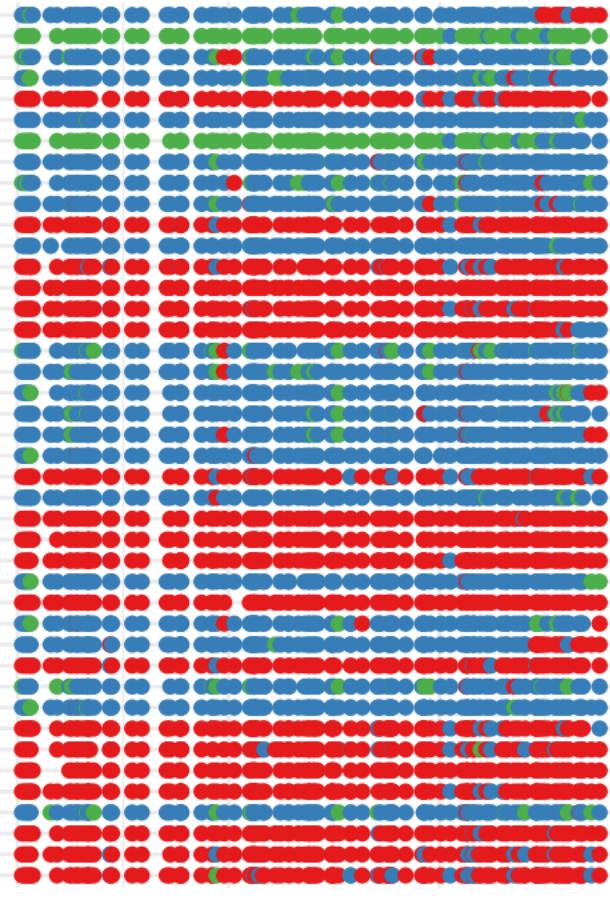


# BFL 2.5 HanXRQChr01



## Allelic state

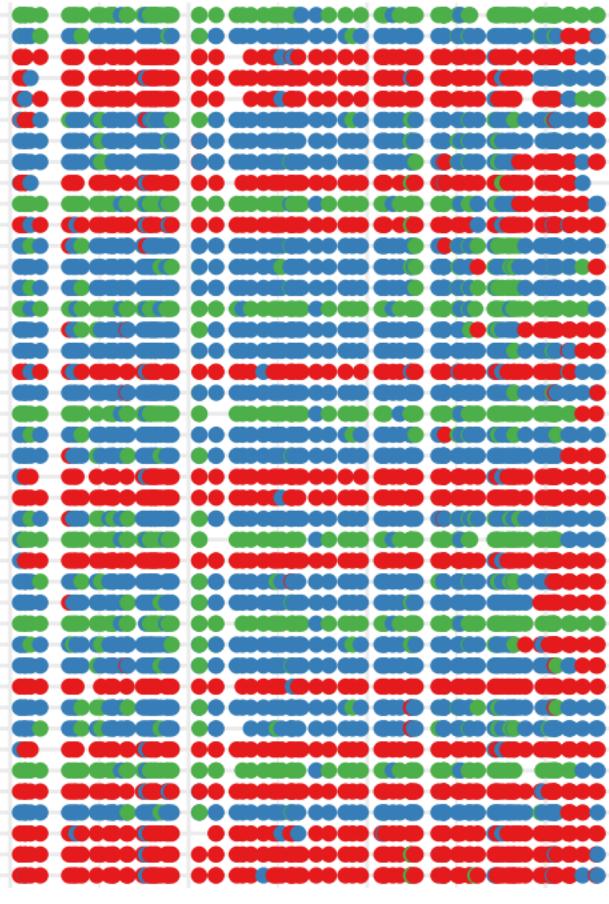
- Annuus
- Heterozygote
- Debilis

0e+00

5e+07

1e+08

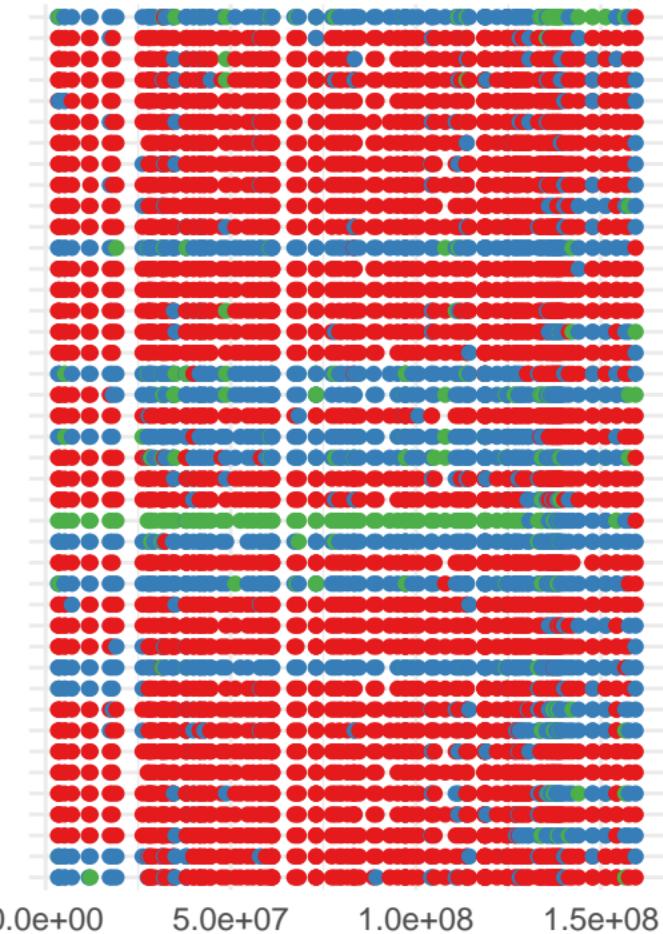
# BFL 2.5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 2.5 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 2.5 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 2.5 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 2.5 HanXRQChr06

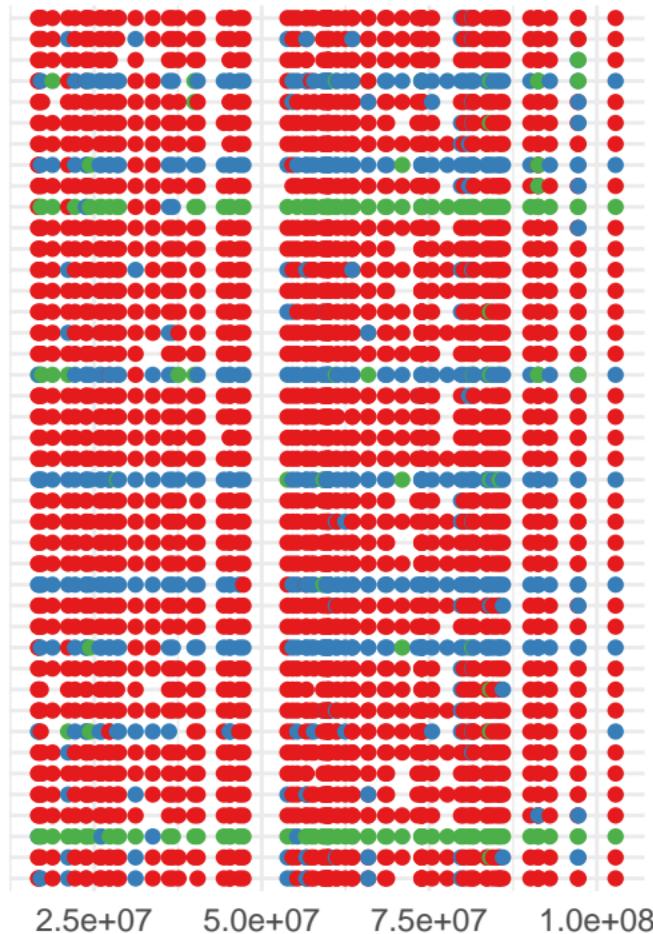


## Allelic state

- Annus
- Heterozygote
- Debilis

2.5e+07   5.0e+07   7.5e+07   1.0e+08

# BFL 2.5 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 2.5 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 2.5 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 2.5 HanXRQChr10

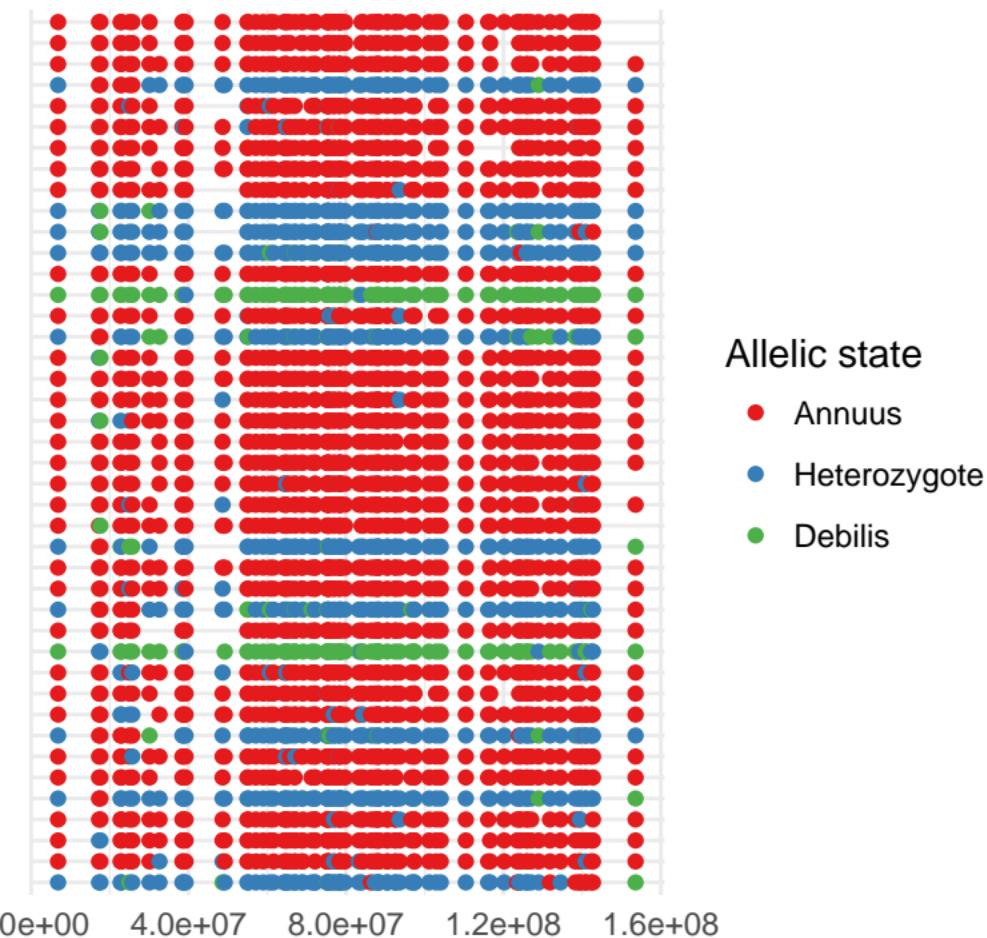


## Allelic state

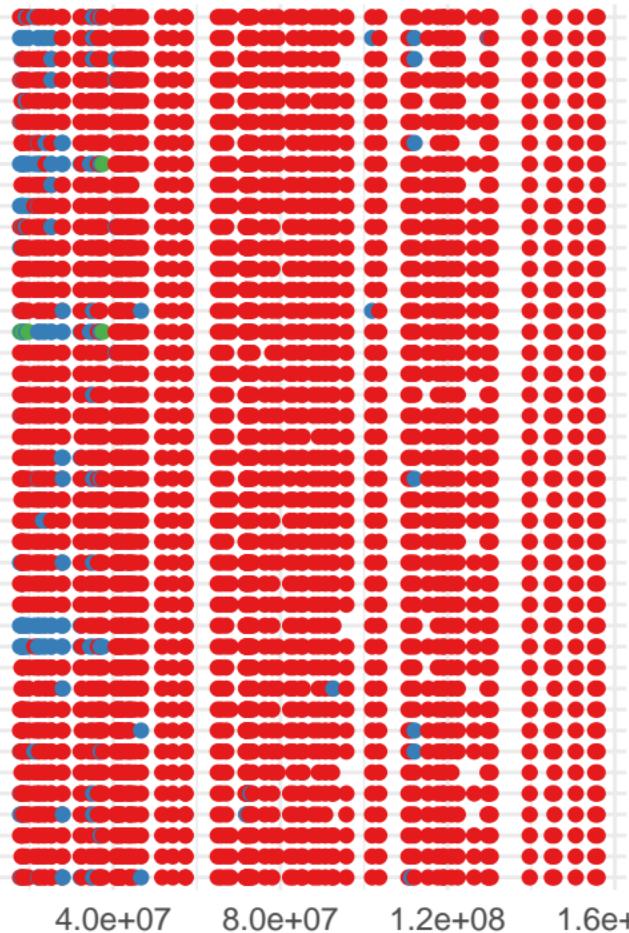
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 2.5 HanXRQChr11



# BFL 2.5 HanXRQChr12

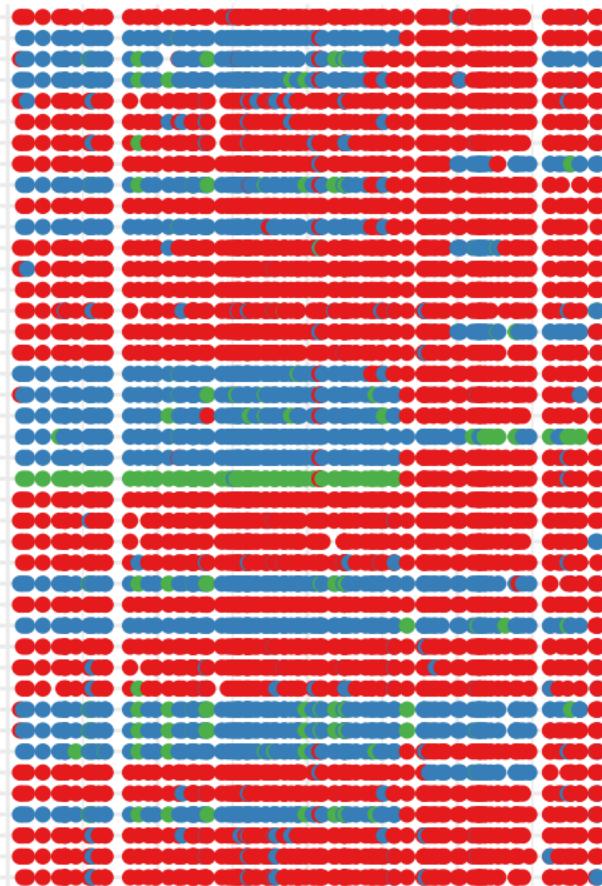


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# BFL 2.5 HanXRQChr13

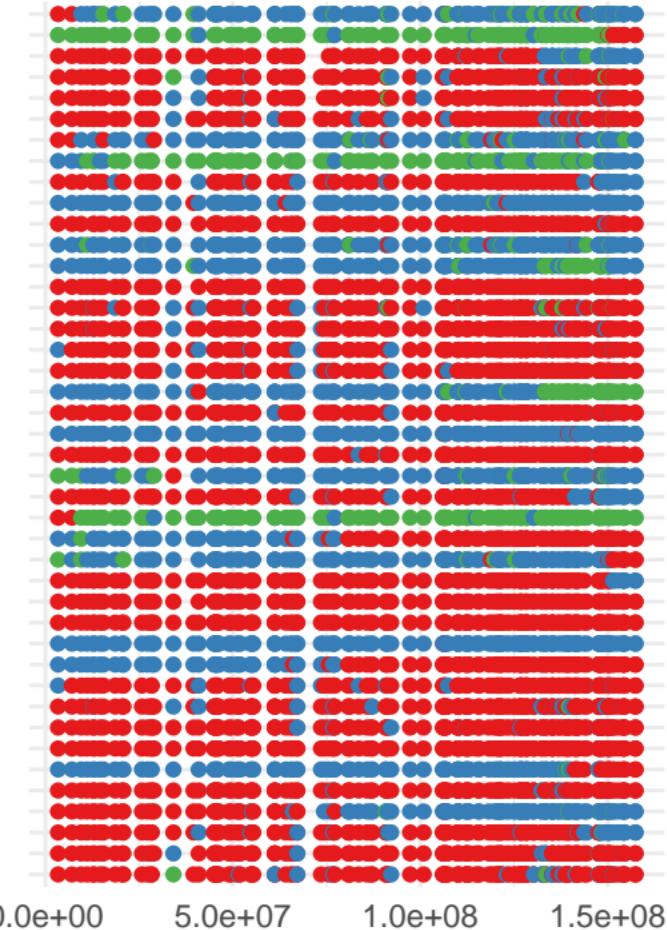


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00    5.0e+07    1.0e+08    1.5e+08    2.0e+08

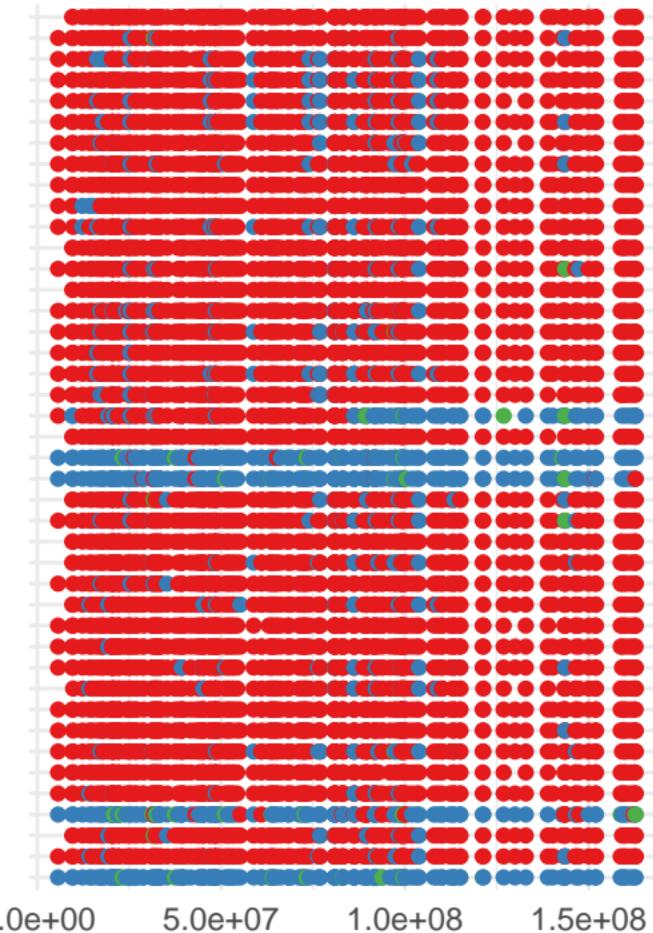
# BFL 2.5 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

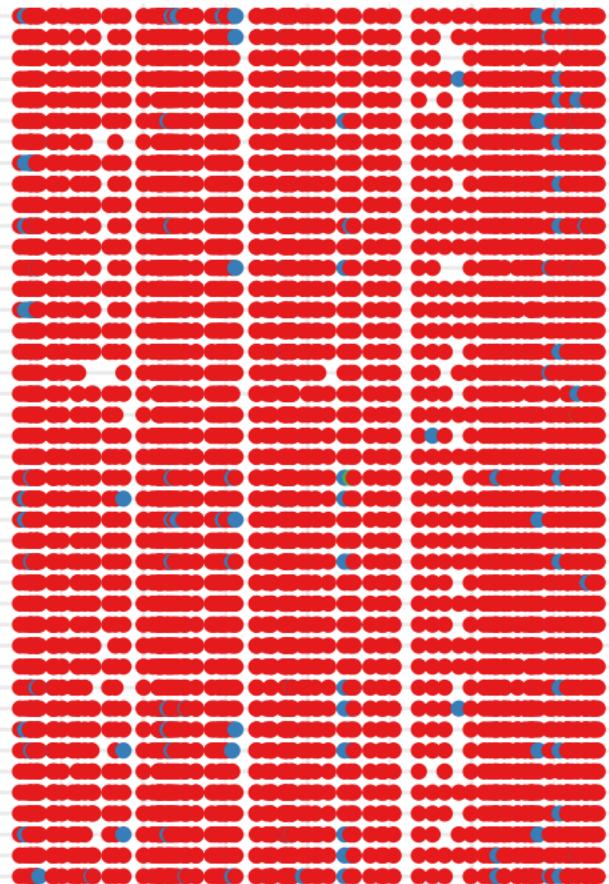
# BFL 2.5 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 2.5 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# BFL 2.5 HanXRQChr17

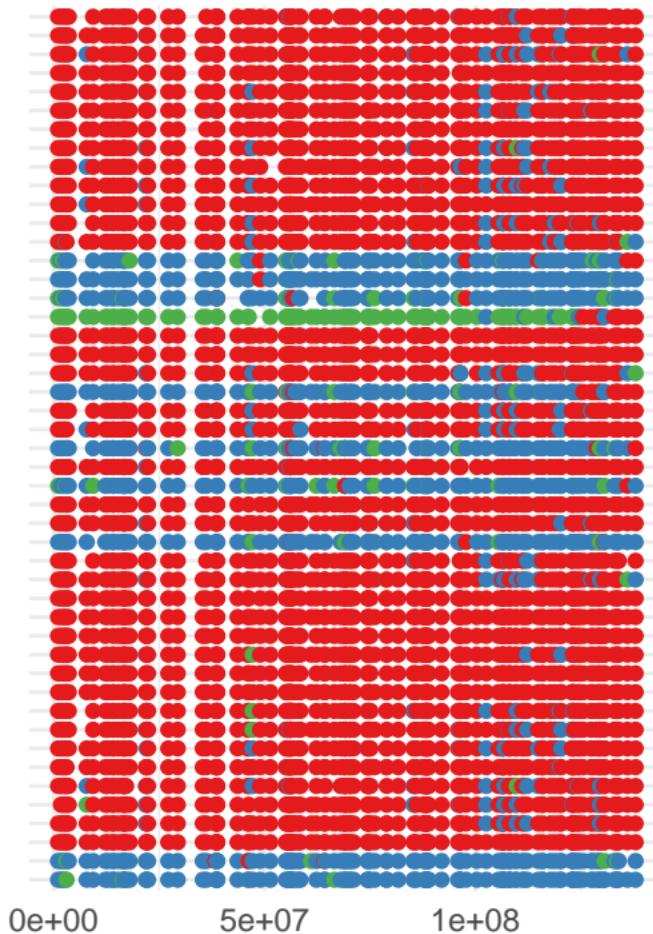


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 4 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

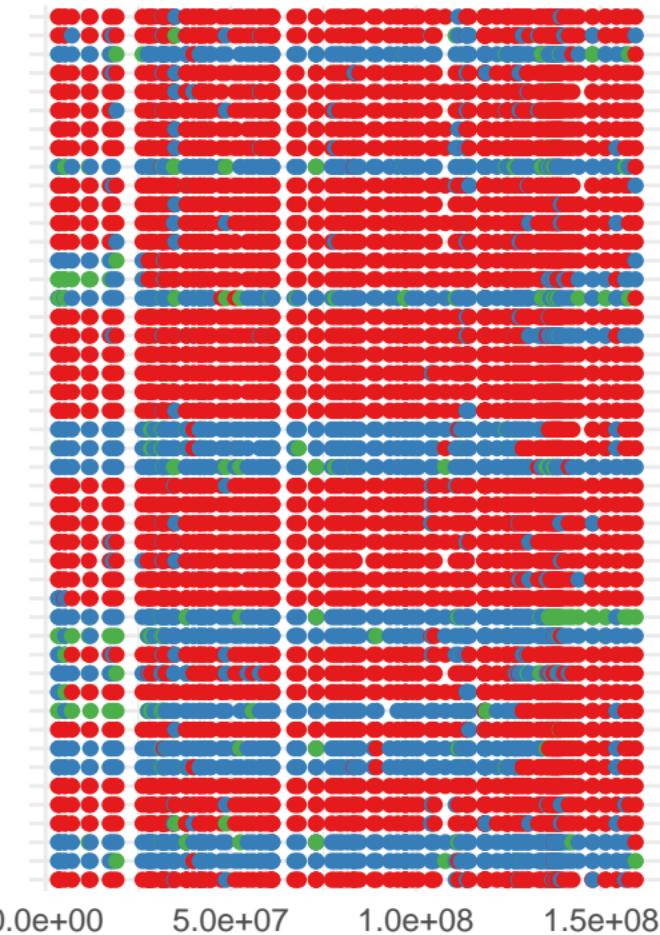
# BFL 4 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

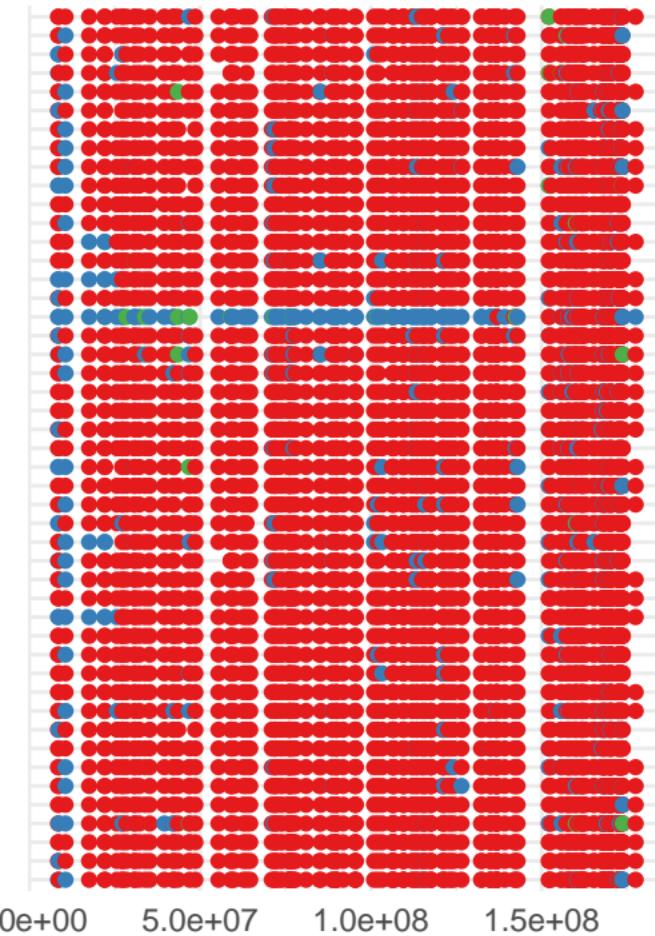
# BFL 4 HanXRQChr03



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

# BFL 4 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 4 HanXRQChr05

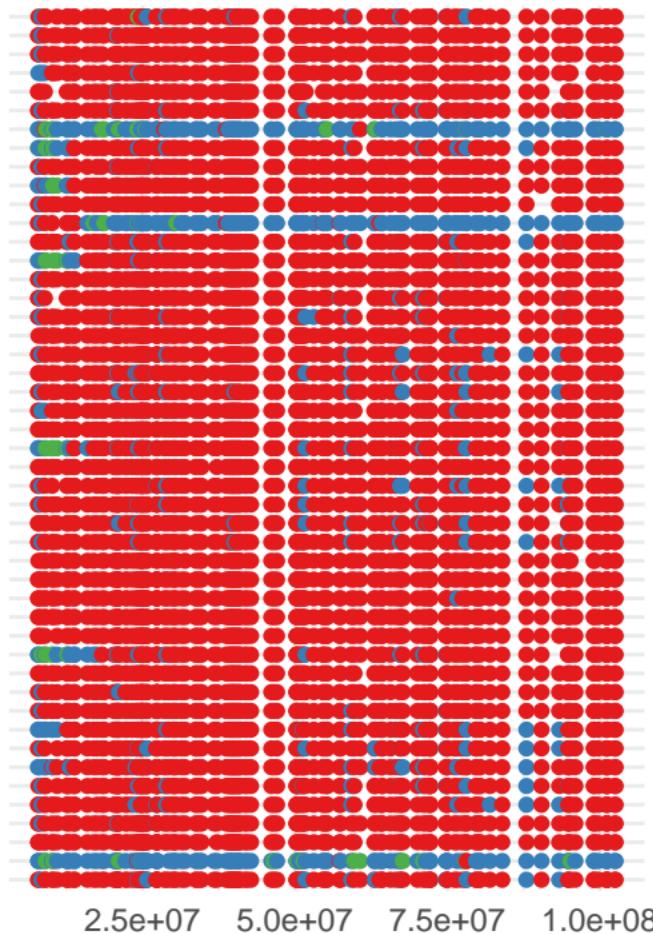


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 4 HanXRQChr06

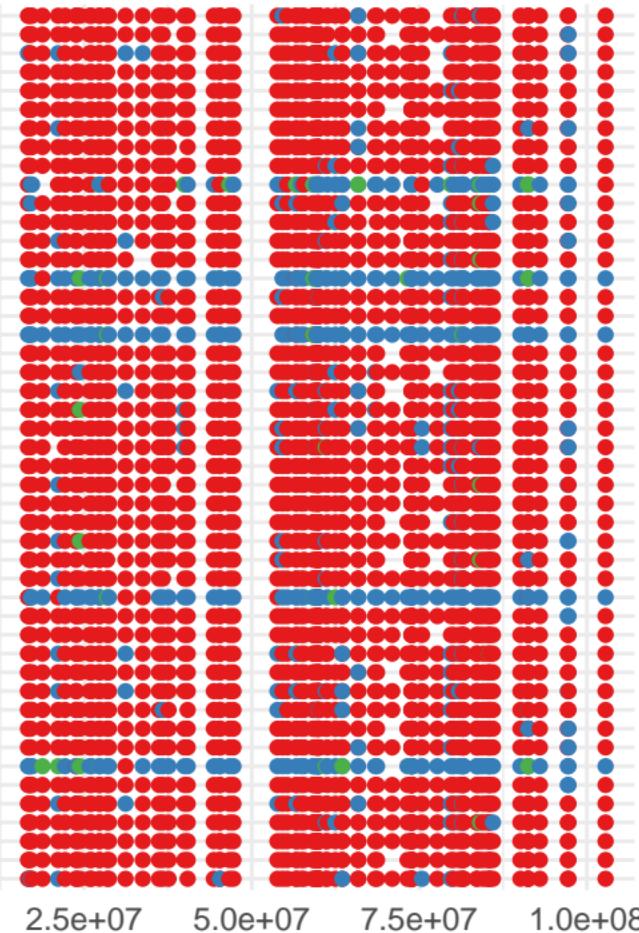


Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# BFL 4 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

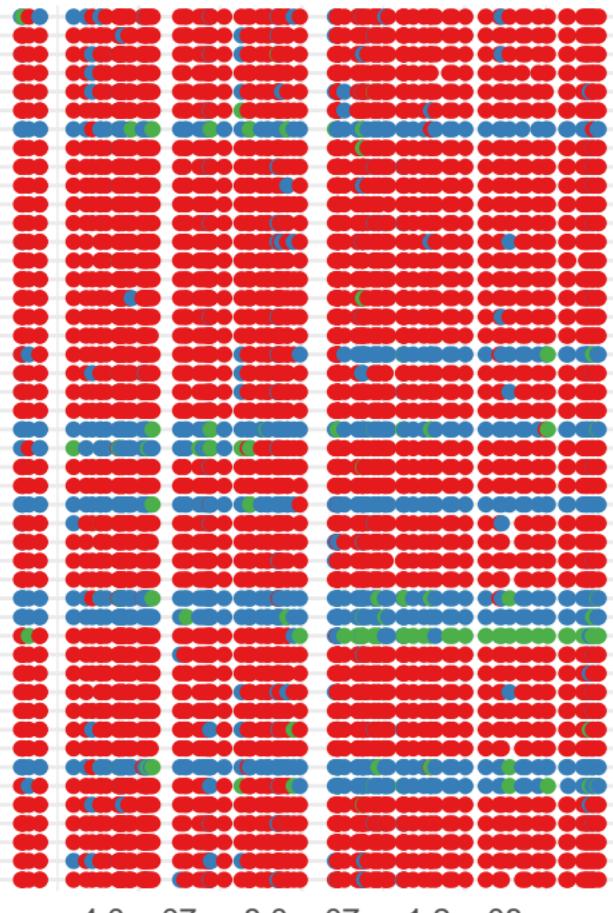
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 4 HanXRQChr08

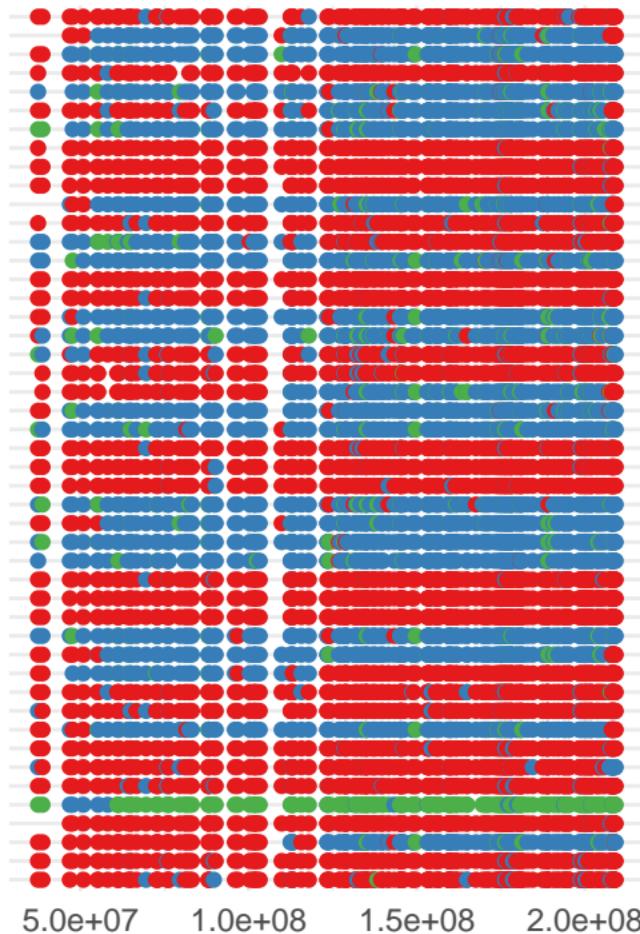


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 4 HanXRQChr09

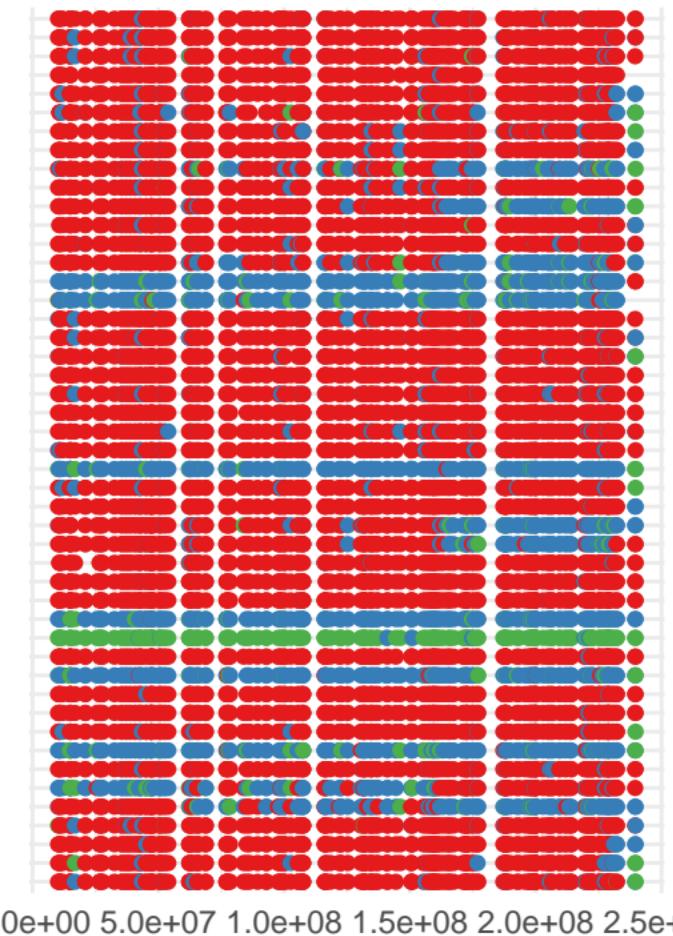


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 4 HanXRQChr10

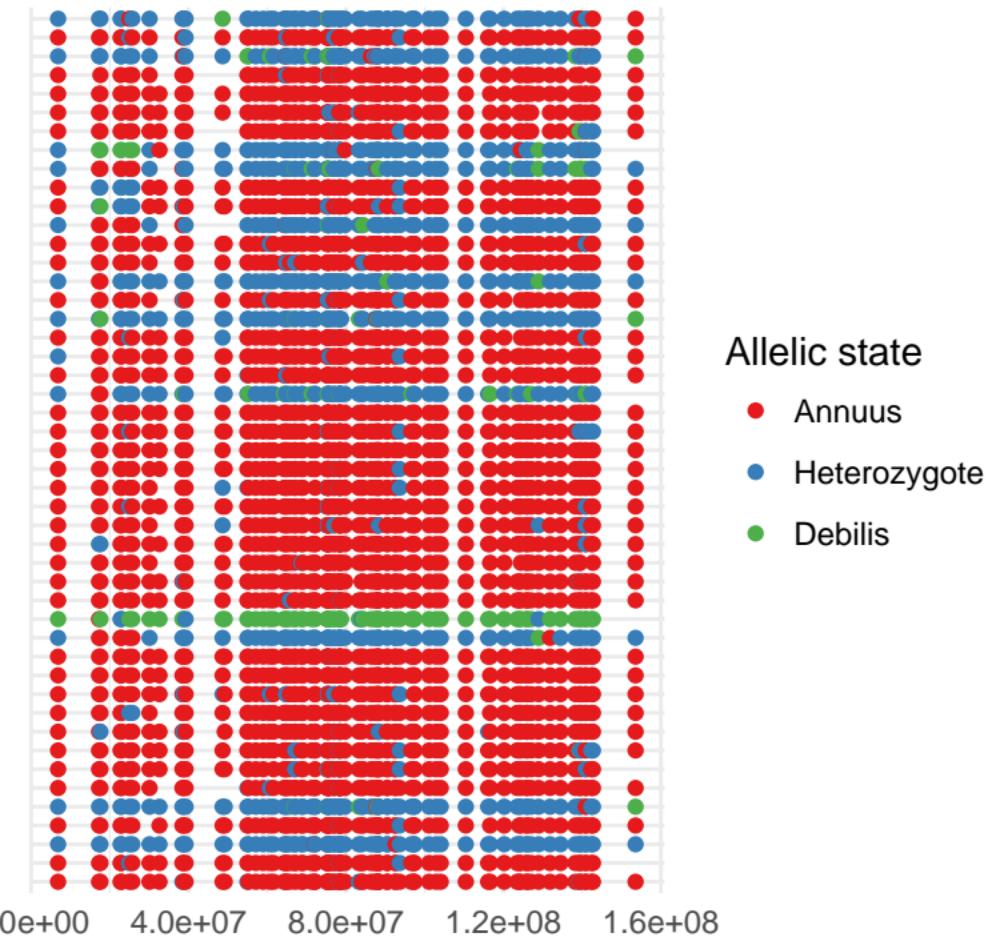


## Allelic state

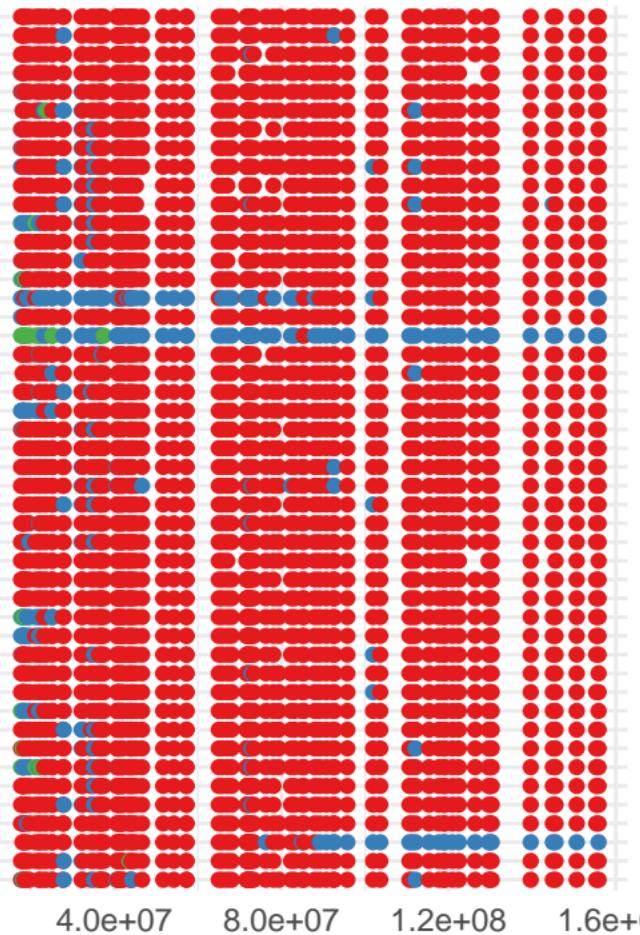
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 4 HanXRQChr11



# BFL 4 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

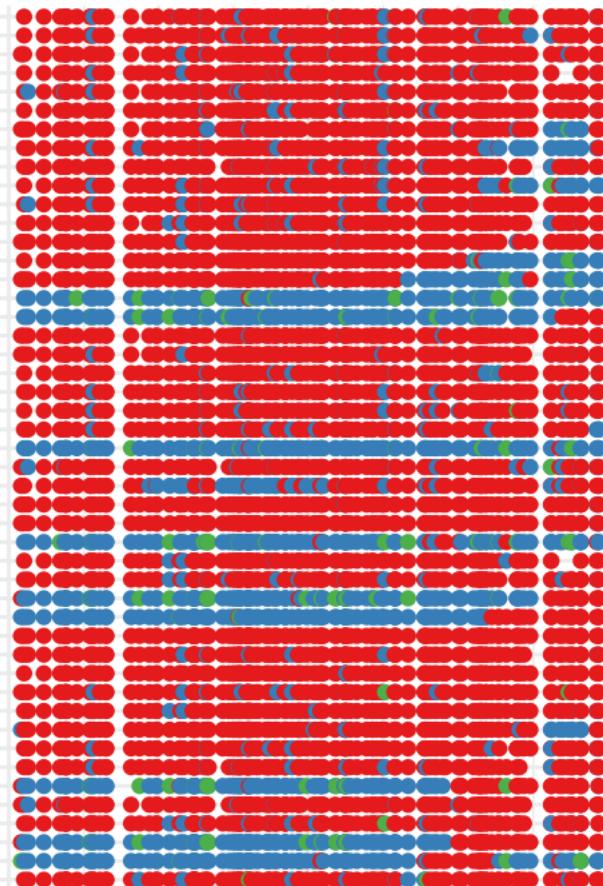
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# BFL 4 HanXRQChr13

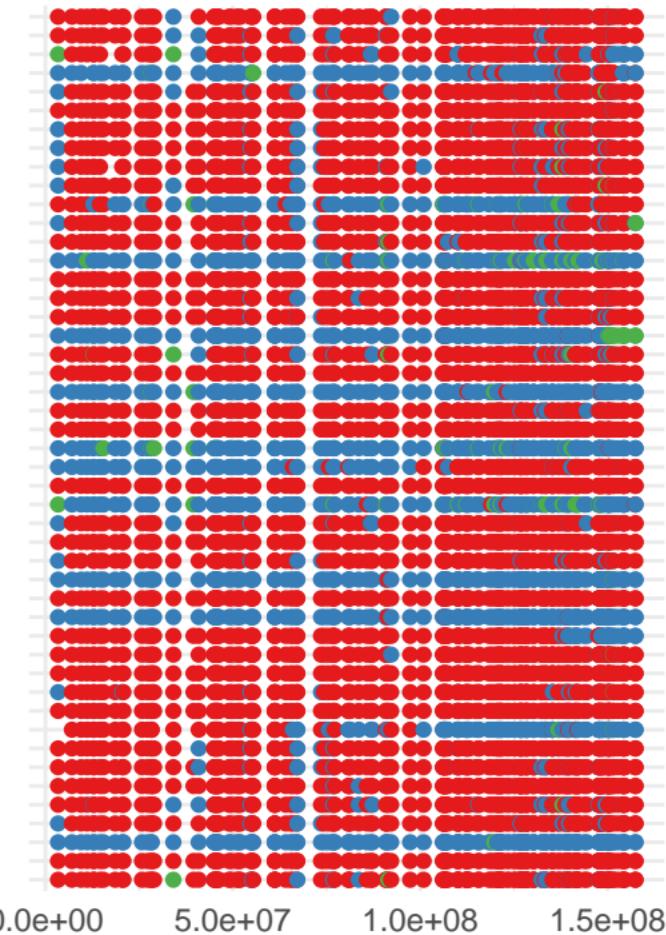


## Allelic state

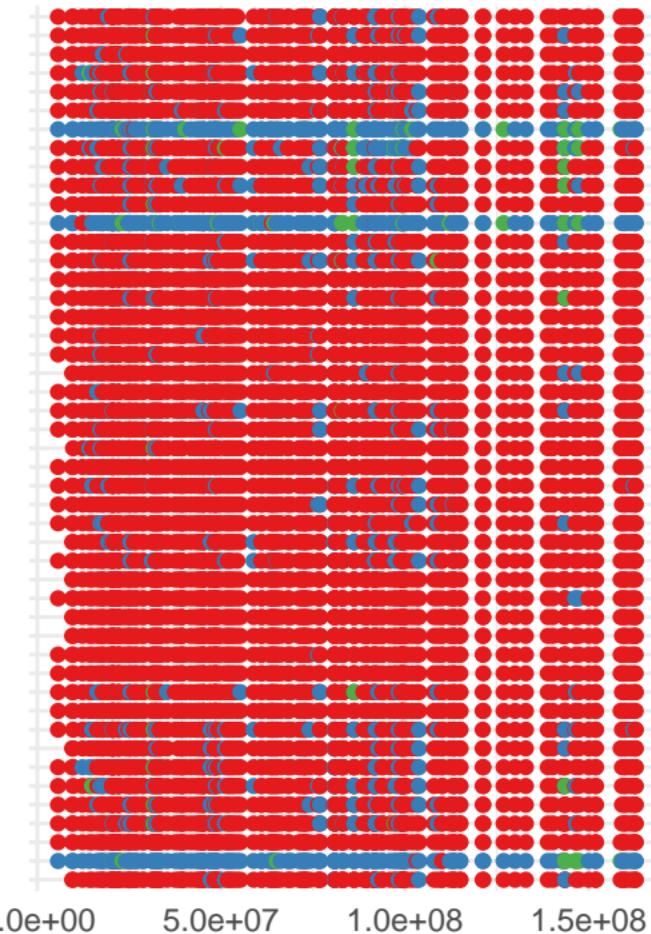
- Annus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 4 HanXRQChr14



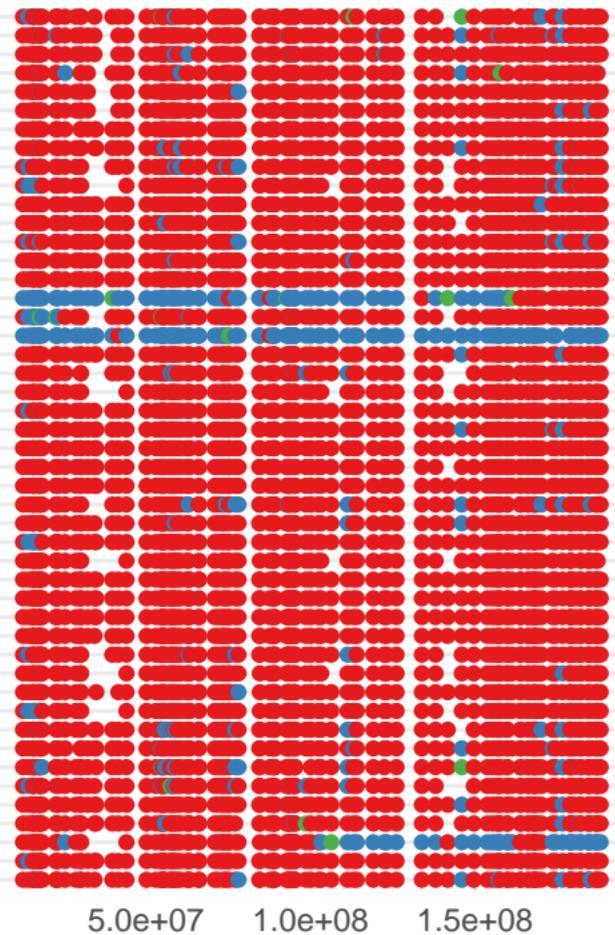
# BFL 4 HanXRQChr15



Allelic state

- Annuus
- Heterozygote
- Debilis

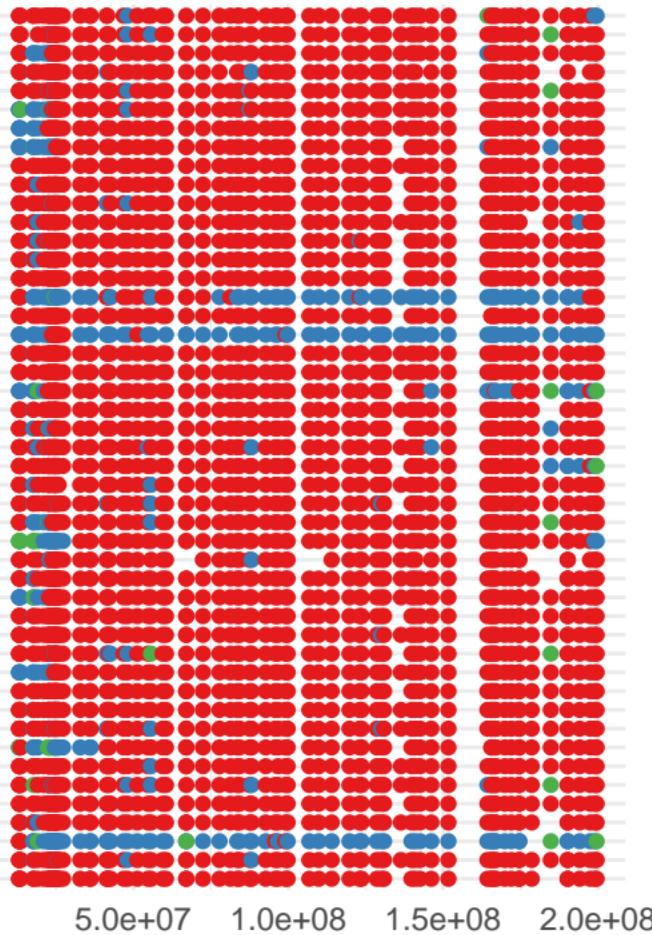
# BFL 4 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

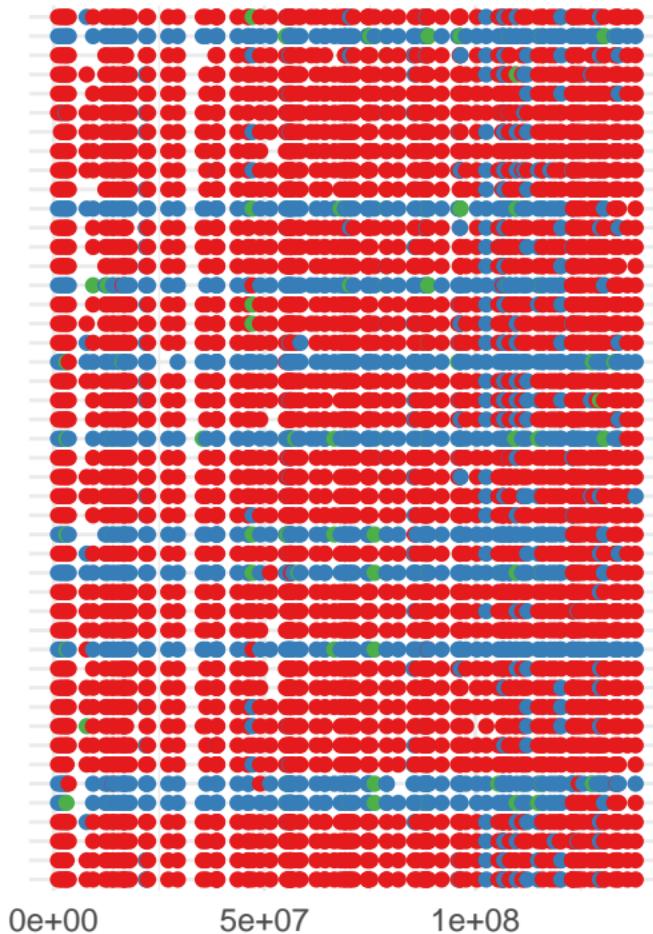
# BFL 4 HanXRQChr17



## Allelic state

- Annus
- Heterozygote
- Debilis

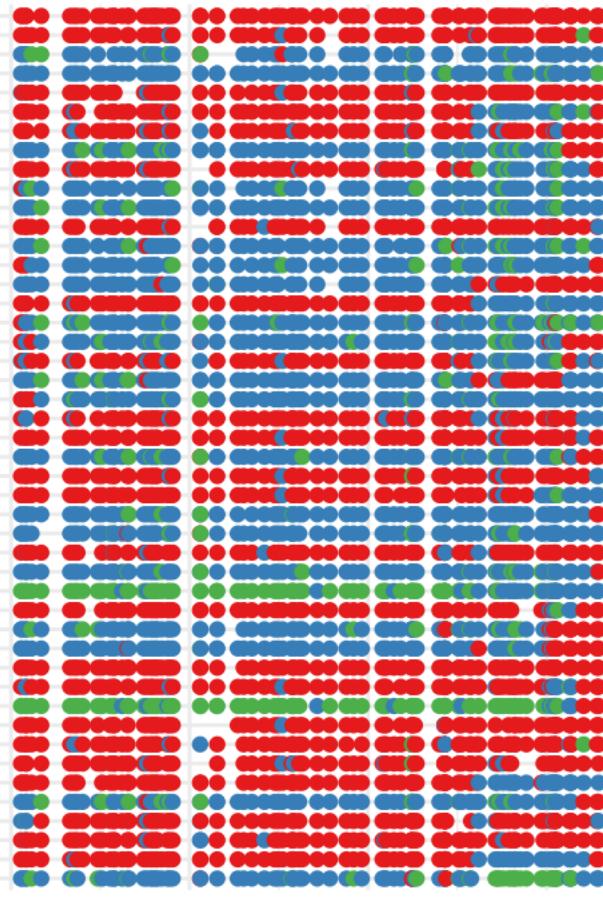
# BFL 5 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

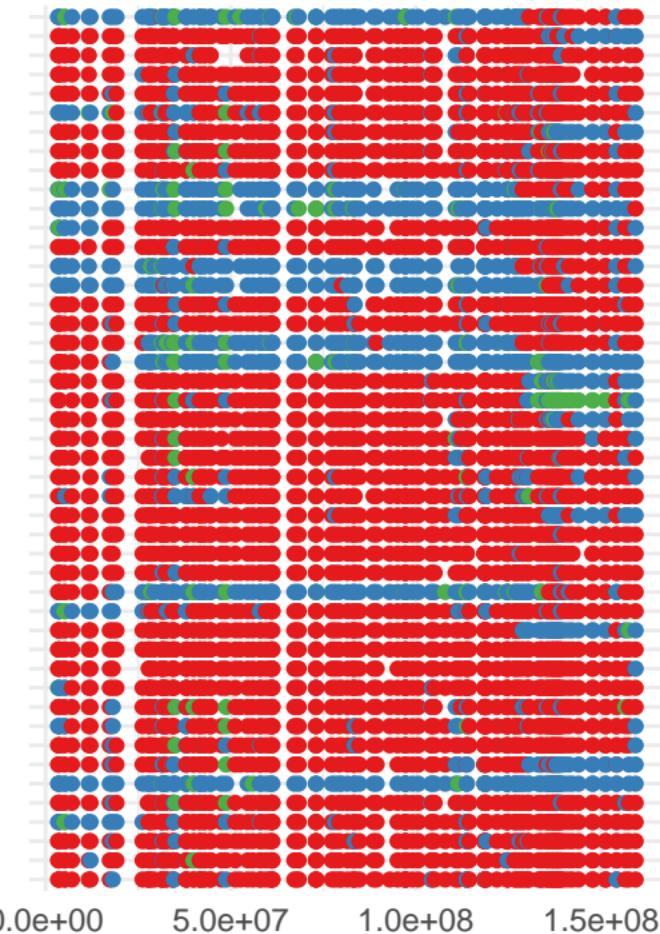
# BFL 5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

