83	0,81	0,87
Cluster 2	X	0,77	0,81	0,78	0,87
Cluster 3	X	X	0,82	0,79	0,89
Cluster 4	X	X	X	0,83	0,89
Cluster 11	X	X	X	X	0,9

Supplementary Table 1 (related to Fig. 2): Fixation indices (FST) between clusters calculated using ANGSD.

	pi
Cluster 1	0.478
Cluster 2	0.254
Cluster 3	0.386
Cluster 4	0.256
Cluster 11	0.427
Cluster 13	0.140

Supplementary Table 2 (related to Fig. 1 and 2):
Nucleotide diversity (Π) within clusters calculated with
samtools.

Polymorphism	Cluster 1	Cluster 2	Cluster 3	Cluster 4	Cluster 11	Cluster 13
Cluster 1	28632	4989	4696	4765	4438	530
Cluster 2	4989	36720	6393	6296	5233	884
Cluster 3	4696	6393	27939	5677	4854	697
Cluster 4	4765	6296	5677	34028	5081	838
Cluster 11	4438	5233	4854	5081	24350	749
Cluster 13	530	884	697	838	749	12310

Supplementary Table 3 (related to Supplementary Data 3): Number of polymorphic positions per cluster.

Media	Nutrients	Concentration (g/L)	Weight for 200mL	Volume (L)	Initial concentration
VSM (Vaginal Simulative Medium)	NaCl		0,0116	5mM	
	KOH		0,036	2,8g->100mL=0,5M	
	Glycerol		0,000128	99%	
	Ca(OH)2		0,2	0,15g->200mL=0,01M	
	Urea		0,0134	3g->100mL=0,5M	
	Glucose		0,066	9g->100mL=0,5M	
	YNB		weight: 6,7g	solid YNB	
	Acetic acid		0,0085	2M	
	Lactic acid		0,00192	Pure	
SSM (Saliva Simulative Medium)	KCl	0,72	0,144		
	CaCl2(H2O)2	0,22	0,044		
	NaCl	0,6	0,12		
	KH2PO4	0,68	0,136		
	Na2HPO4	0,343	0,0686		
	KHCO3	1,5	0,3		
	KSCN	0,06	0,012		
	Citric acid	0,03	0,006		
	Agar	20	4		

Supplementary Table 4: Composition of vaginal simulative medium (VSM) and saliva simulative medium (SSM).

ORFs	Primer pairs	Side
<i>AFG1</i>	GCCCGGTGTTAACAGAGATC	Forward
	TATAGGCCACCGCATCTTG	Reverse
<i>BMT6</i>	CACCATACGCTCTACAAAACCTCA	Forward
	ATGGAATTGAGCGAGACGTT	Reverse
<i>SFL1</i>	TGTTCTGCAACGGGATTAGG	Forward
	AACCTCAACGTTGCTCCTCA	Reverse
<i>VTA1</i>	AGGAGCACCGAAATTTTACCAAG	Forward
	CAAATTTAGCATGCTTTGCAC	Reverse
<i>ZCF29</i>	CACGGATCTGTTCCCTACA	Forward
	CGATTCCCAGTAGCATGACATA	Reverse

Supplementary Table 5: Primer pairs used to check the presence of premature stop codons in six ORFs (*AFG1*, *BMT6*, *SFL1*, *VTA1* and *ZCF29*).