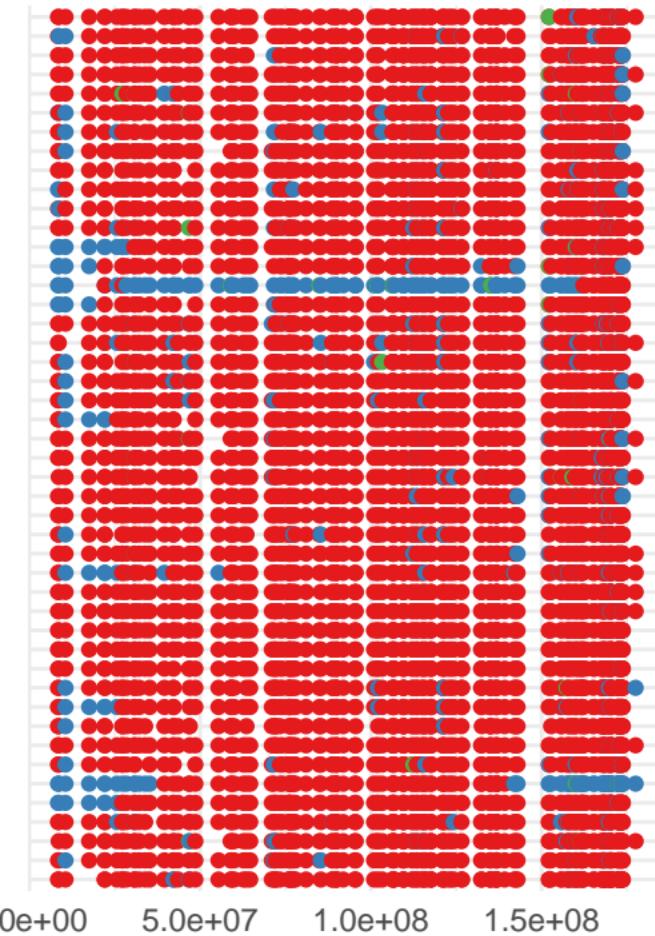
# BFL 5 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 5 HanXRQChr04



Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 5 HanXRQChr05

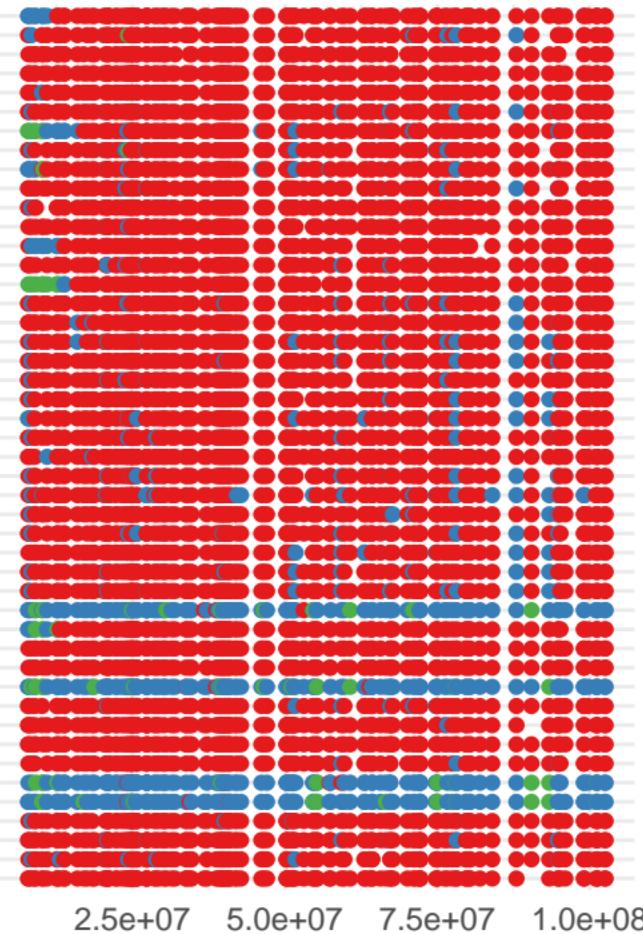


Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 5 HanXRQChr06

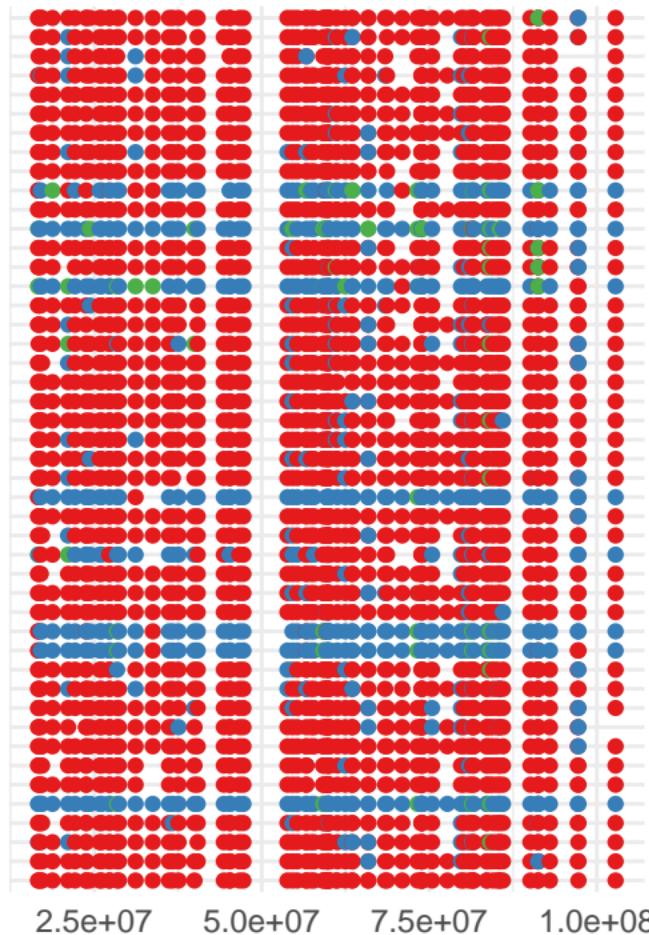


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# BFL 5 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

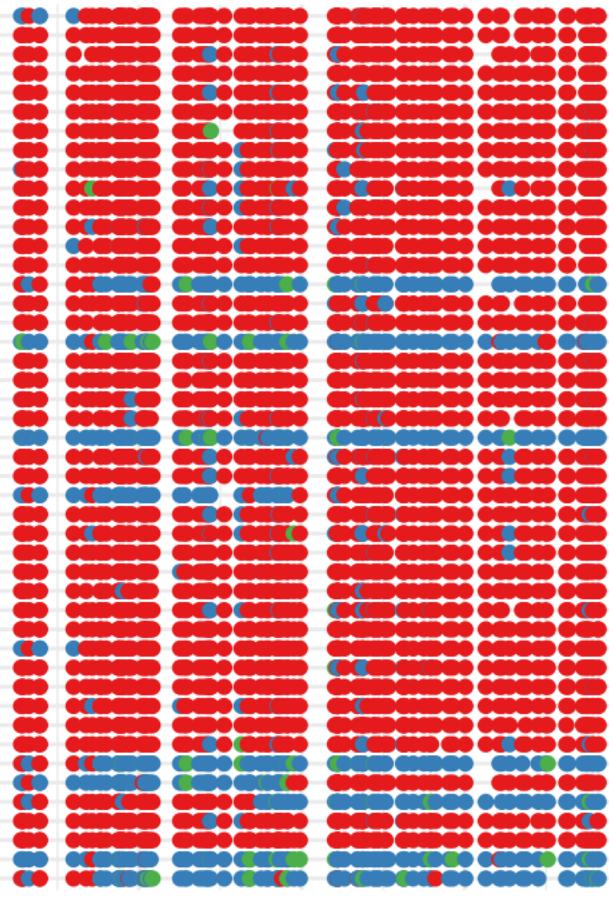
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 5 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 5 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 5 HanXRQChr10

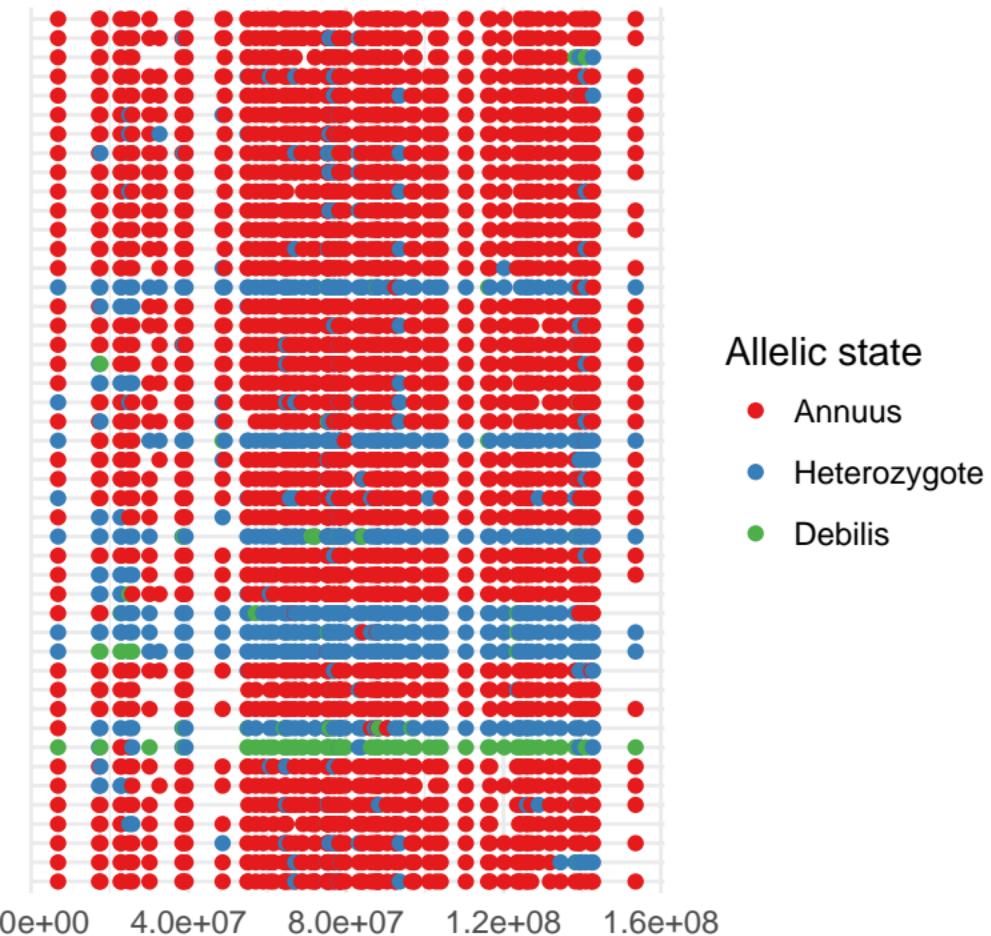


## Allelic state

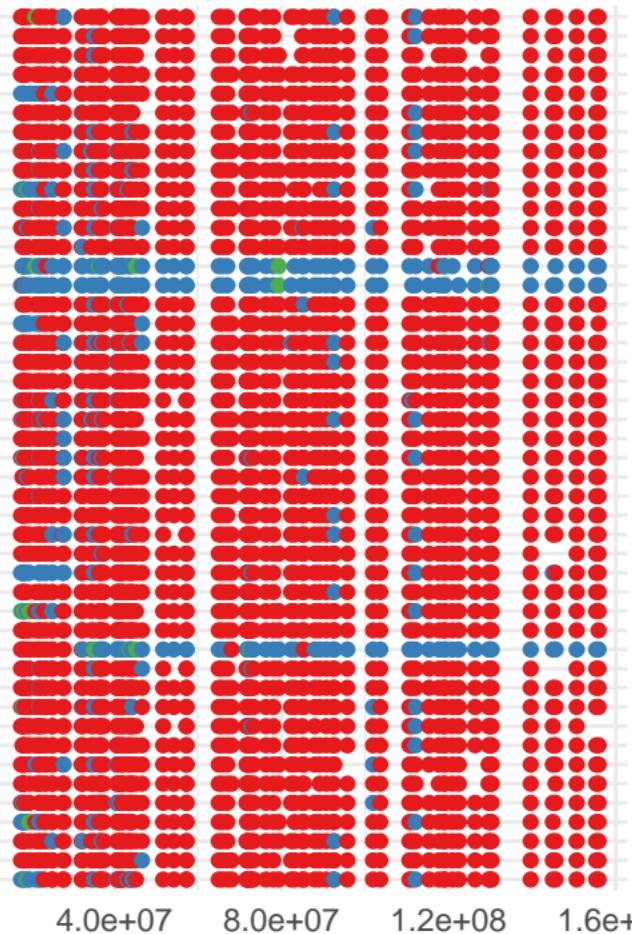
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 5 HanXRQChr11



# BFL 5 HanXRQChr12

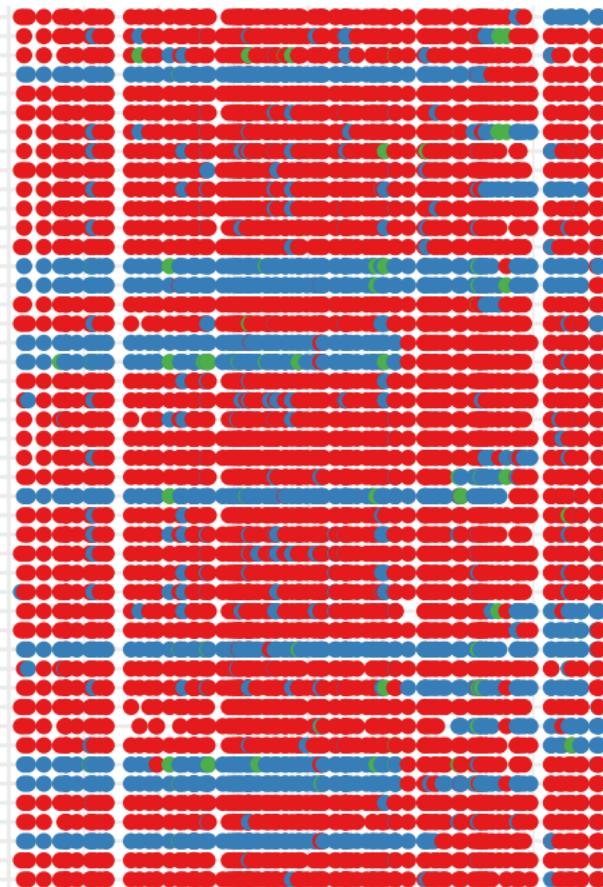


Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# BFL 5 HanXRQChr13

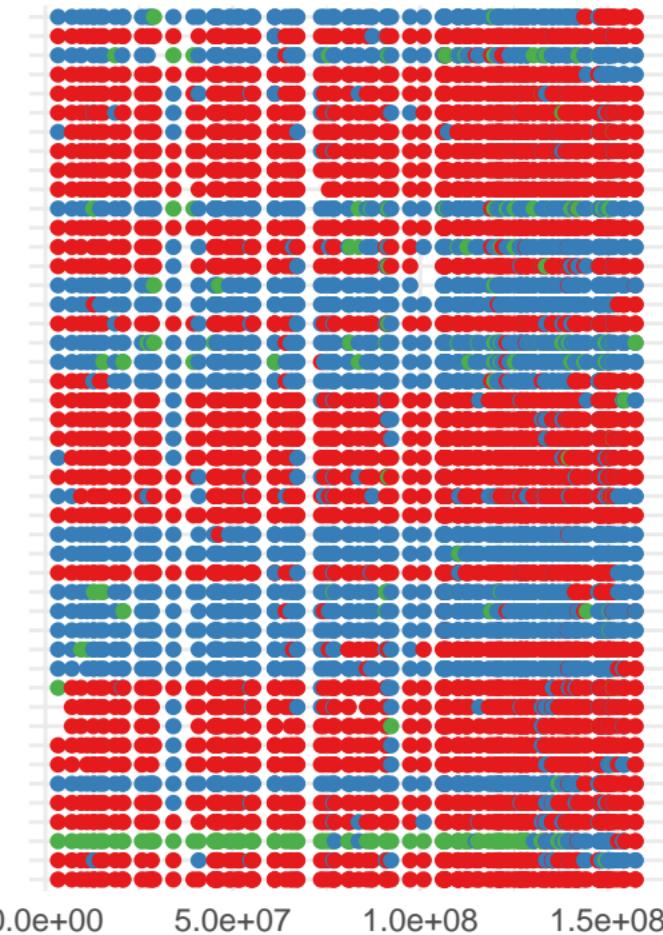


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

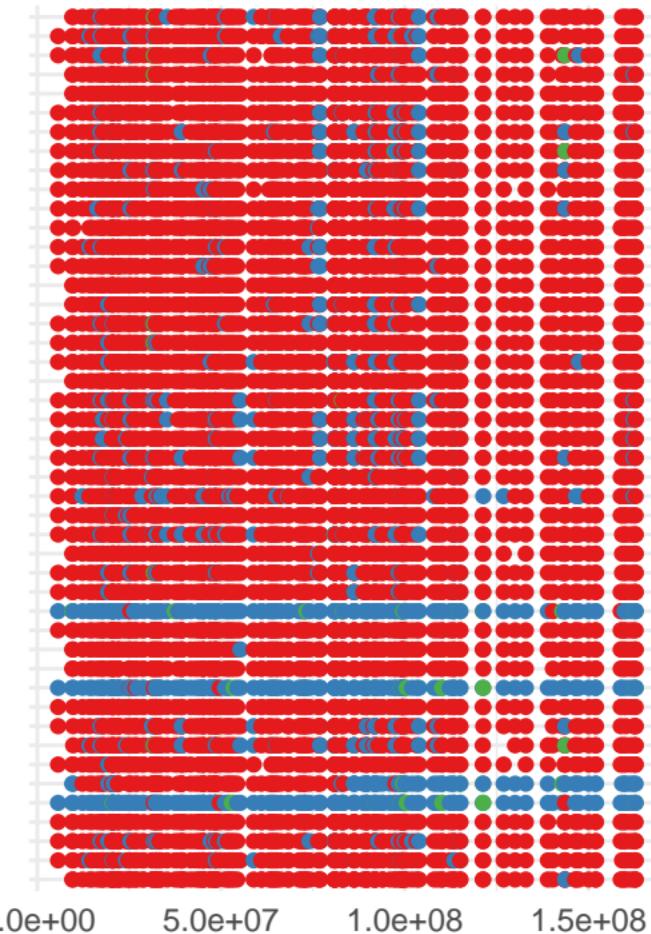
# BFL 5 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 5 HanXRQChr15



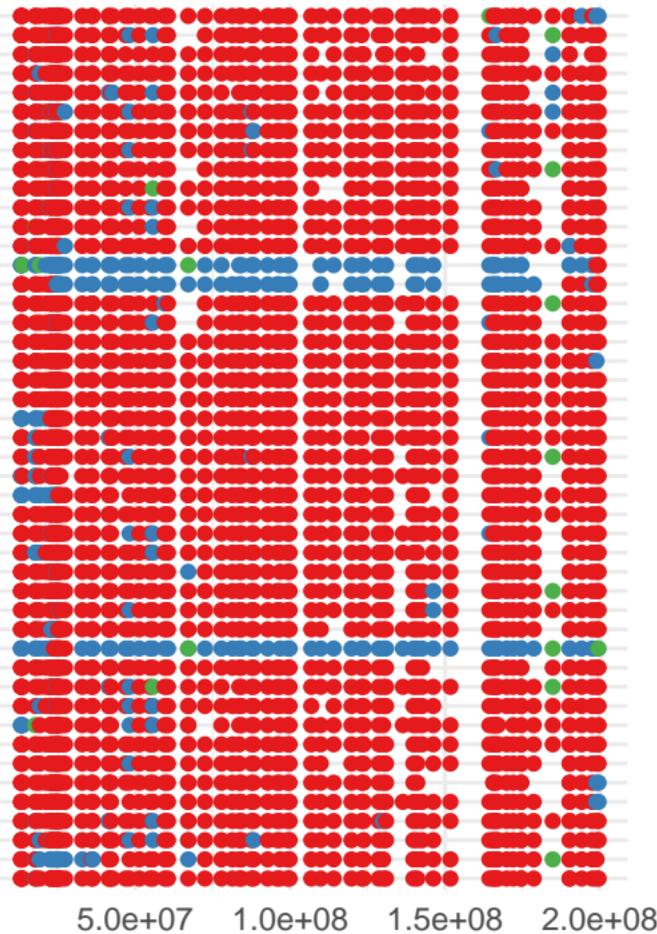
# BFL 5 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 5 HanXRQChr17

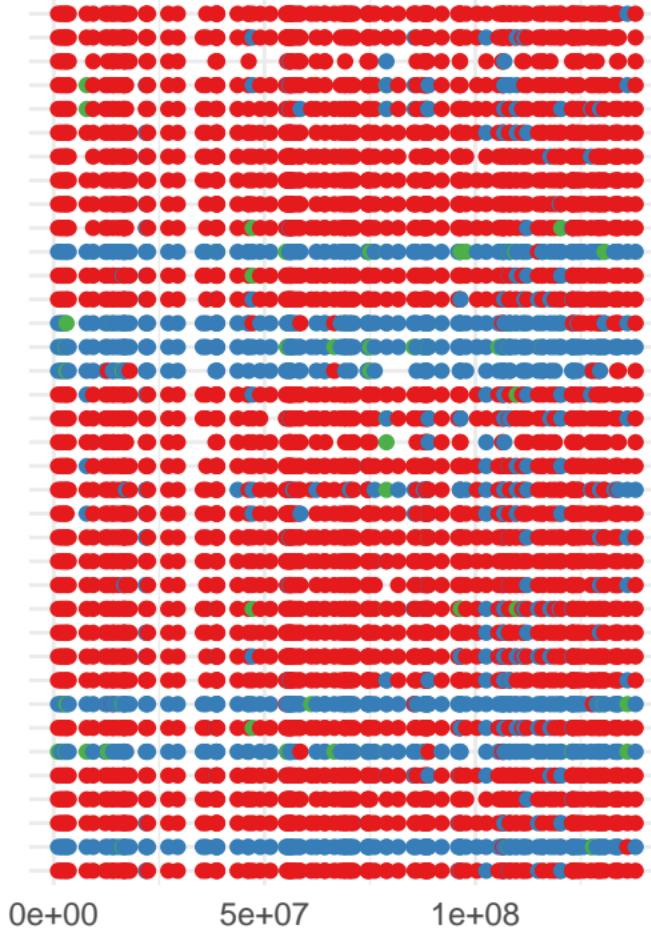


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 6 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

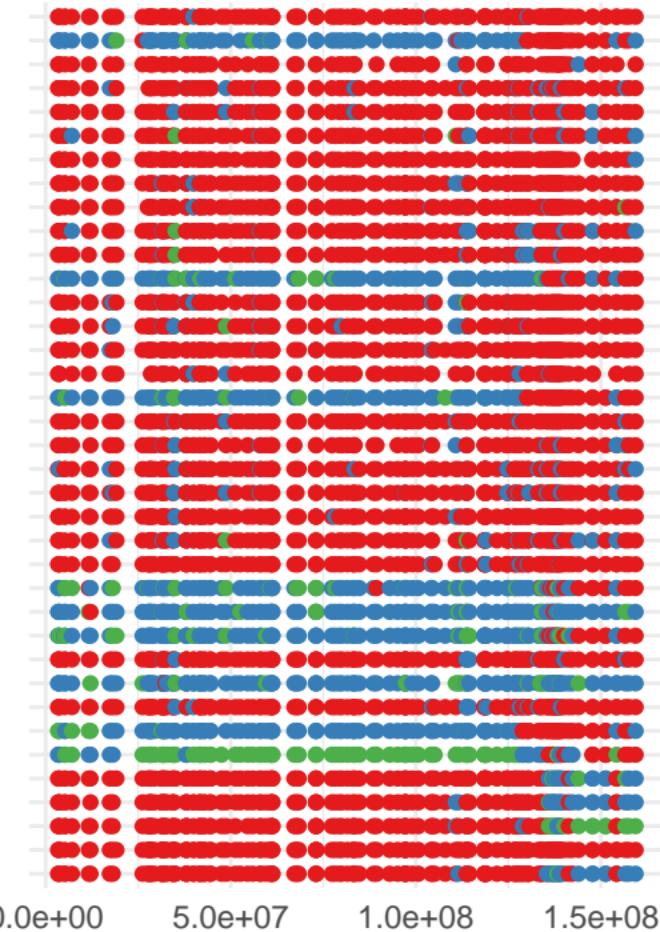
# BFL 6 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

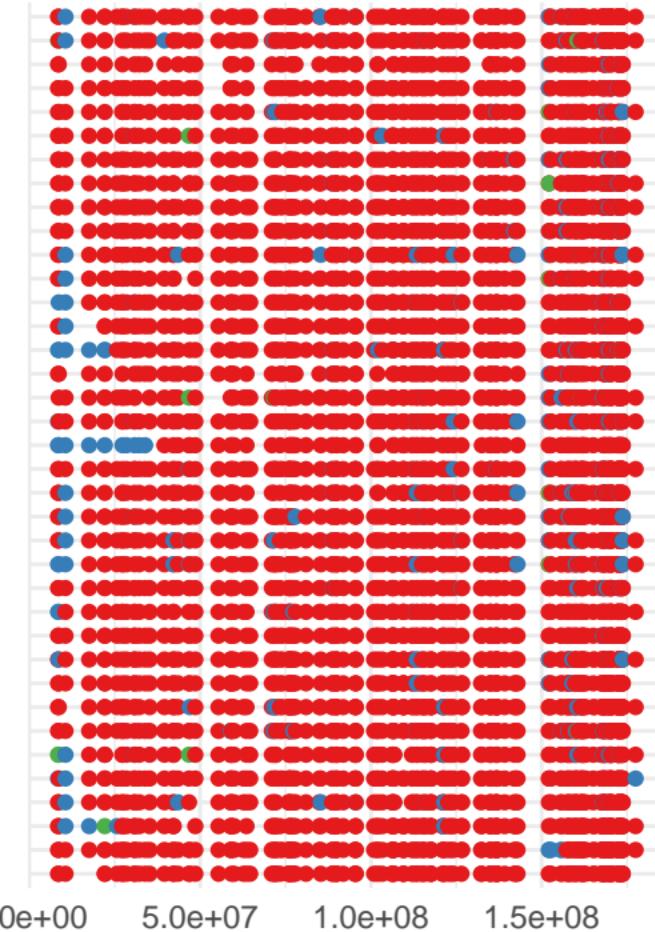
# BFL 6 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 6 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 6 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 6 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 6 HanXRQChr07

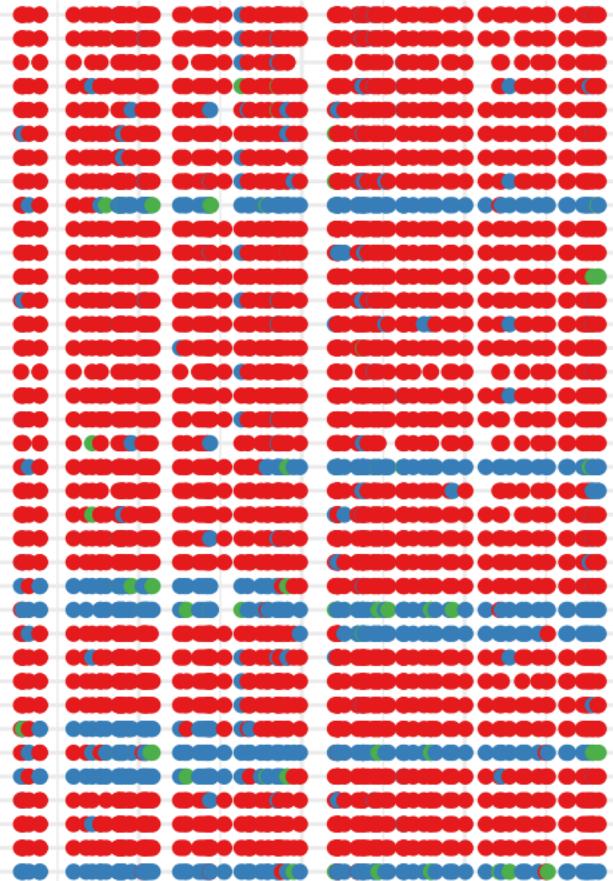


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# BFL 6 HanXRQChr08

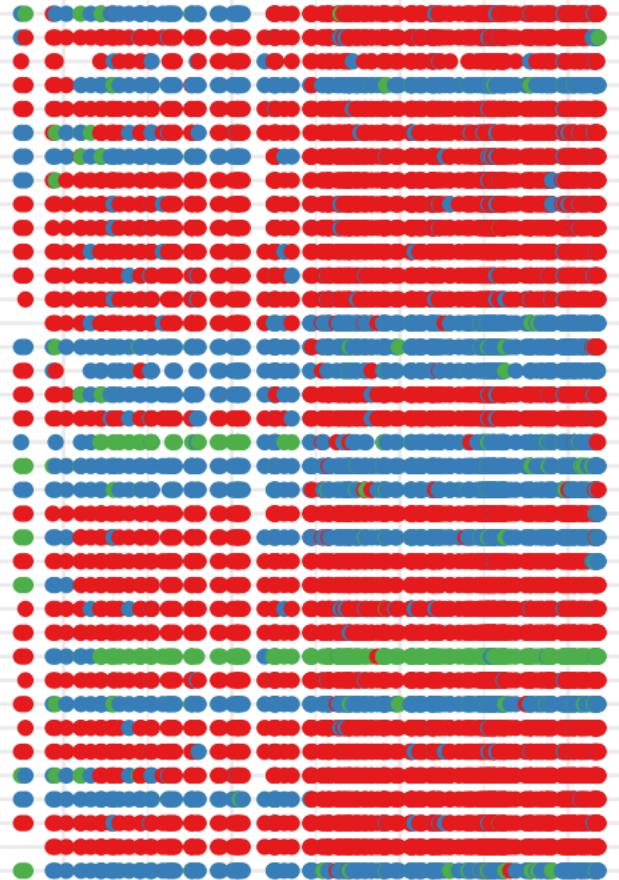


## Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 6 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 6 HanXRQChr10

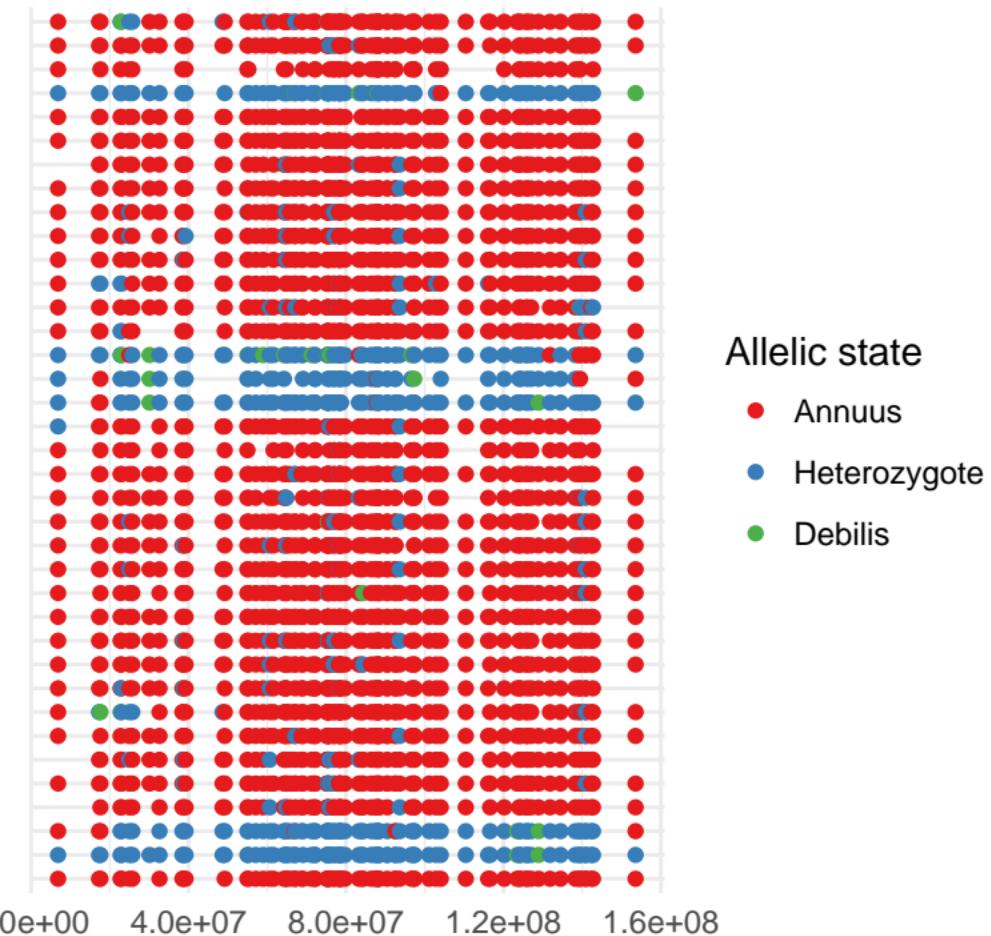


## Allelic state

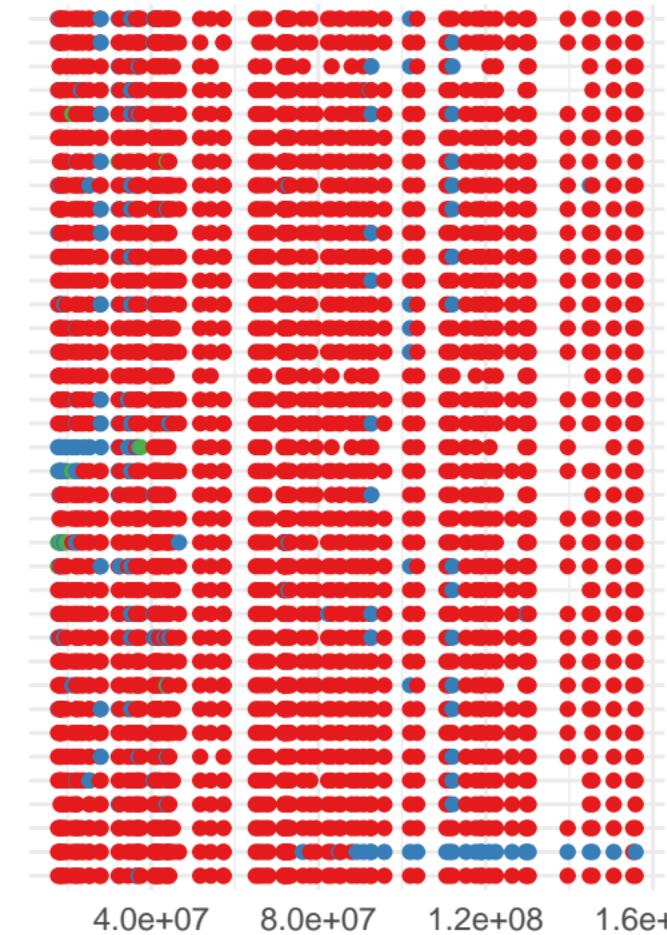
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 6 HanXRQChr11



# BFL 6 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

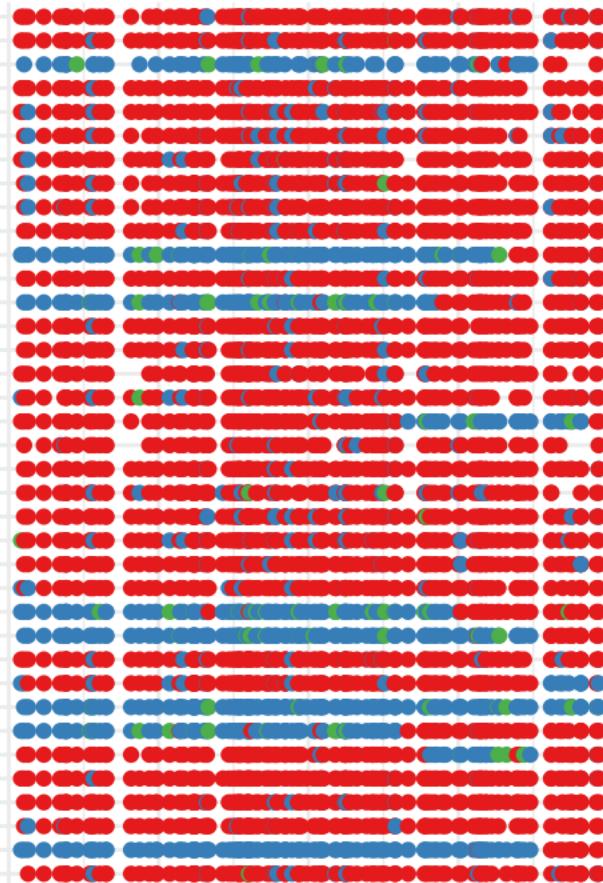
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# BFL 6 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

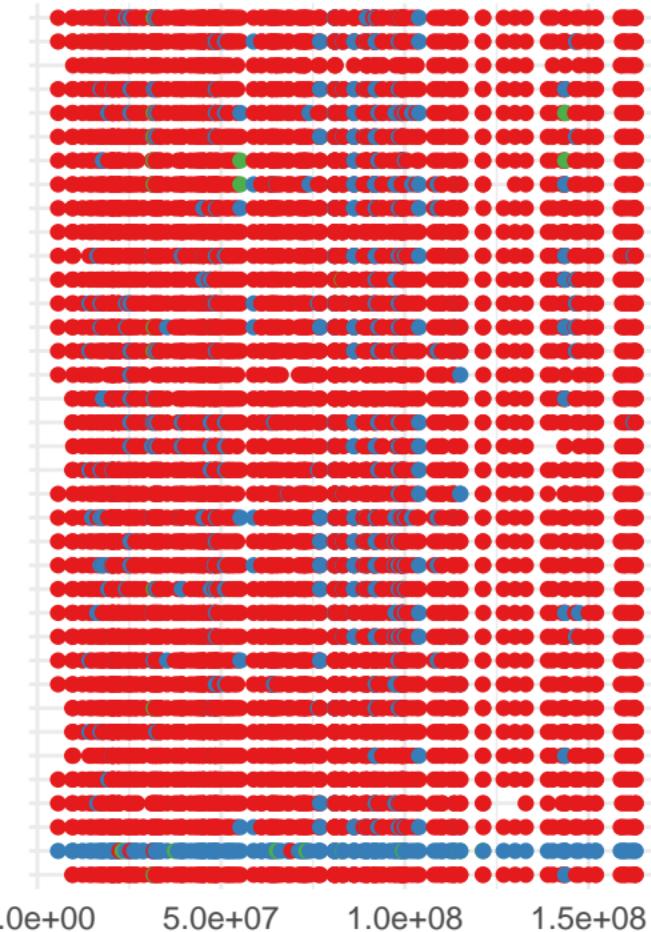
# BFL 6 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 6 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 6 HanXRQChr16

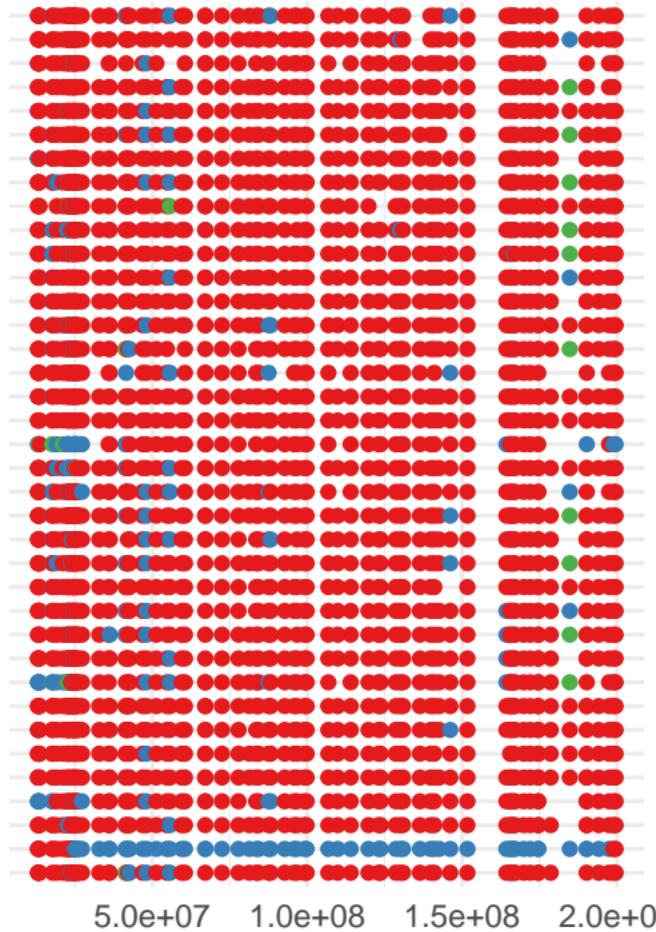


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# BFL 6 HanXRQChr17

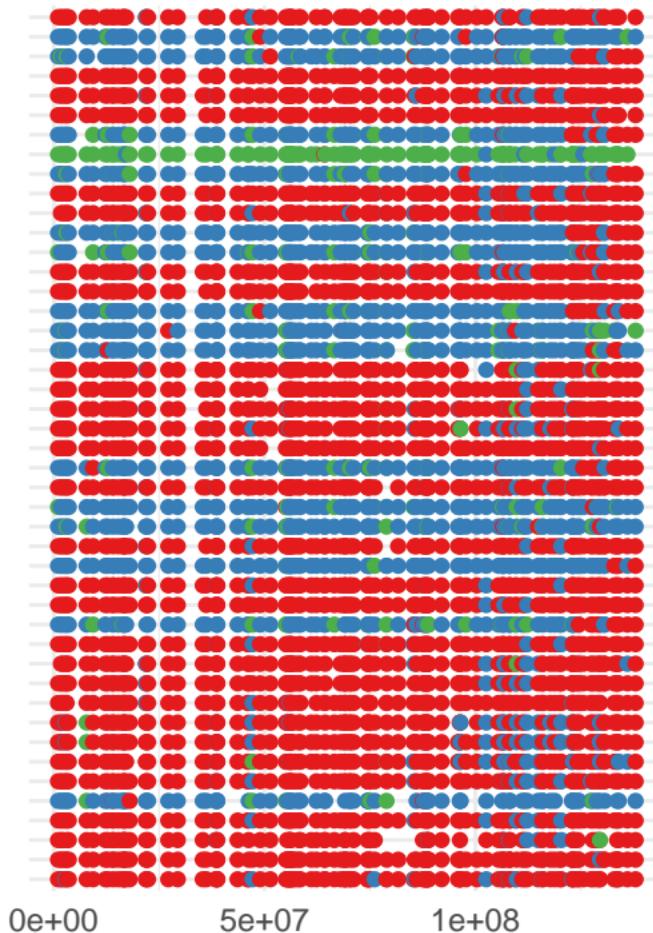


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

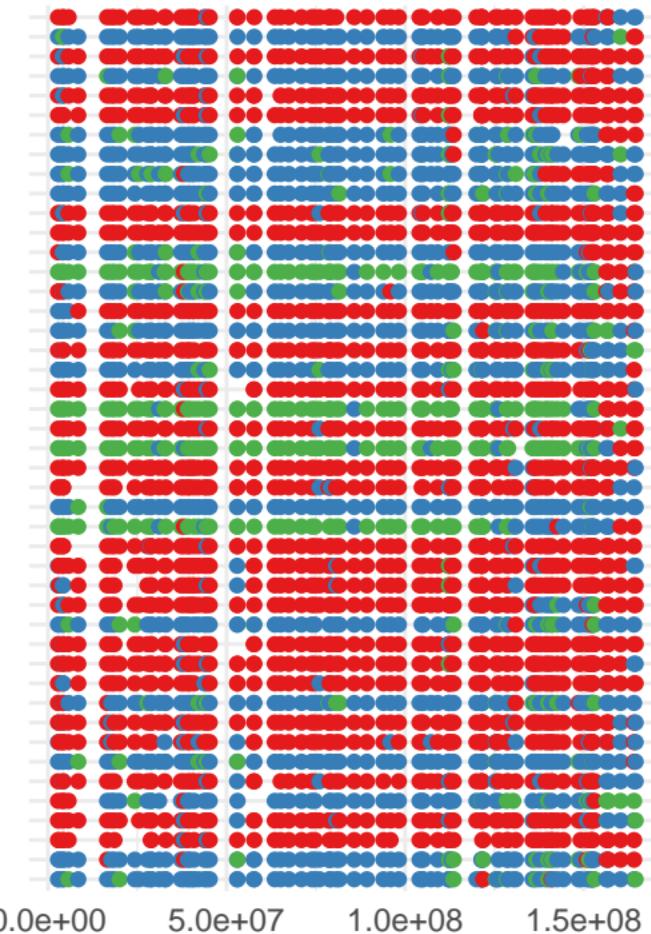
# BFL 7 HanXRQChr01



## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 7 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

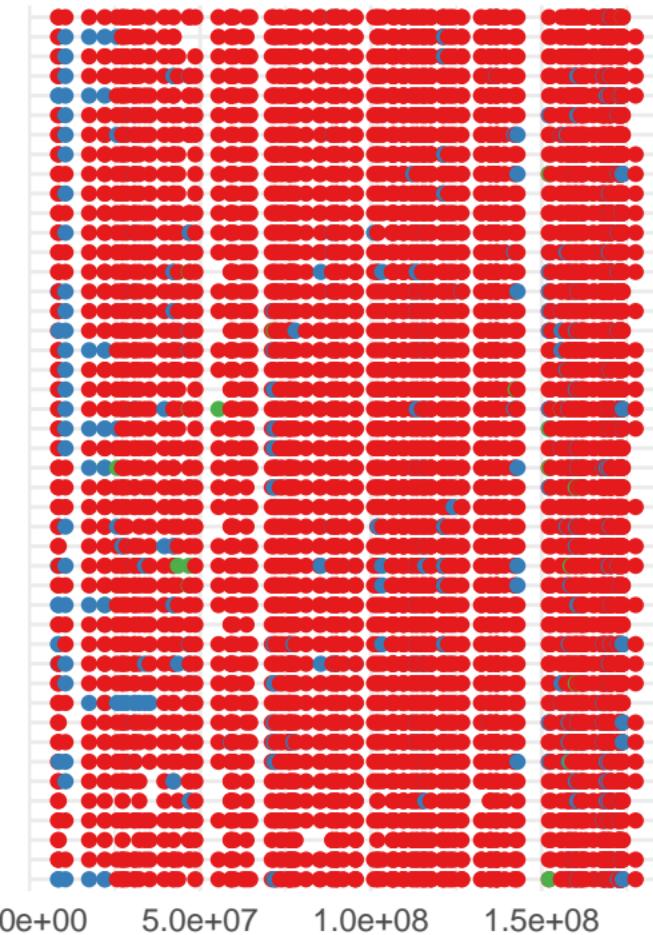
# BFL 7 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 7 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 7 HanXRQChr05

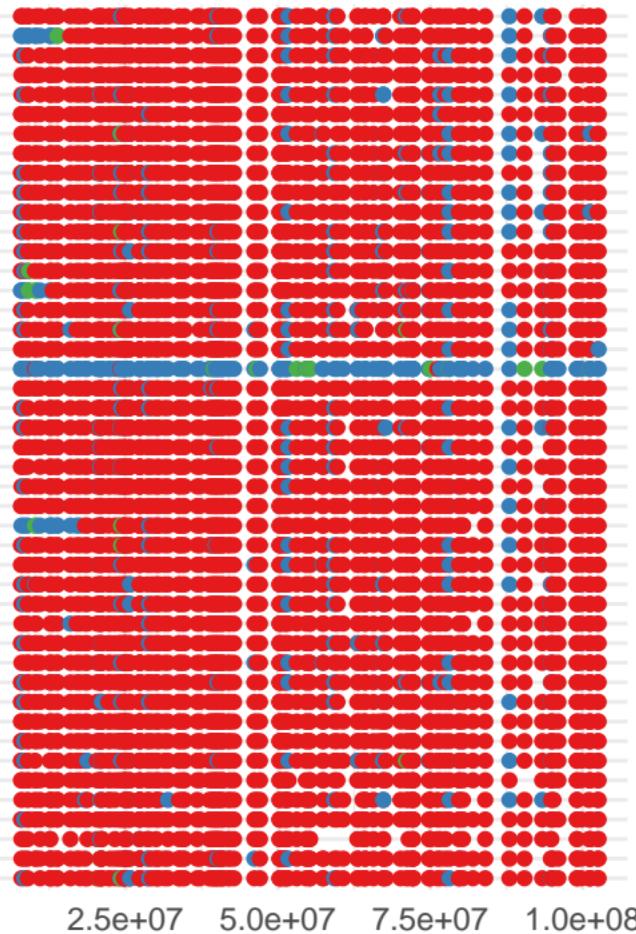


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 7 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 7 HanXRQChr07



## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 7 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 7 HanXRQChr09

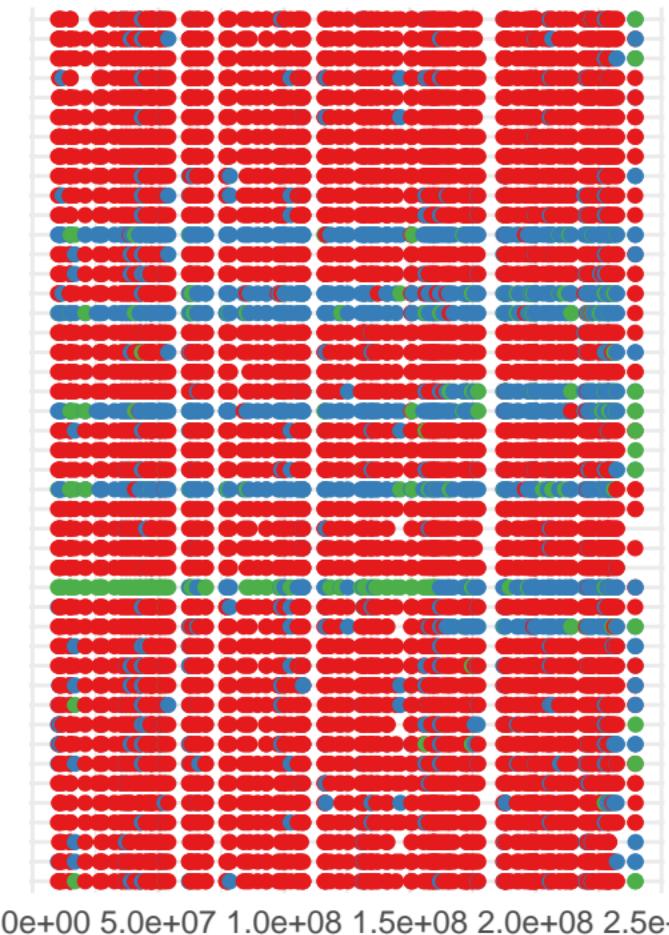


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 7 HanXRQChr10

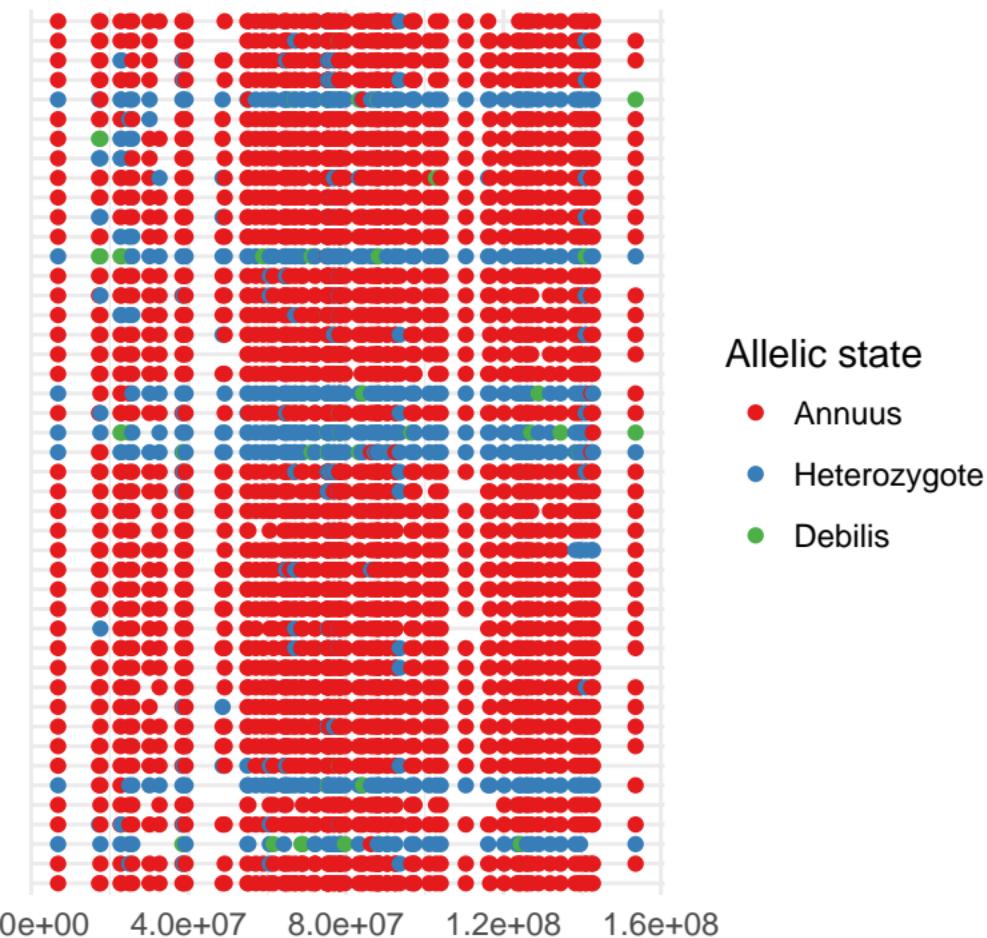


## Allelic state

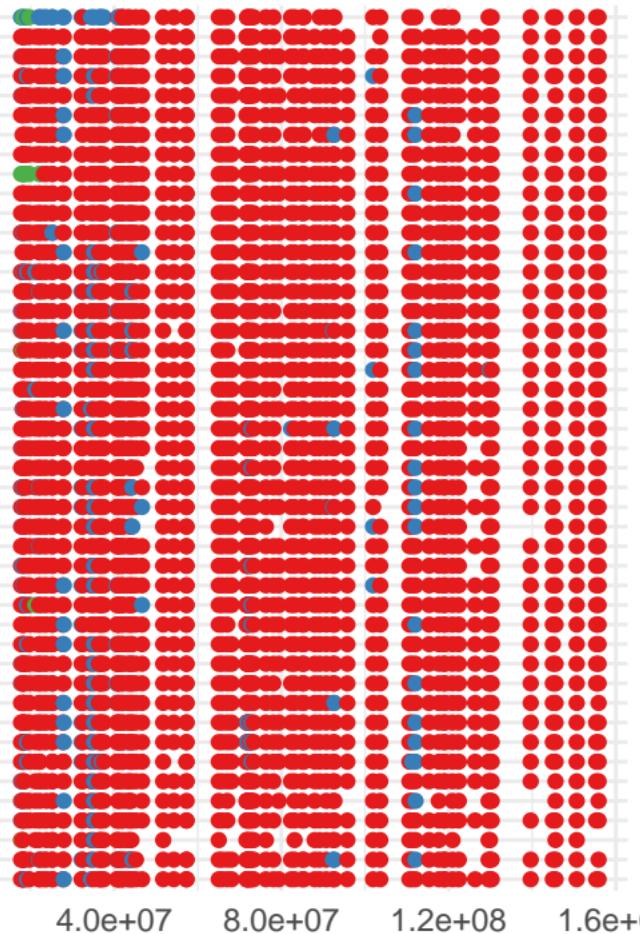
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 7 HanXRQChr11



# BFL 7 HanXRQChr12



## Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# BFL 7 HanXRQChr13

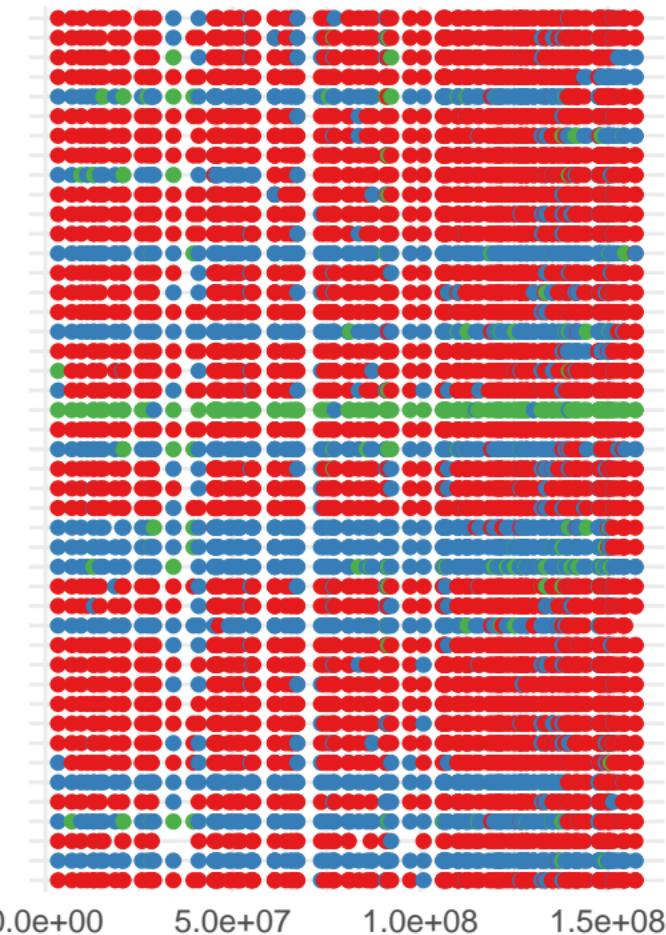


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00    5.0e+07    1.0e+08    1.5e+08    2.0e+08

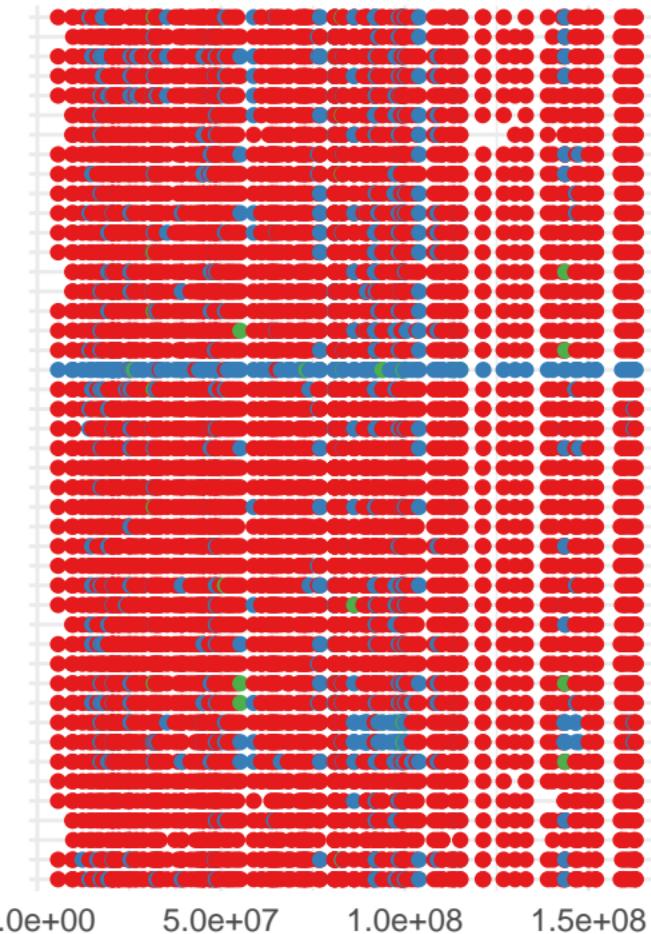
# BFL 7 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

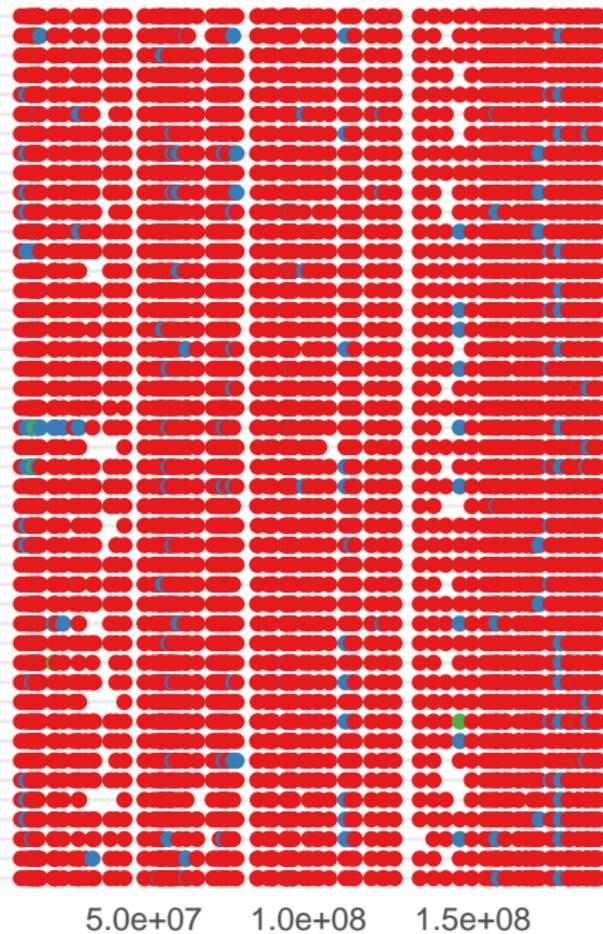
# BFL 7 HanXRQChr15



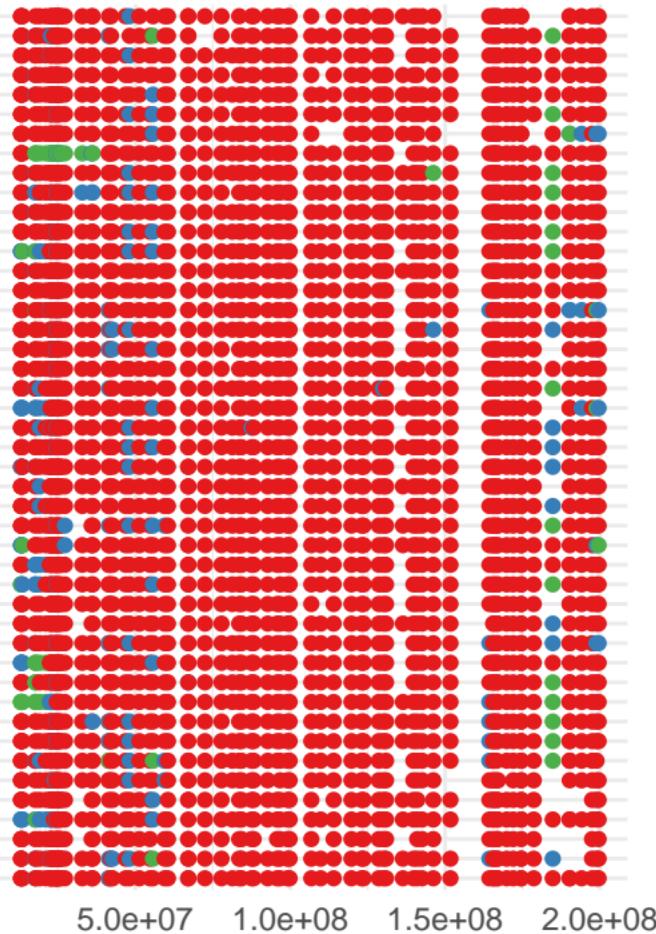
## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 7 HanXRQChr16



# BFL 7 HanXRQChr17

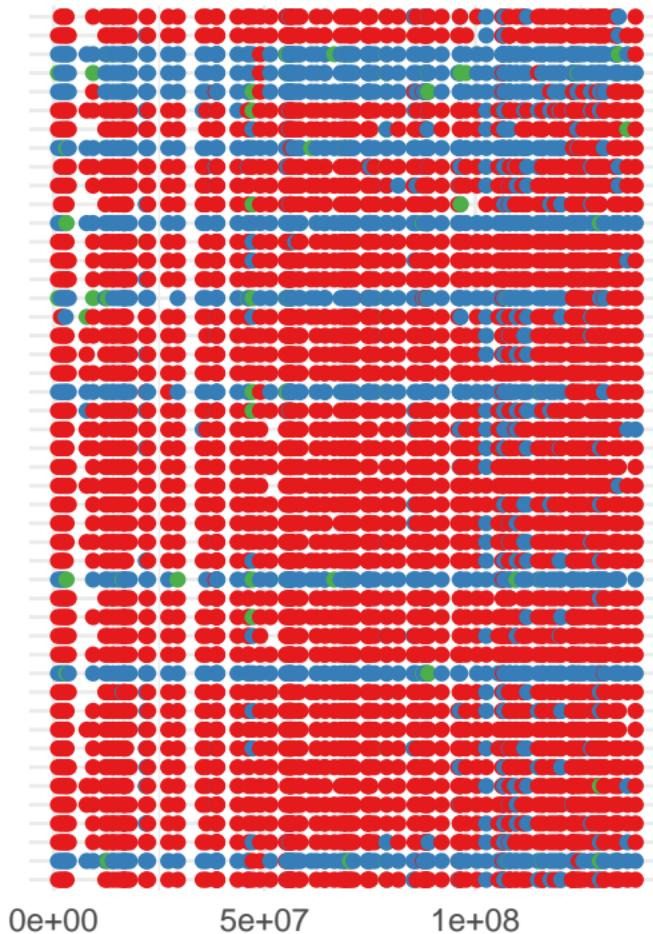


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

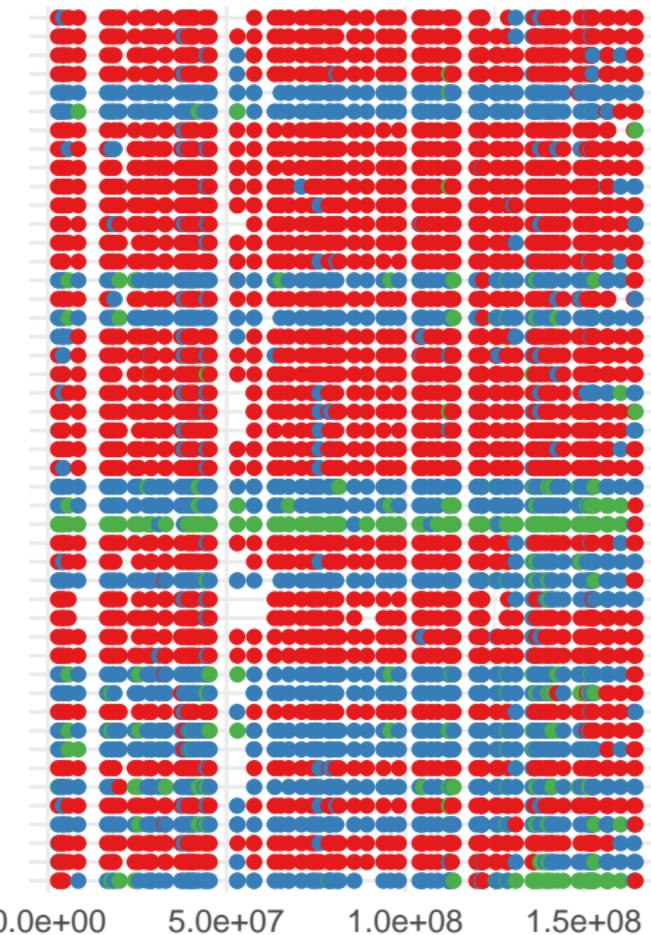
# BFL 8 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

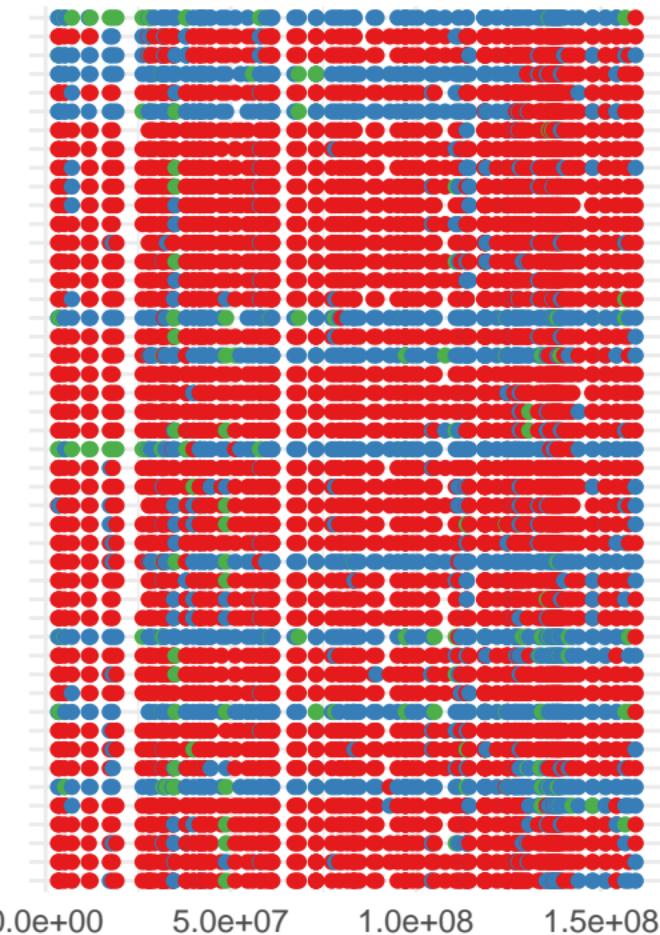
# BFL 8 HanXRQChr02



Allelic state

- Annuus
- Heterozygote
- Debilis

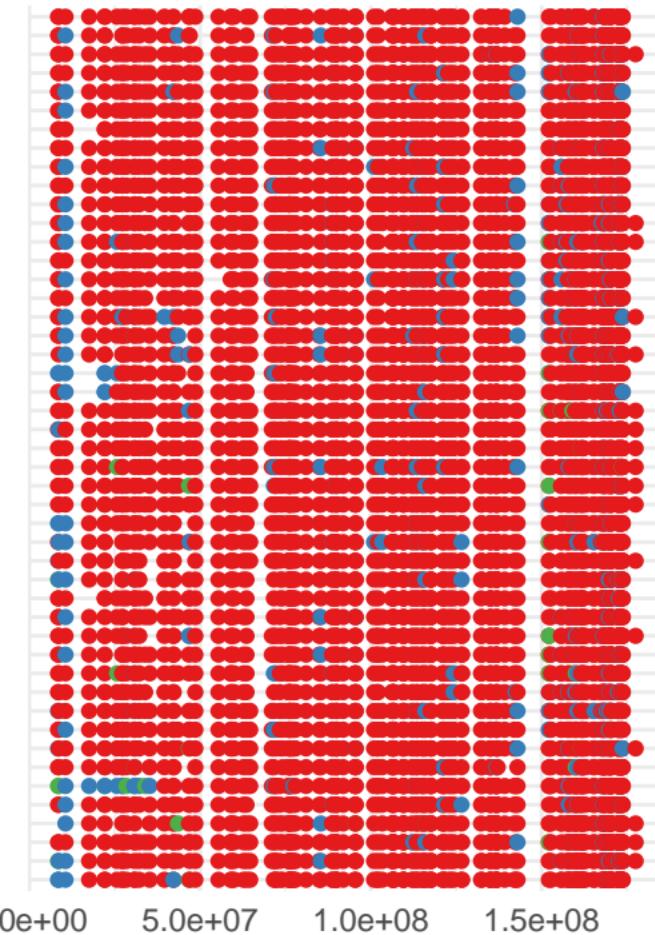
# BFL 8 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

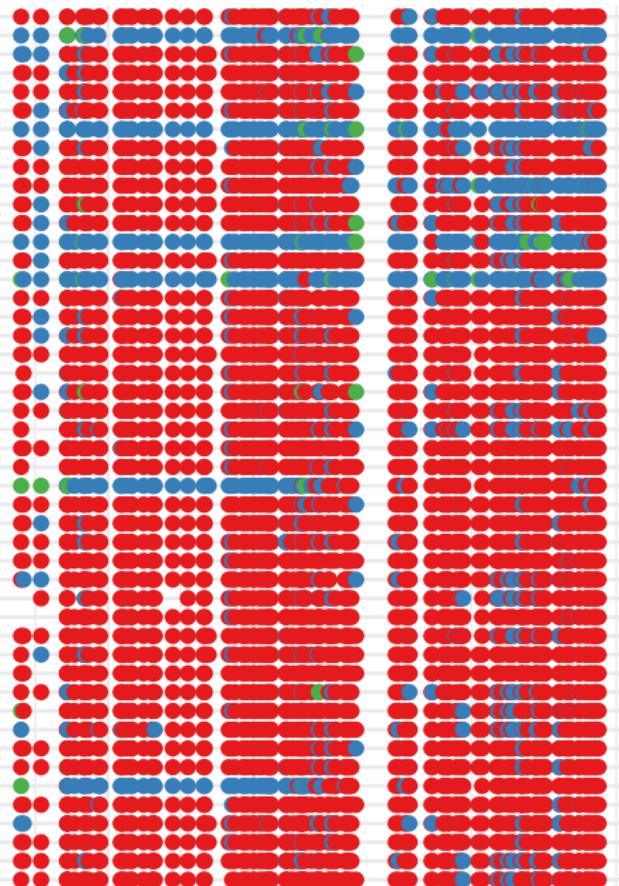
# BFL 8 HanXRQChr04



Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 8 HanXRQChr05

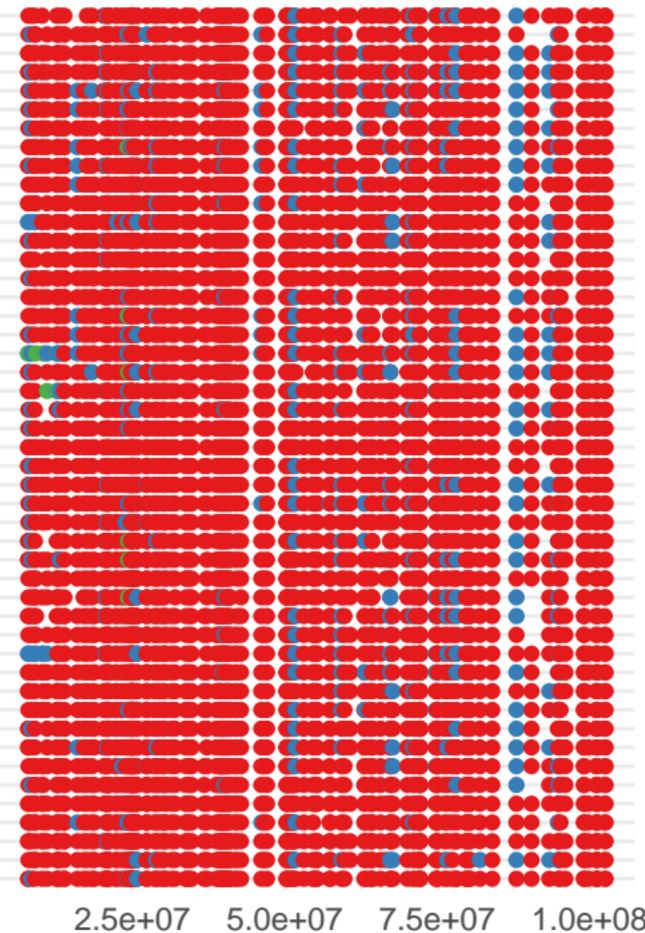


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 8 HanXRQChr06

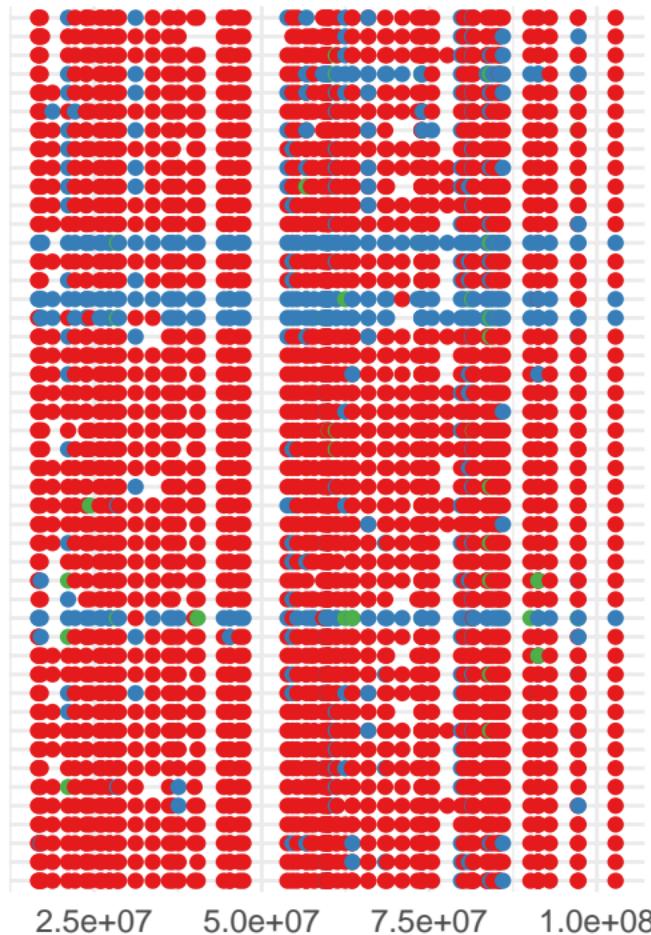


Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# BFL 8 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

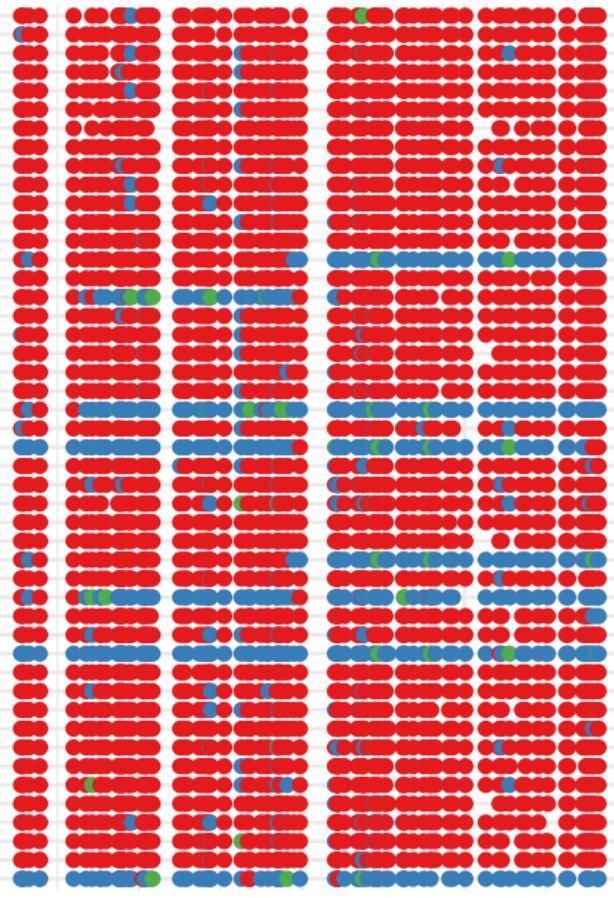
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 8 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 8 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

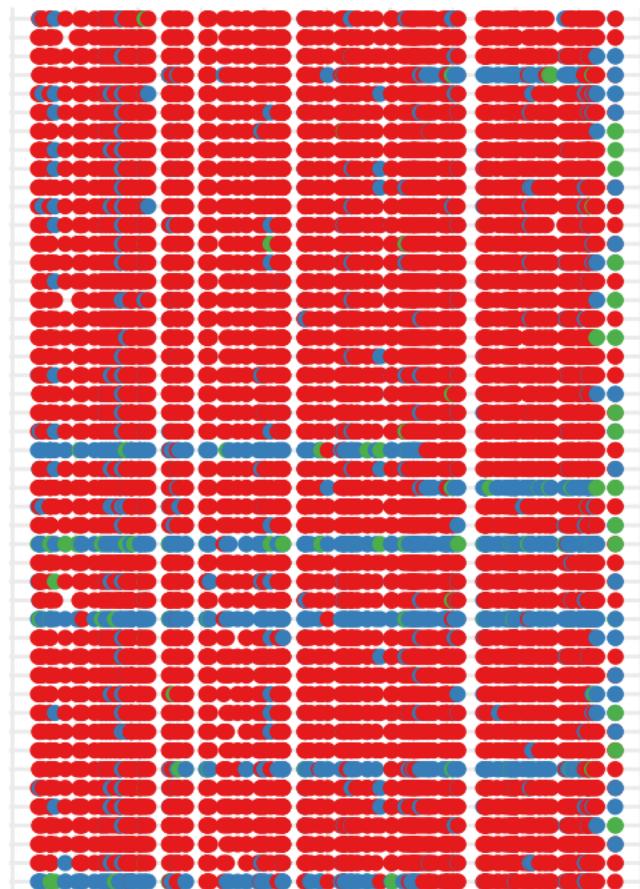
5.0e+07

1.0e+08

1.5e+08

2.0e+08

# BFL 8 HanXRQChr10

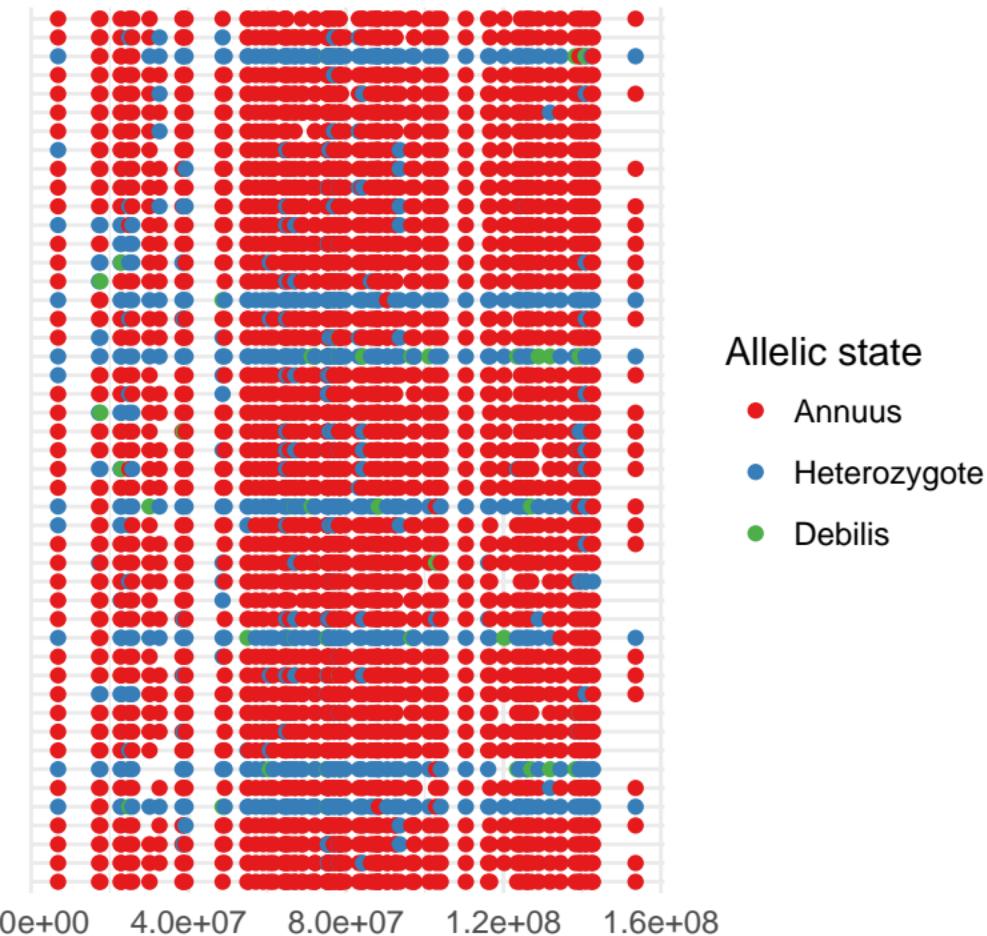


## Allelic state

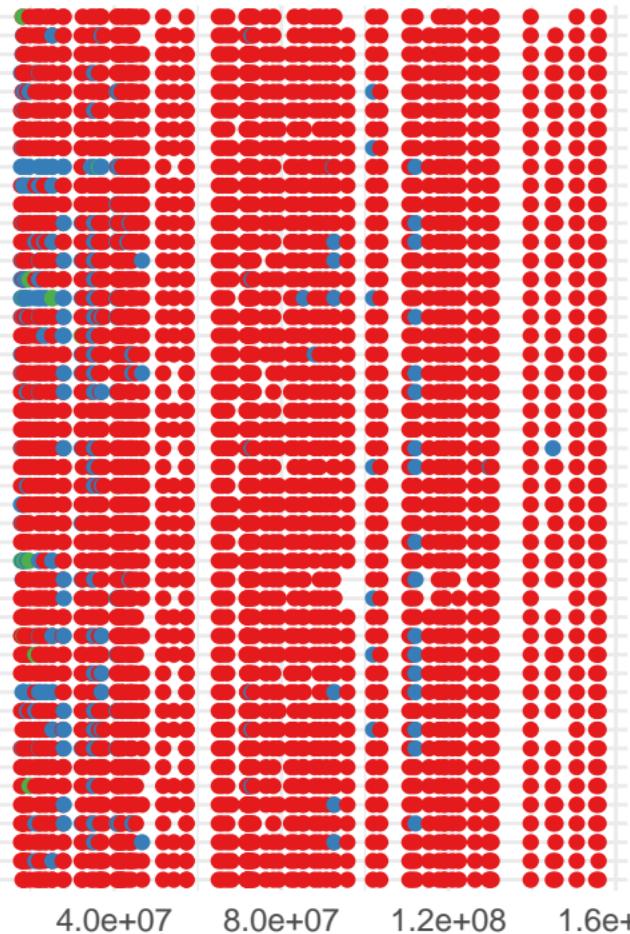
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 8 HanXRQChr11



# BFL 8 HanXRQChr12



Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07

8.0e+07

1.2e+08

1.6e+08

# BFL 8 HanXRQChr13

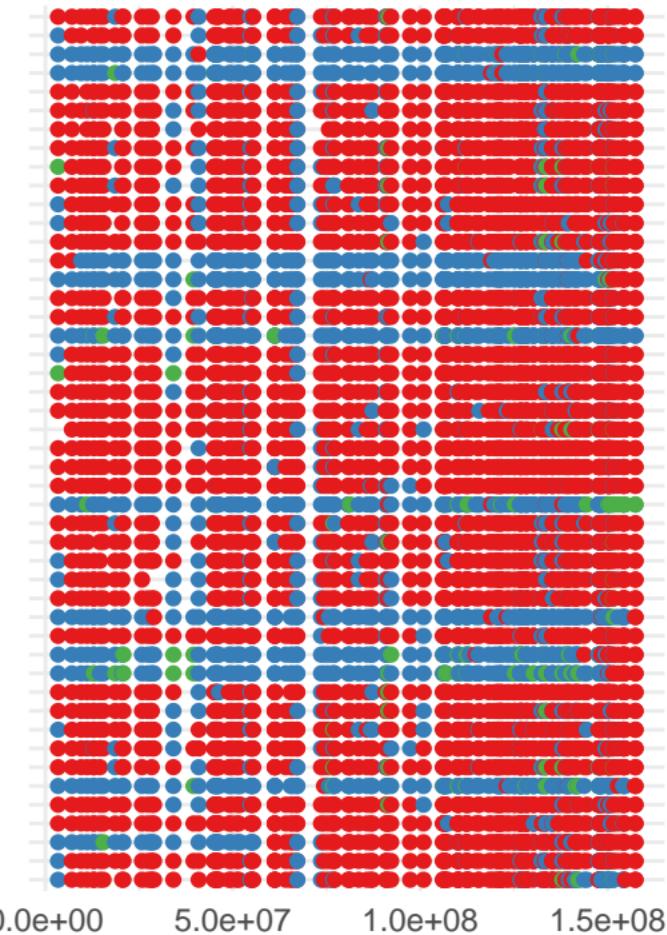


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

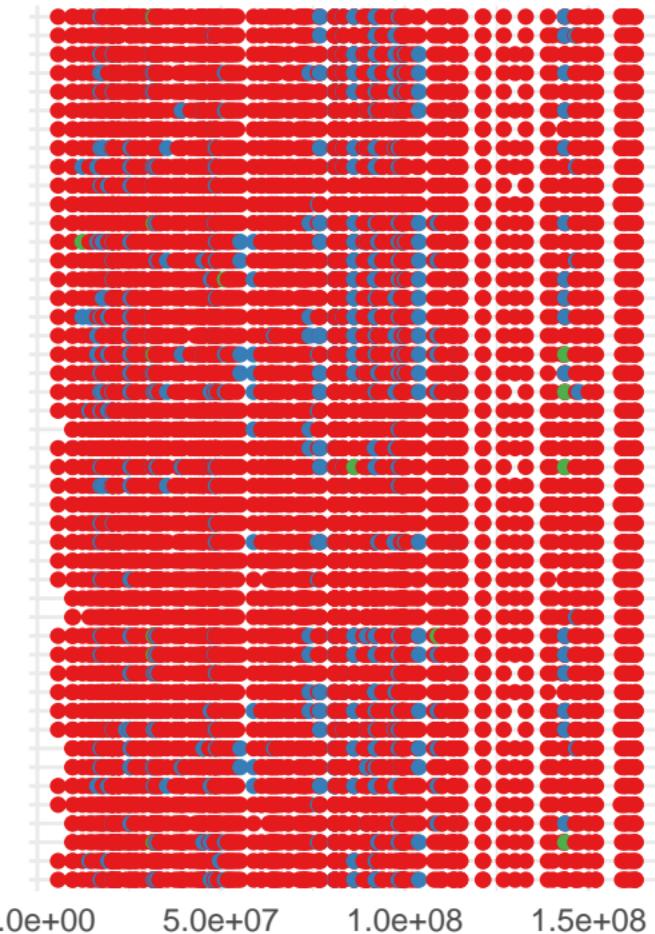
# BFL 8 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

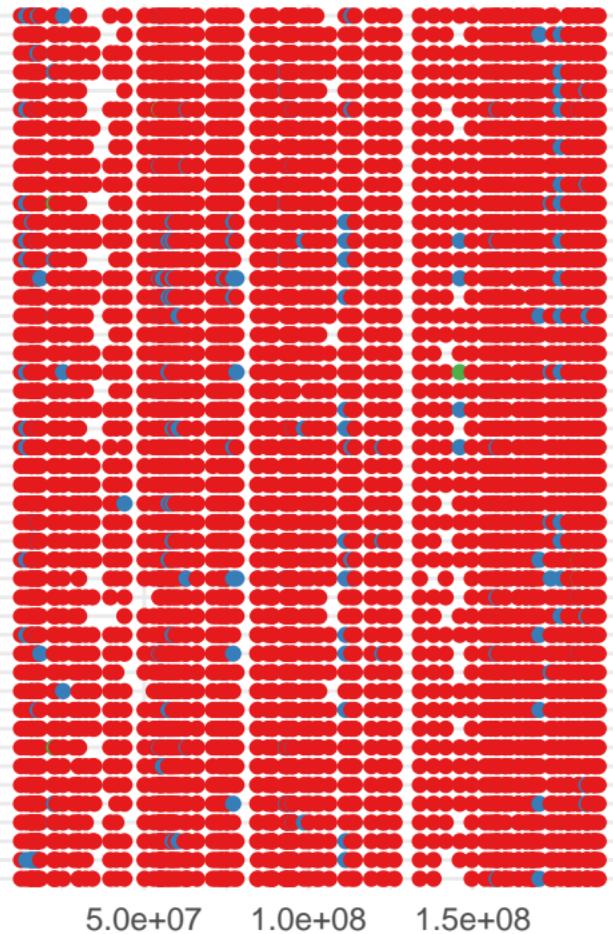
# BFL 8 HanXRQChr15



Allelic state

- Annuus
- Heterozygote
- Debilis

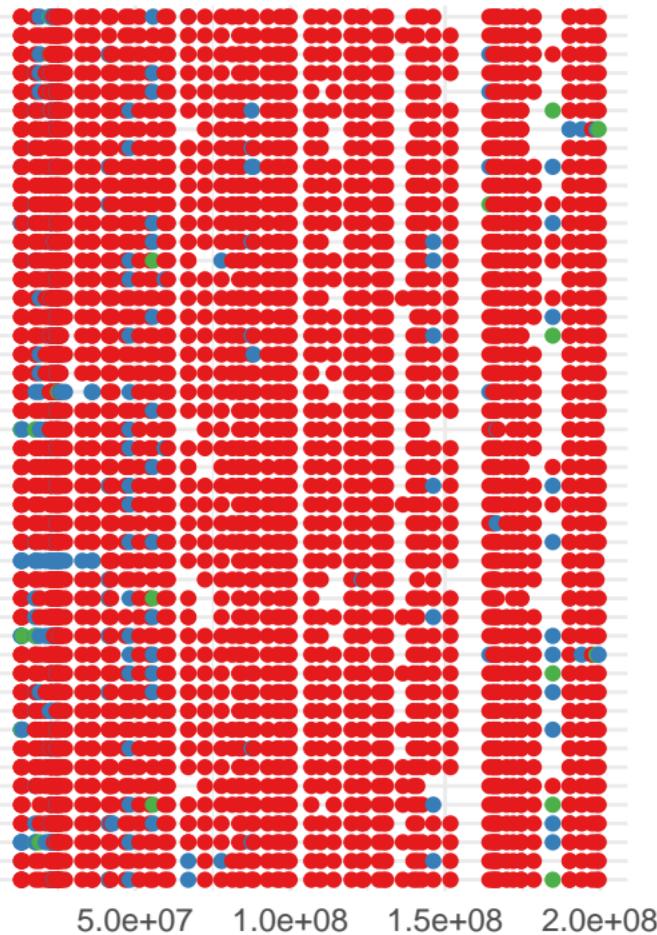
# BFL 8 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

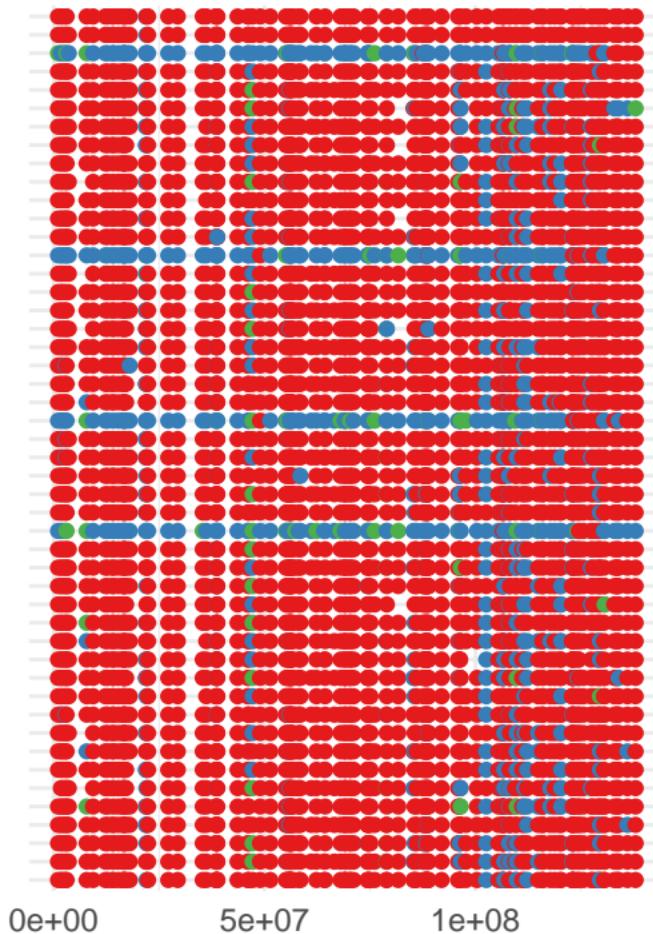
# BFL 8 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 9 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

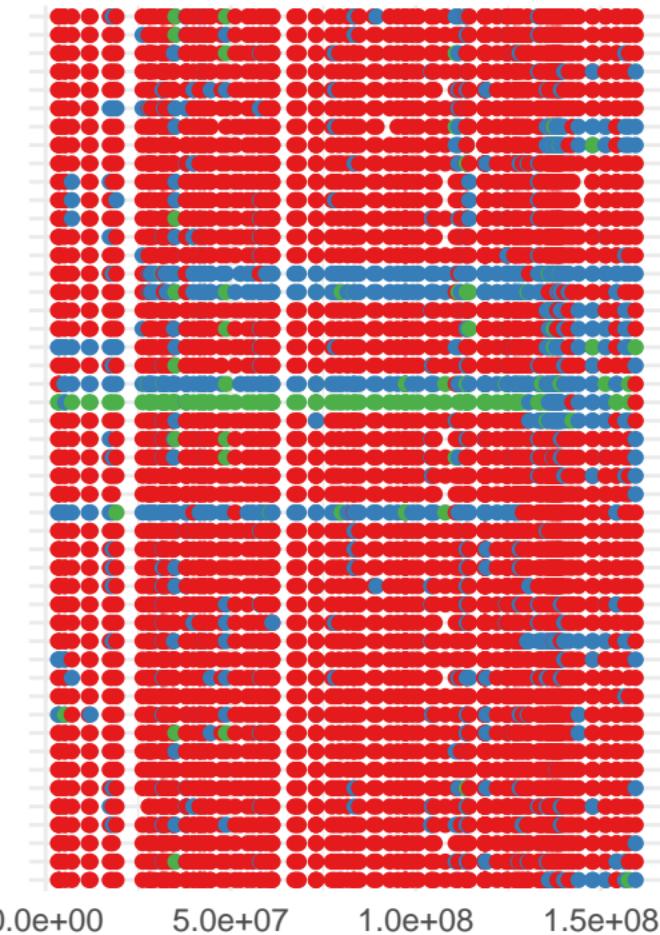
# BFL 9 HanXRQChr02



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

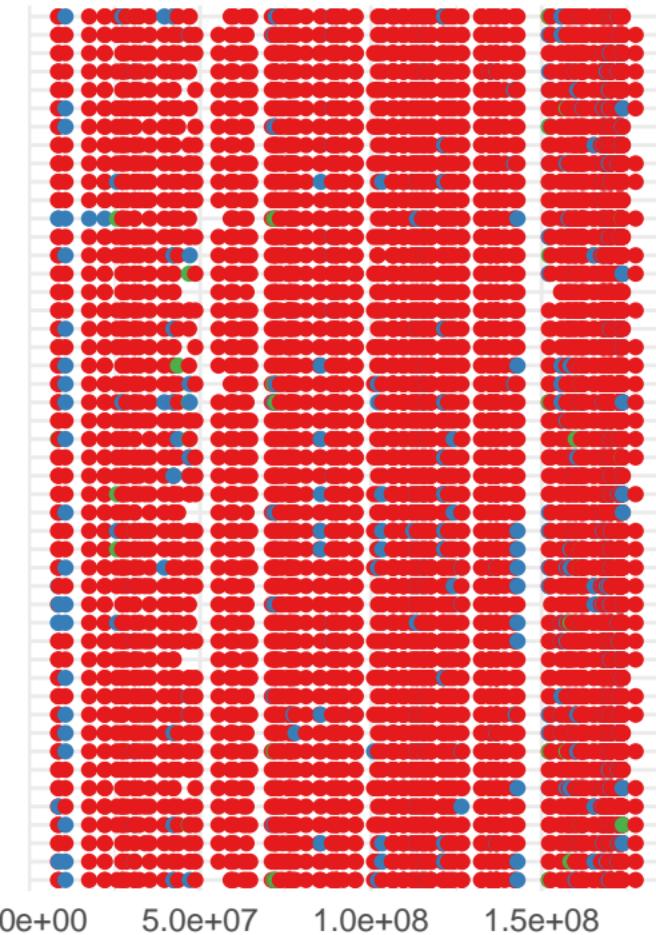
# BFL 9 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

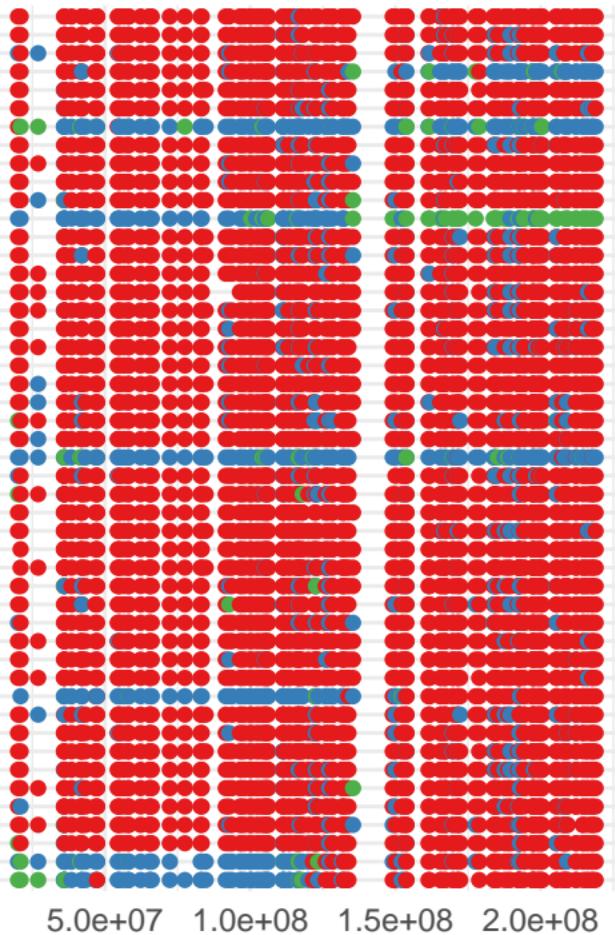
# BFL 9 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 9 HanXRQChr05

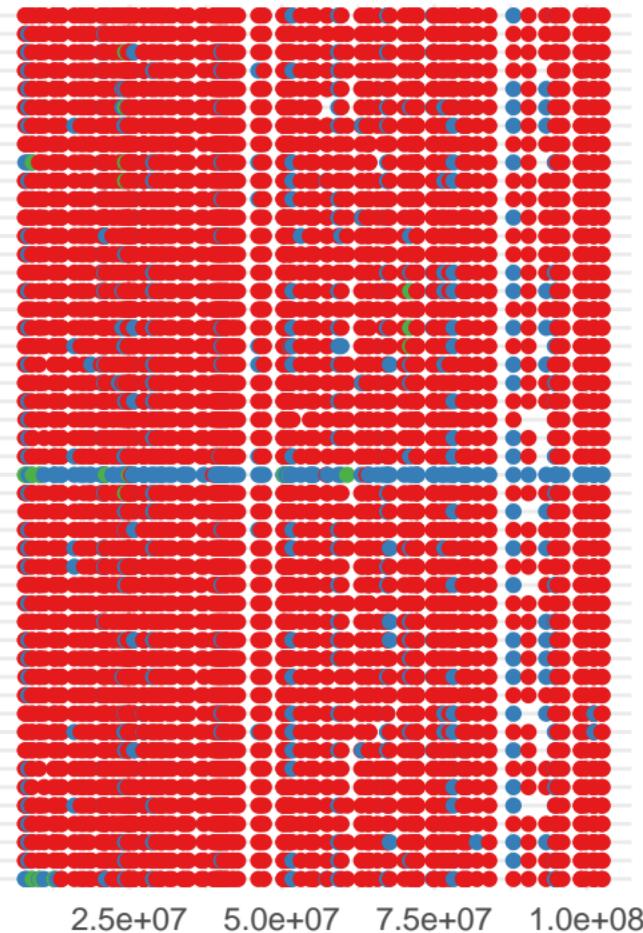


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 9 HanXRQChr06

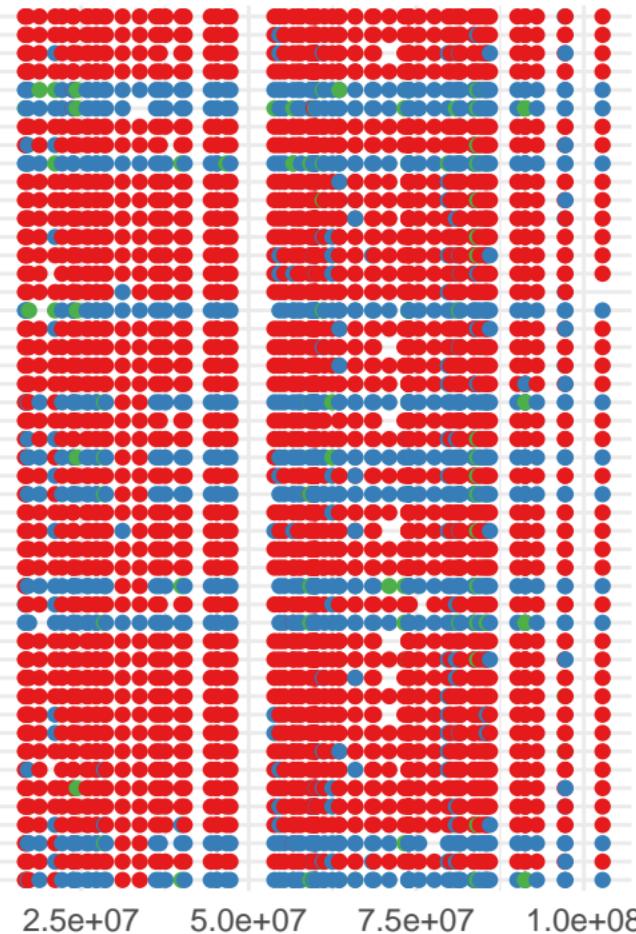


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# BFL 9 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

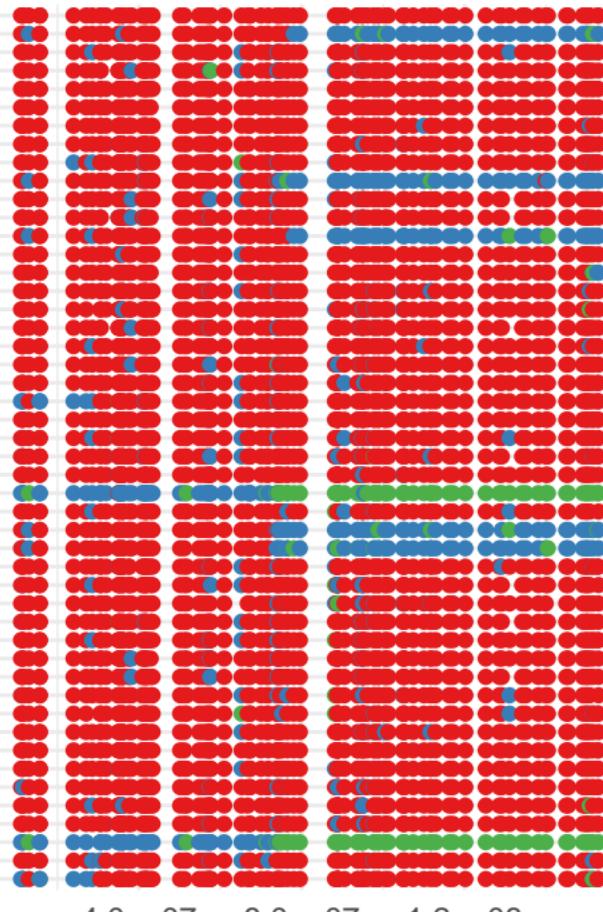
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 9 HanXRQChr08

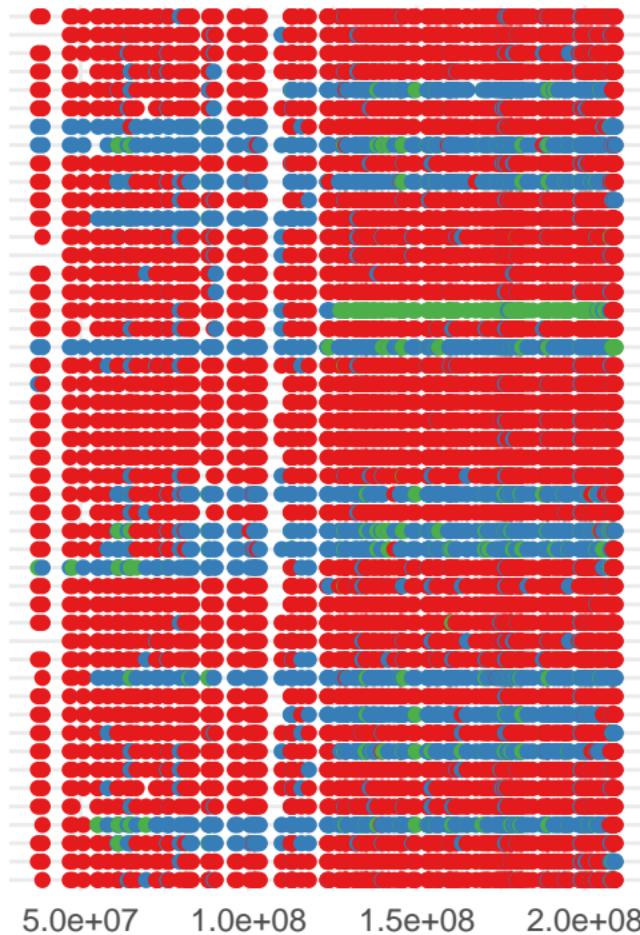


## Allelic state

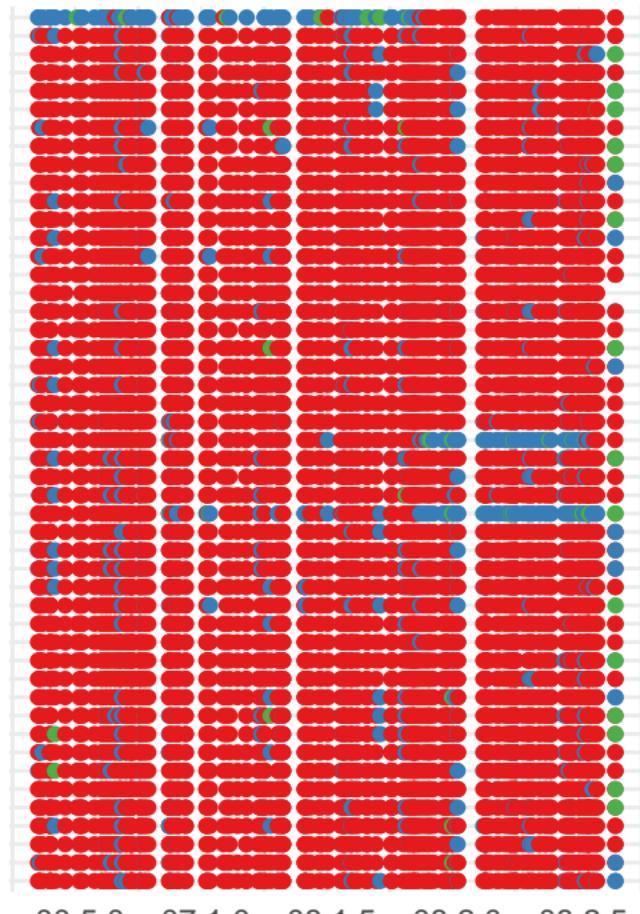
- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 9 HanXRQChr09



# BFL 9 HanXRQChr10

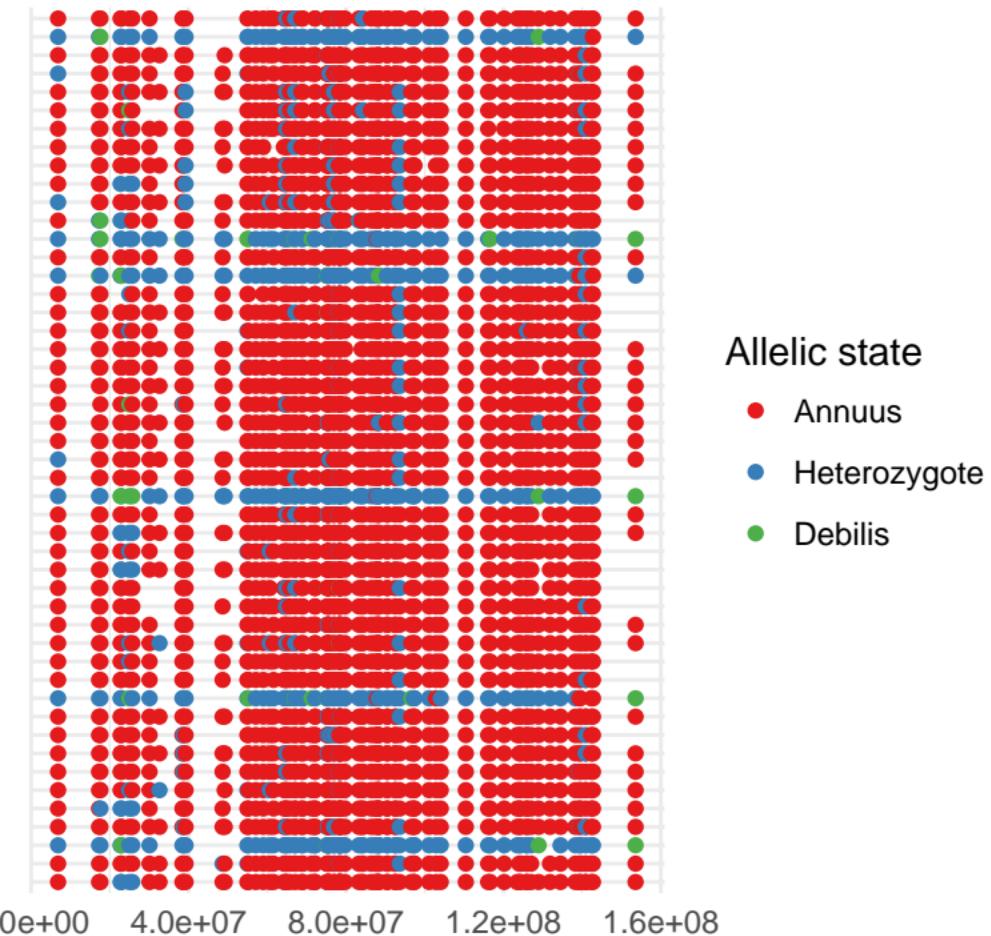


Allelic state

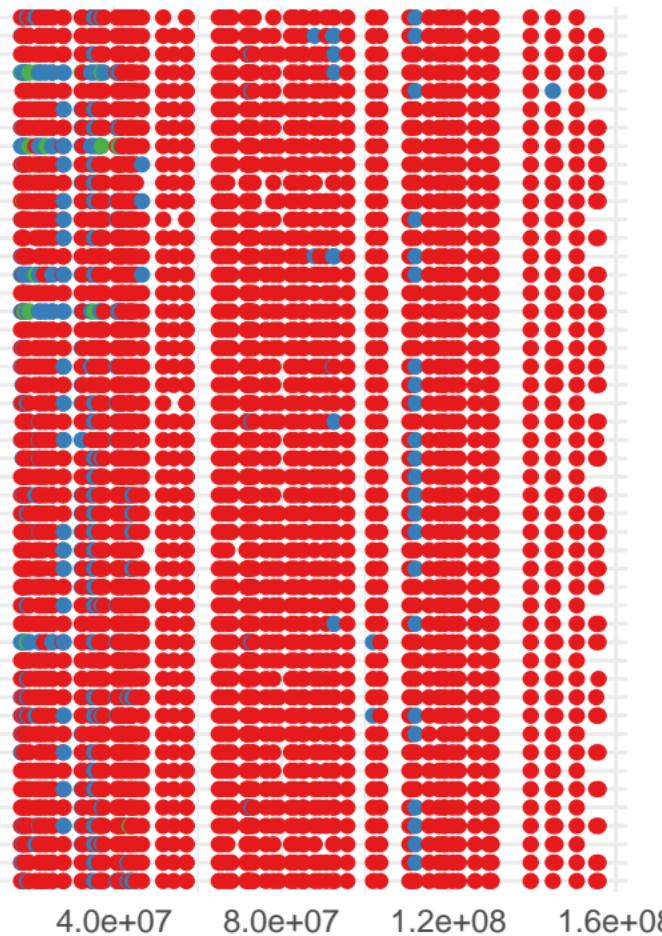
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 9 HanXRQChr11



# BFL 9 HanXRQChr12



## Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07

8.0e+07

1.2e+08

1.6e+08

# BFL 9 HanXRQChr13

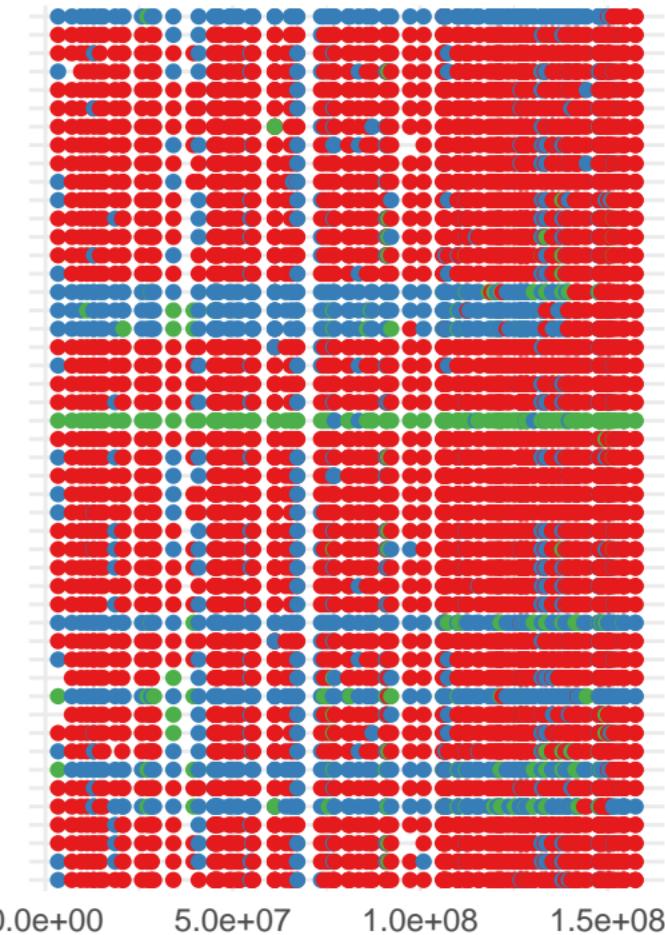


Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

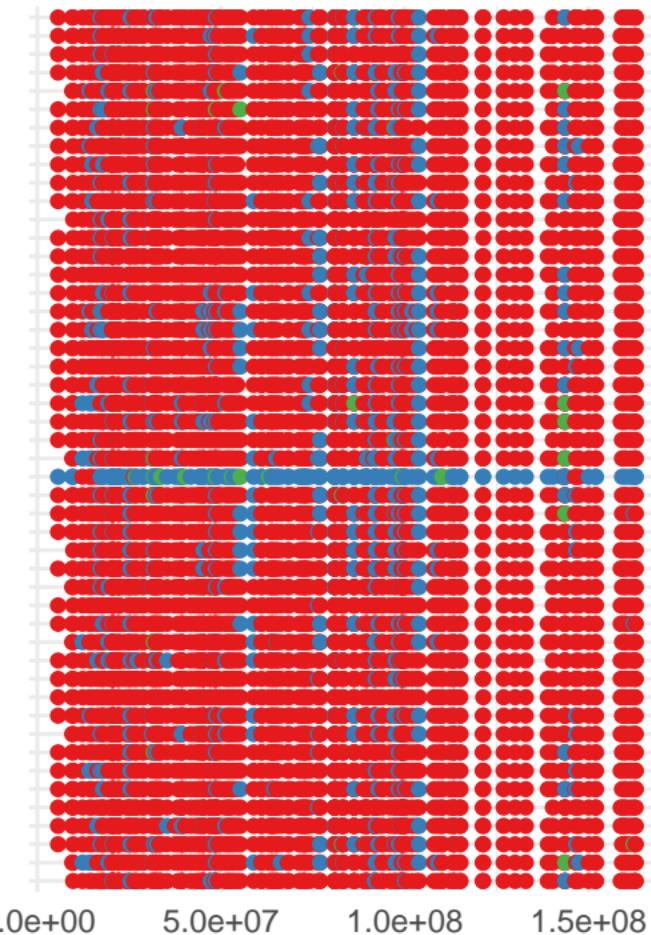
# BFL 9 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

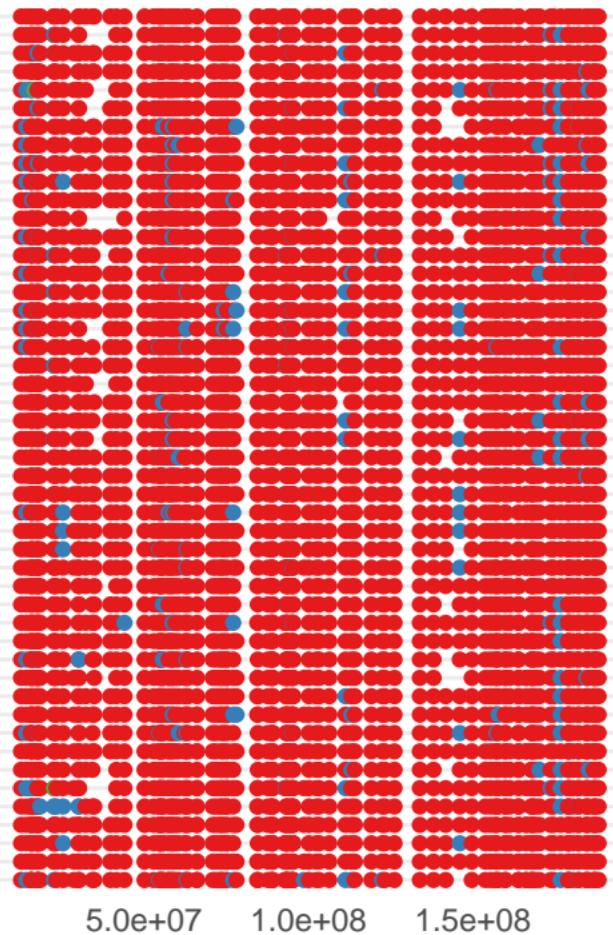
# BFL 9 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

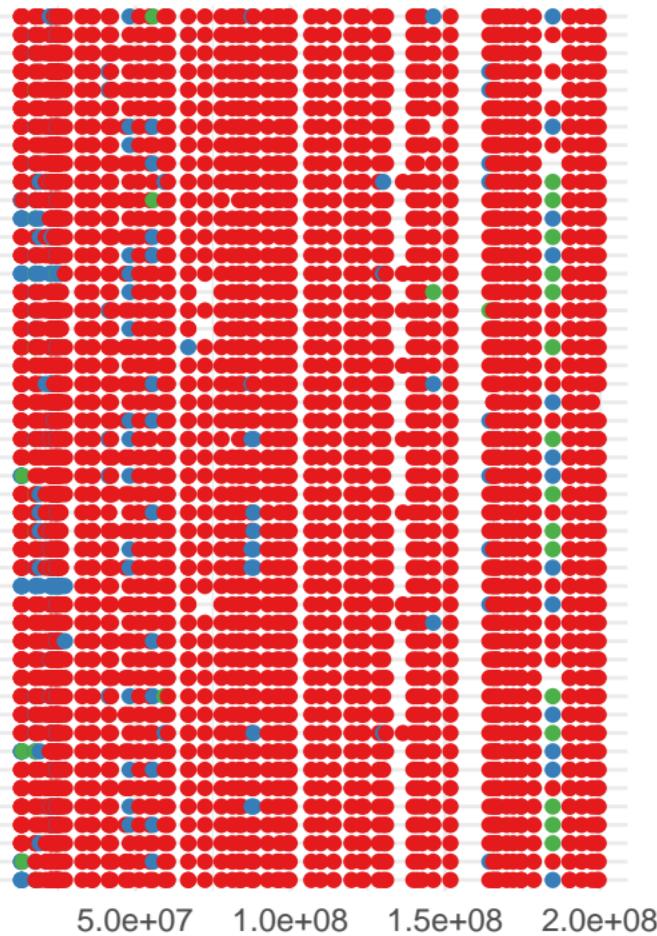
# BFL 9 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 9 HanXRQChr17

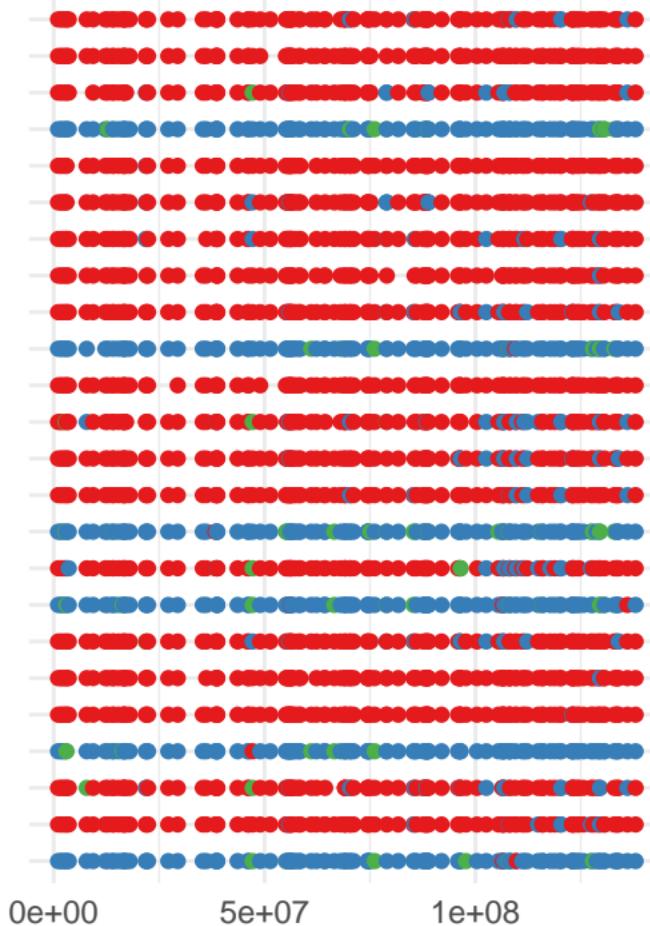


## Allelic state

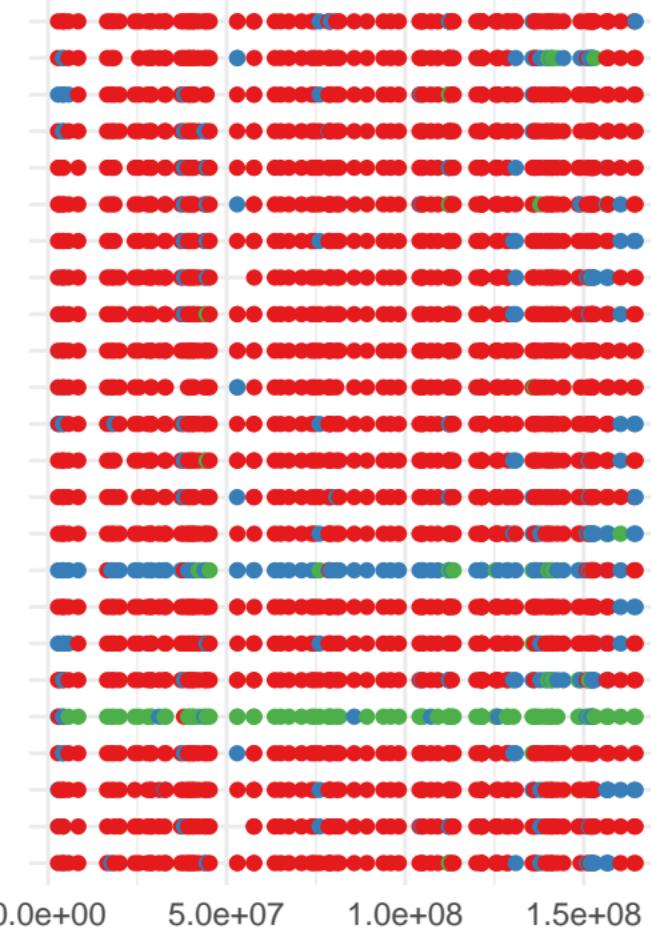
- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 7.5 HanXRQChr01



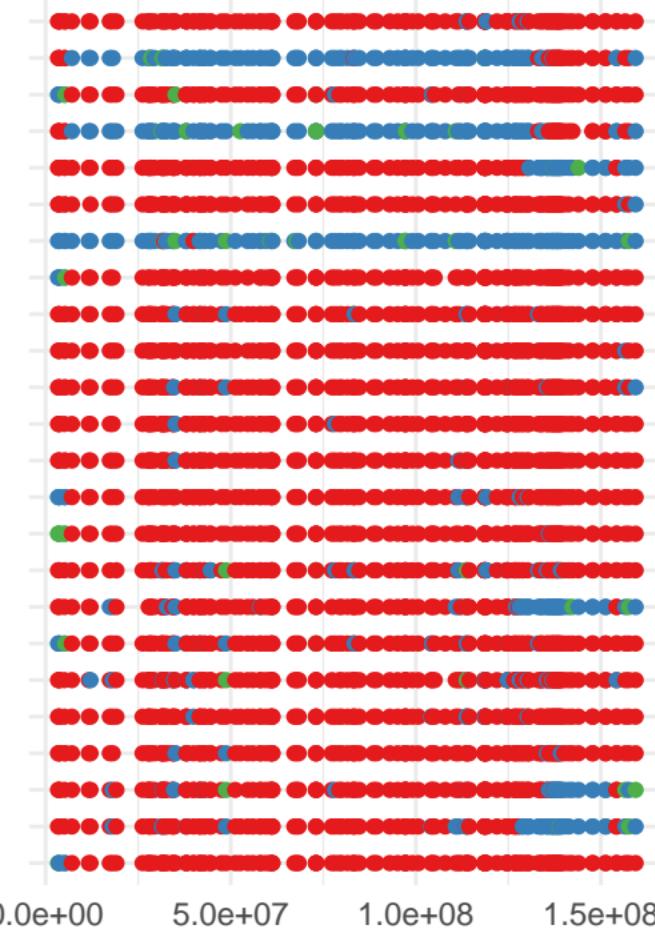
# BFL 7.5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 7.5 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

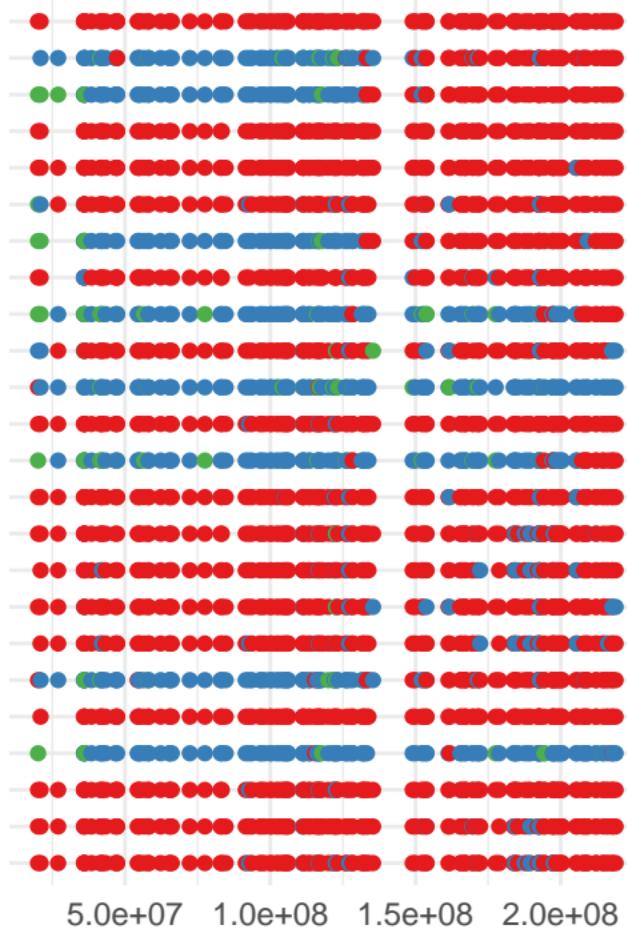
# BFL 7.5 HanXRQChr04



Allelic state

- Annuus
- Heterozygote
- Debilis

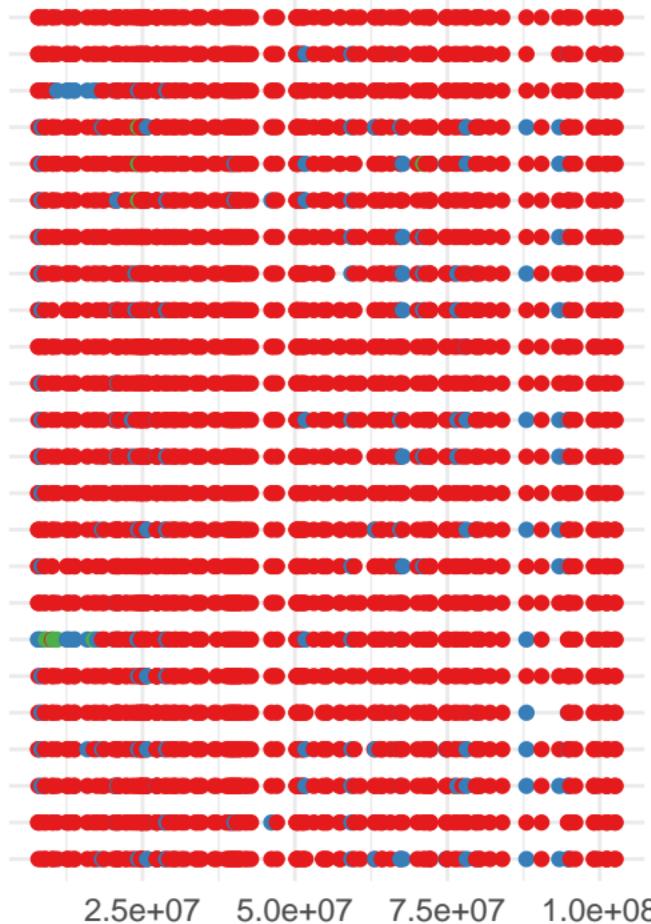
# BFL 7.5 HanXRQChr05



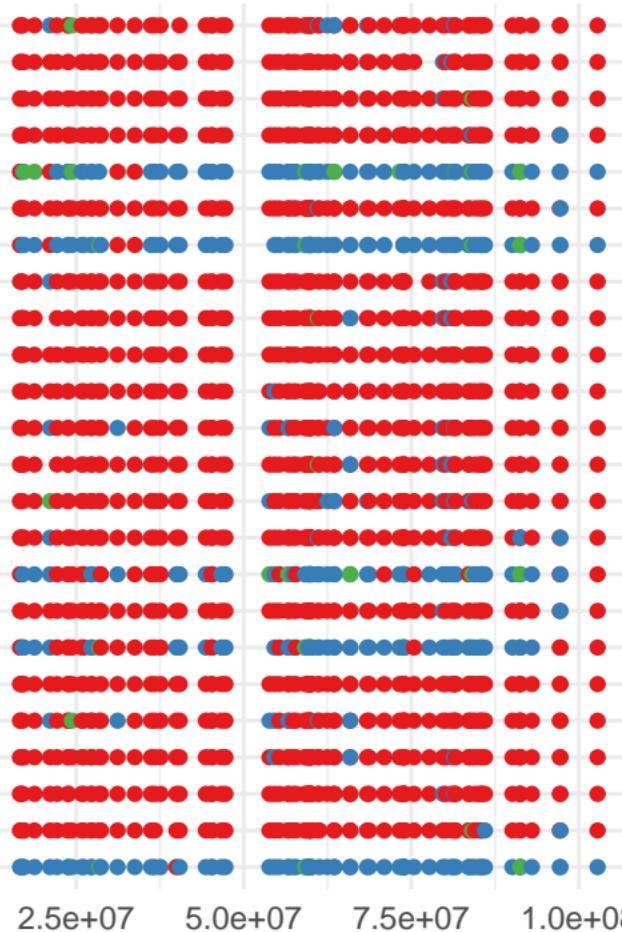
## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 7.5 HanXRQChr06



# BFL 7.5 HanXRQChr07

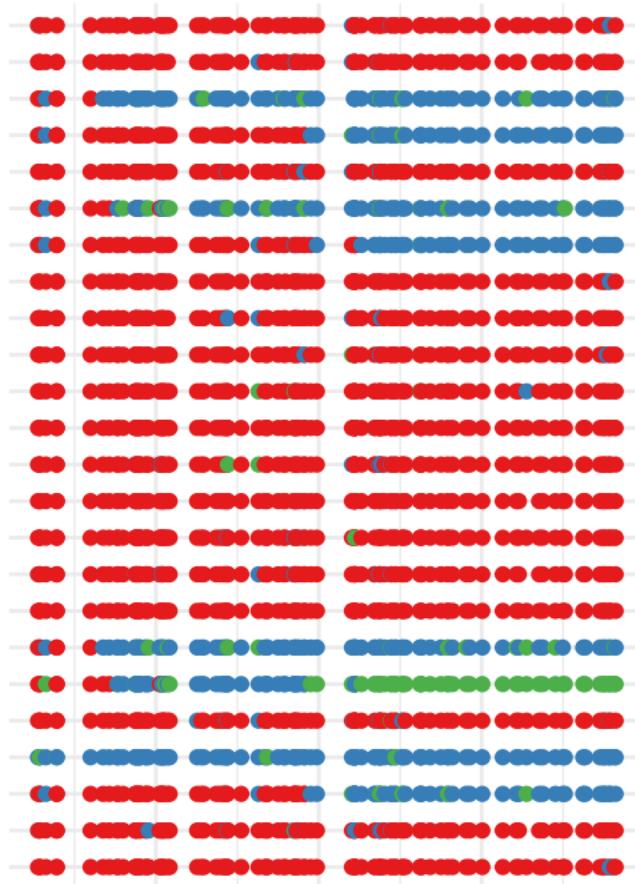


## Allelic state

- Annus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# BFL 7.5 HanXRQChr08

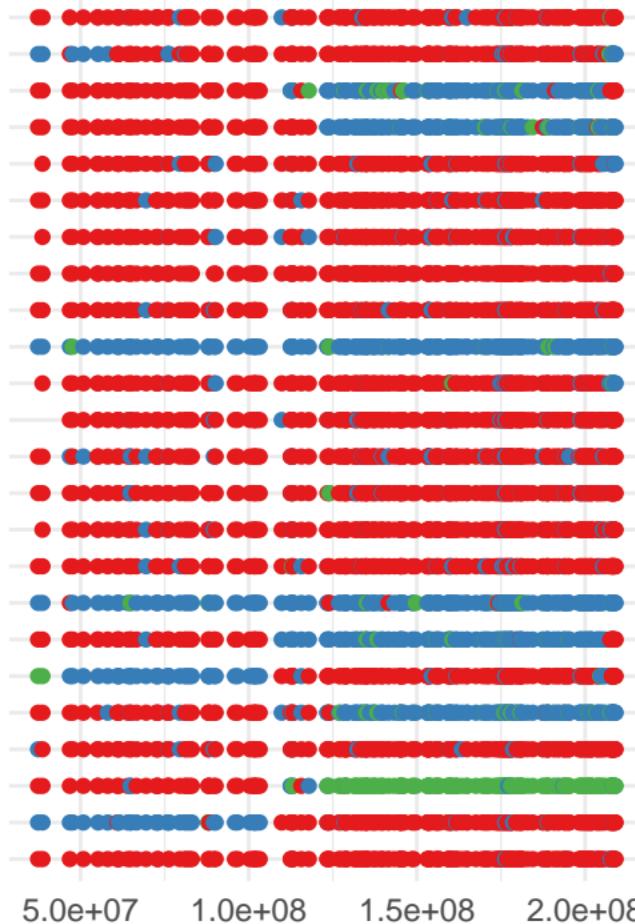


## Allelic state

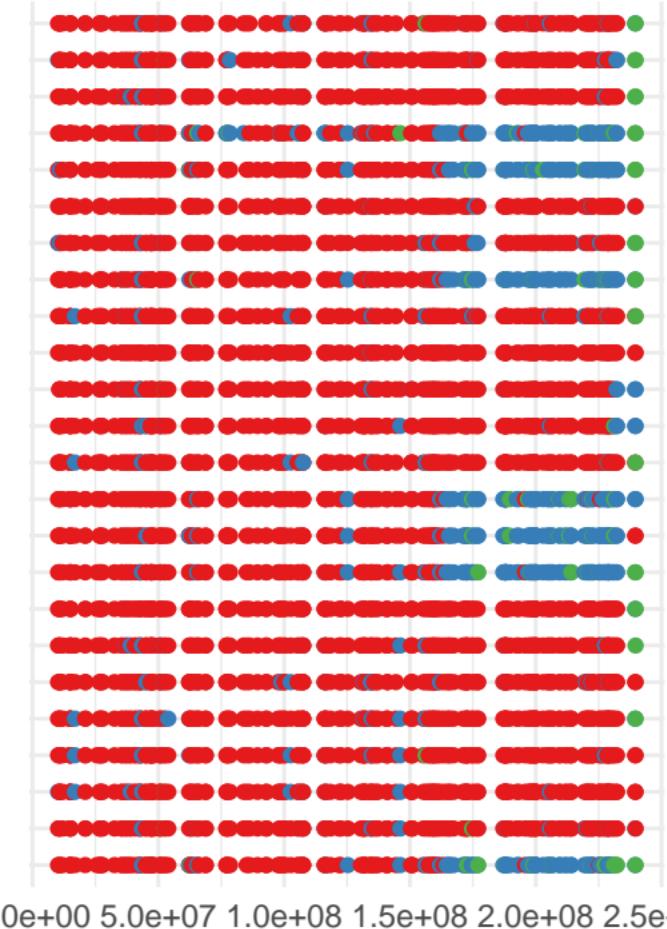
- *Annuus*
- *Heterozygote*
- *Debilis*

4.0e+07    8.0e+07    1.2e+08

# BFL 7.5 HanXRQChr09



# BFL 7.5 HanXRQChr10

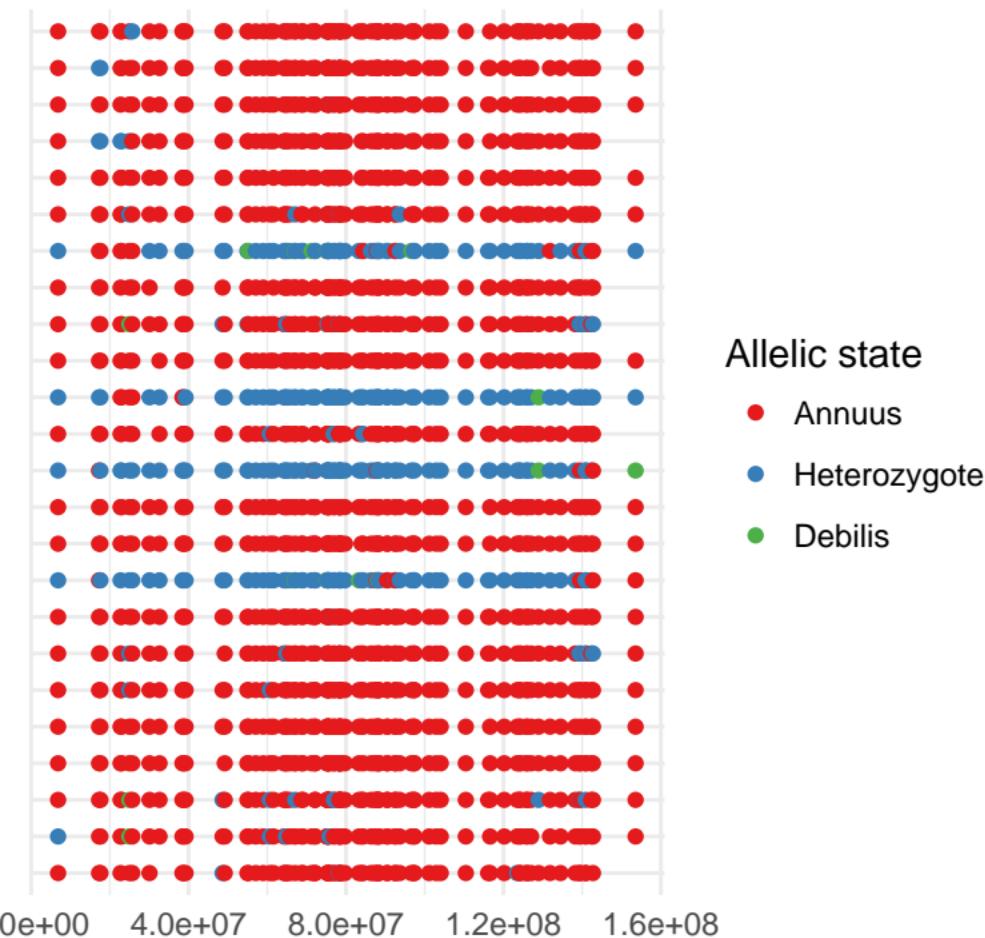


## Allelic state

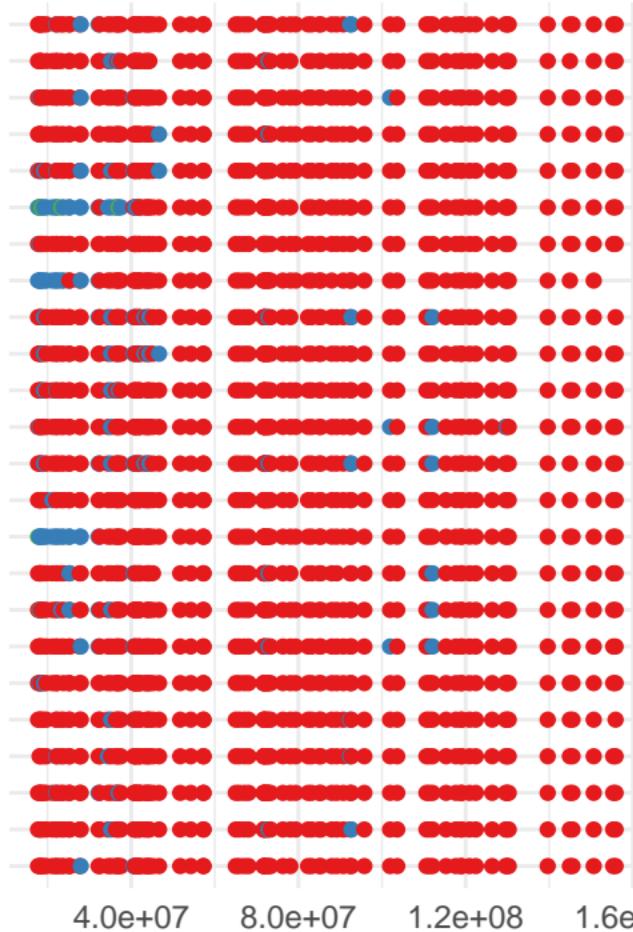
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 7.5 HanXRQChr11



# BFL 7.5 HanXRQChr12

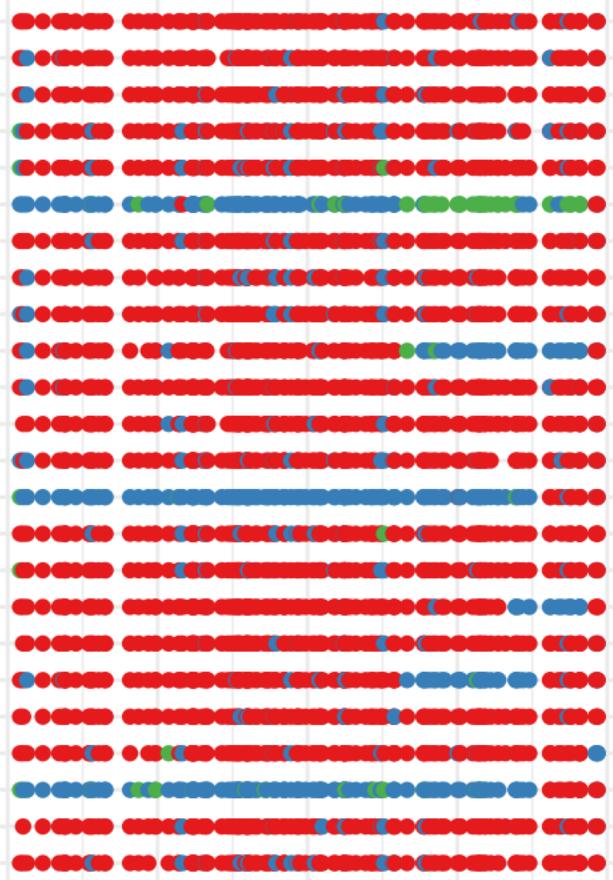


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# BFL 7.5 HanXRQChr13

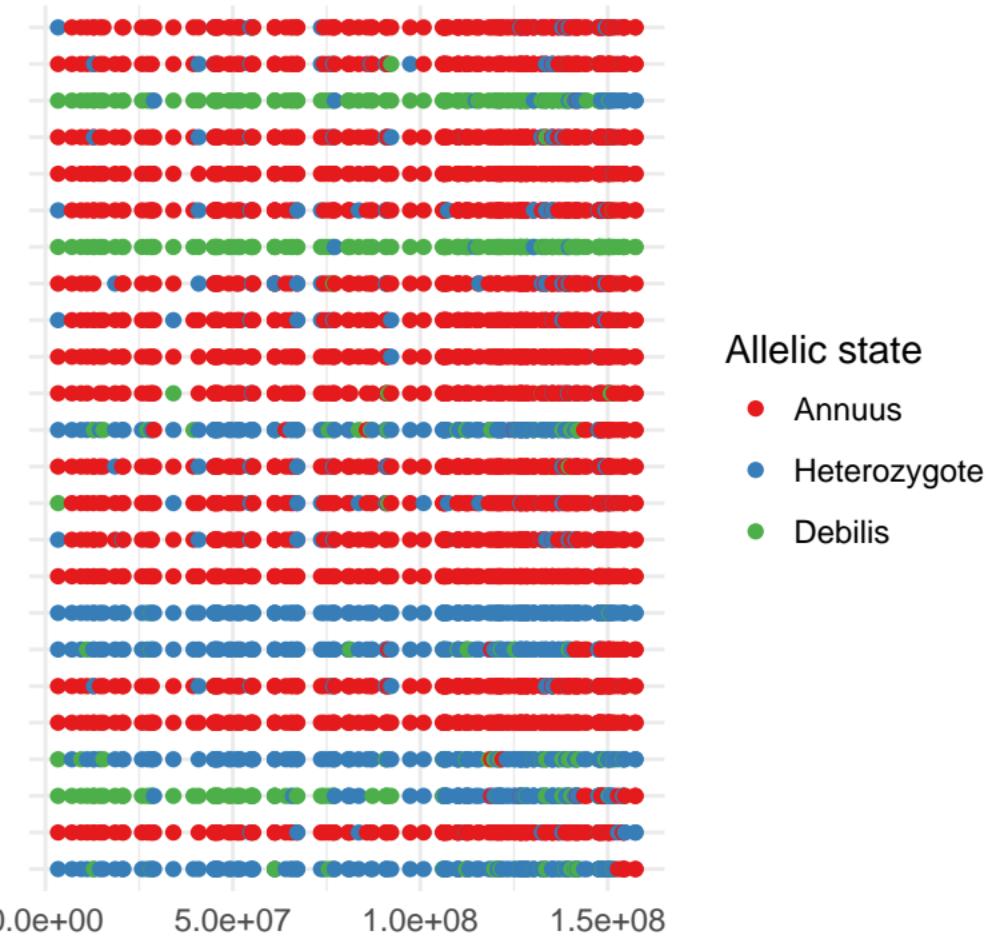


## Allelic state

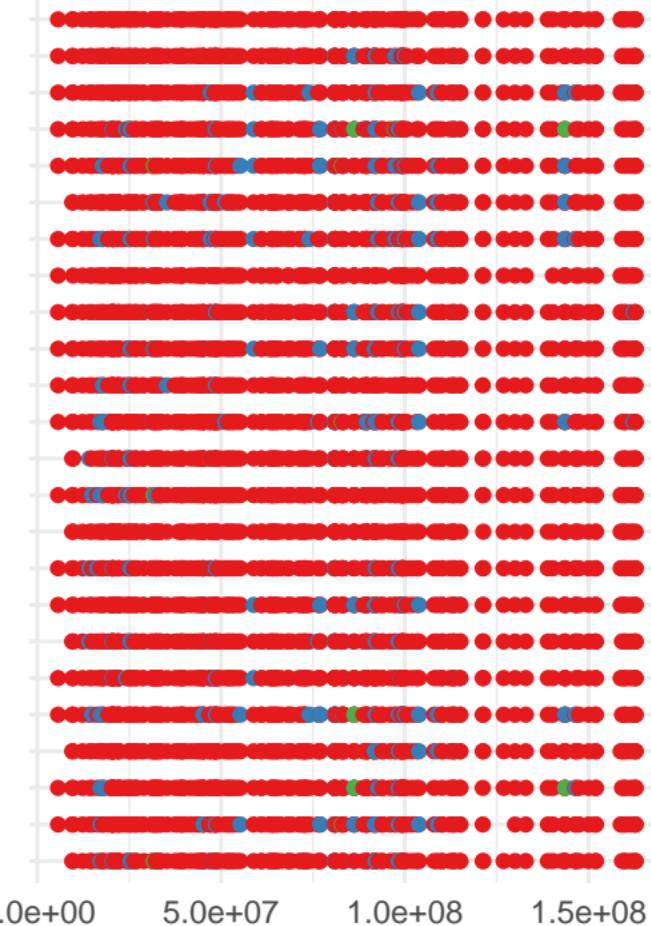
- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 7.5 HanXRQChr14



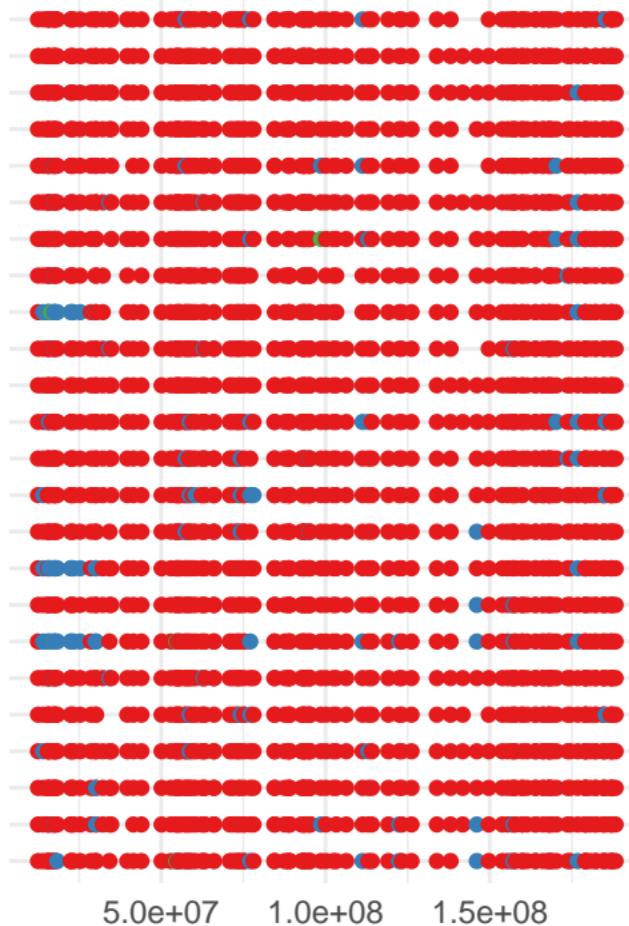
# BFL 7.5 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 7.5 HanXRQChr16

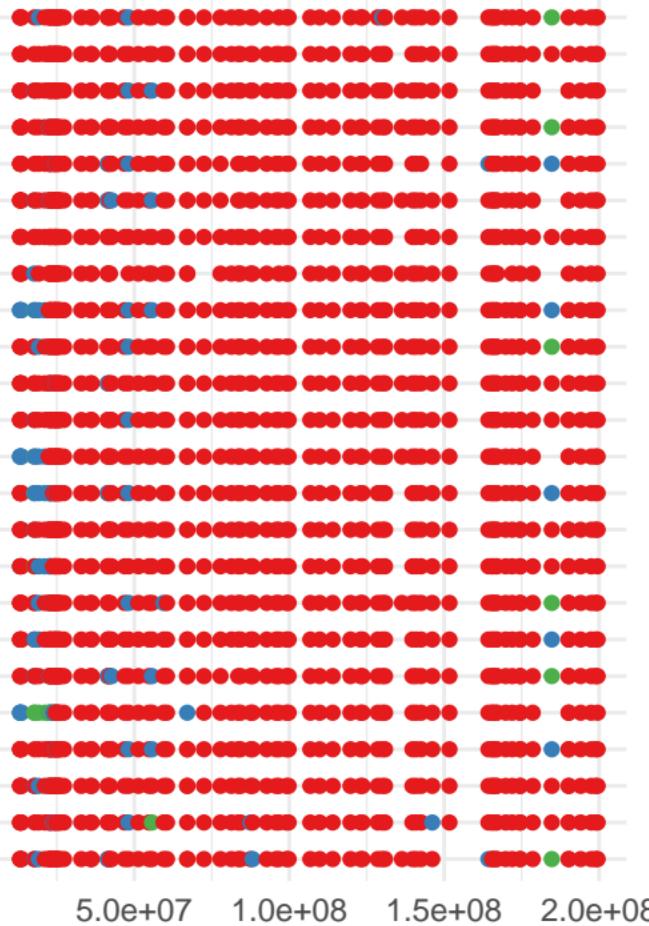


## Allelic state

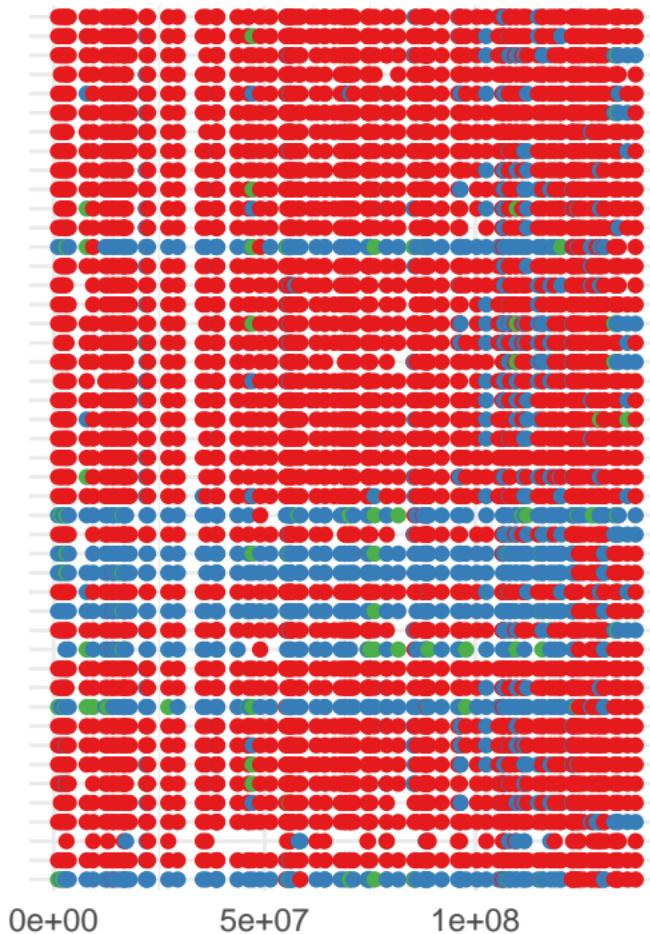
- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# BFL 7.5 HanXRQChr17



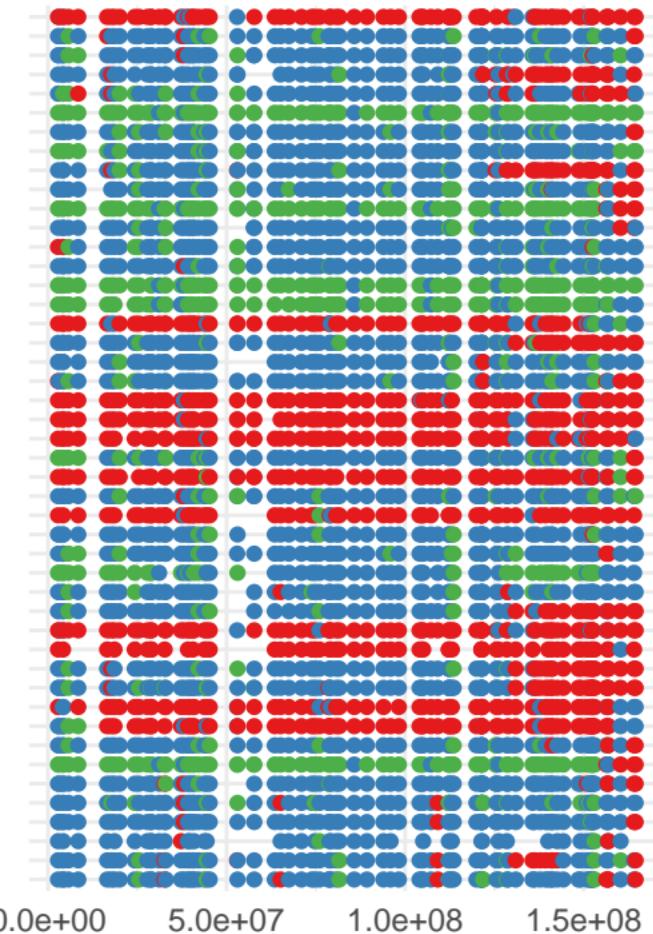
# BFL 10 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

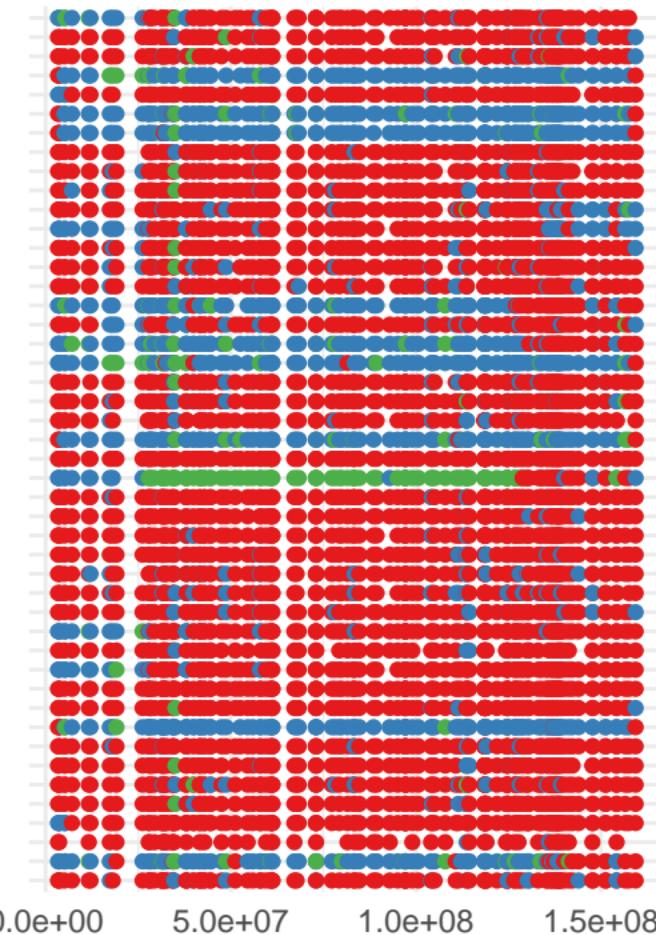
# BFL 10 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 10 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

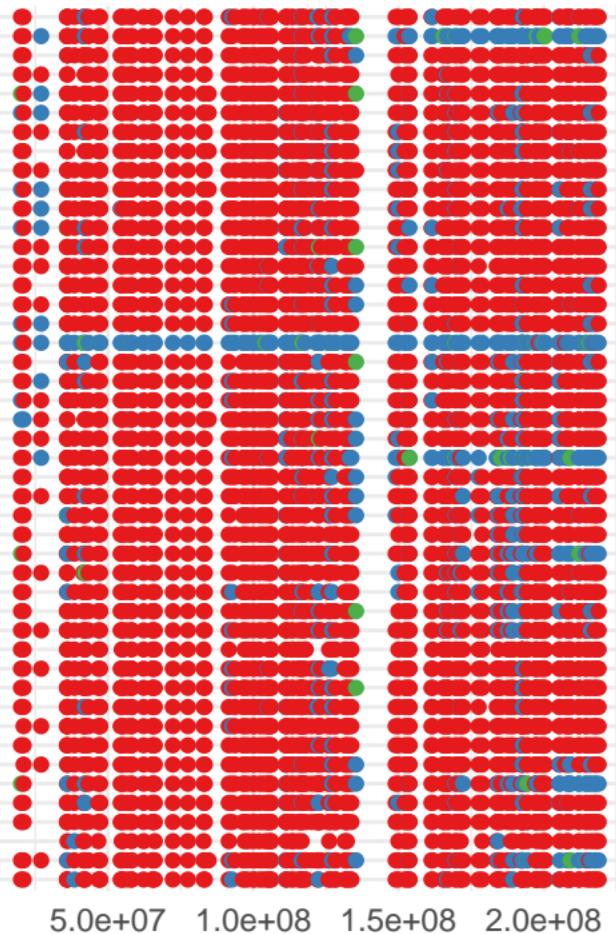
# BFL 10 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 10 HanXRQChr05

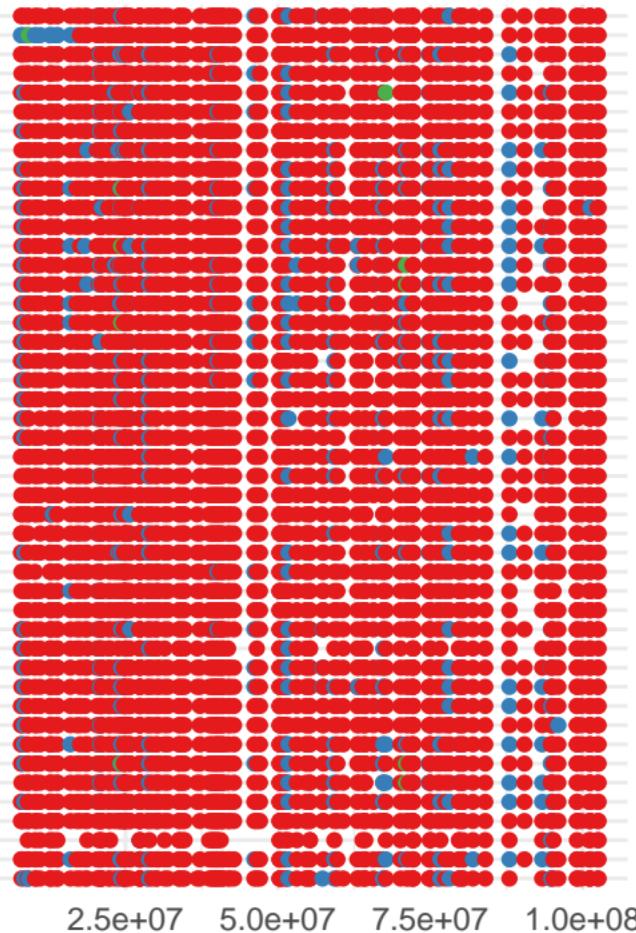


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

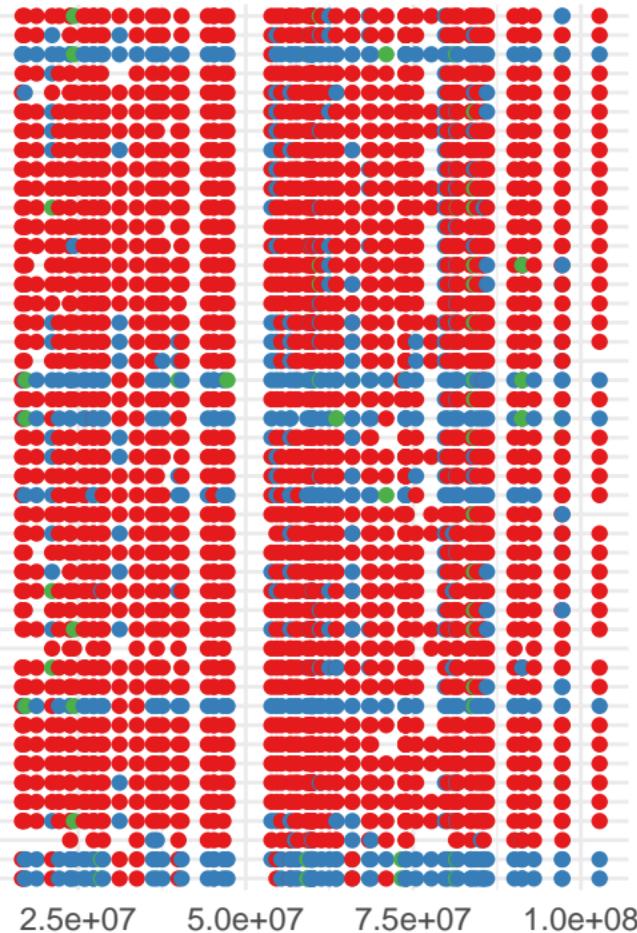
# BFL 10 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 10 HanXRQChr07



## Allelic state

- Annus
- Heterozygote
- Debilis

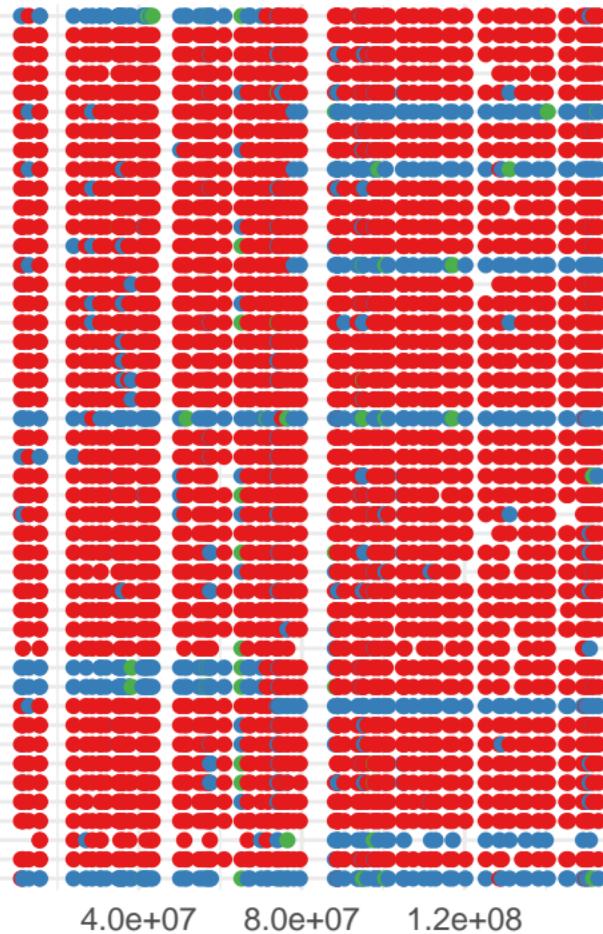
2.5e+07

5.0e+07

7.5e+07

1.0e+08

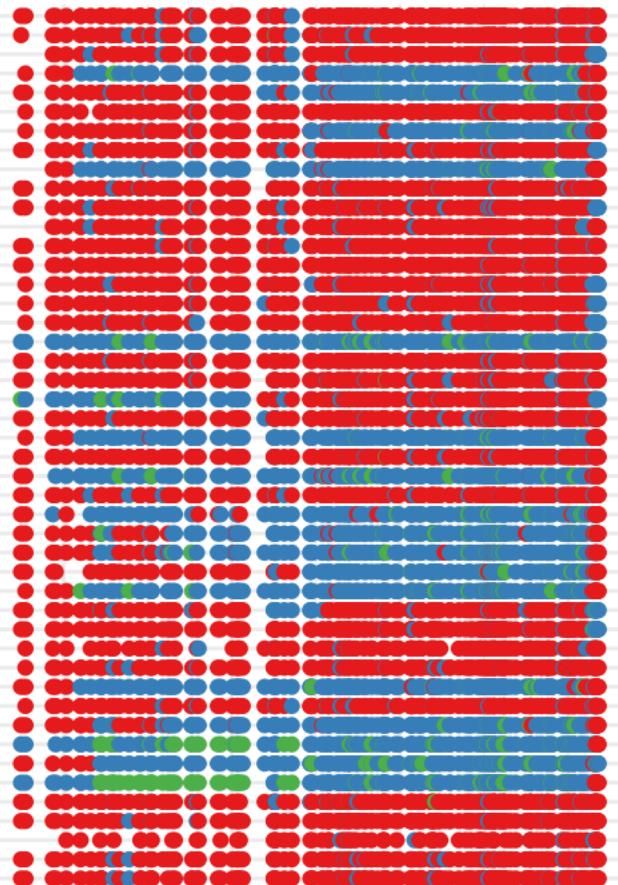
# BFL 10 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 10 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 10 HanXRQChr10

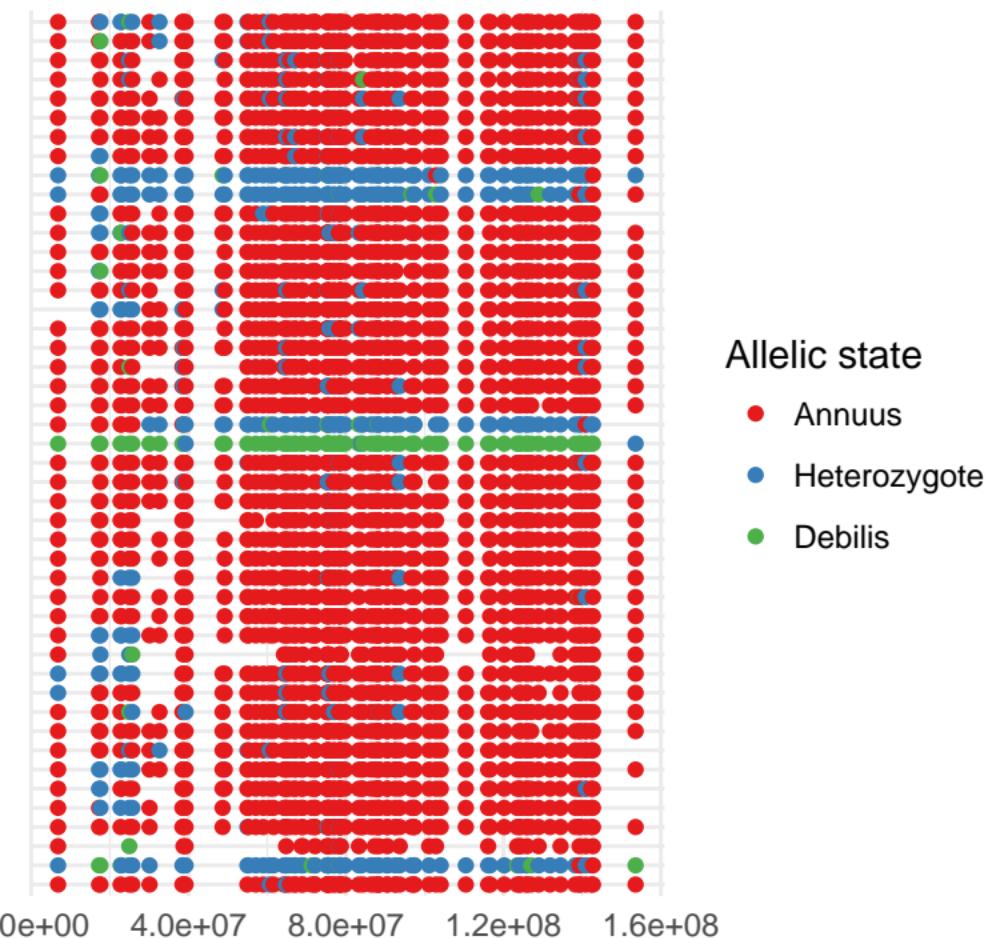


Allelic state

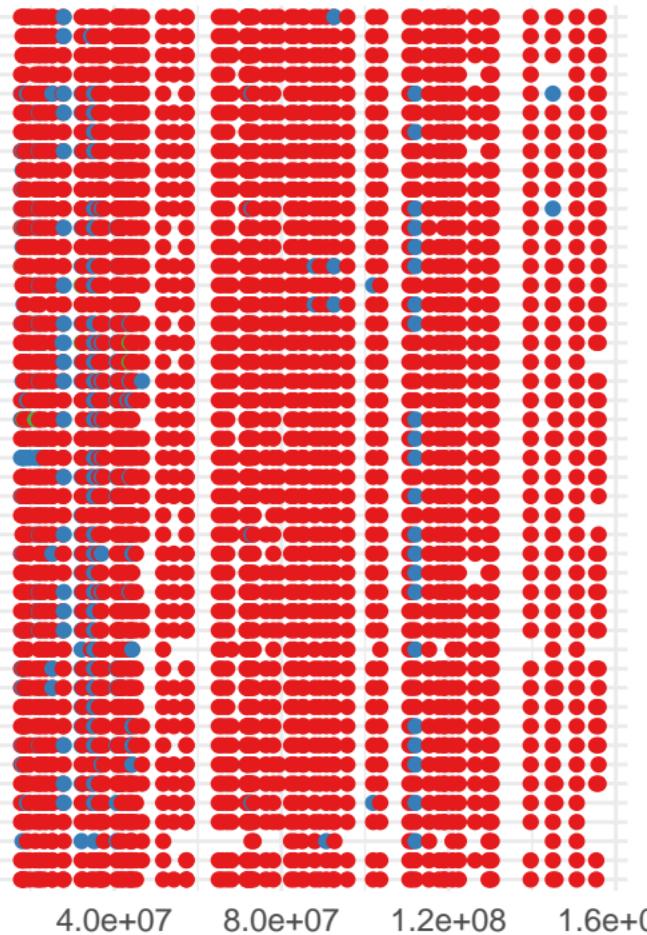
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 10 HanXRQChr11



# BFL 10 HanXRQChr12



## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 10 HanXRQChr13

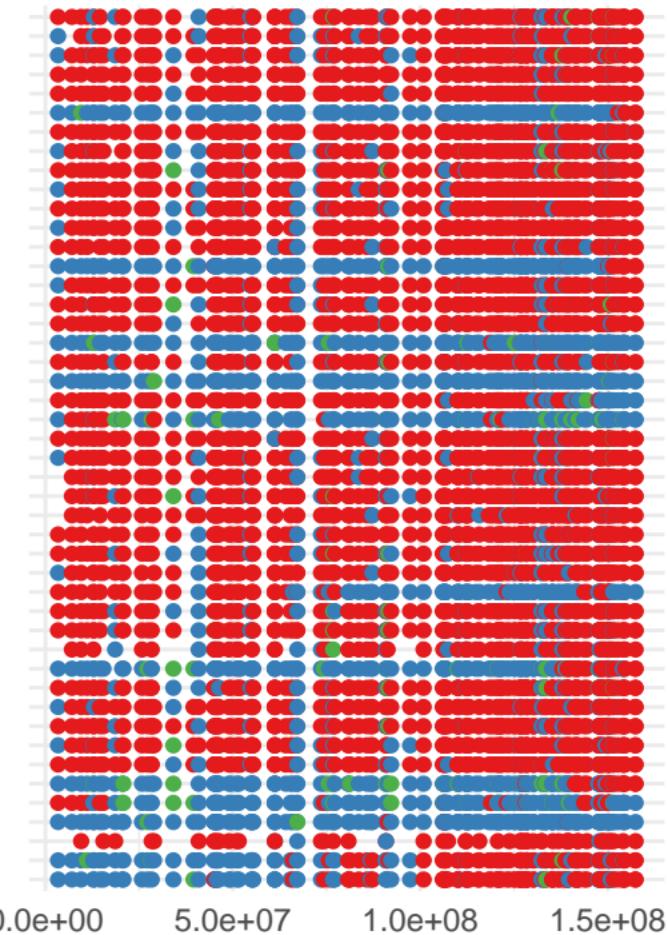


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00    5.0e+07    1.0e+08    1.5e+08    2.0e+08

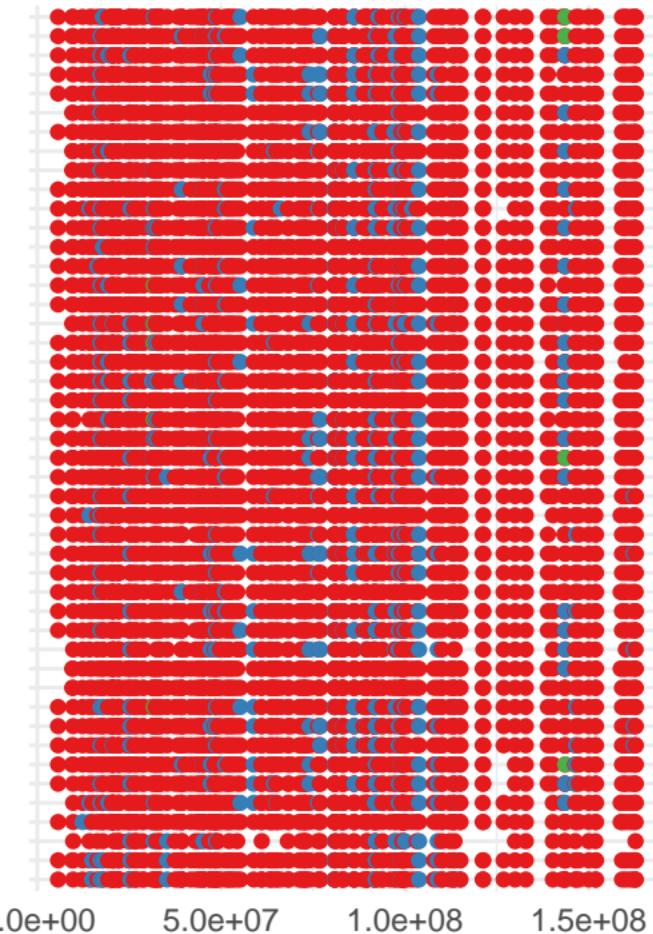
# BFL 10 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

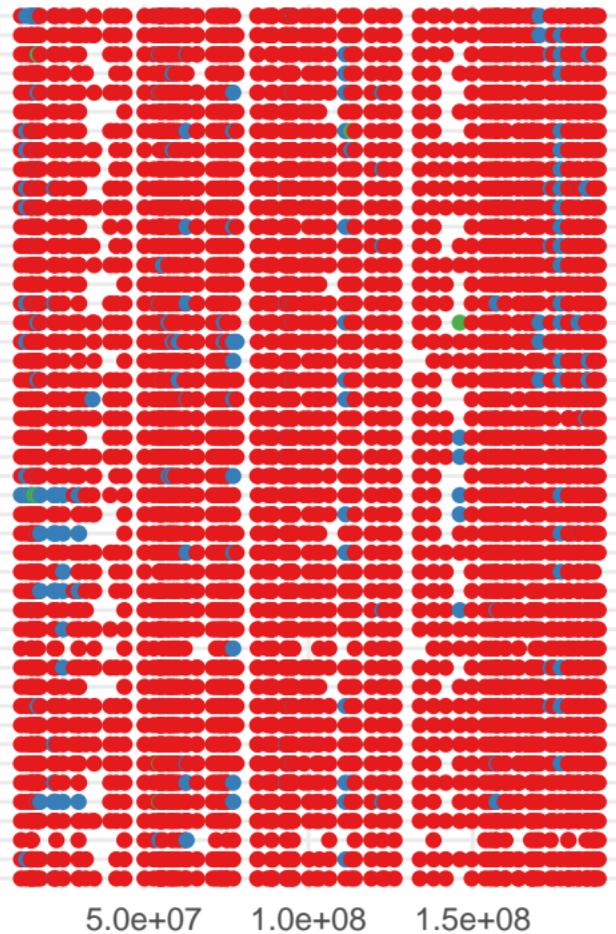
# BFL 10 HanXRQChr15



Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 10 HanXRQChr16



Allelic state

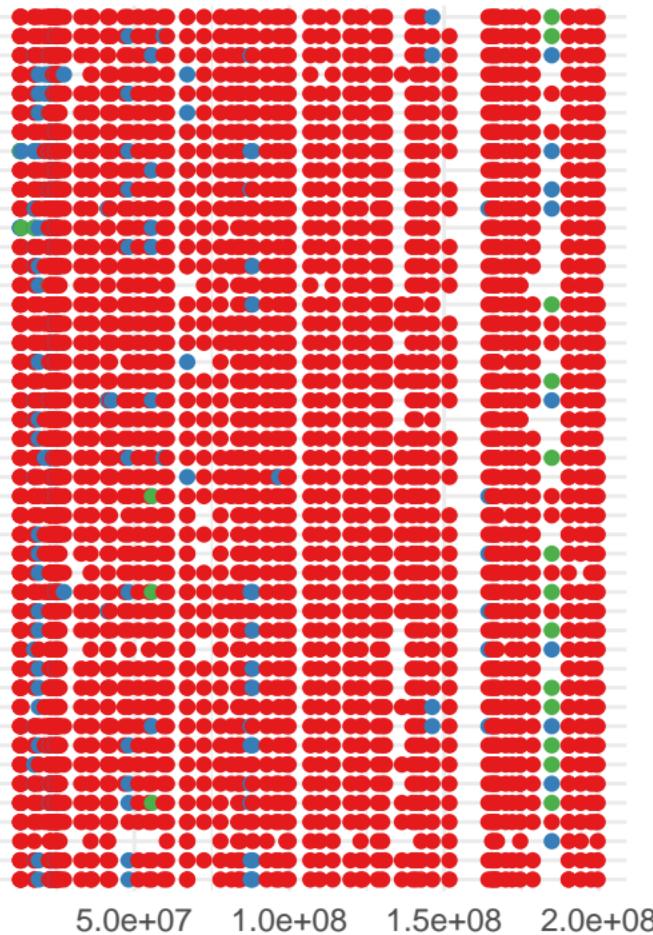
- Annuus
- Heterozygote
- Debilis

5.0e+07

1.0e+08

1.5e+08

# BFL 10 HanXRQChr17

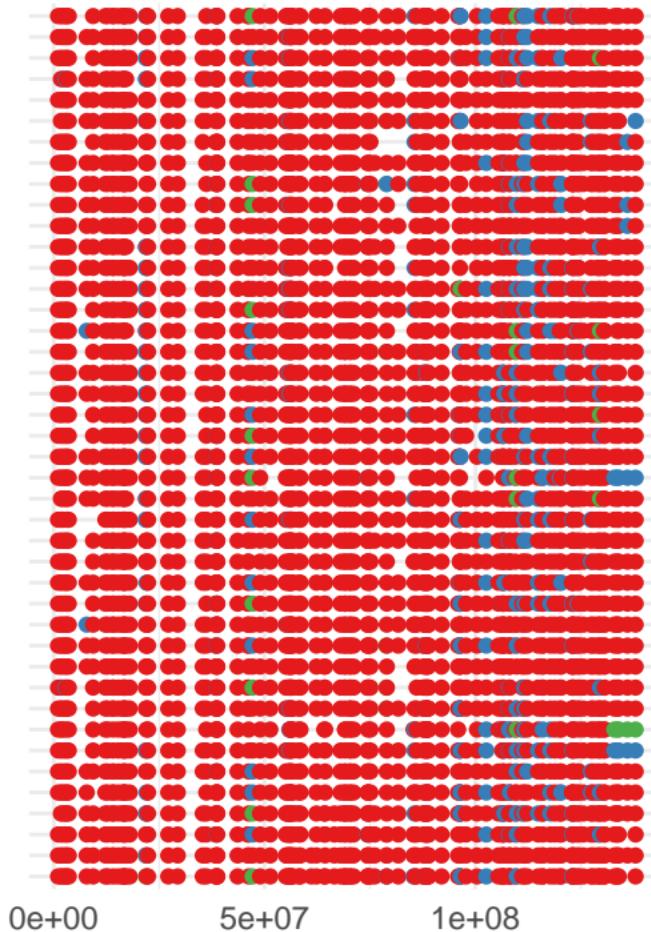


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

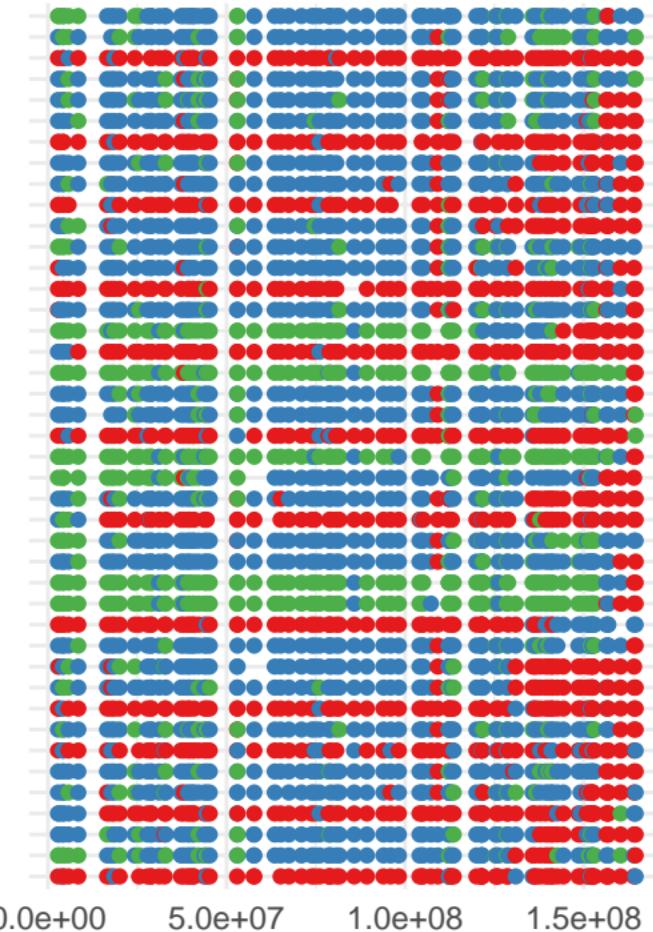
# BFL 11 HanXRQChr01



## Allelic state

- Annus
- Heterozygote
- Debilis

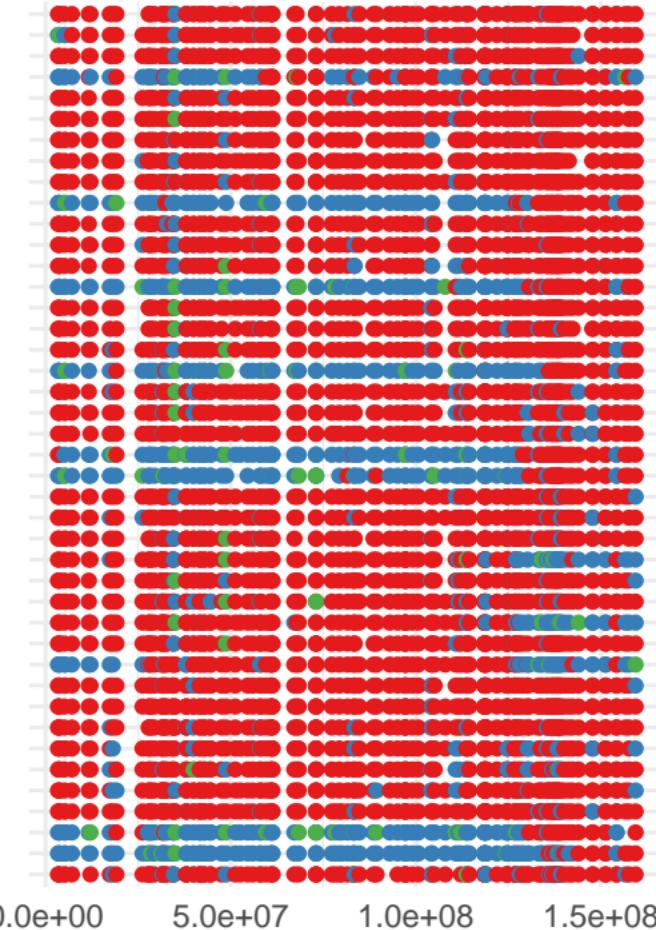
# BFL 11 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

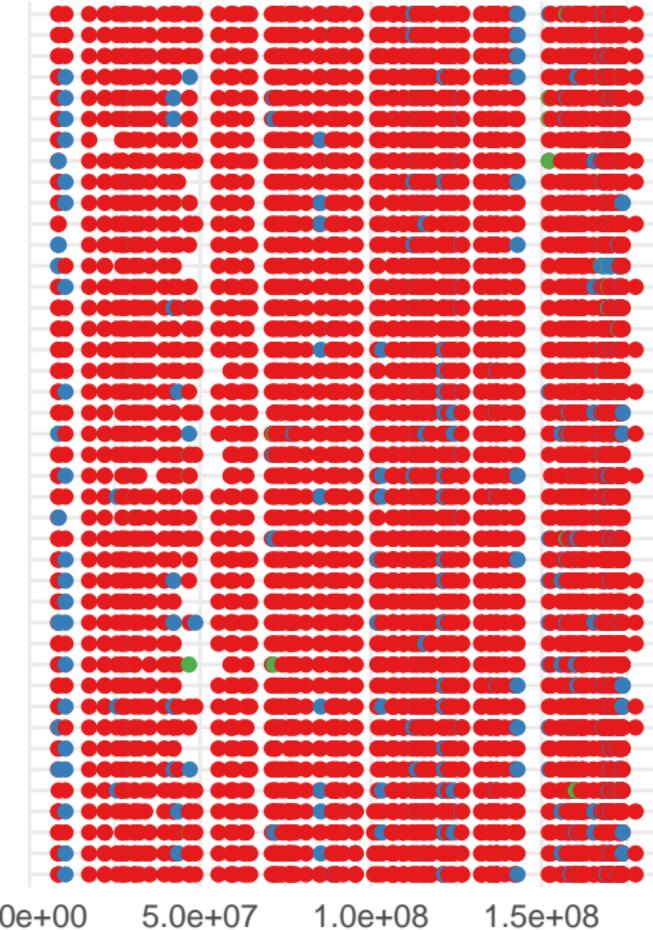
# BFL 11 HanXRQChr03



## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 11 HanXRQChr04



Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 11 HanXRQChr05

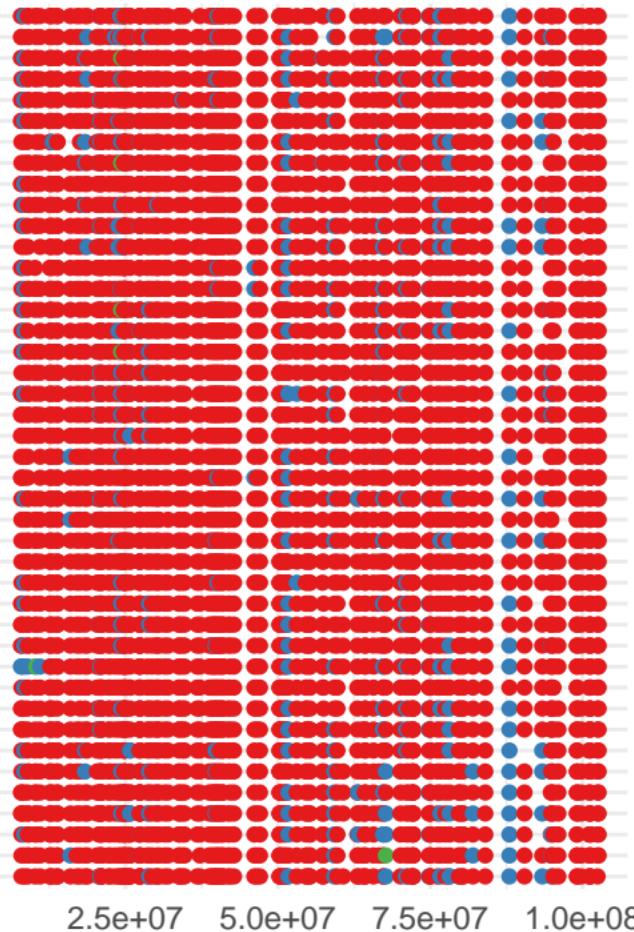


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 11 HanXRQChr06

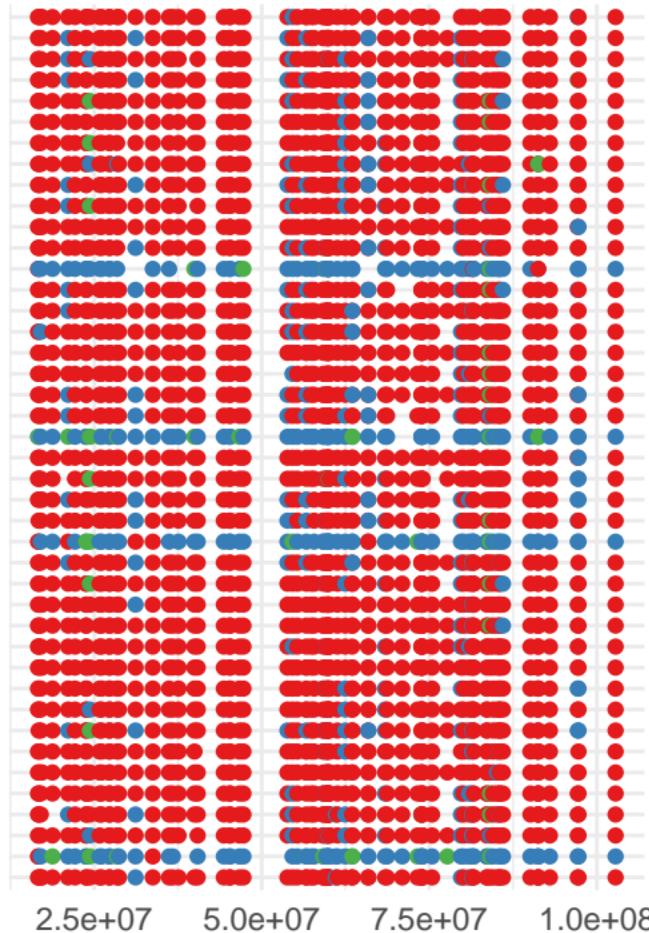


Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# BFL 11 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 11 HanXRQChr08

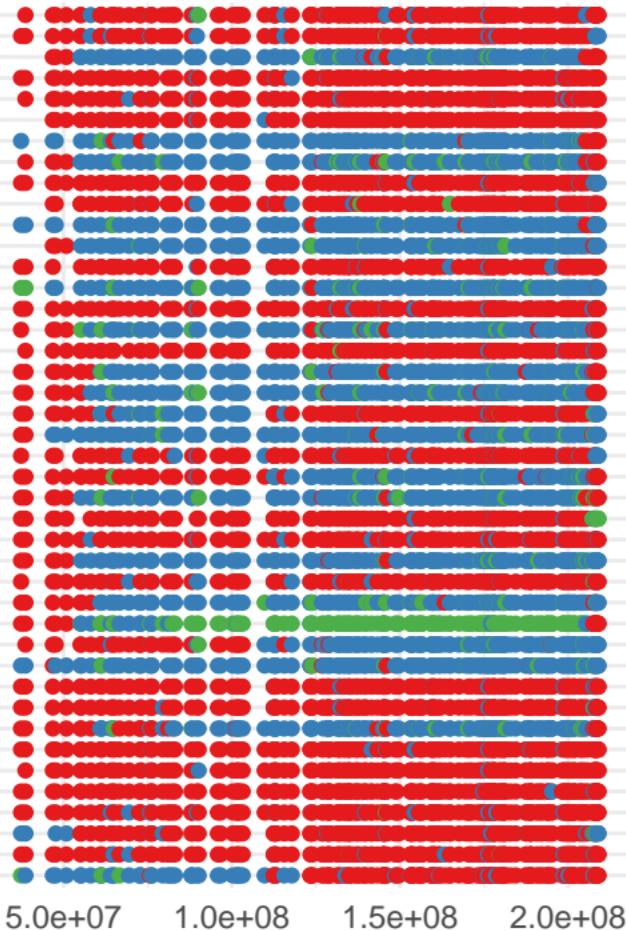


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# BFL 11 HanXRQChr09

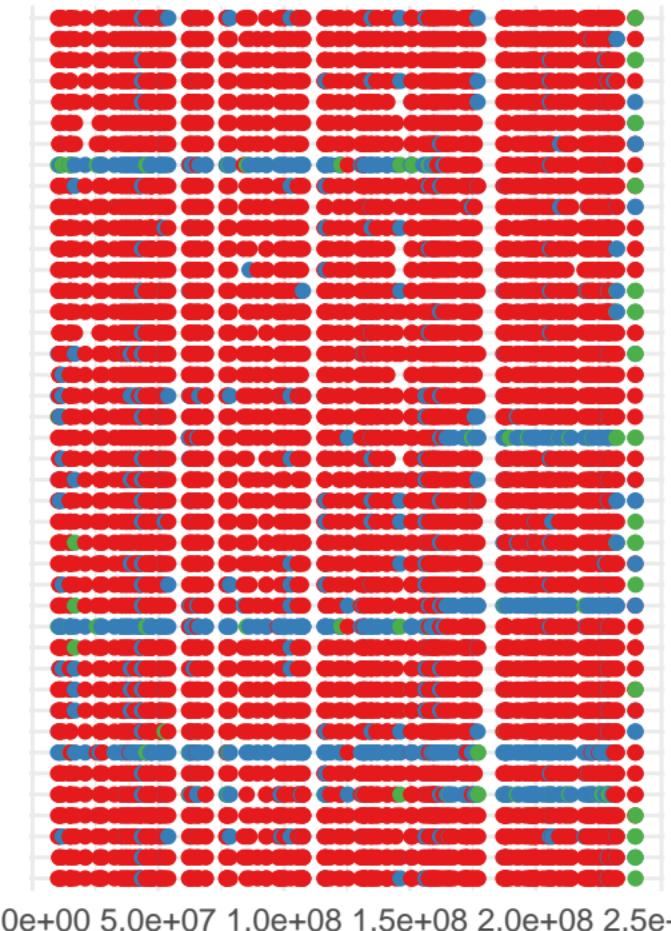


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 11 HanXRQChr10

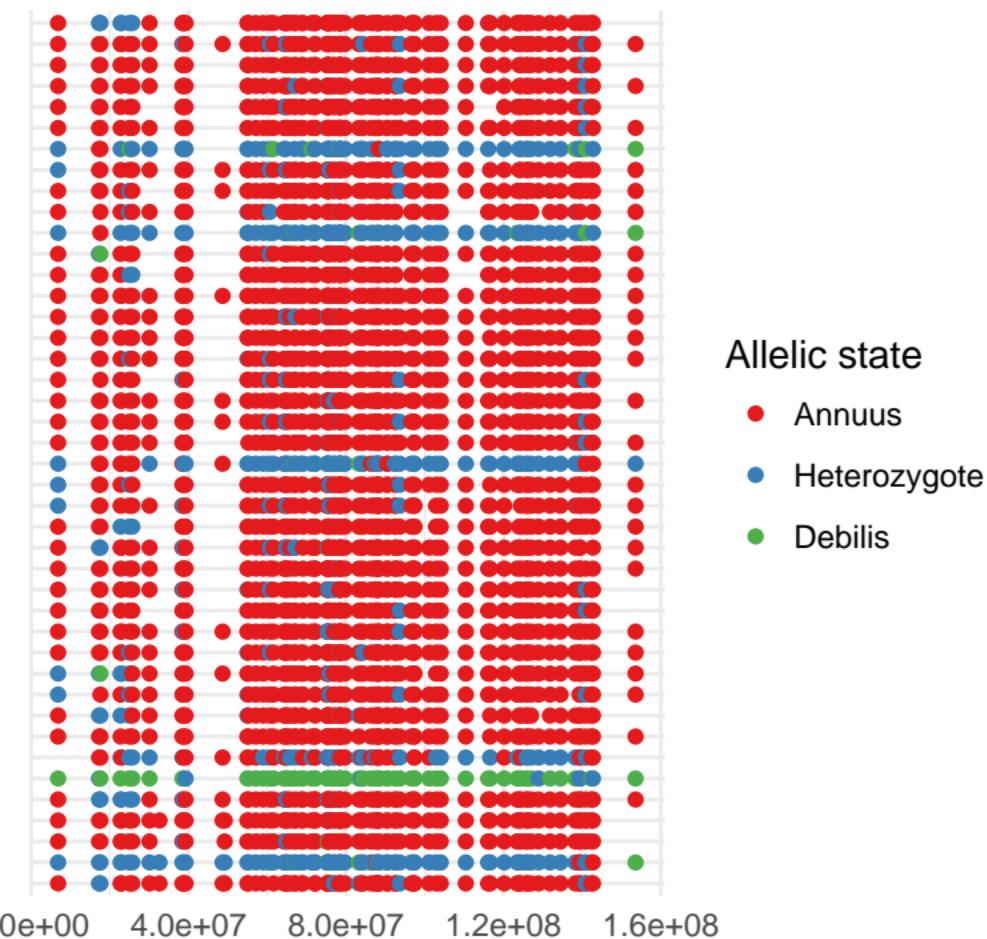


## Allelic state

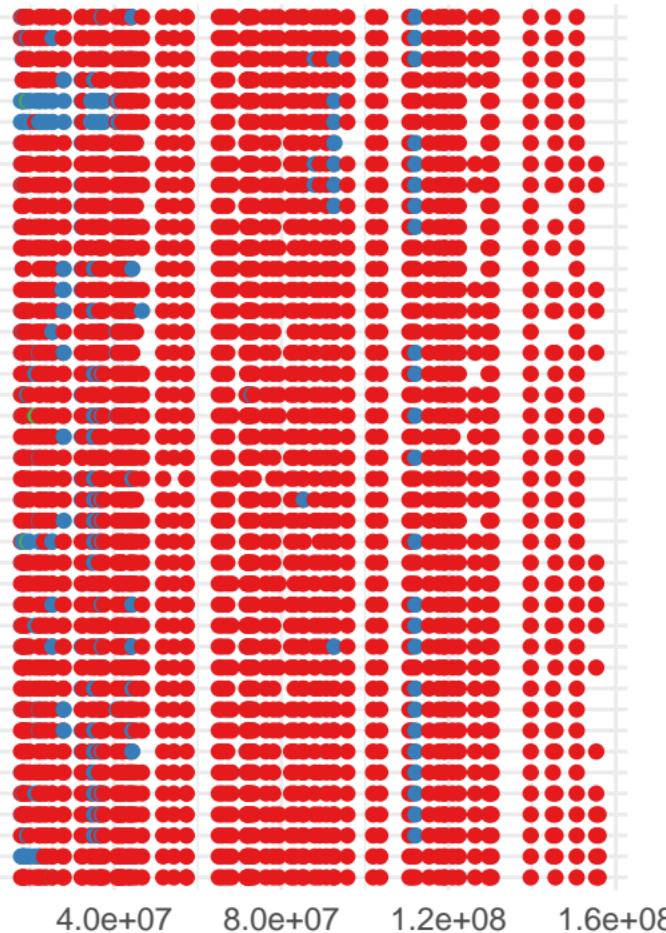
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 11 HanXRQChr11



# BFL 11 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

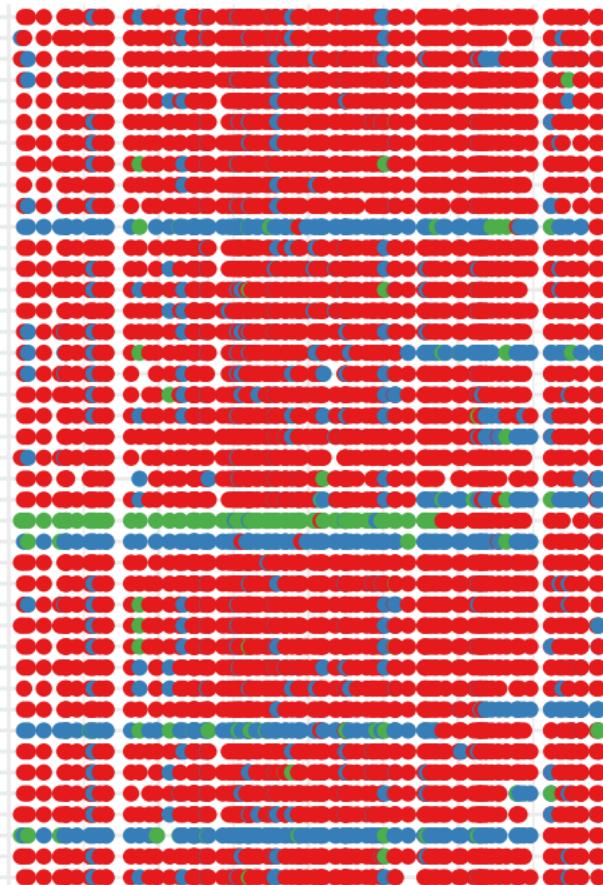
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# BFL 11 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

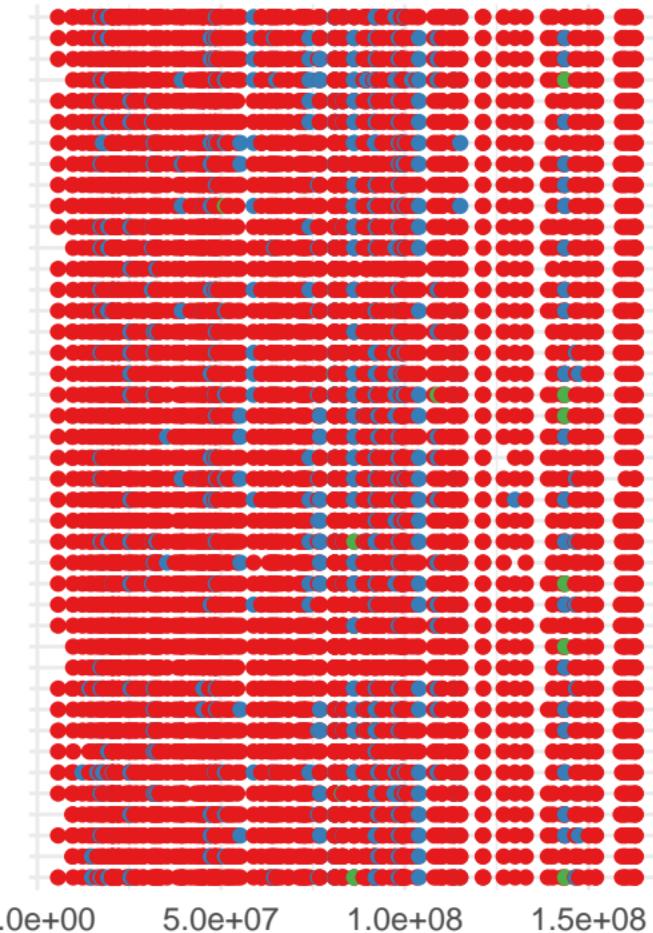
# BFL 11 HanXRQChr14



Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 11 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 11 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# BFL 11 HanXRQChr17

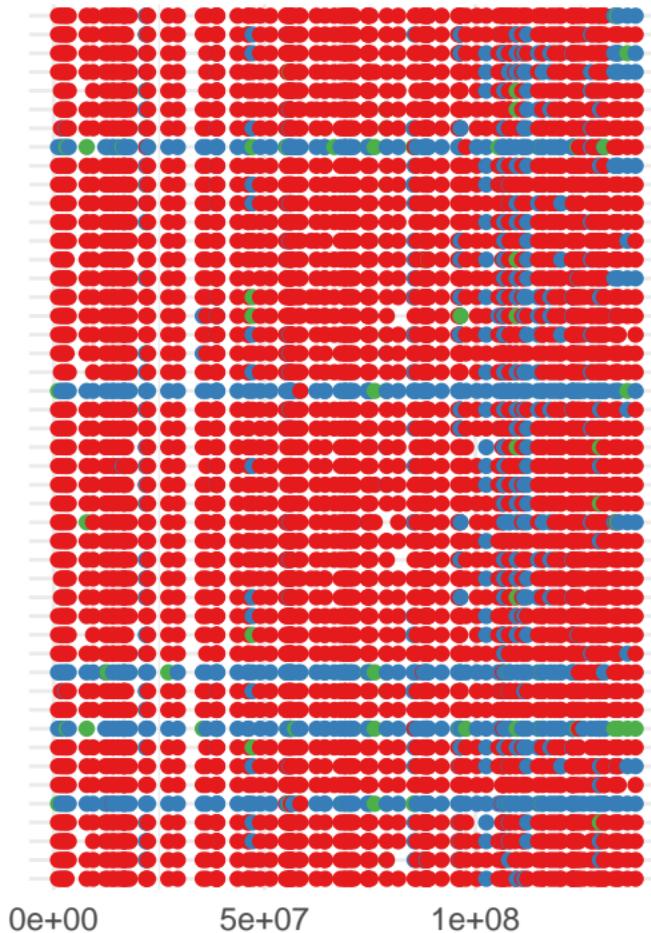


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

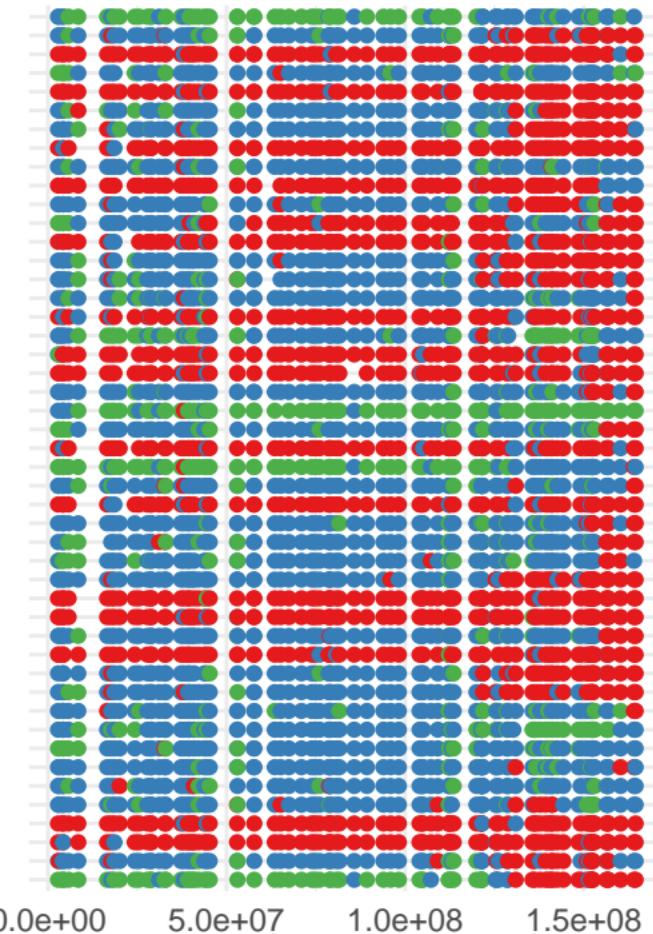
# BFL 12 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

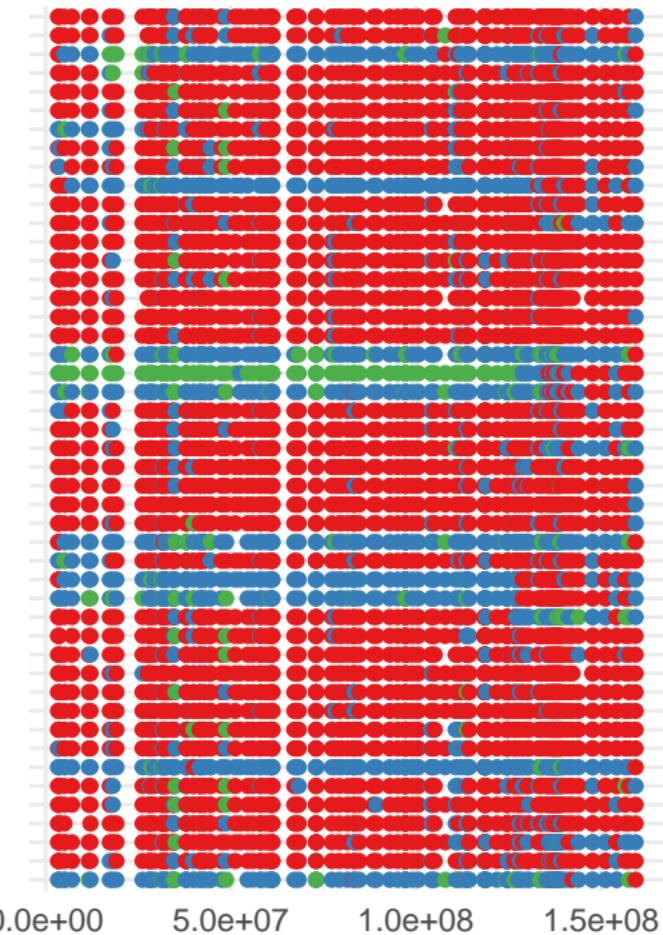
# BFL 12 HanXRQChr02



Allelic state

- Annus
- Heterozygote
- Debilis

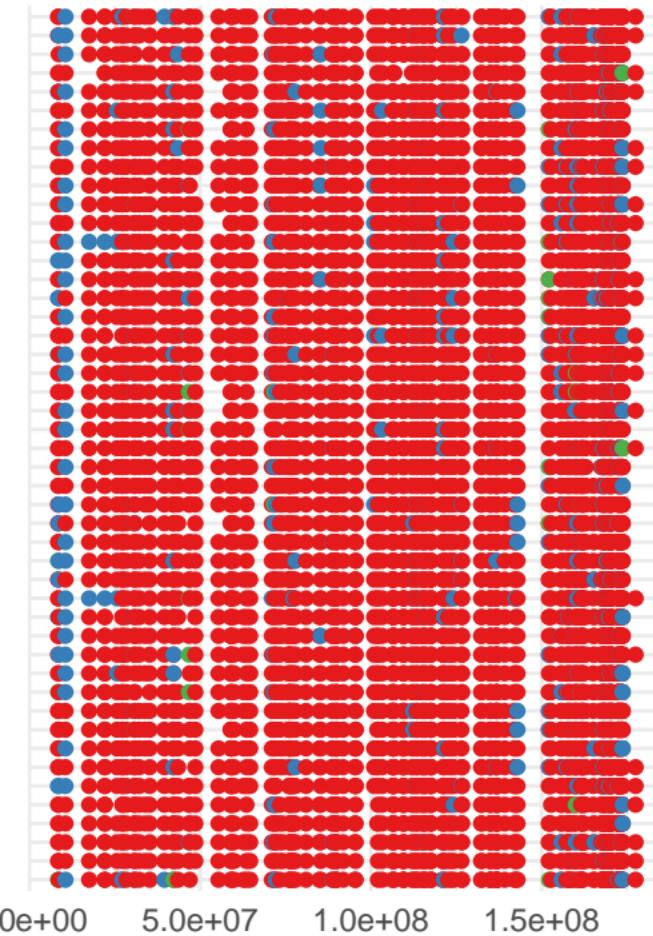
# BFL 12 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

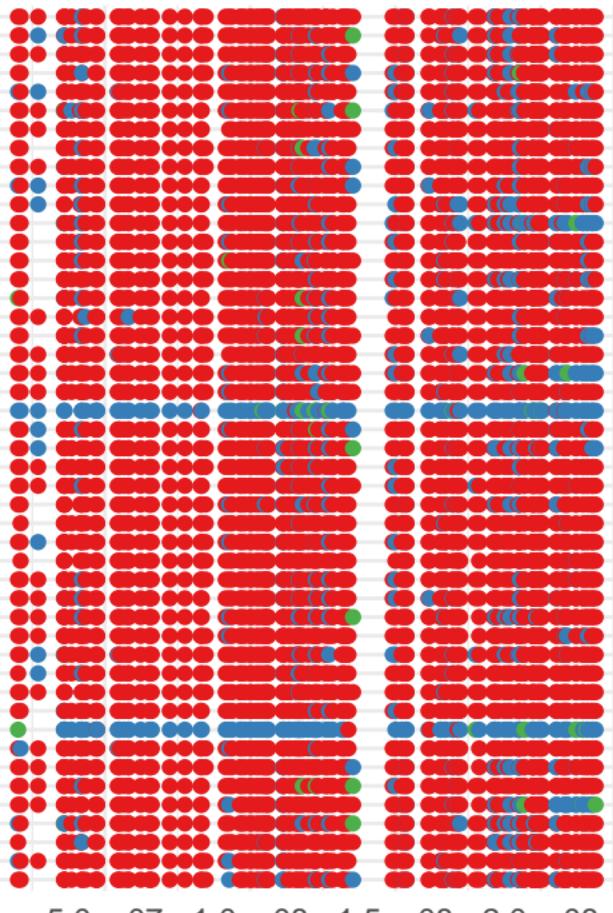
# BFL 12 HanXRQChr04



Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 12 HanXRQChr05

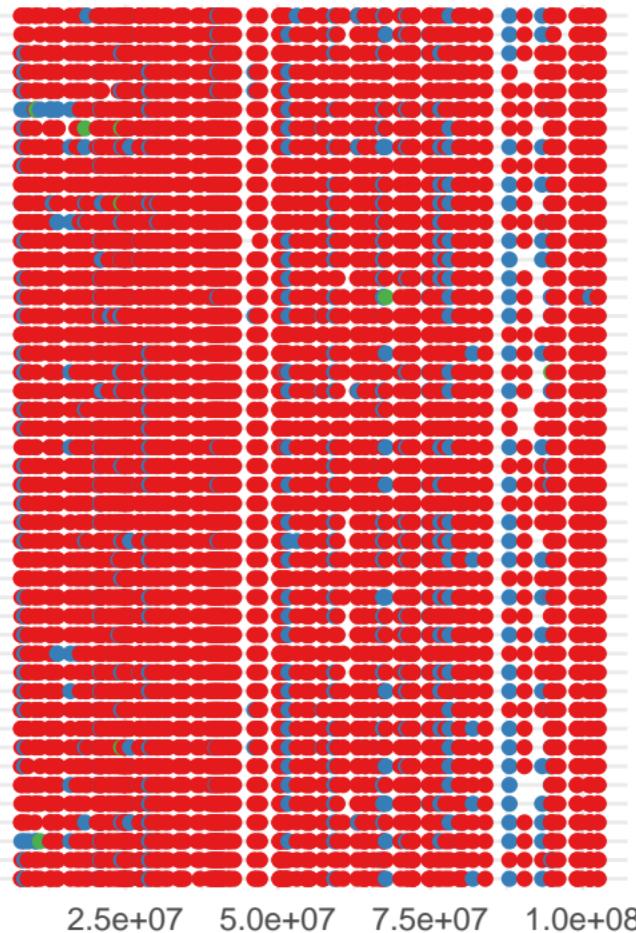


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# BFL 12 HanXRQChr06

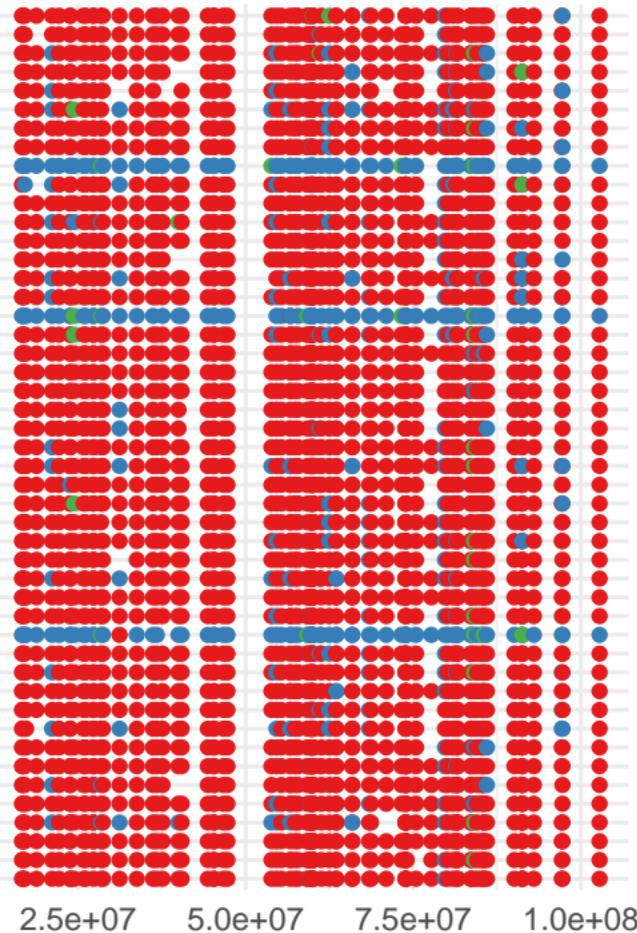


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07   5.0e+07   7.5e+07   1.0e+08

# BFL 12 HanXRQChr07



## Allelic state

- Annus
- Heterozygote
- Debilis

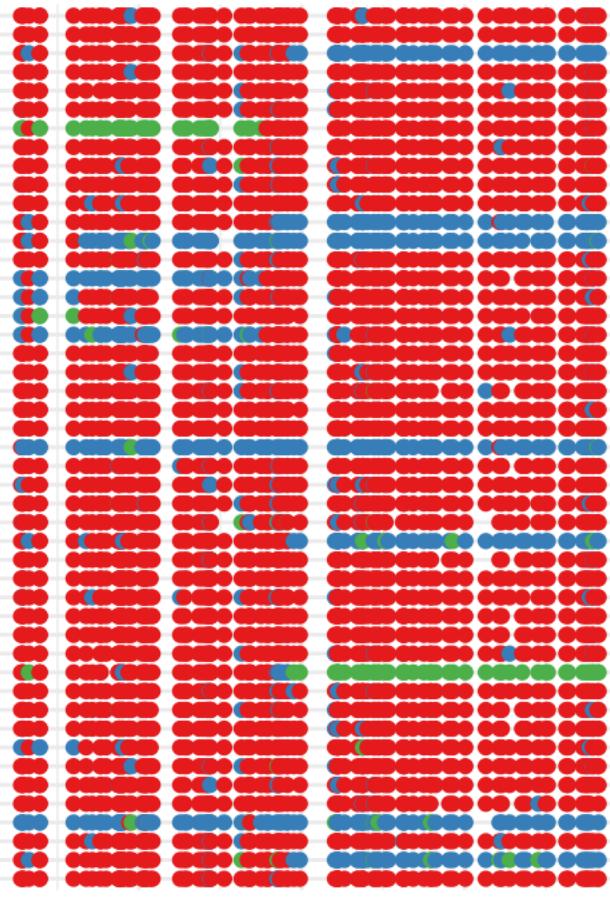
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 12 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 12 HanXRQChr09



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 12 HanXRQChr10

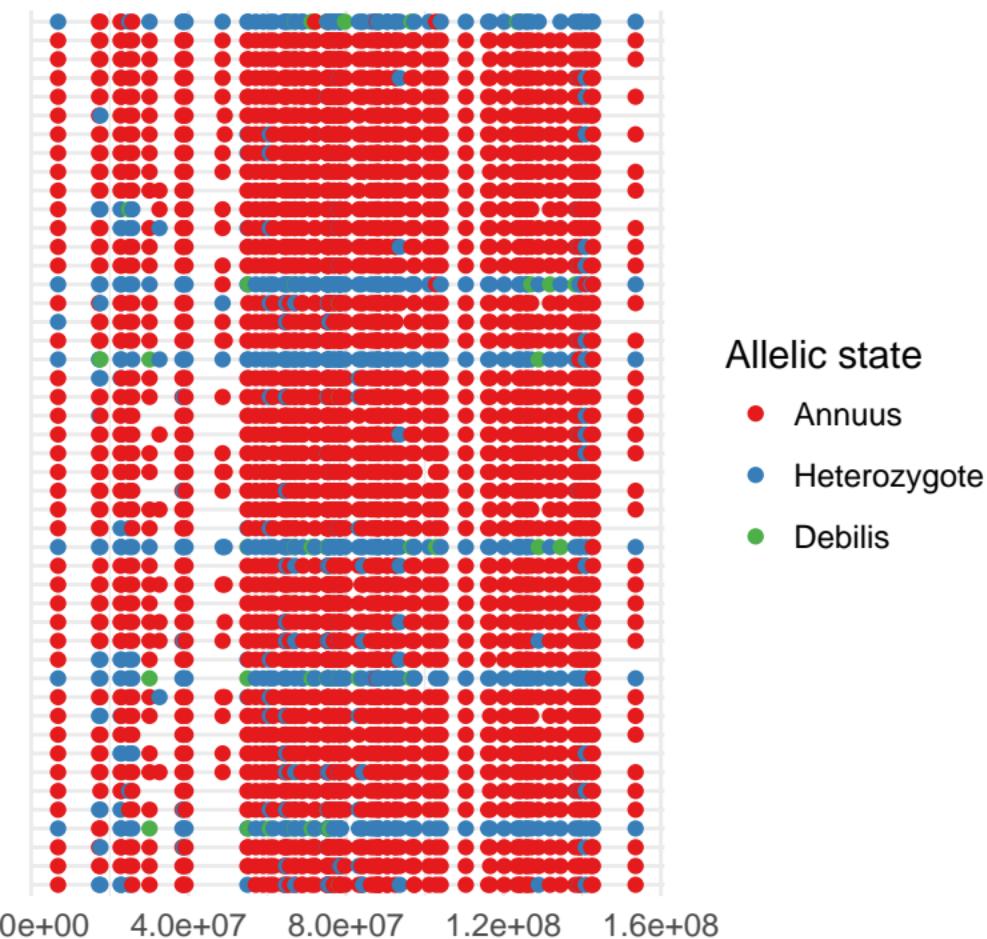


## Allelic state

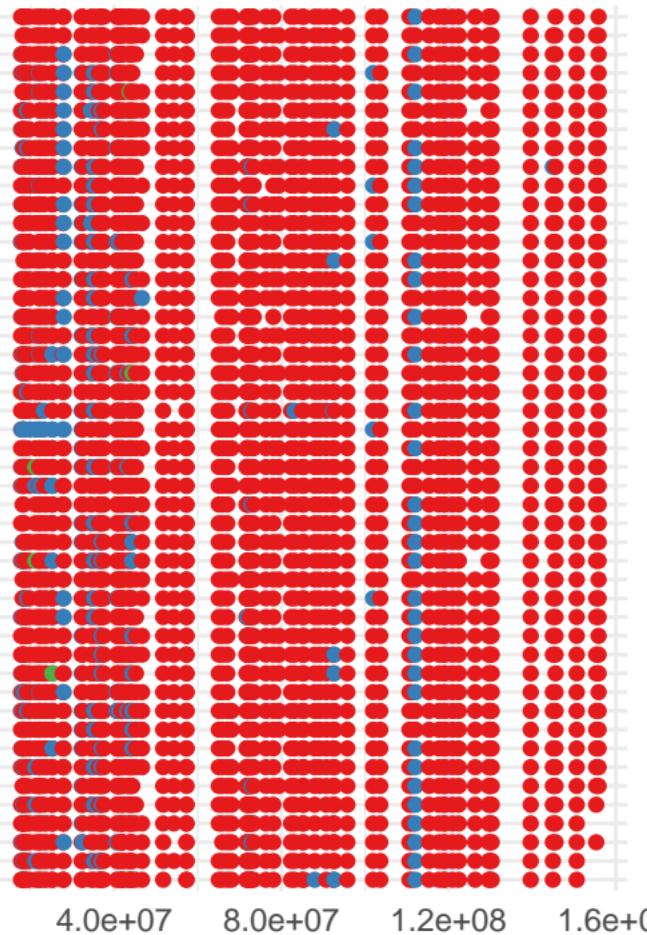
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 12 HanXRQChr11



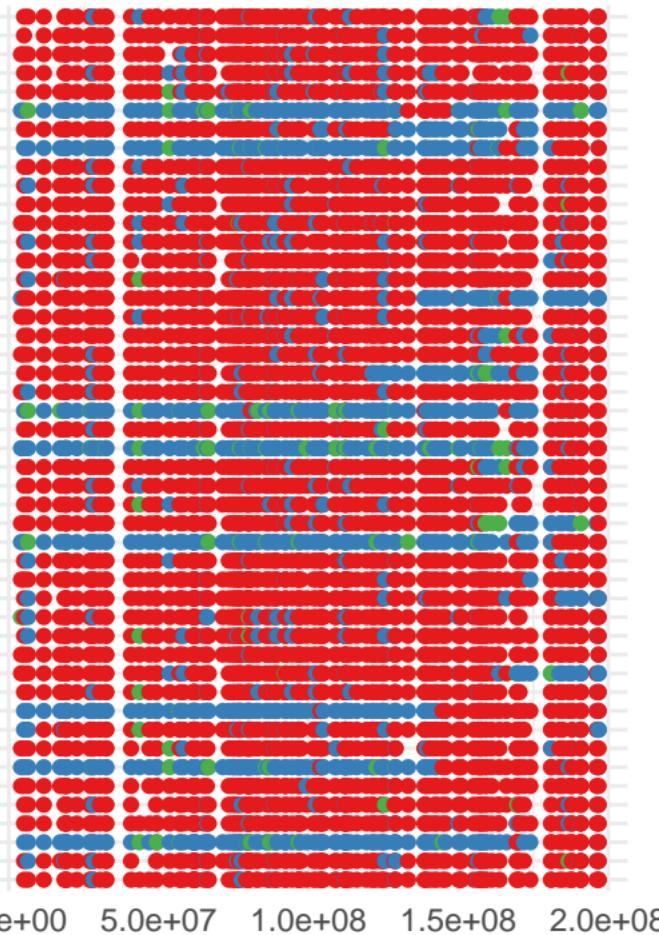
# BFL 12 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

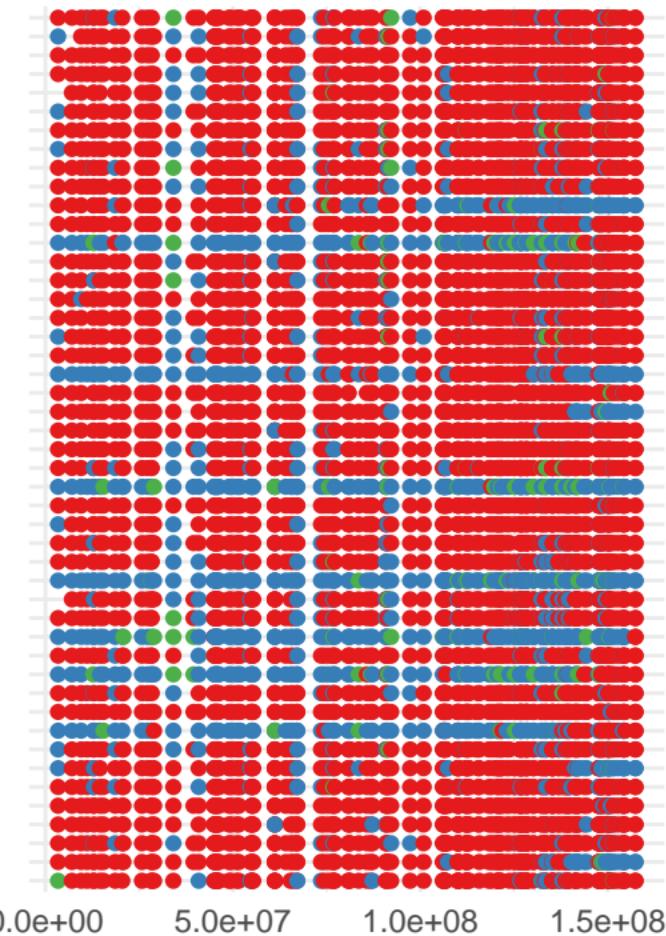
# BFL 12 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

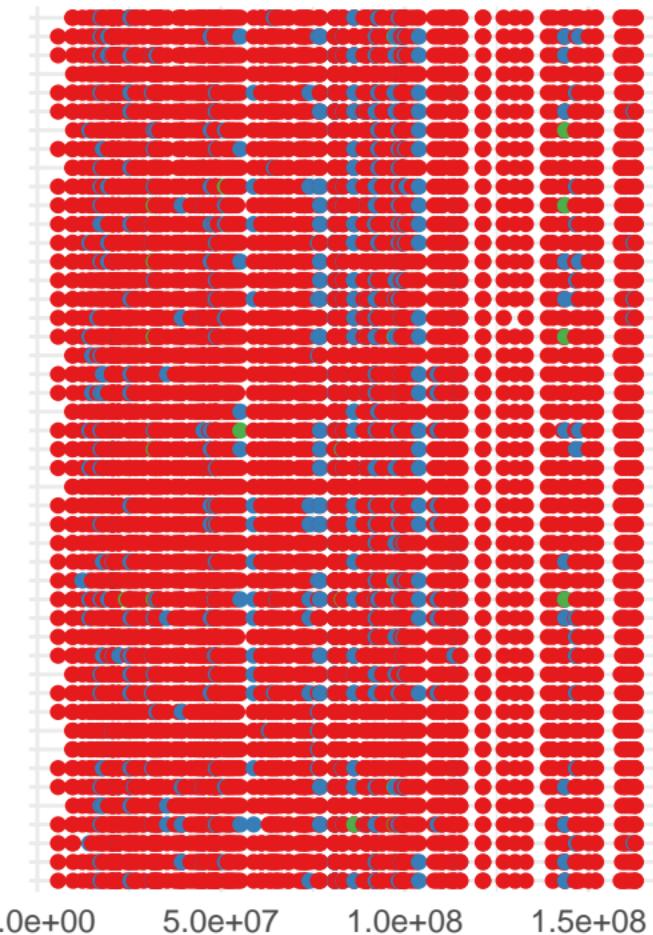
# BFL 12 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

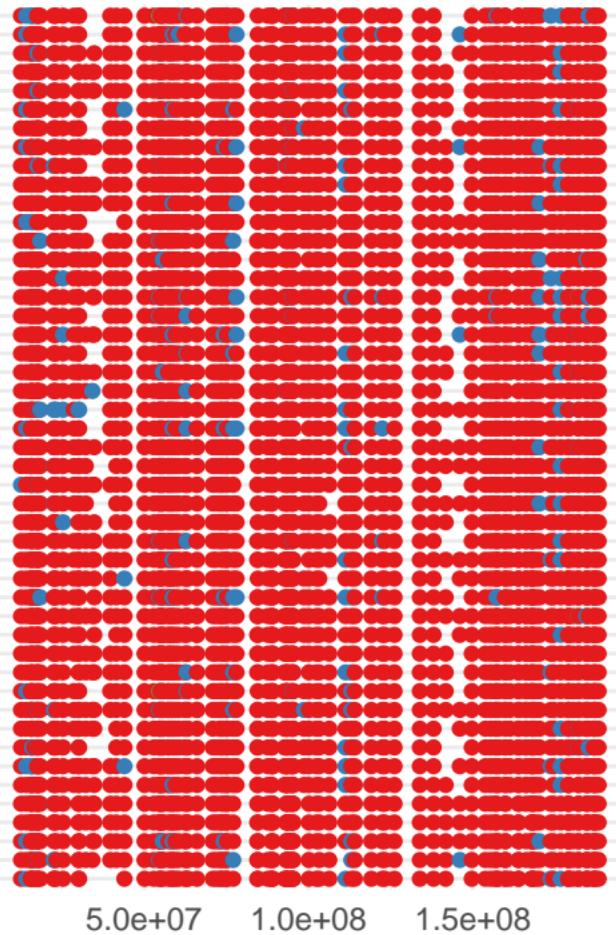
# BFL 12 HanXRQChr15



Allelic state

- Annuus
- Heterozygote
- Debilis

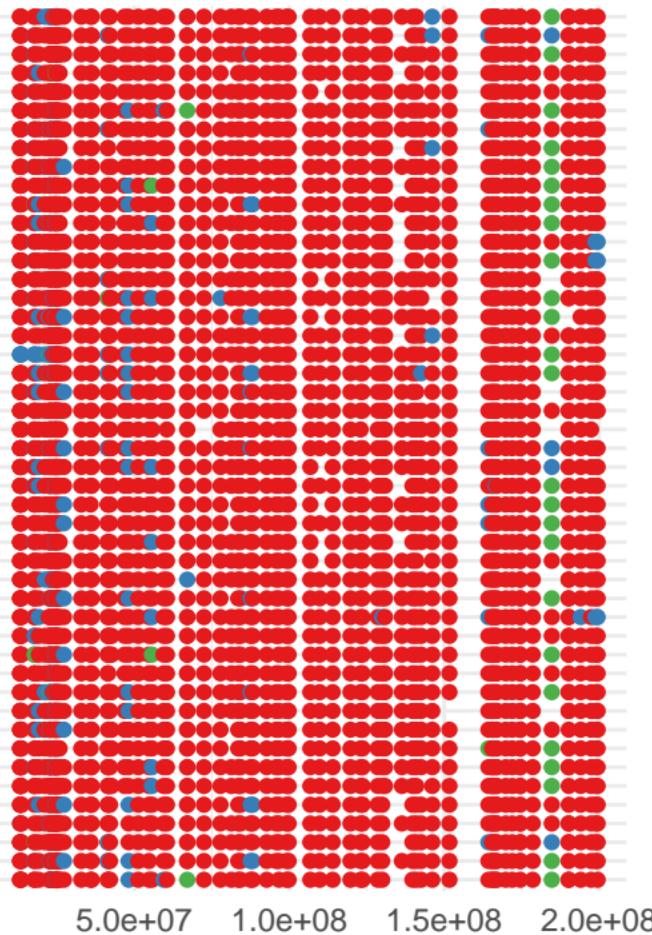
# BFL 12 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 12 HanXRQChr17

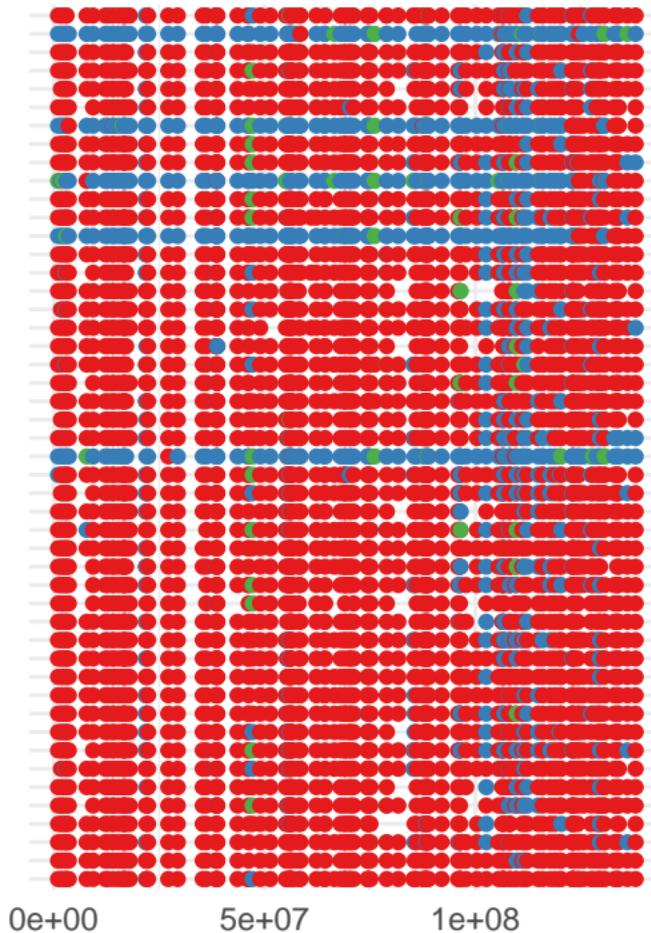


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

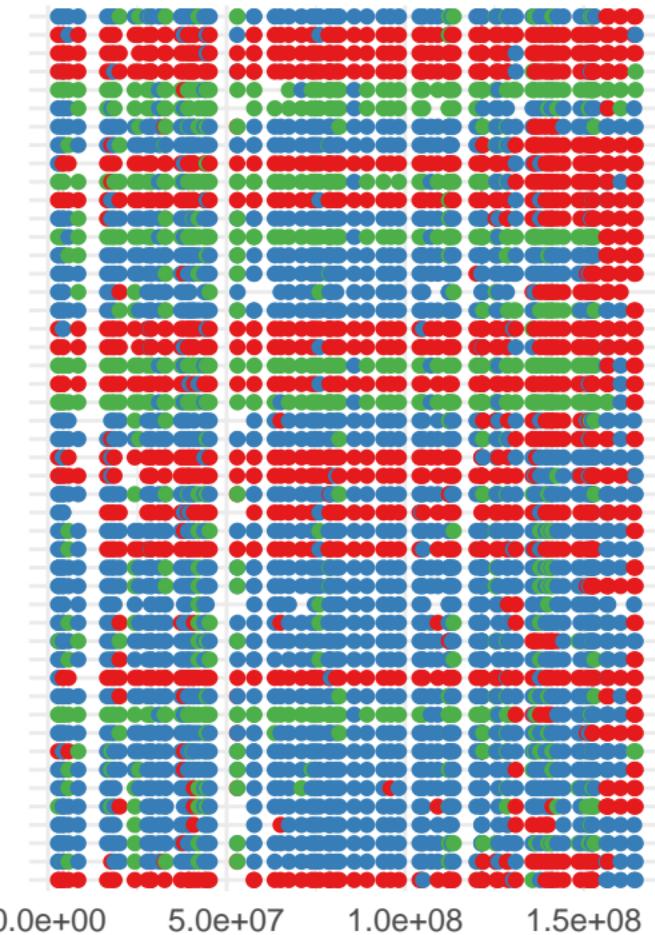
# BFL 13 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

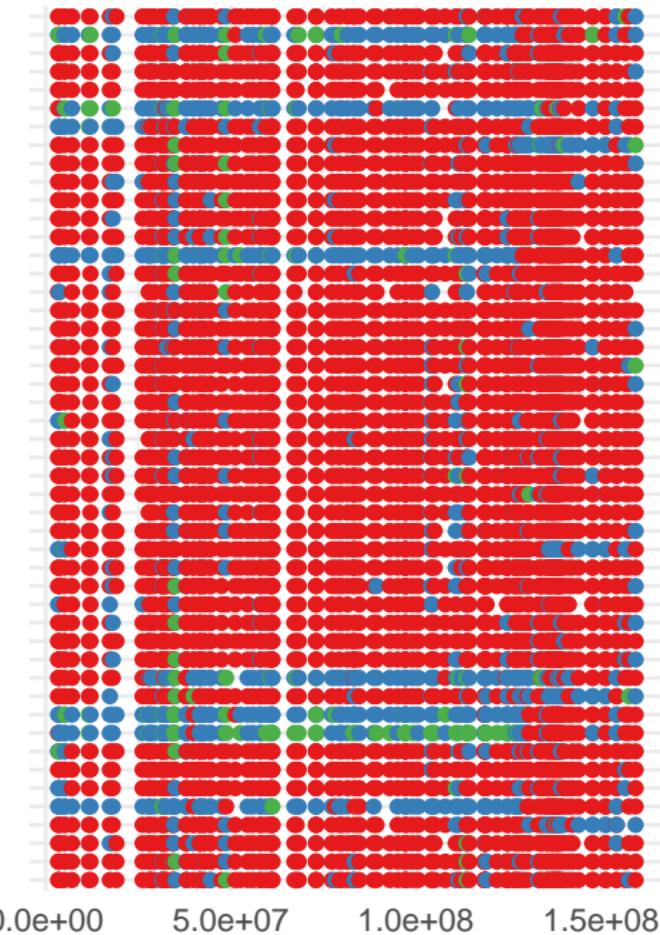
# BFL 13 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

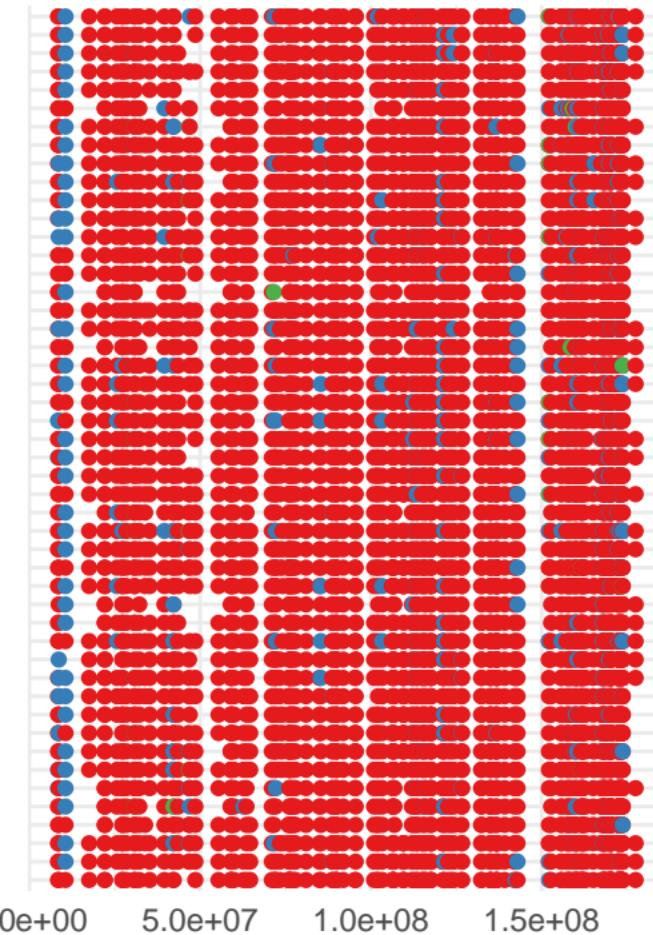
# BFL 13 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 13 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

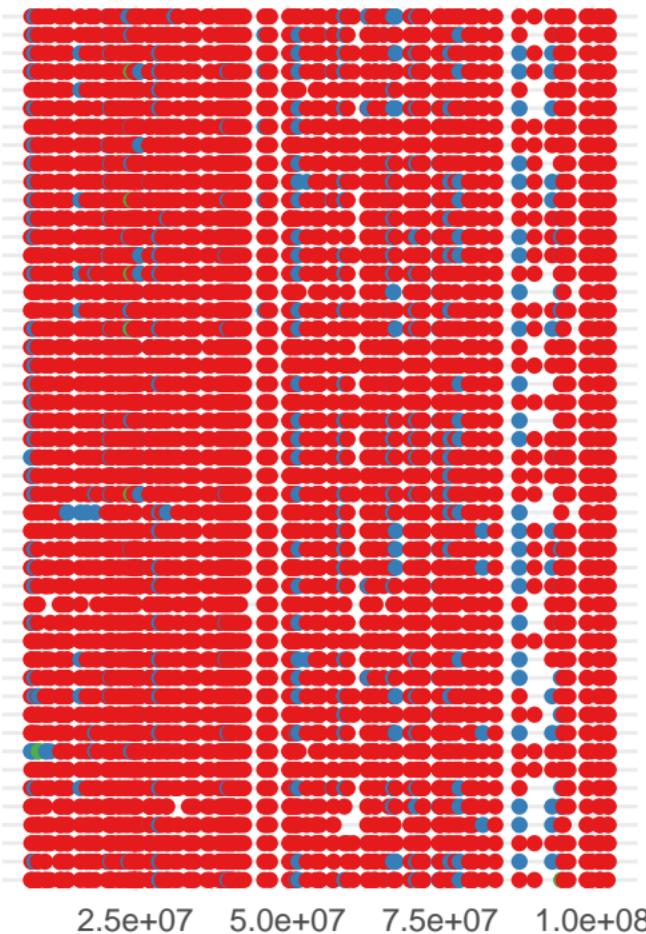
# BFL 13 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 13 HanXRQChr06

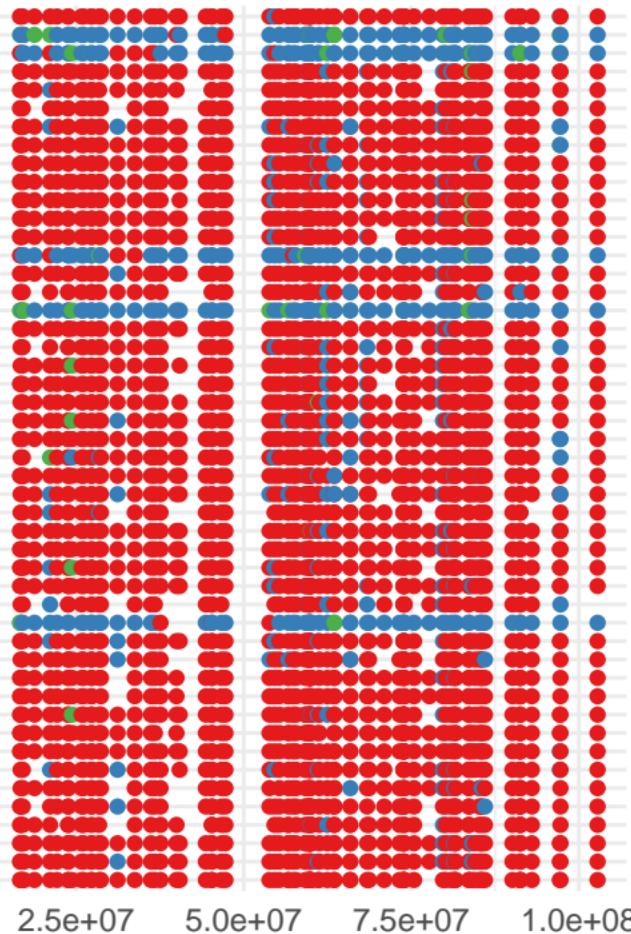


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# BFL 13 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

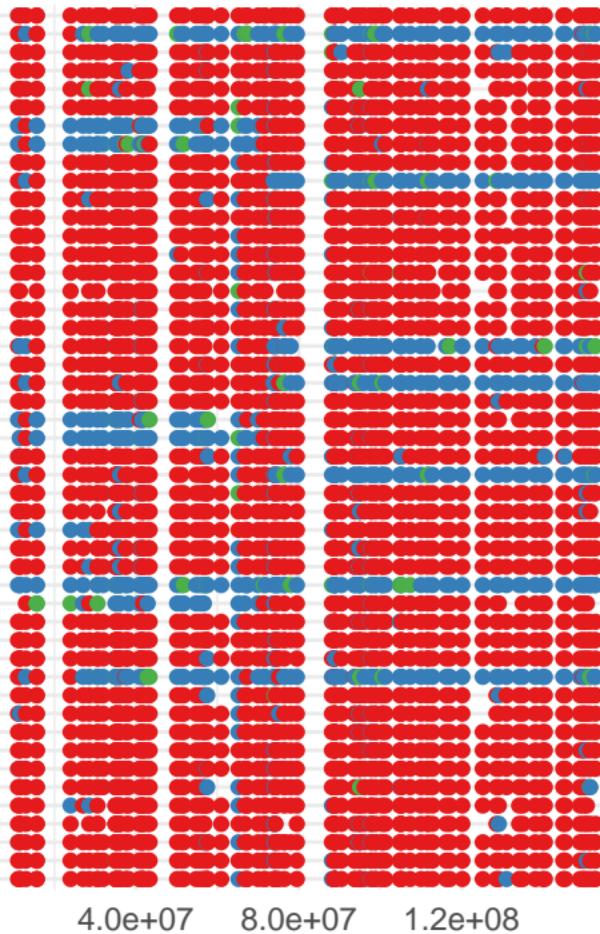
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# BFL 13 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

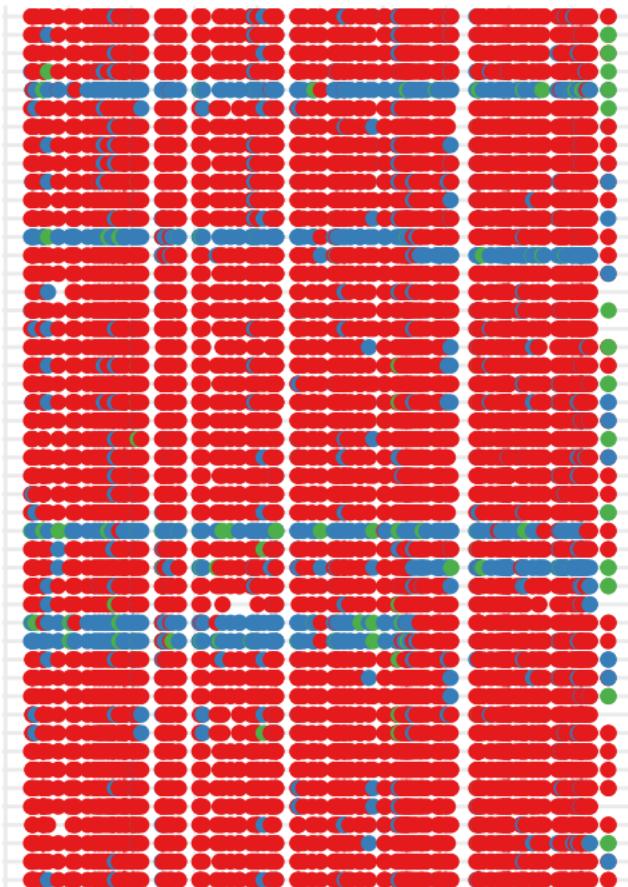
# BFL 13 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 13 HanXRQChr10

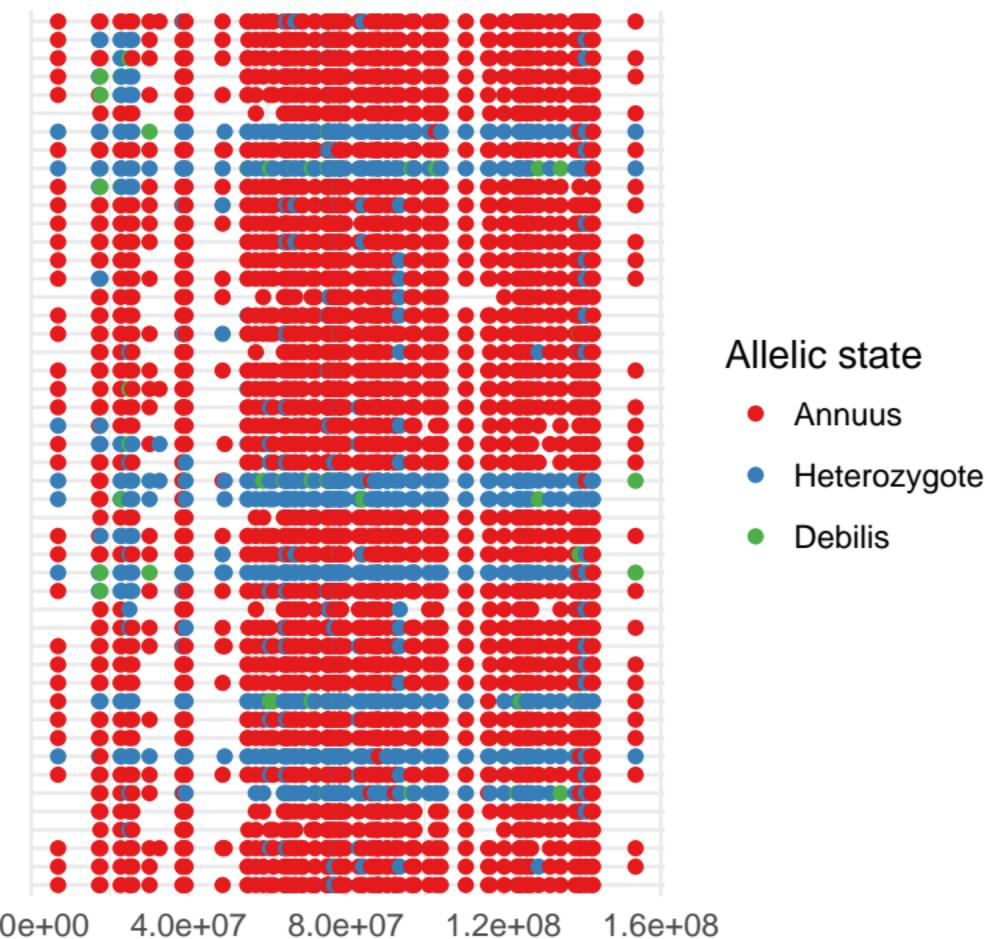


Allelic state

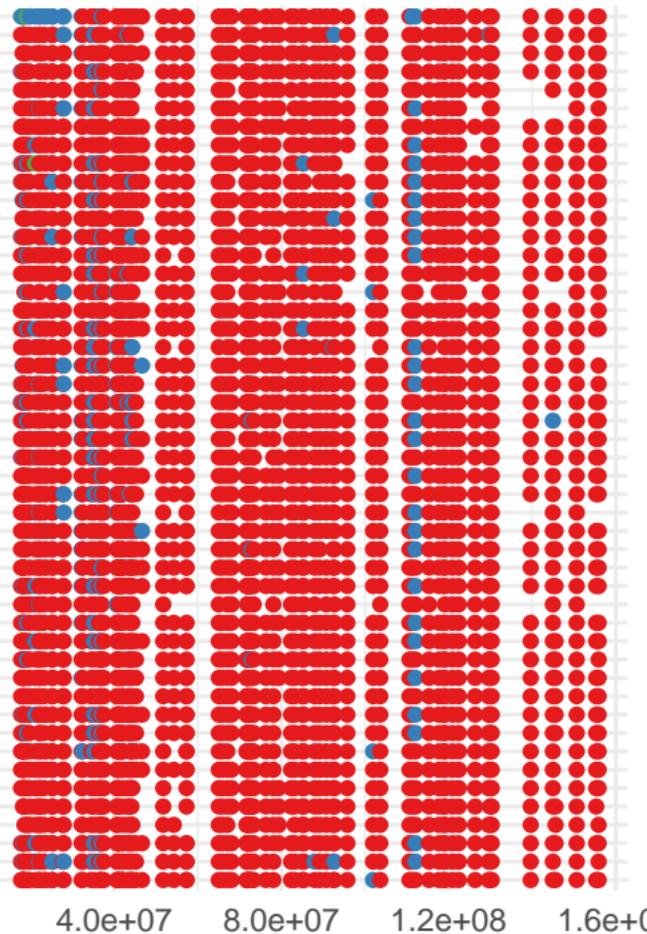
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 13 HanXRQChr11



# BFL 13 HanXRQChr12



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

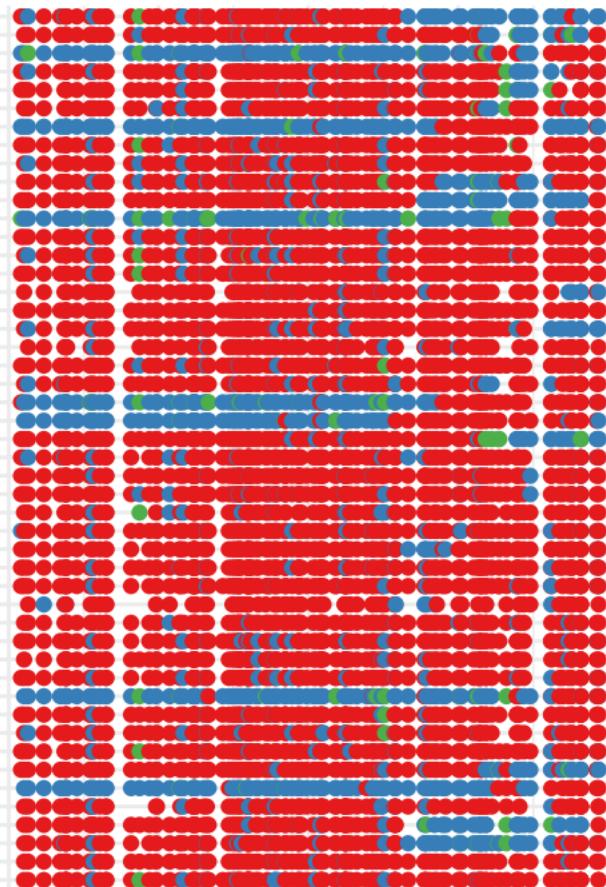
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# BFL 13 HanXRQChr13

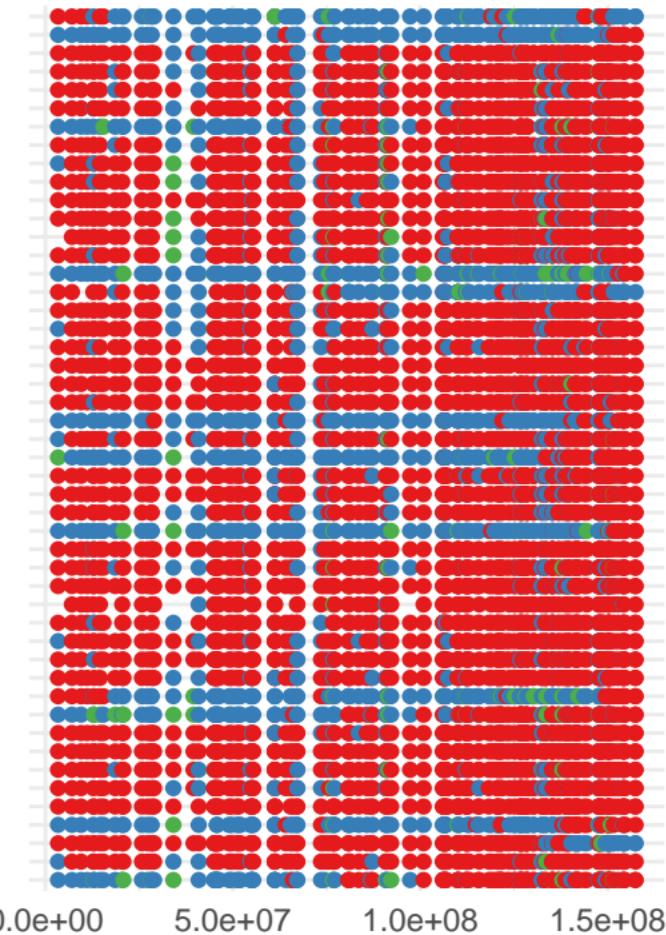


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

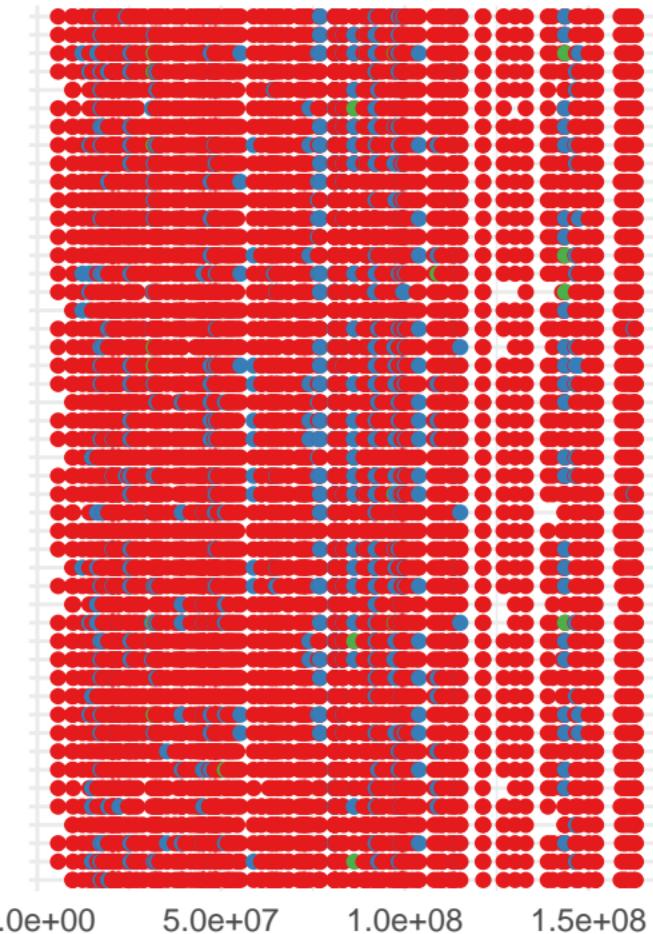
# BFL 13 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

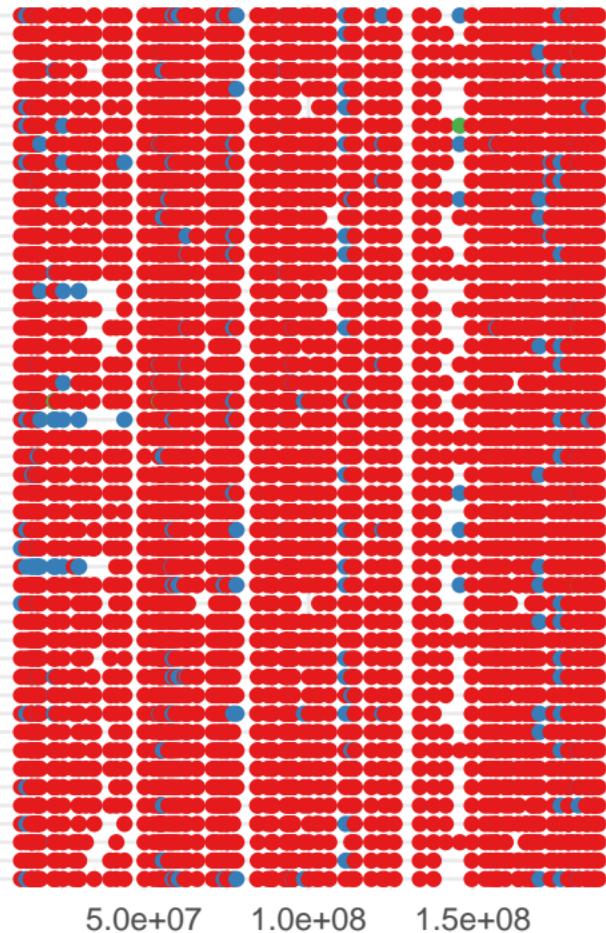
# BFL 13 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 13 HanXRQChr16

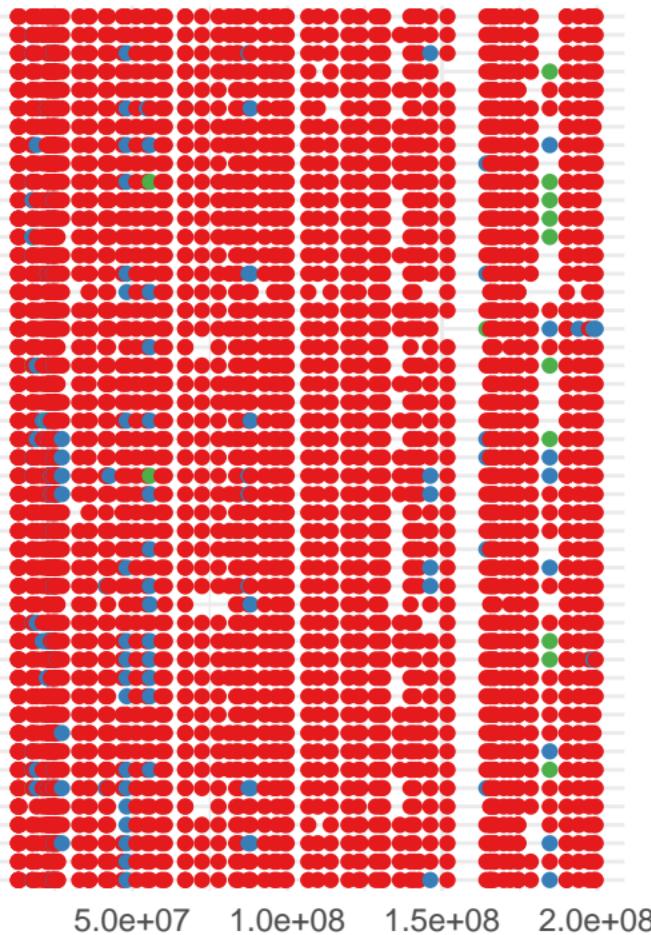


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

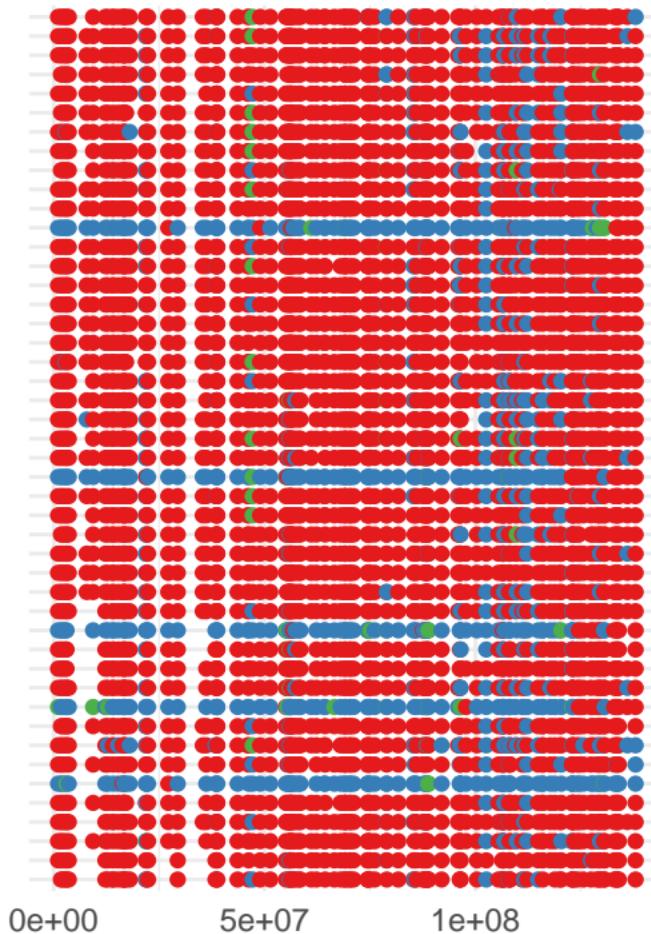
# BFL 13 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

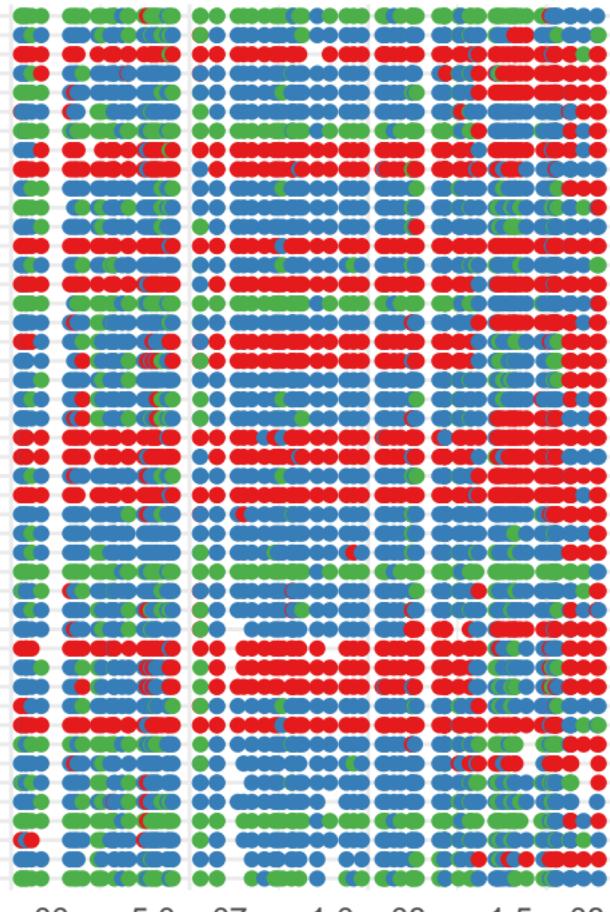
# BFL 14 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

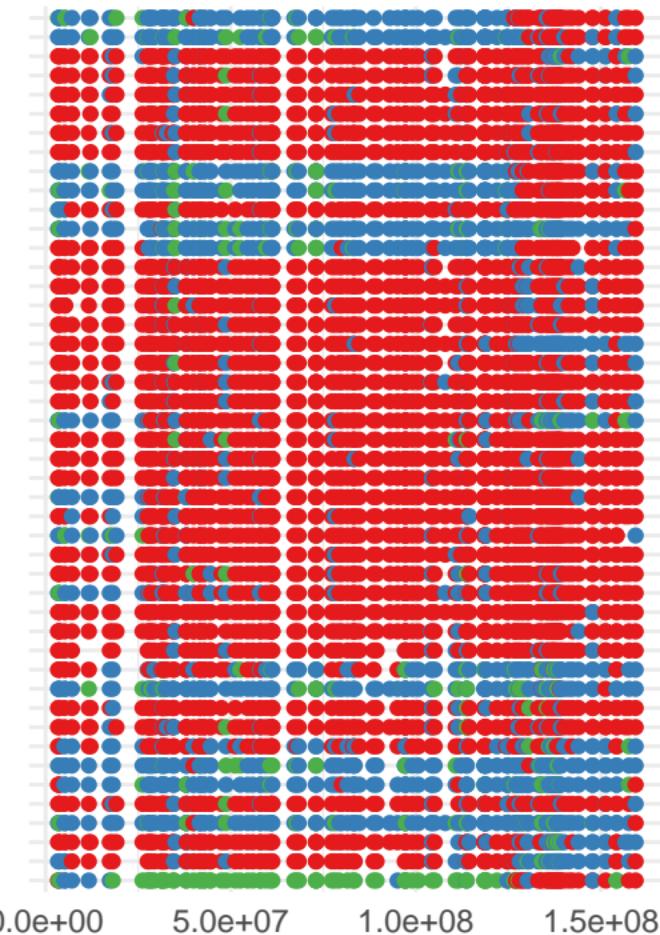
# BFL 14 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

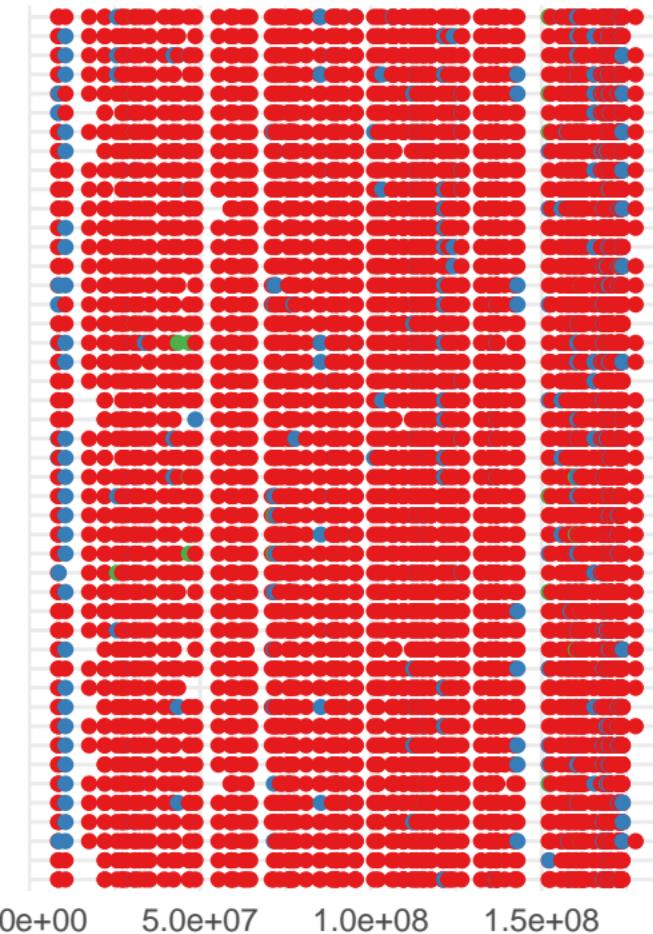
# BFL 14 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 14 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 14 HanXRQChr05

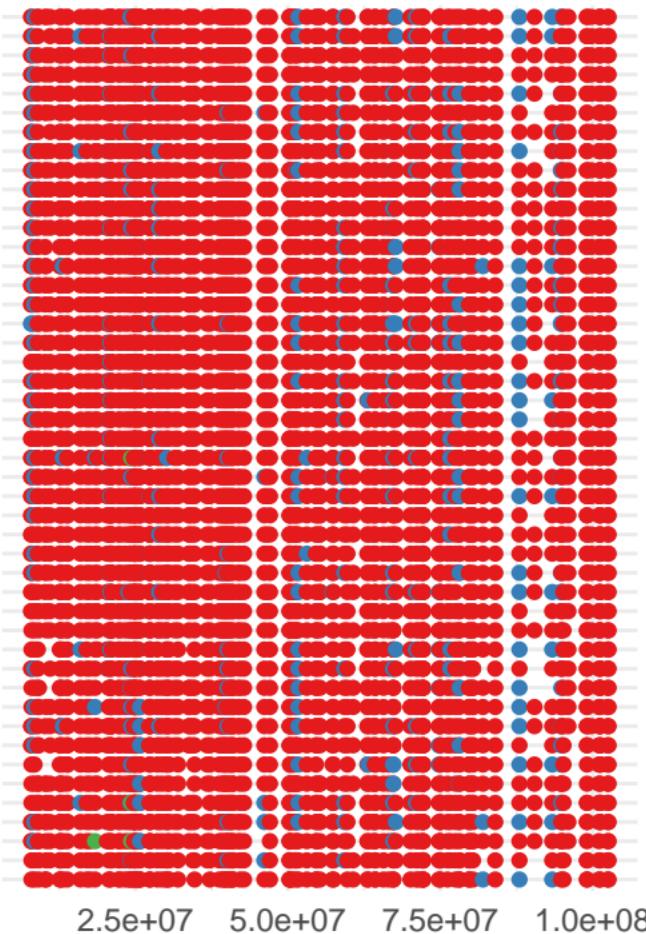


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

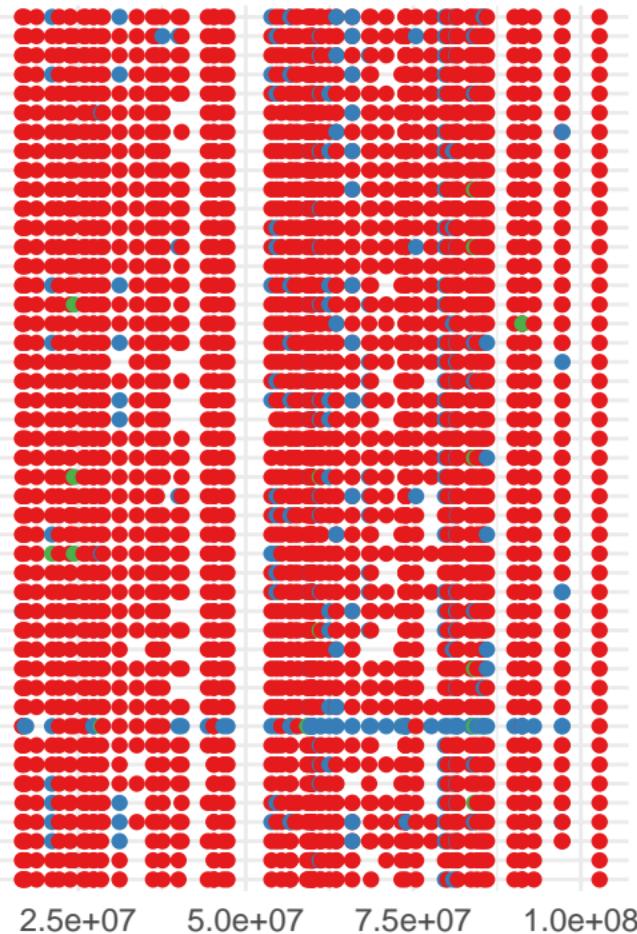
# BFL 14 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# BFL 14 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

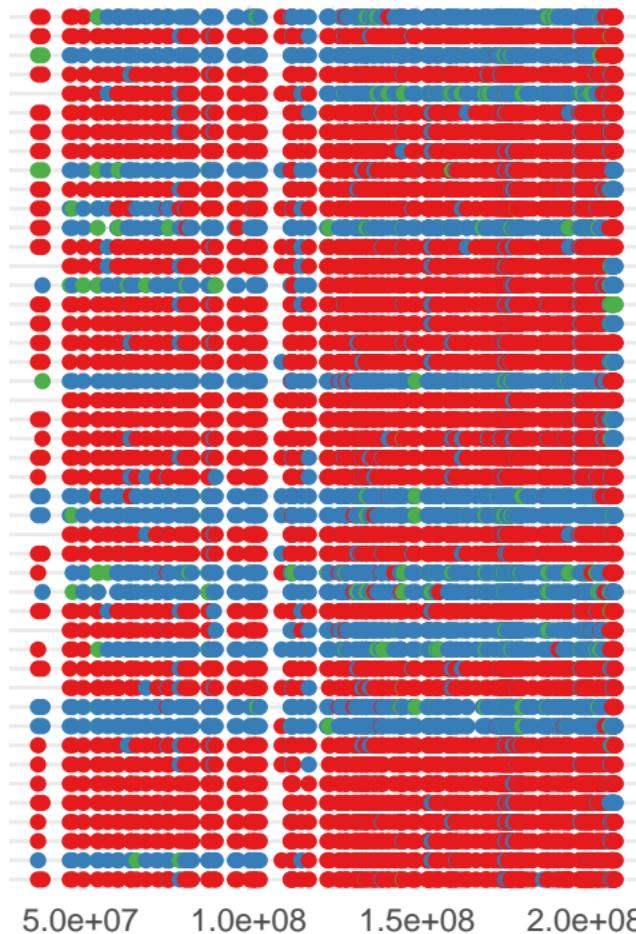
# BFL 14 HanXRQChr08



## Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 14 HanXRQChr09

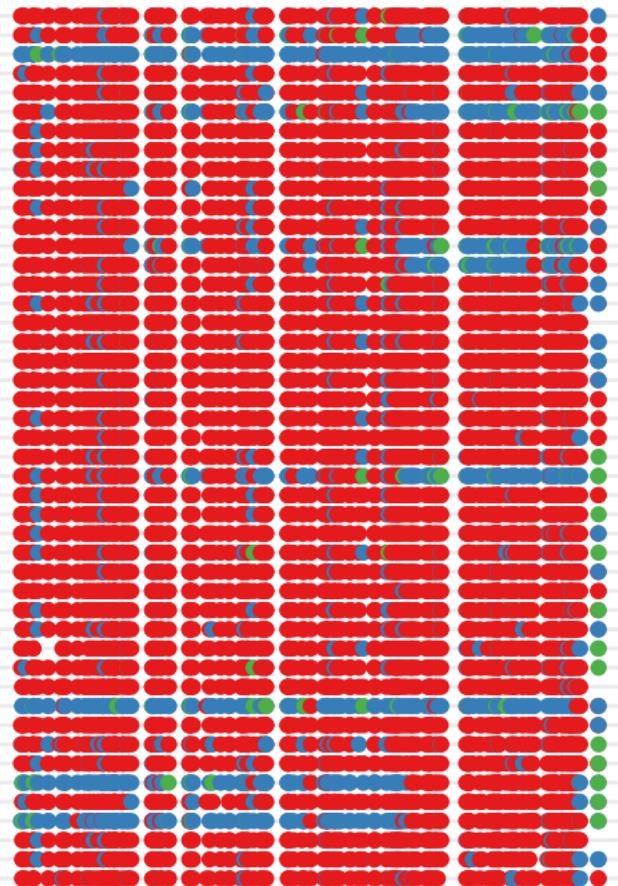


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# BFL 14 HanXRQChr10

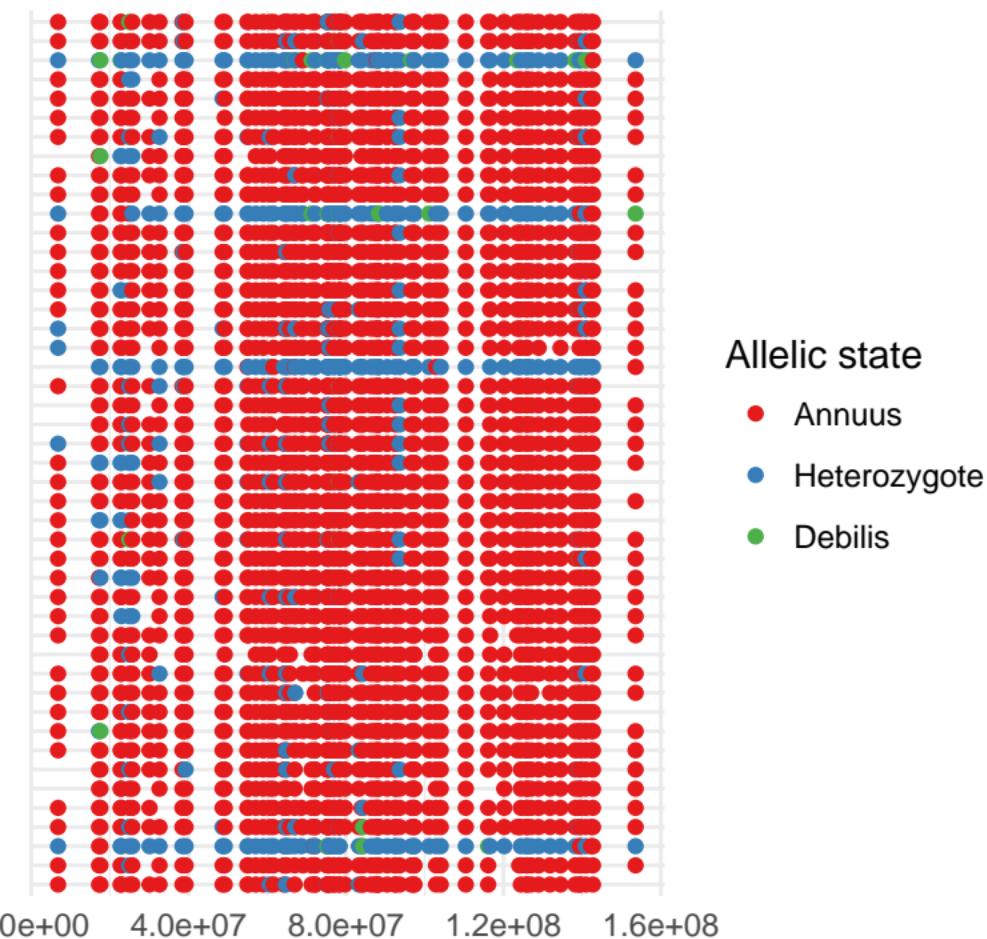


## Allelic state

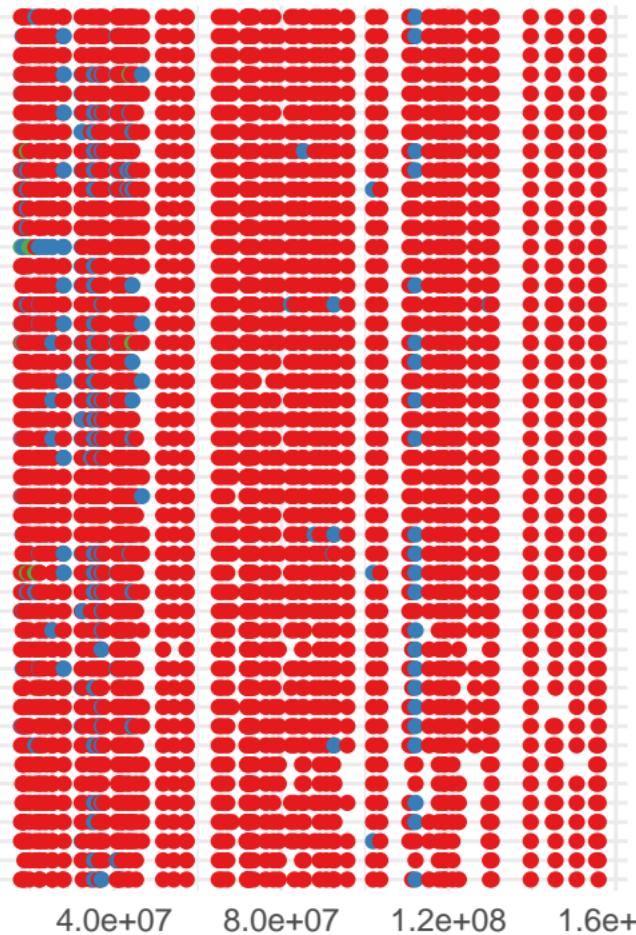
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# BFL 14 HanXRQChr11



# BFL 14 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

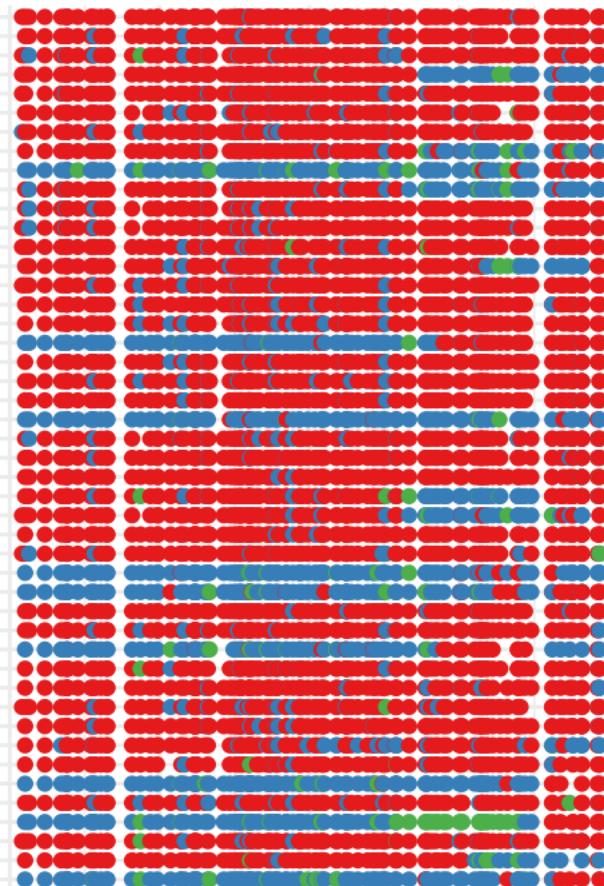
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# BFL 14 HanXRQChr13



Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

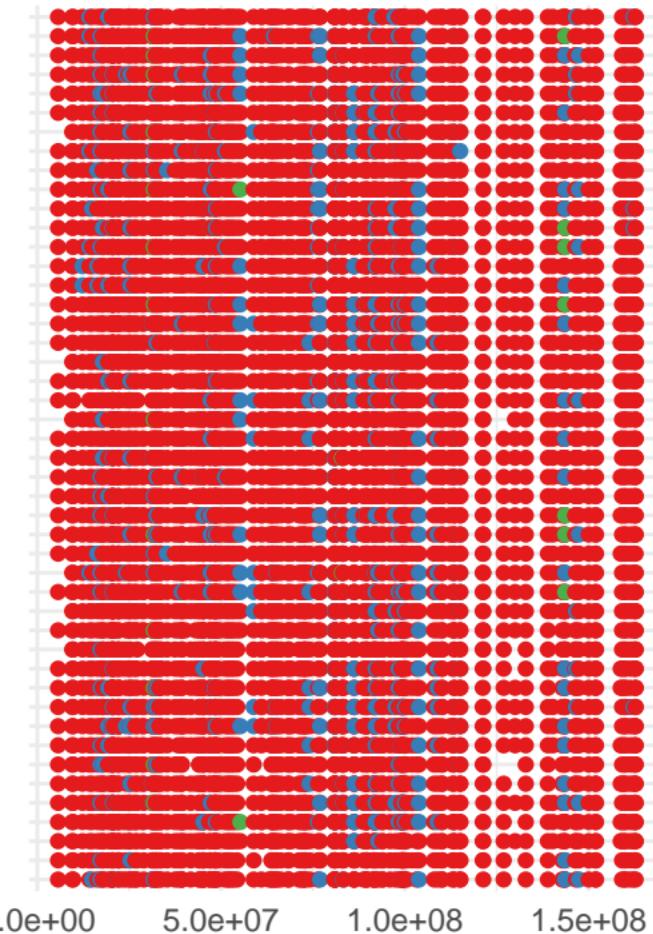
# BFL 14 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

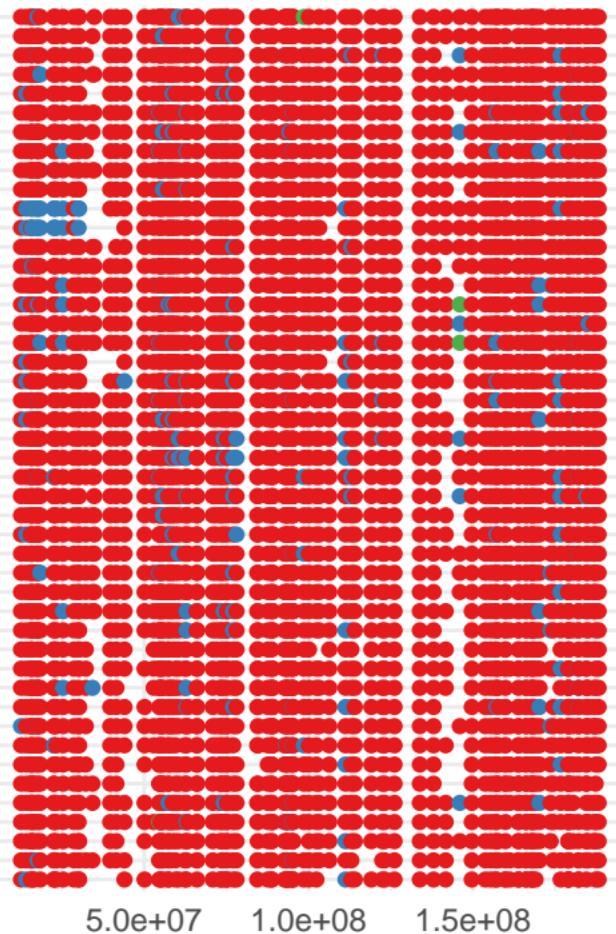
# BFL 14 HanXRQChr15



Allelic state

- Annus
- Heterozygote
- Debilis

# BFL 14 HanXRQChr16

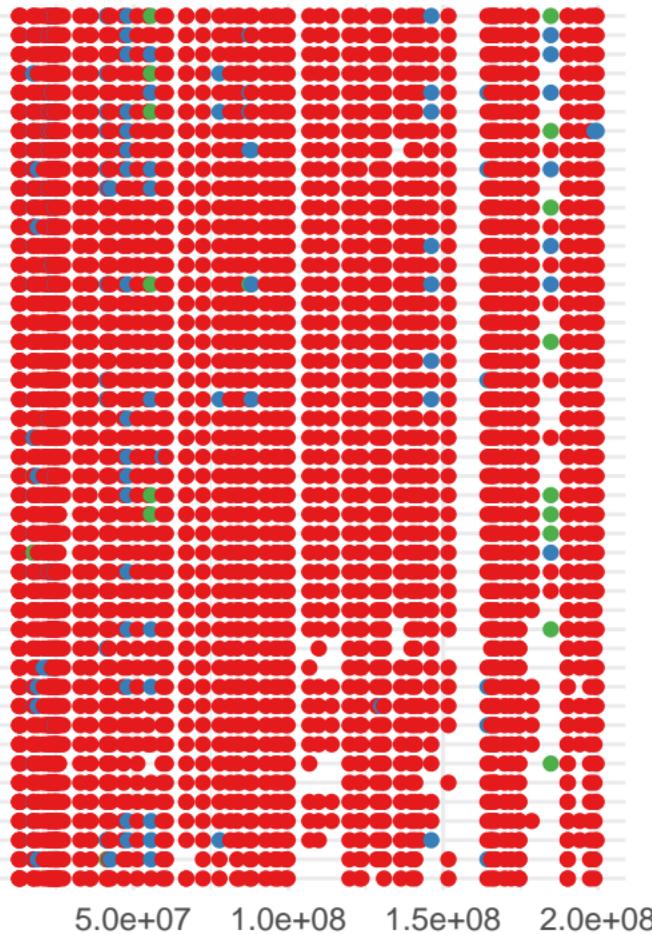


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# BFL 14 HanXRQChr17

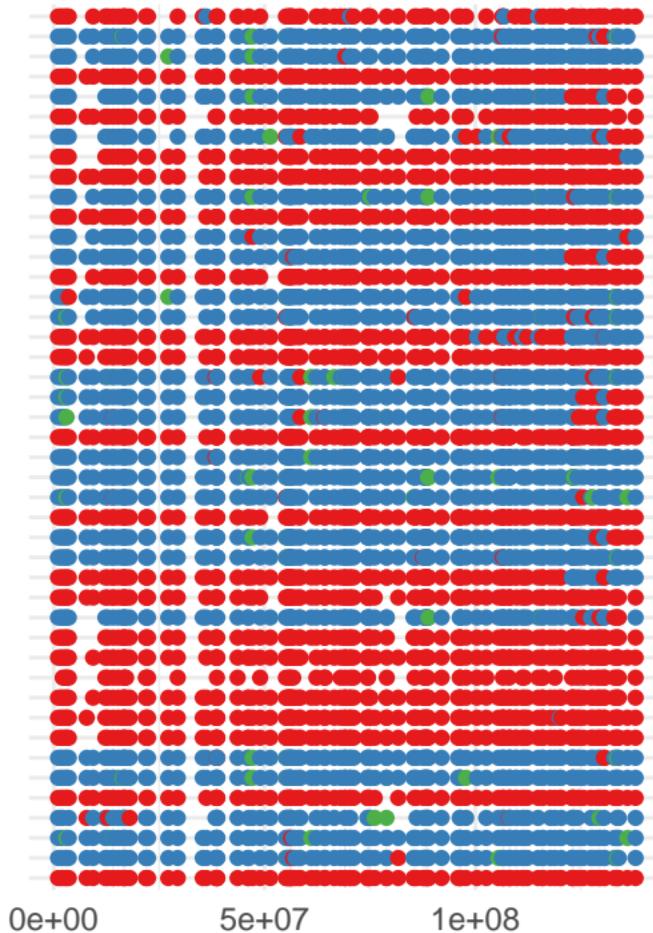


Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07   1.0e+08   1.5e+08   2.0e+08

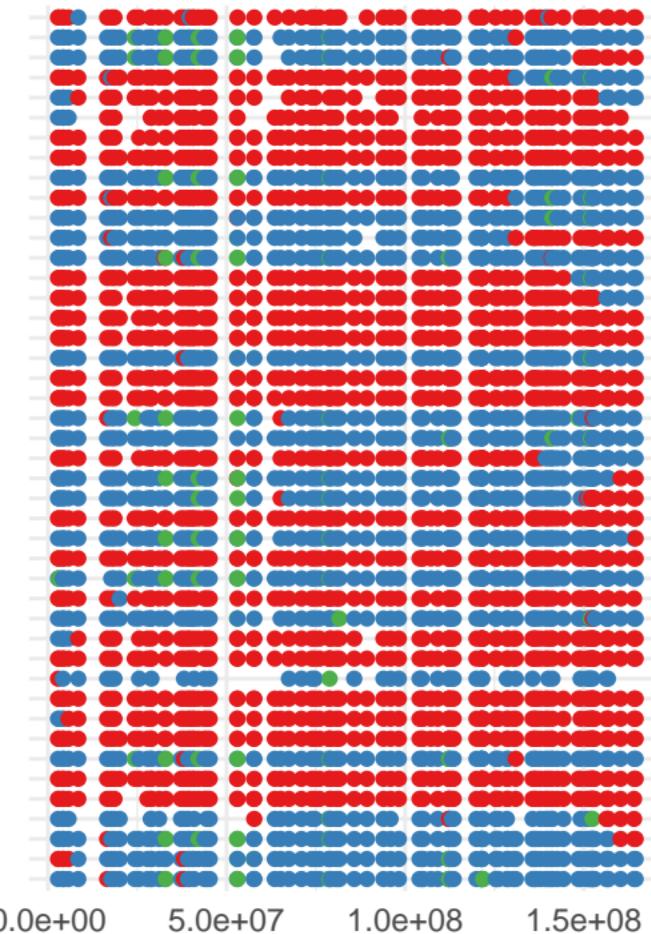
# HCC 1 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

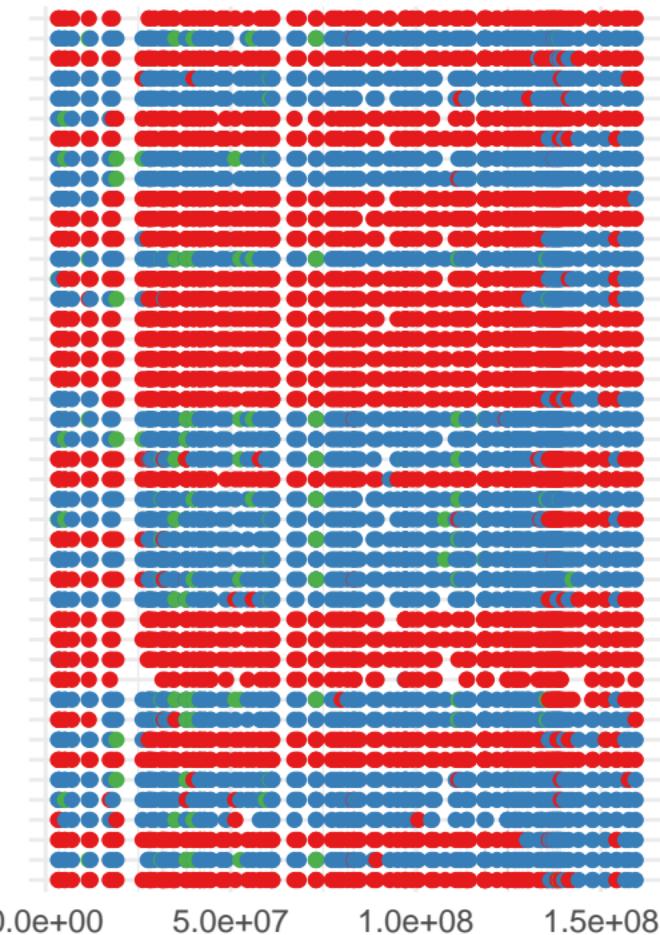
# HCC 1 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 1 HanXRQChr03



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

# HCC 1 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 1 HanXRQChr05

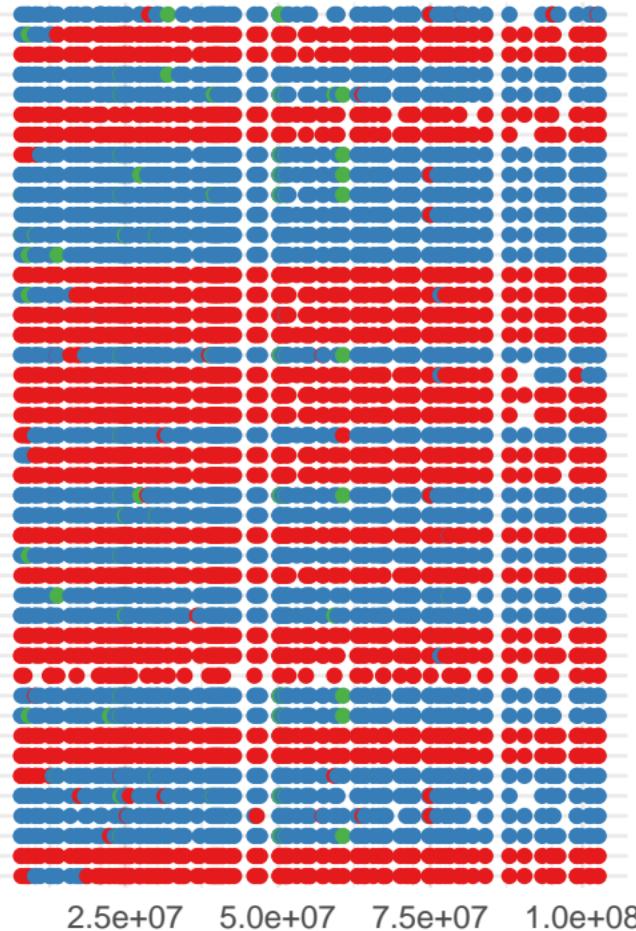


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 1 HanXRQChr06

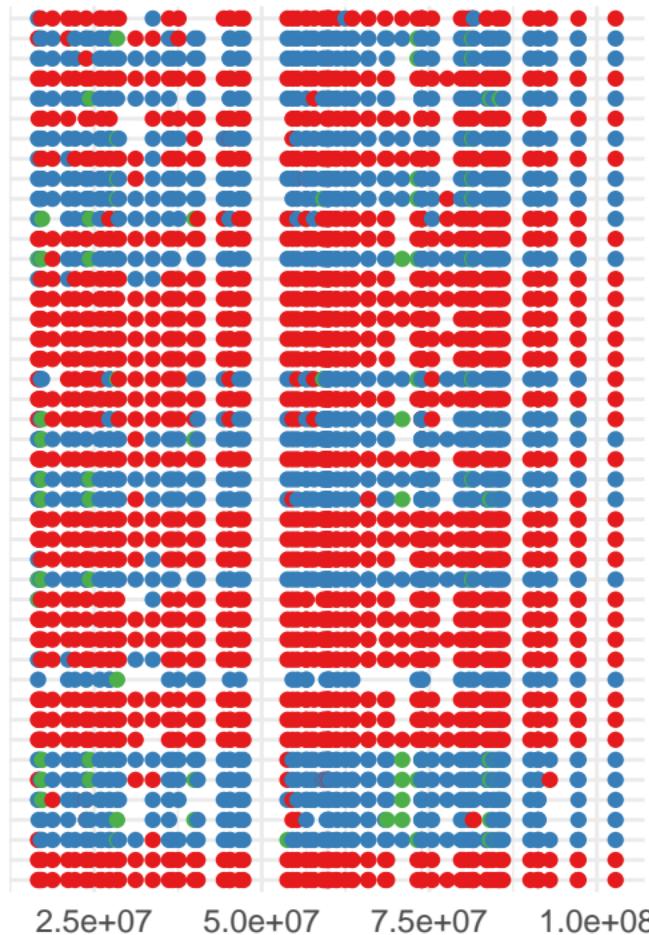


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# HCC 1 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# HCC 1 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# HCC 1 HanXRQChr09



Allelic state

- Annus (Red)
- Heterozygote (Blue)
- Debilis (Green)

# HCC 1 HanXRQChr10

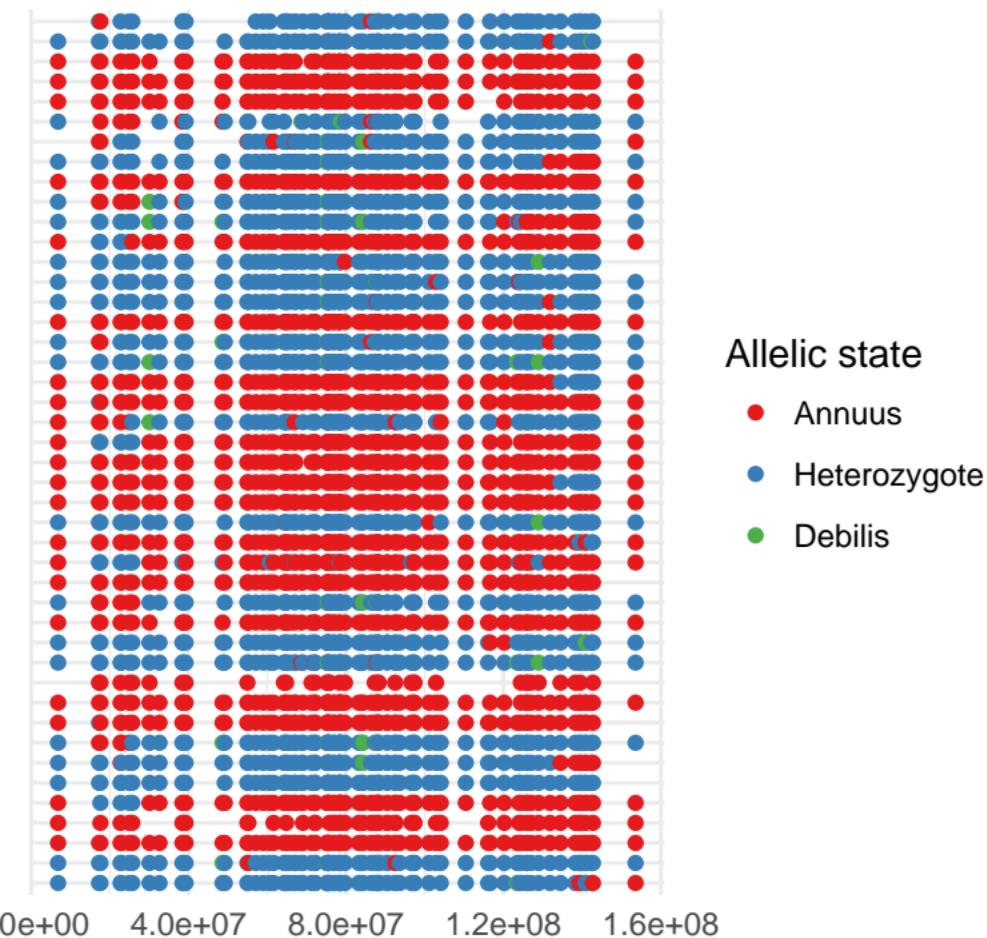


## Allelic state

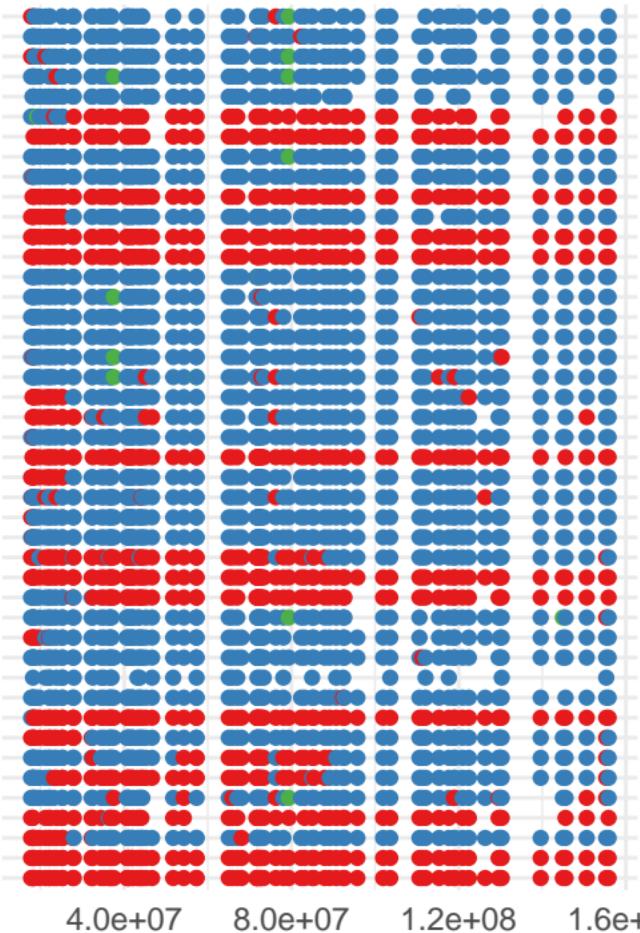
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 1 HanXRQChr11



# HCC 1 HanXRQChr12



Allelic state

- Annuus
- Heterozygote
- Debilis

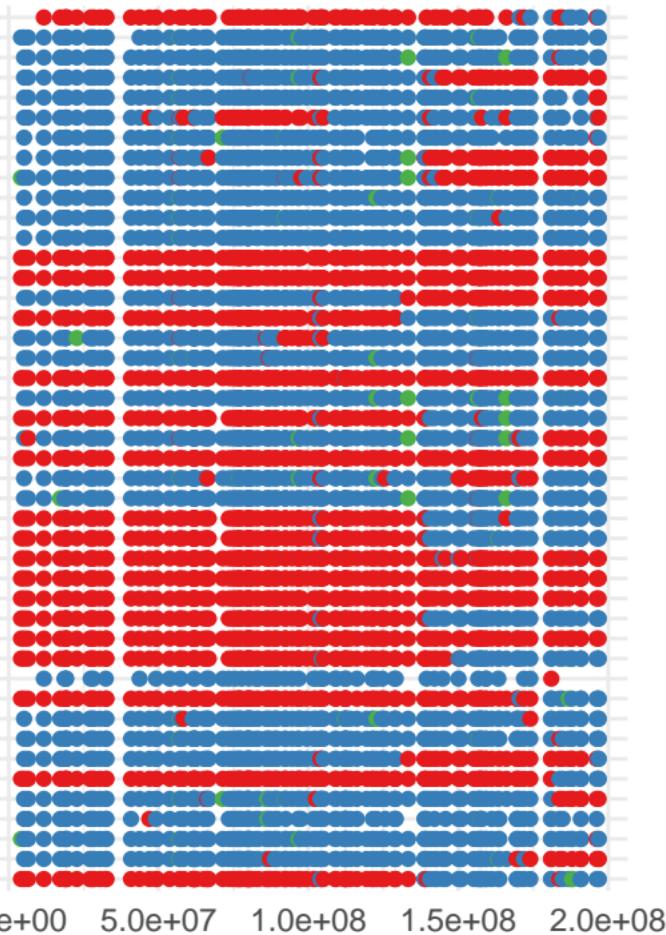
4.0e+07

8.0e+07

1.2e+08

1.6e+08

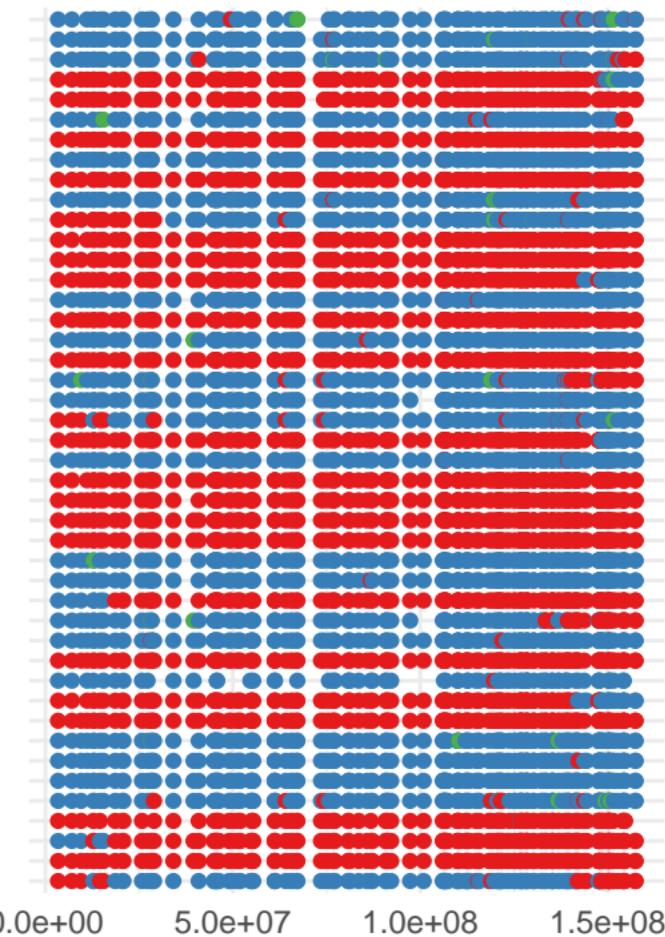
# HCC 1 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 1 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 1 HanXRQChr15



Allelic state

- Annus
- Heterozygote
- Debilis

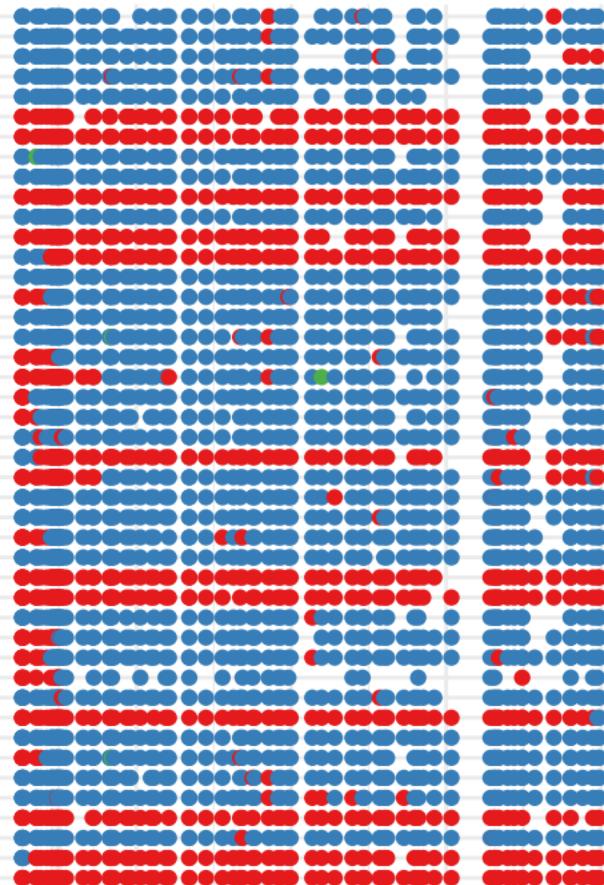
# HCC 1 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 1 HanXRQChr17

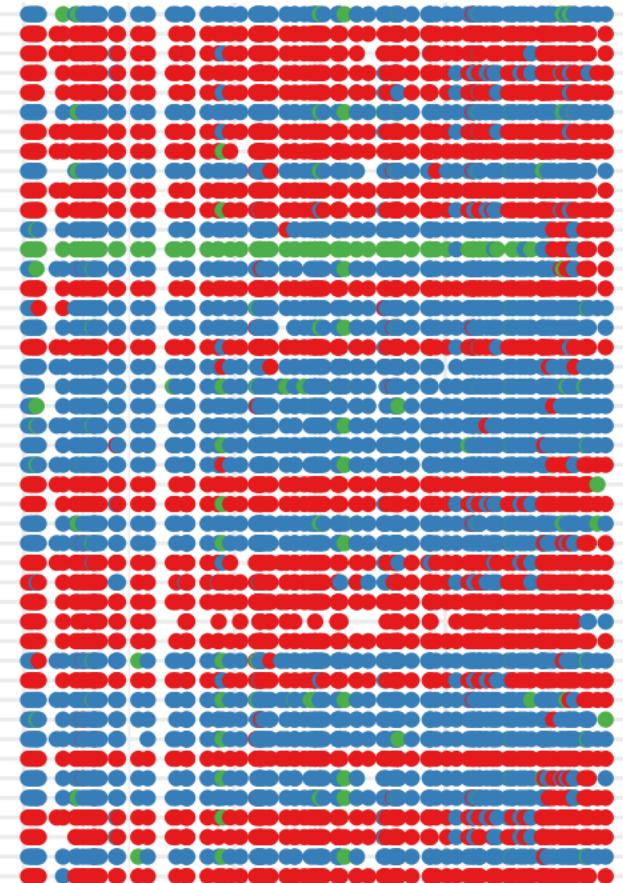


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

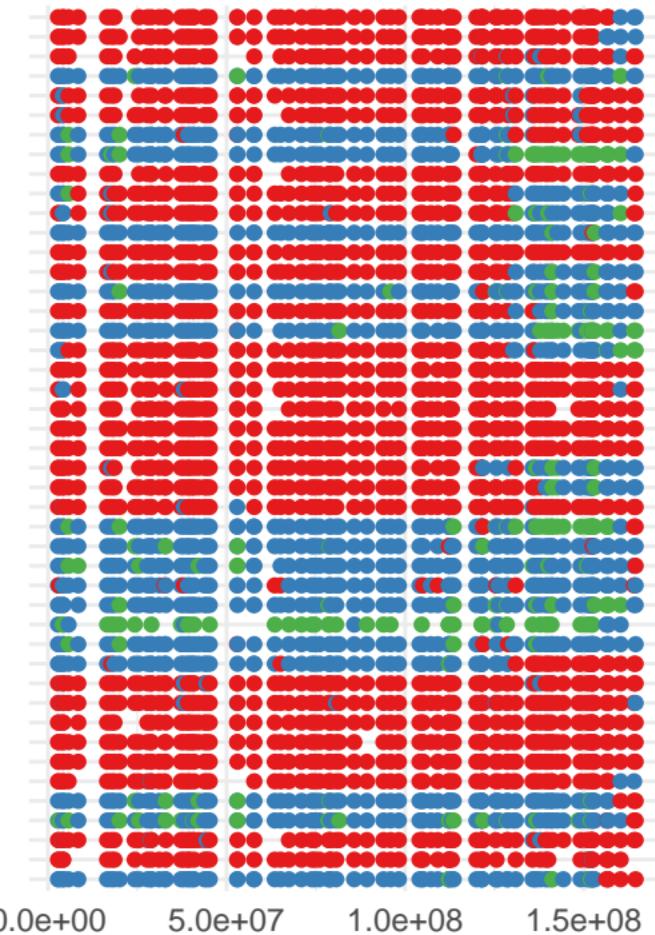
# HCC 2 HanXRQChr01



## Allelic state

- Annus
- Heterozygote
- Debilis

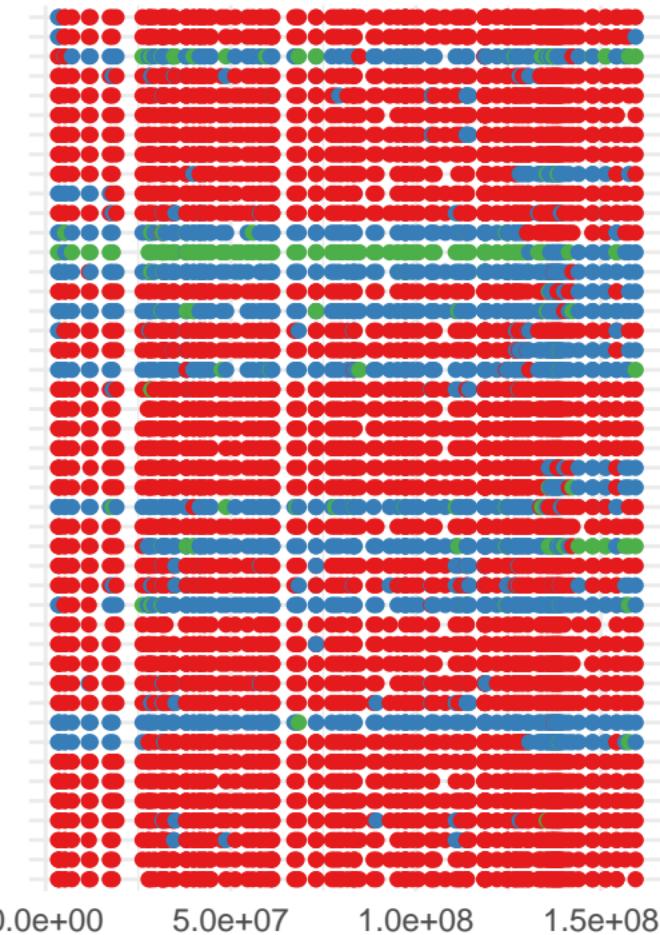
# HCC 2 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

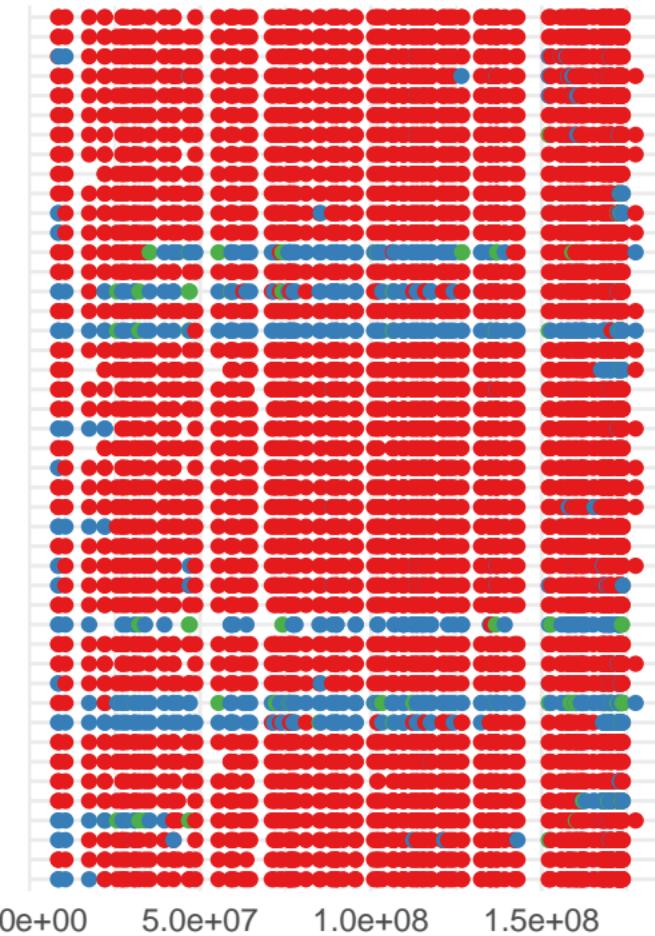
# HCC 2 HanXRQChr03



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

# HCC 2 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 2 HanXRQChr05



## Allelic state

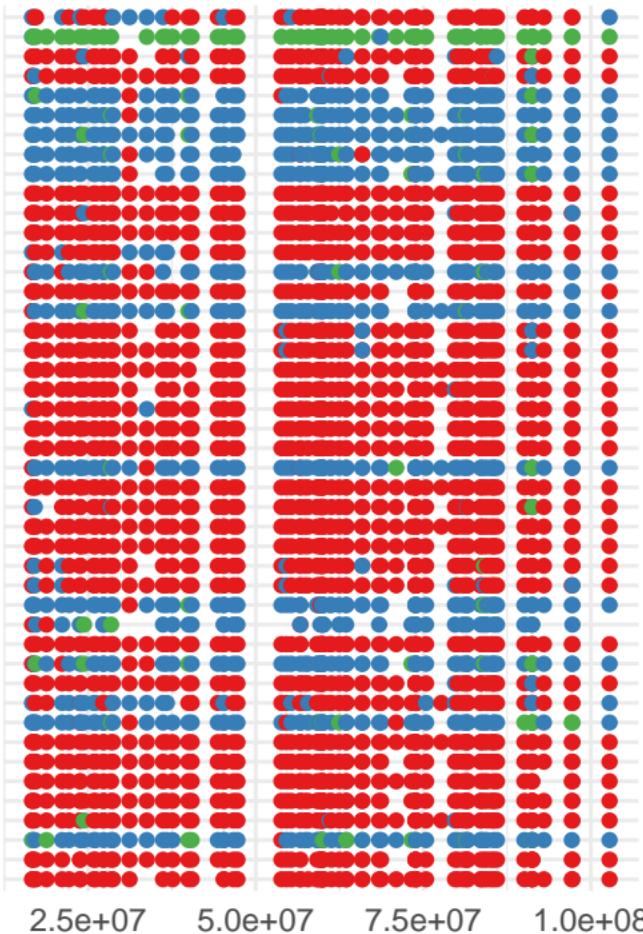
- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 2 HanXRQChr06



# HCC 2 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07

5.0e+07

7.5e+07

1.0e+08

# HCC 2 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# HCC 2 HanXRQChr09



## Allelic state

- Annus
- Heterozygote
- Debilis

# HCC 2 HanXRQChr10

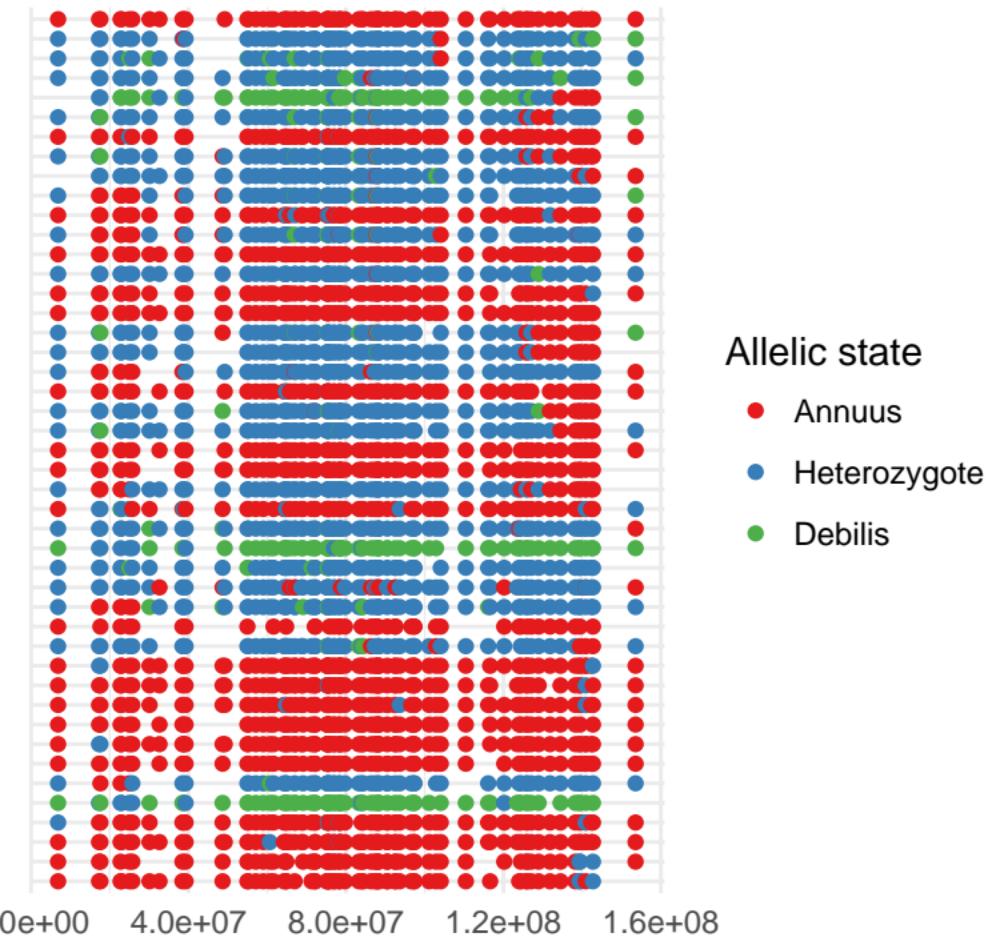


## Allelic state

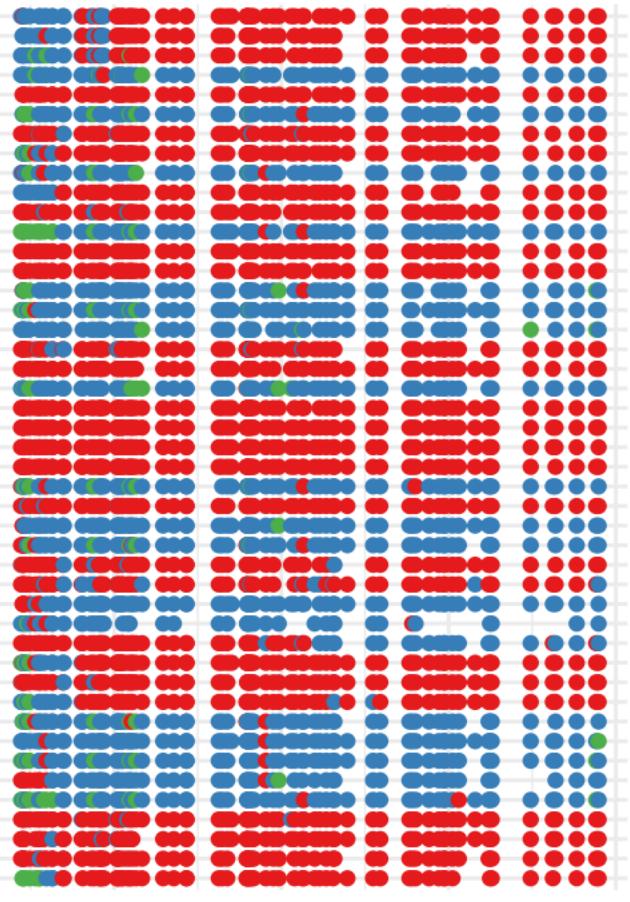
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 2 HanXRQChr11



# HCC 2 HanXRQChr12



Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07

8.0e+07

1.2e+08

1.6e+08

# HCC 2 HanXRQChr13



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

# HCC 2 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

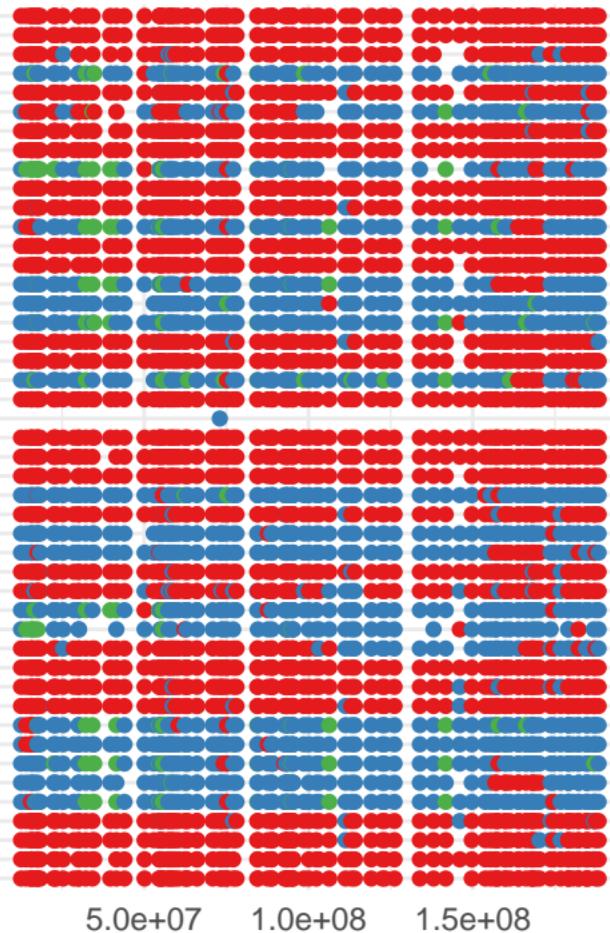
# HCC 2 HanXRQChr15



## Allelic state

- Annus
- Heterozygote
- Debilis

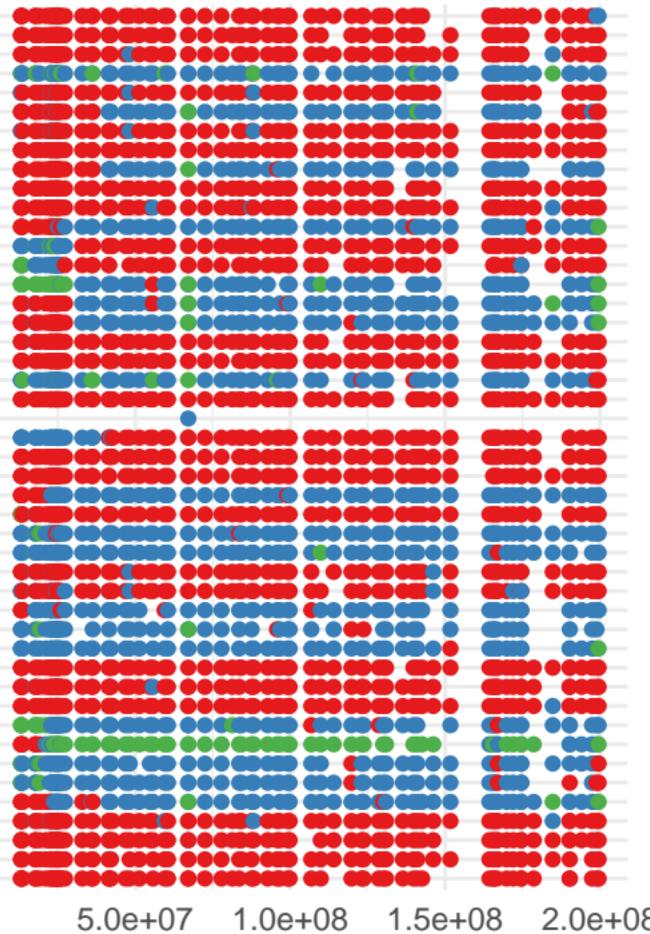
# HCC 2 HanXRQChr16



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

# HCC 2 HanXRQChr17

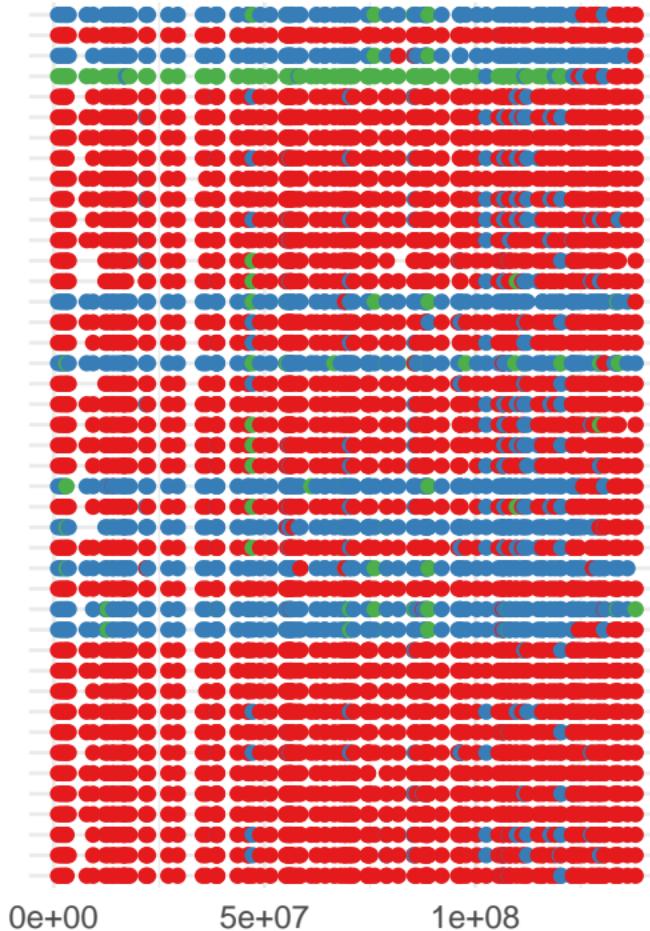


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07   1.0e+08   1.5e+08   2.0e+08

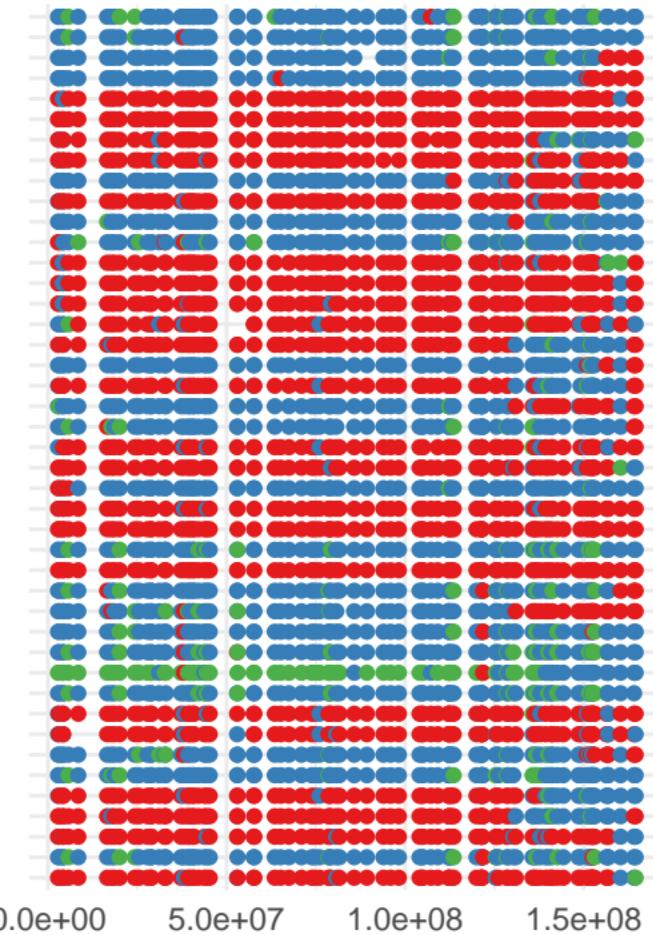
# HCC 3 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

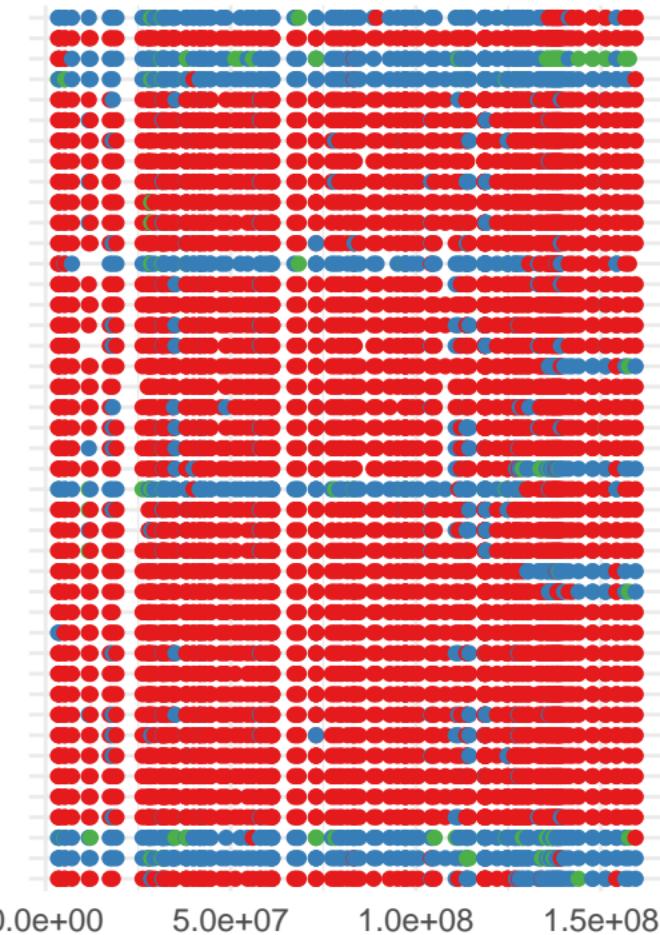
# HCC 3 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

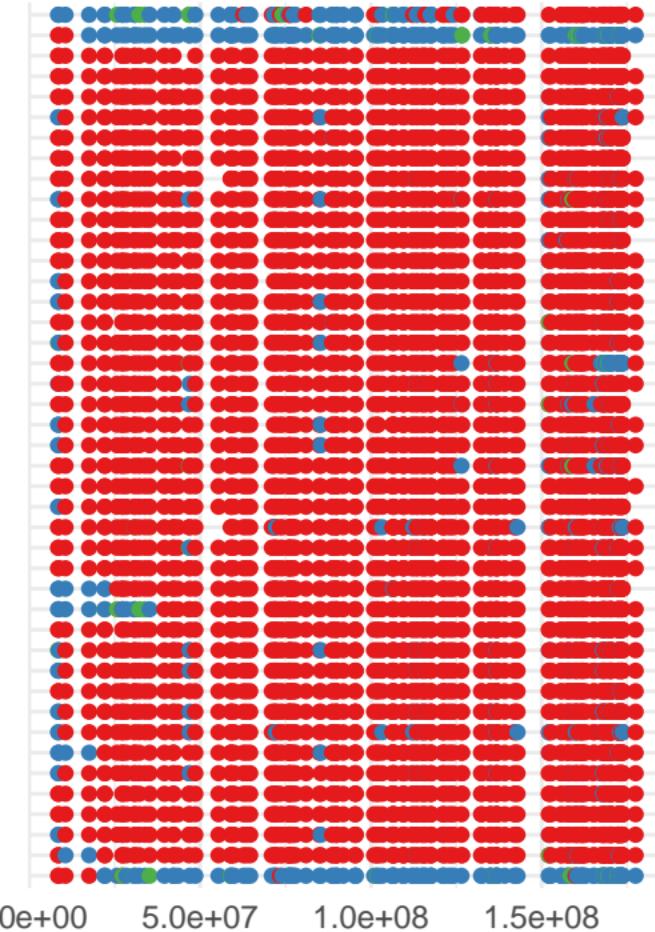
# HCC 3 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 3 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 3 HanXRQChr05

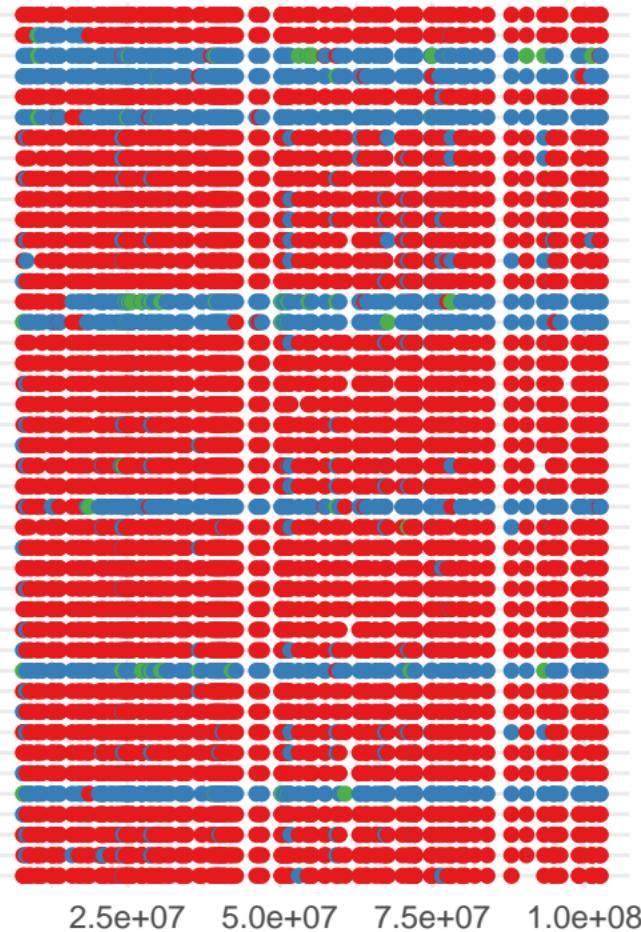


## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

5.0e+07 1.0e+08 1.5e+08 2.0e+08

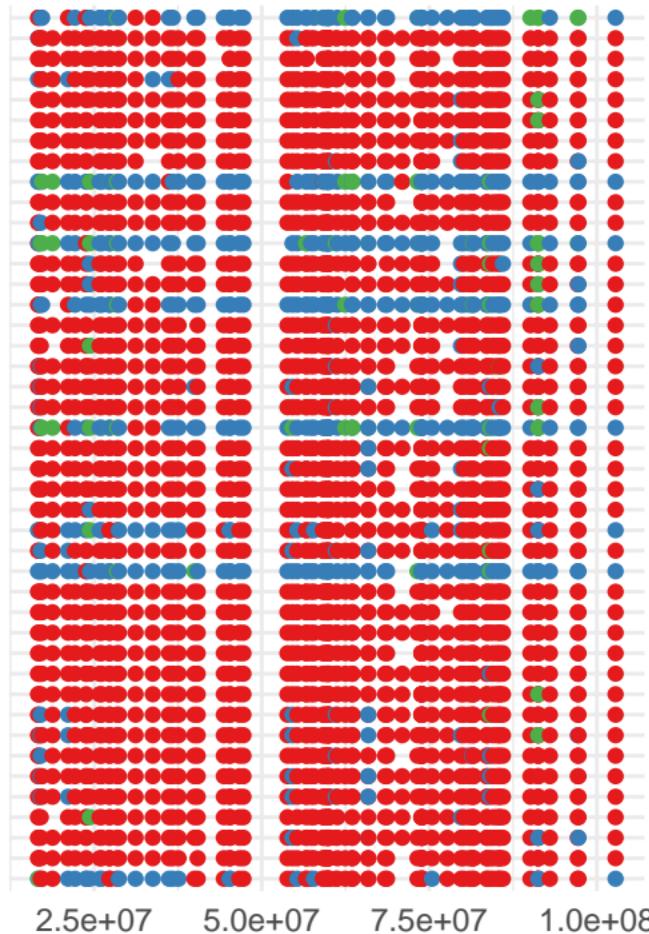
# HCC 3 HanXRQChr06



## Allelic state

- Annus
- Heterozygote
- Debilis

# HCC 3 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 3 HanXRQChr08



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

4.0e+07    8.0e+07    1.2e+08

# HCC 3 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 3 HanXRQChr10

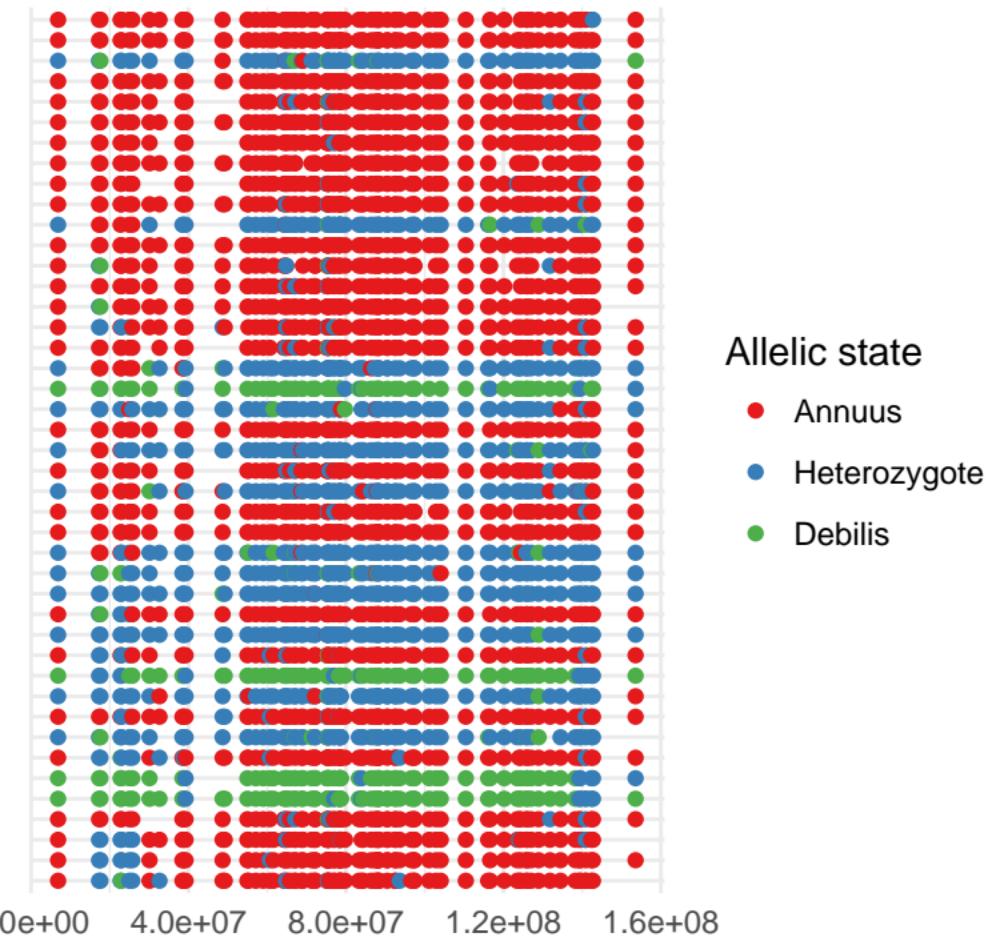


## Allelic state

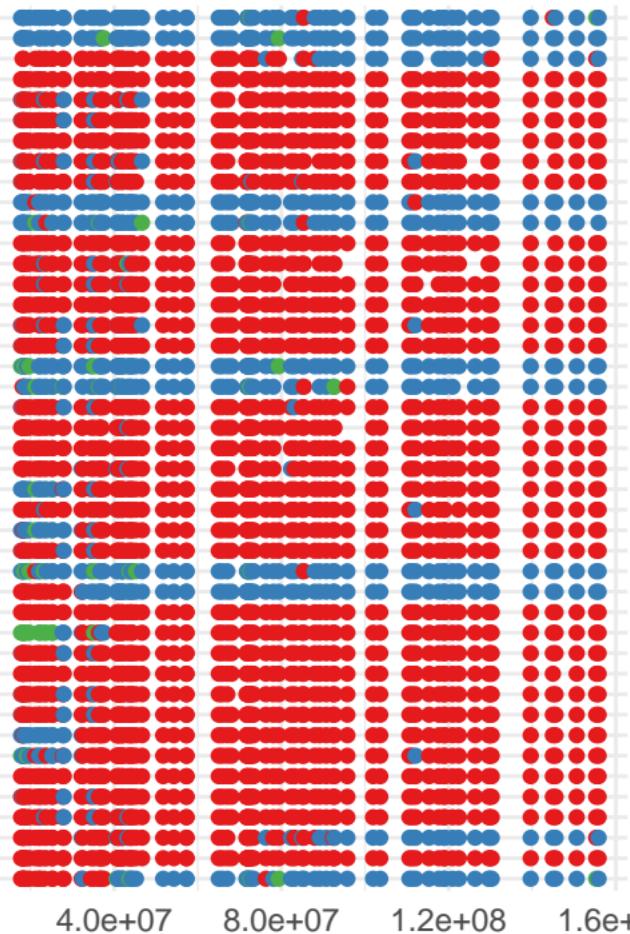
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 3 HanXRQChr11



# HCC 3 HanXRQChr12

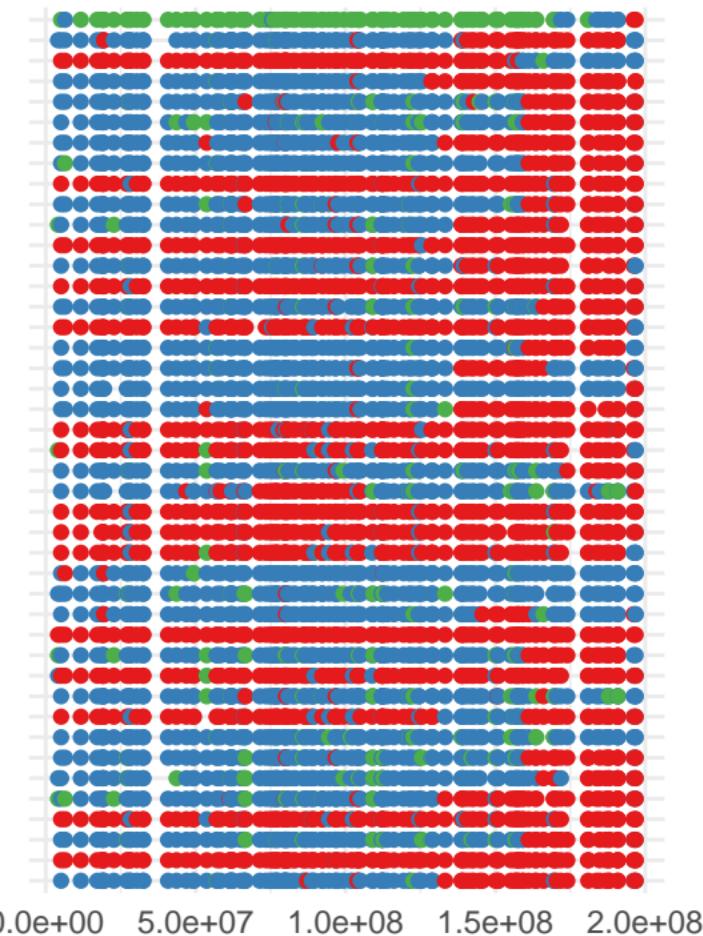


Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# HCC 3 HanXRQChr13



## Allelic state

- Annus
- Heterozygote
- Debilis

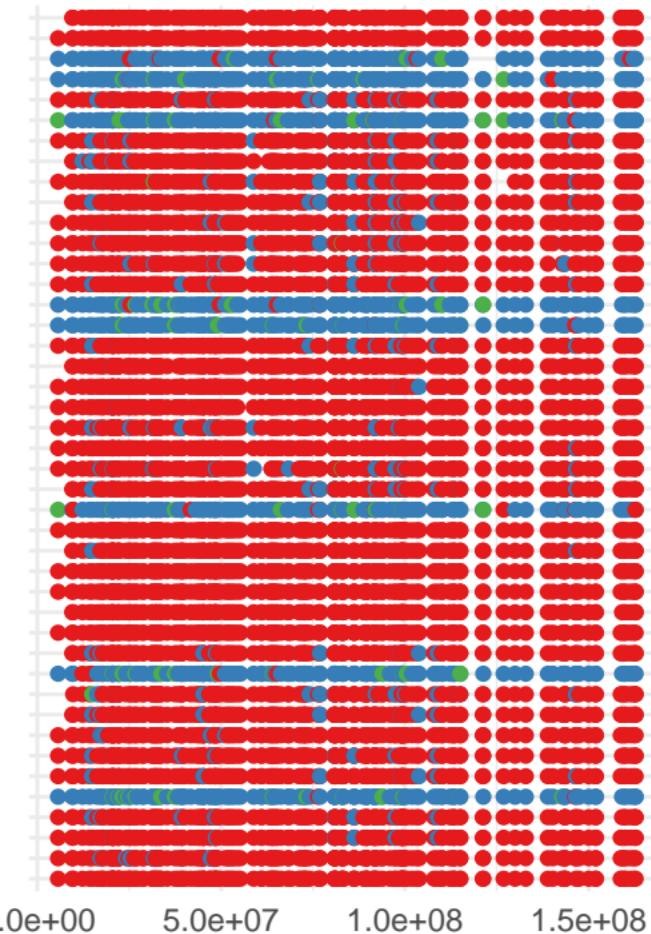
# HCC 3 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 3 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 3 HanXRQChr16

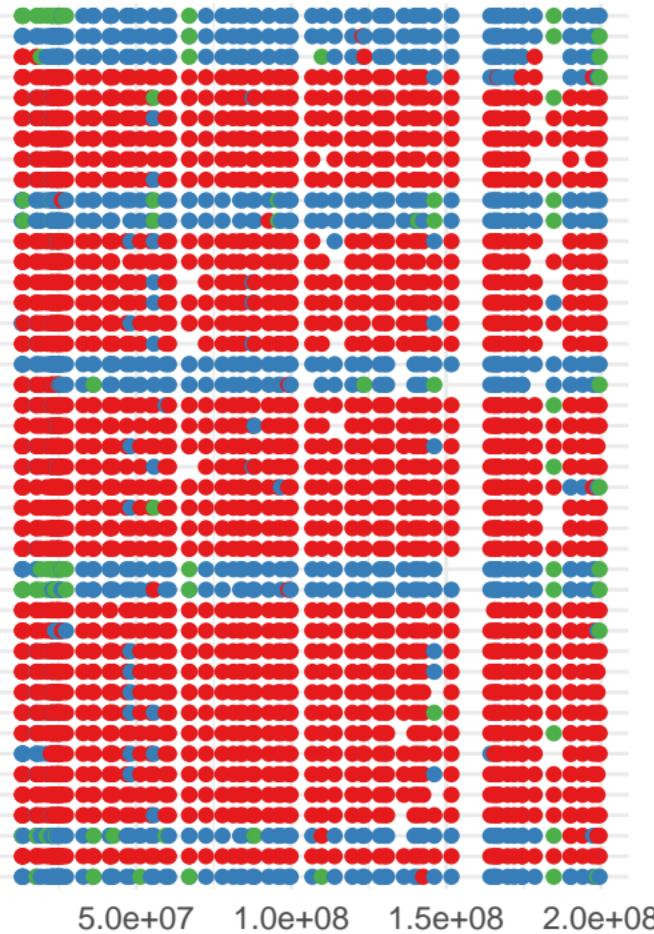


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# HCC 3 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# HCC 4 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

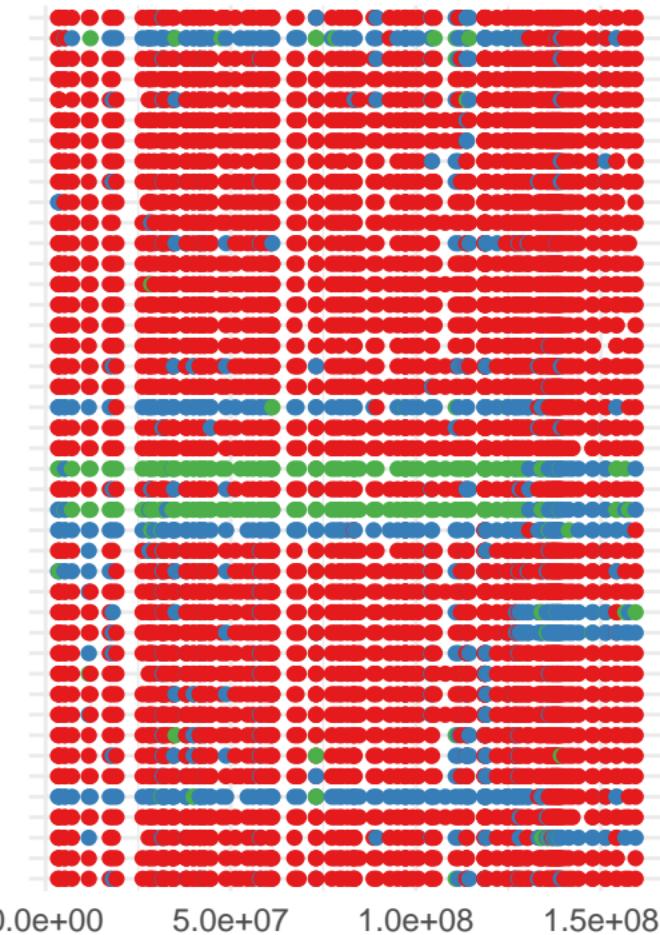
# HCC 4 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

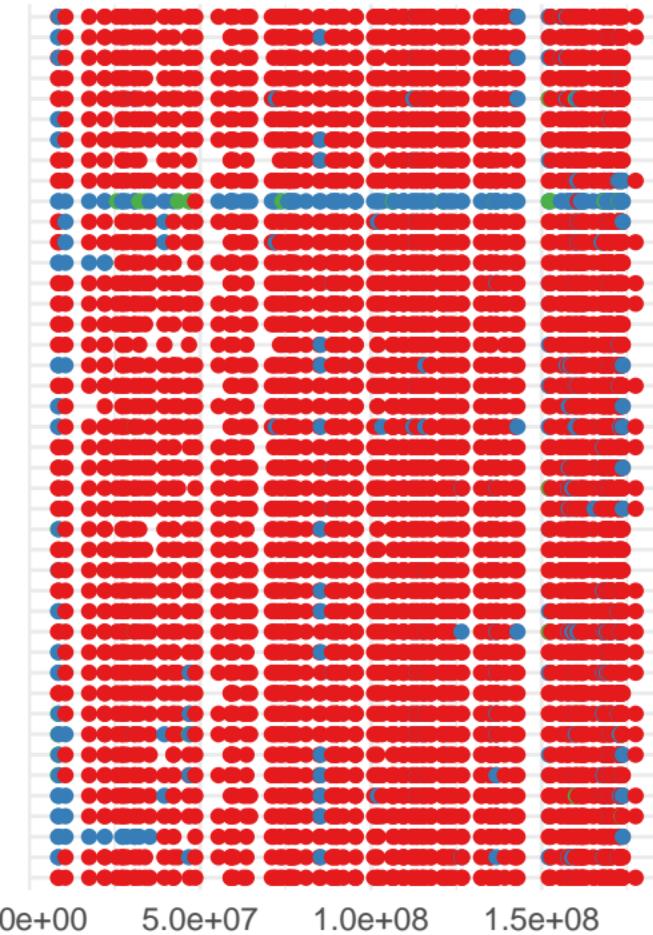
# HCC 4 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

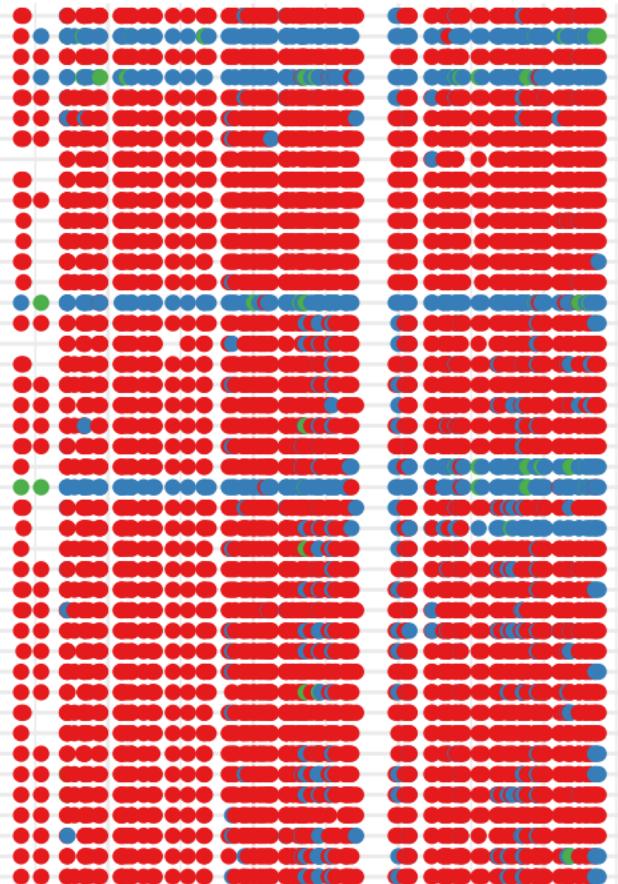
# HCC 4 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 4 HanXRQChr05

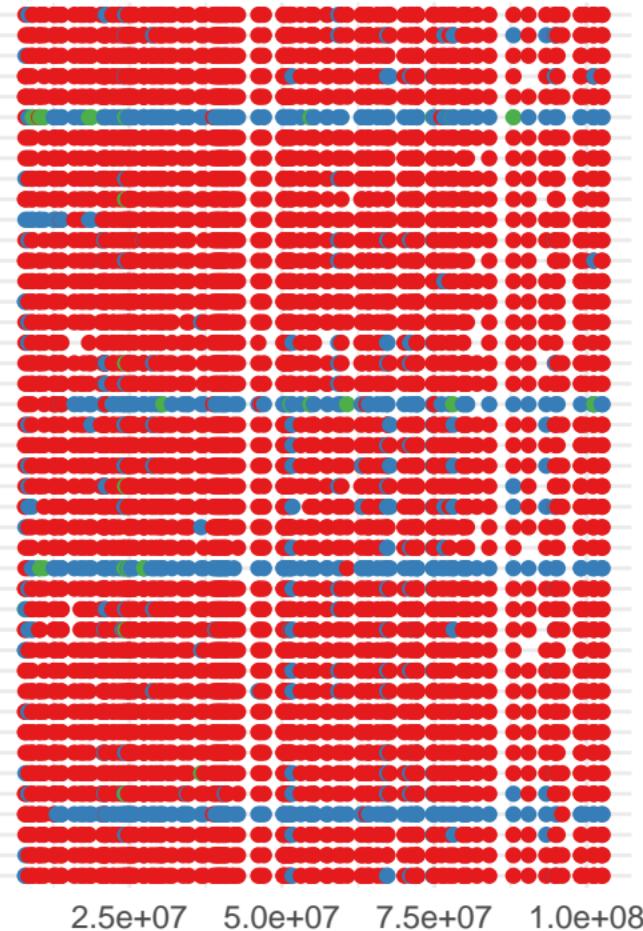


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

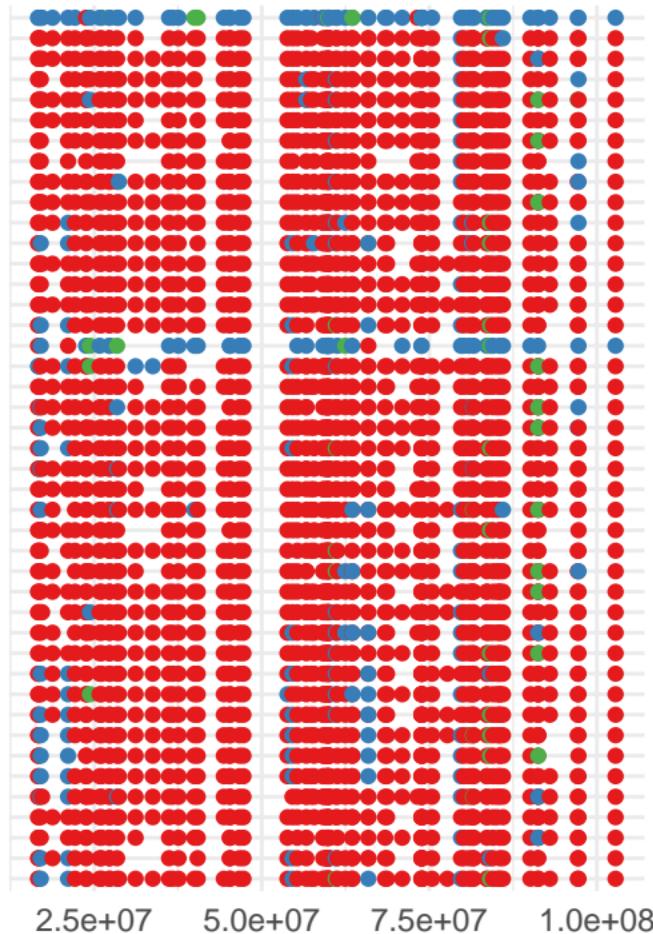
# HCC 4 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 4 HanXRQChr07



## Allelic state

- Annus
- Heterozygote
- Debilis

2.5e+07

5.0e+07

7.5e+07

1.0e+08

# HCC 4 HanXRQChr08



## Allelic state

- Annus
- Heterozygote
- Debilis

# HCC 4 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# HCC 4 HanXRQChr10

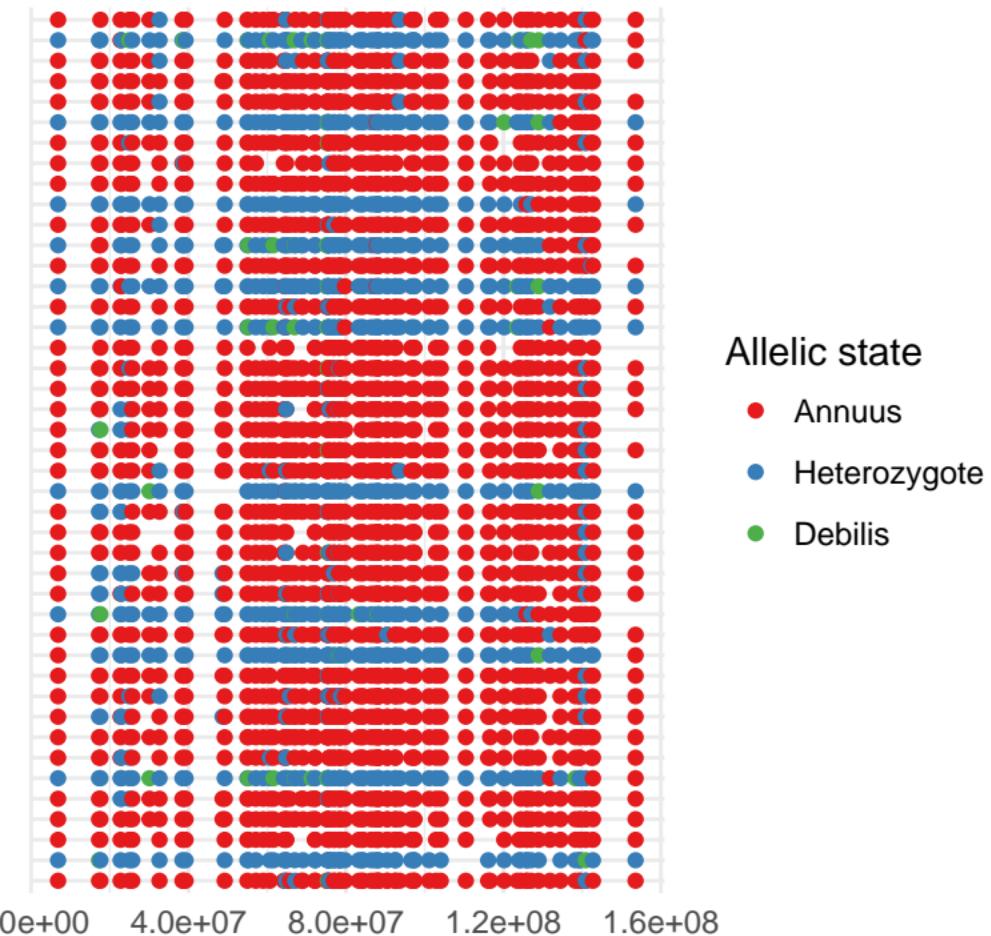


## Allelic state

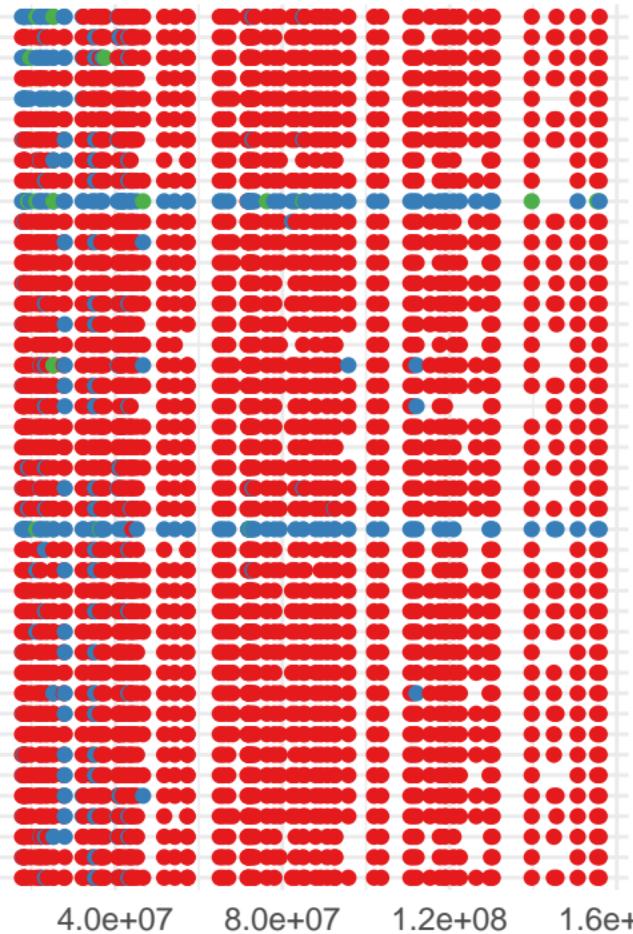
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 4 HanXRQChr11



# HCC 4 HanXRQChr12



Allelic state

- Annus
- Heterozygote
- Debilis

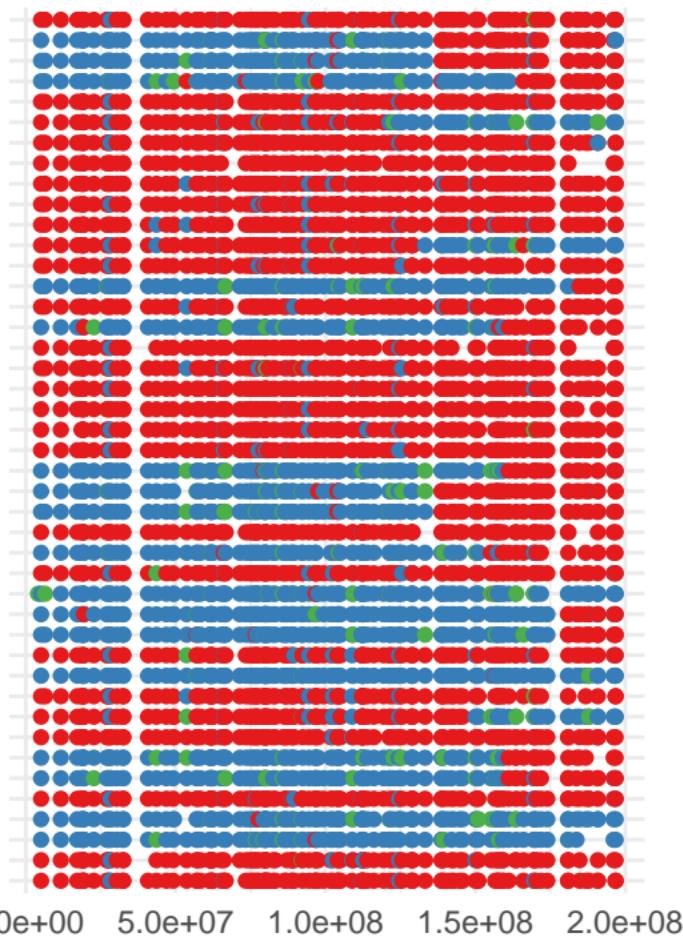
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# HCC 4 HanXRQChr13

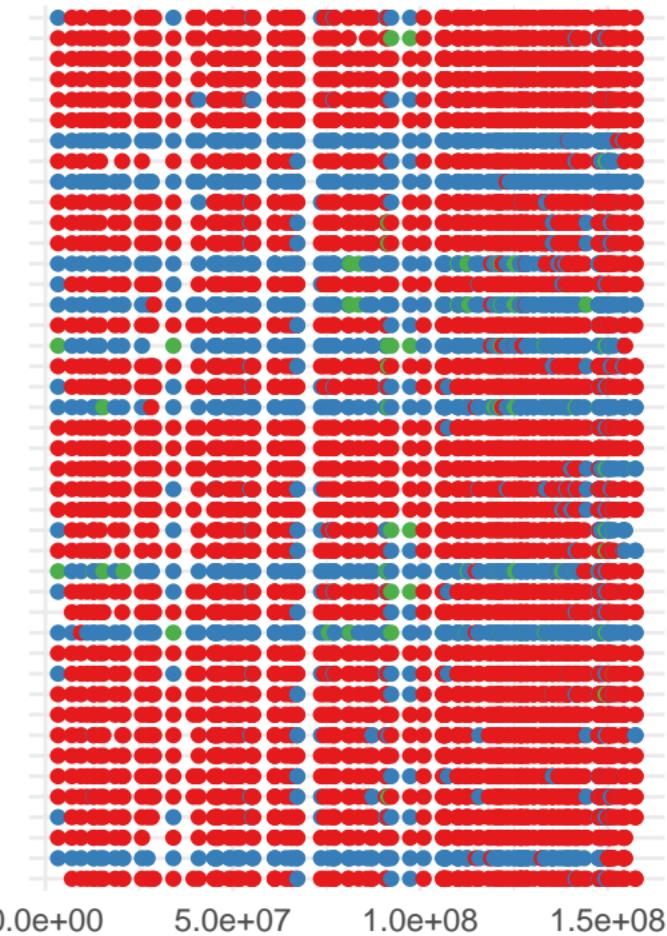


## Allelic state

- Annus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

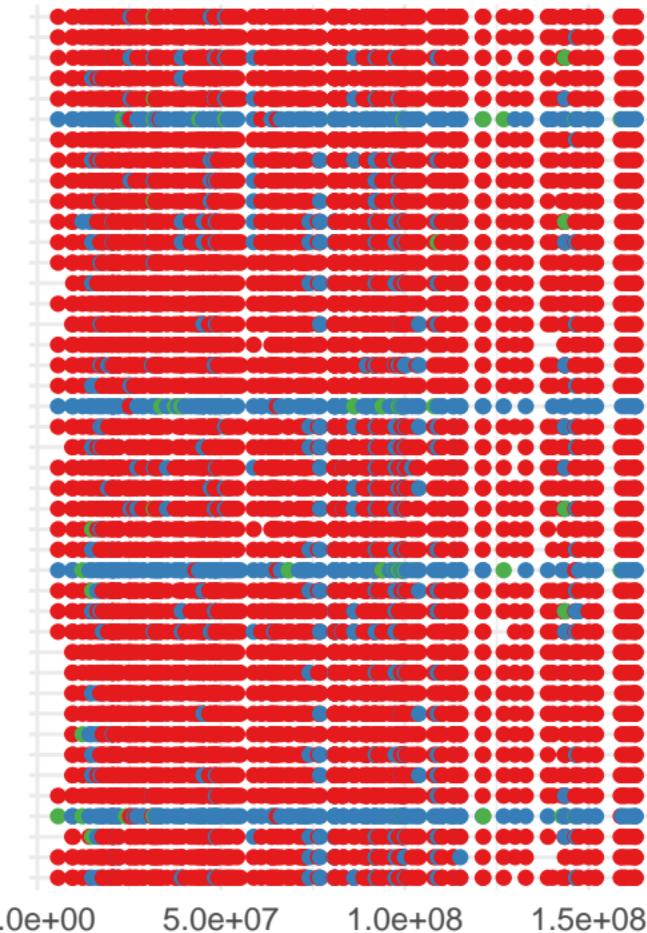
# HCC 4 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 4 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 4 HanXRQChr16

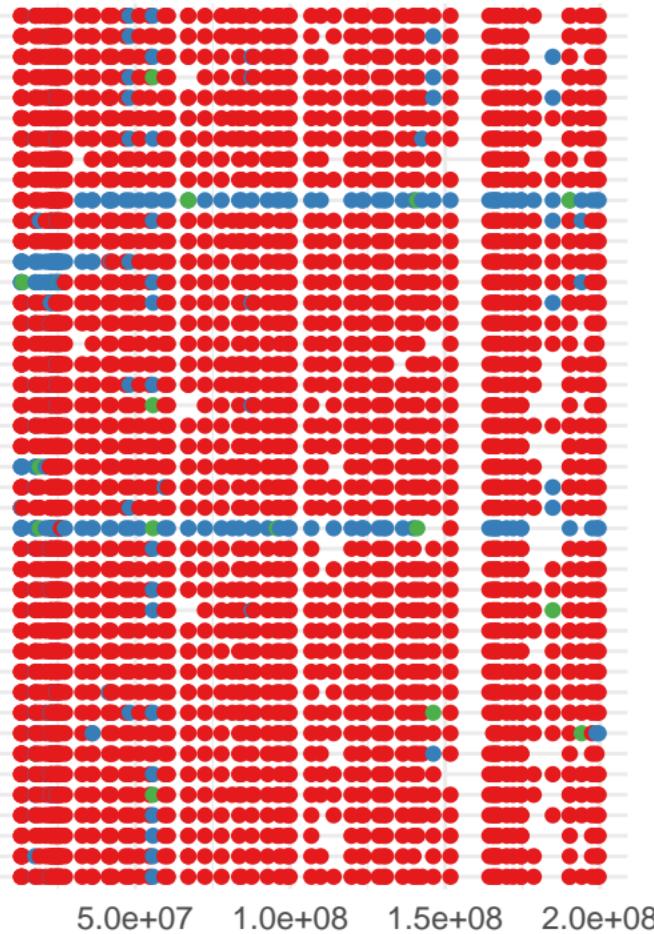


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# HCC 4 HanXRQChr17

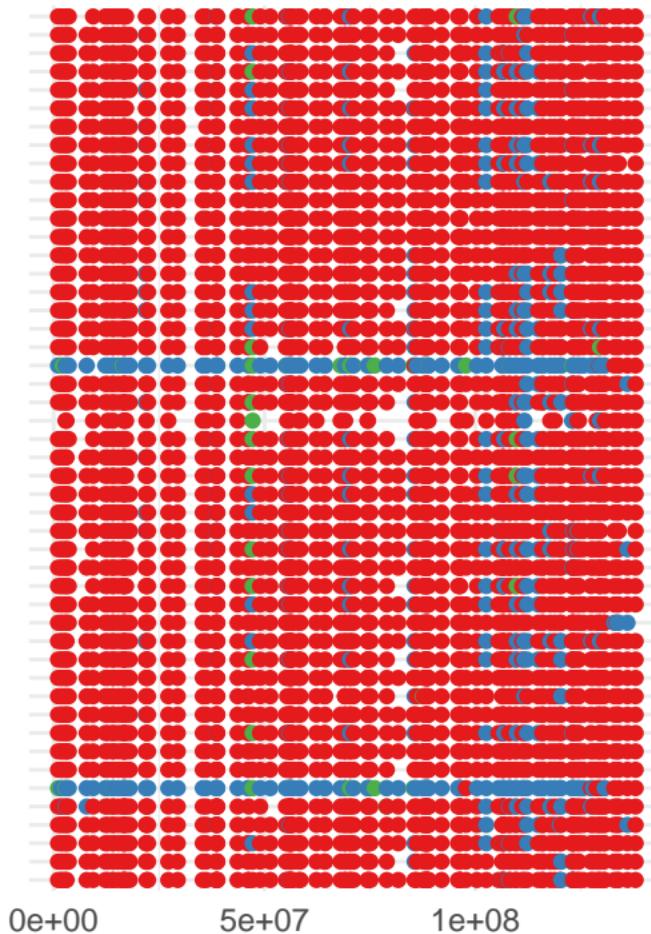


## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# HCC 5 HanXRQChr01



## Allelic state

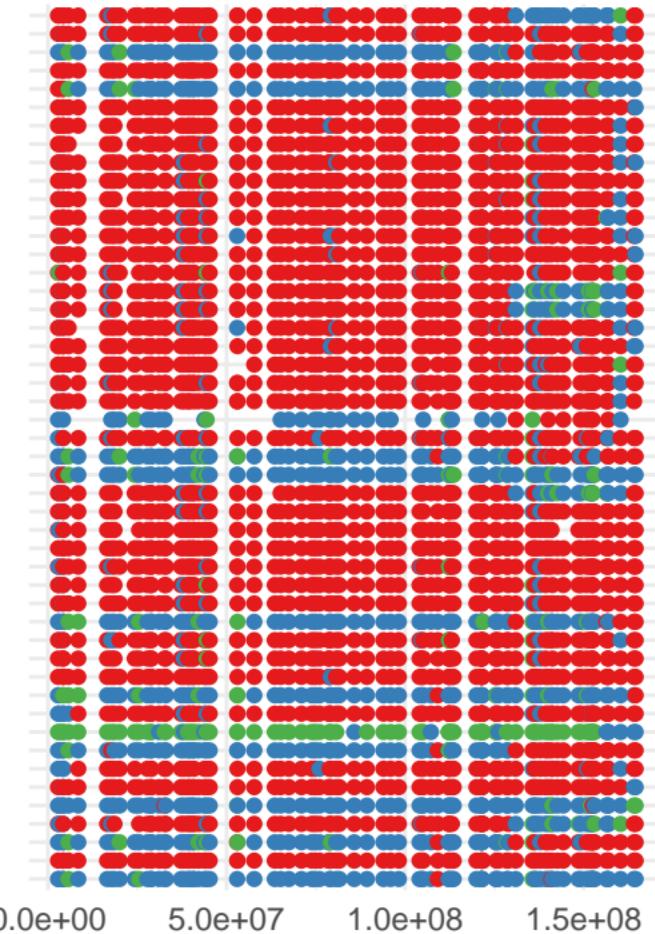
- Annuus
- Heterozygote
- Debilis

0e+00

5e+07

1e+08

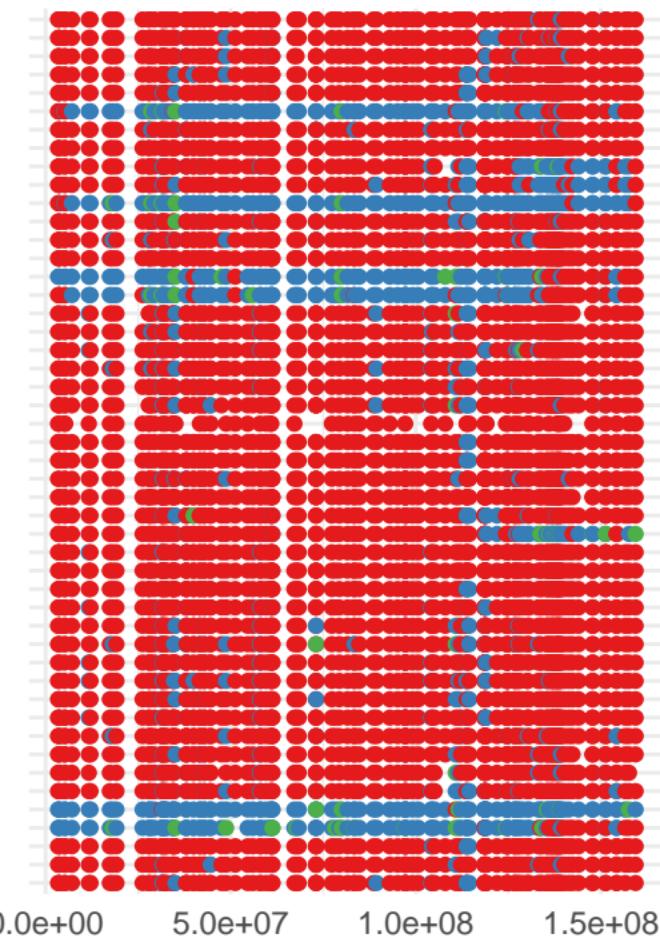
# HCC 5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

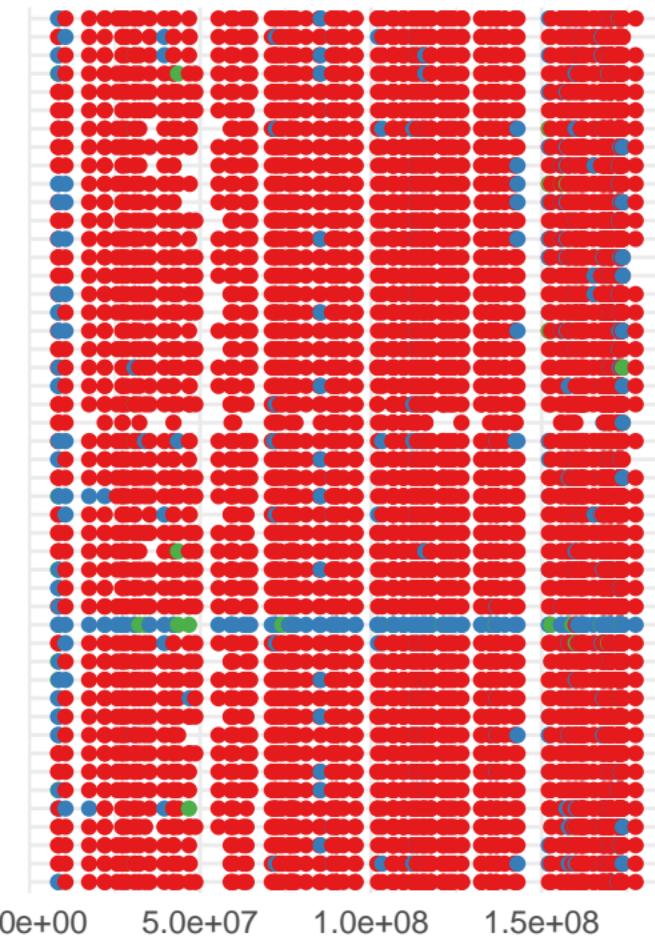
# HCC 5 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 5 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 5 HanXRQChr05

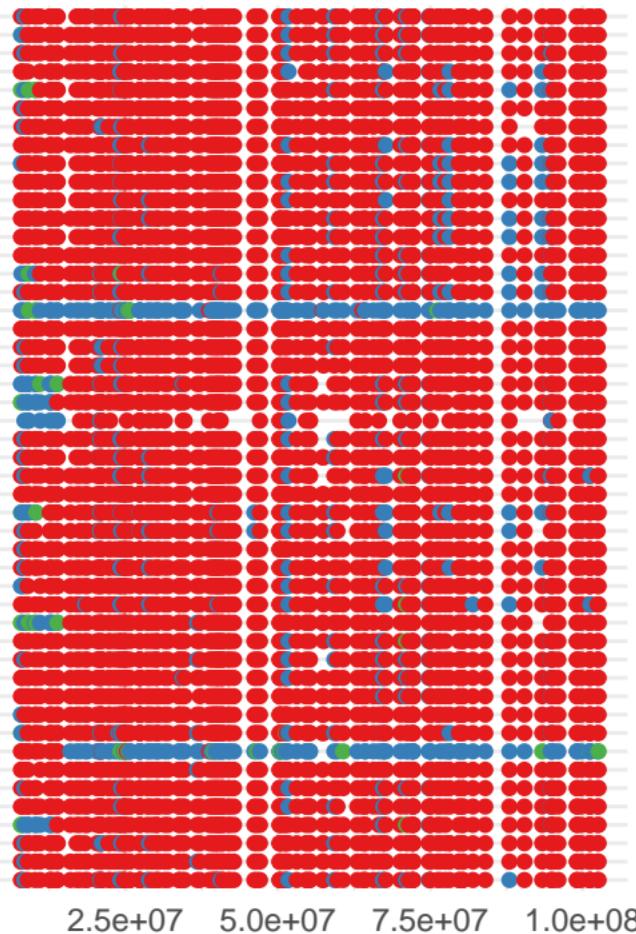


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 5 HanXRQChr06

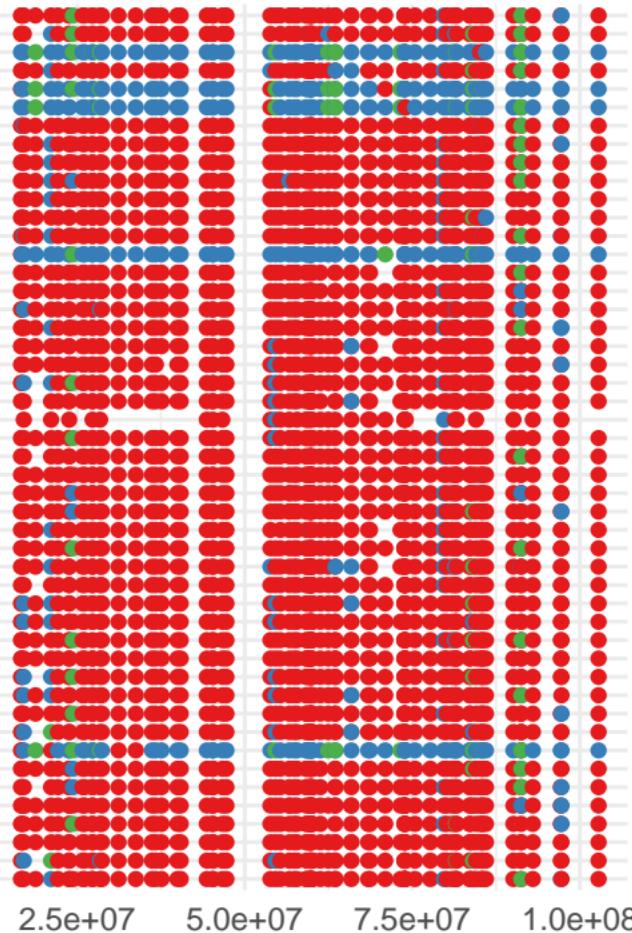


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# HCC 5 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 5 HanXRQChr08

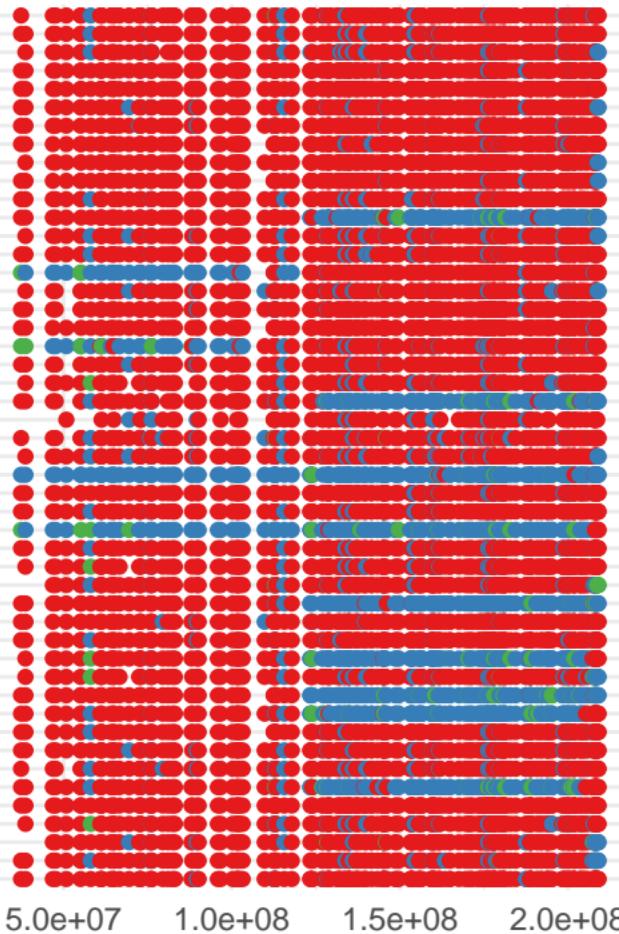


## Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

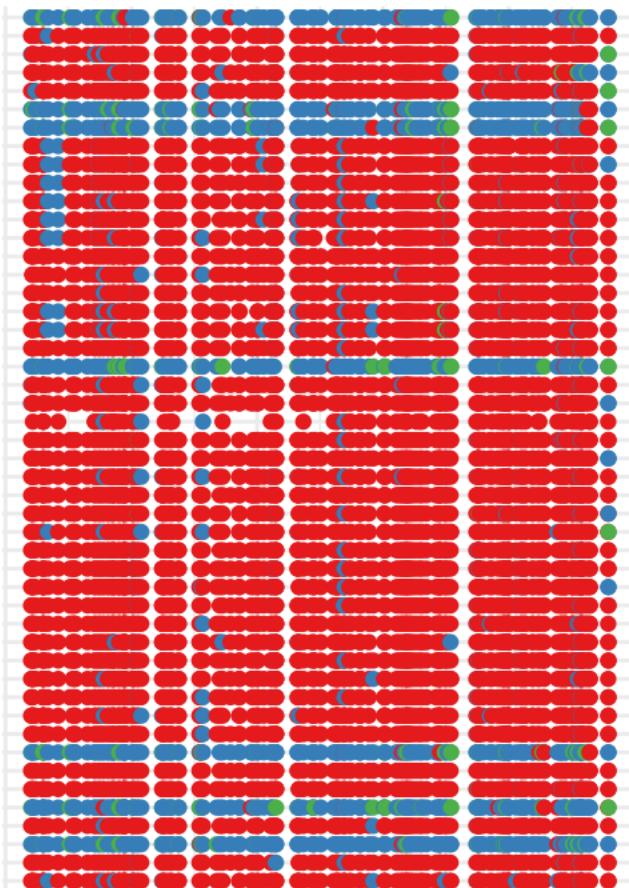
# HCC 5 HanXRQChr09



Allelic state

- Annuus
- Heterozygote
- Debilis

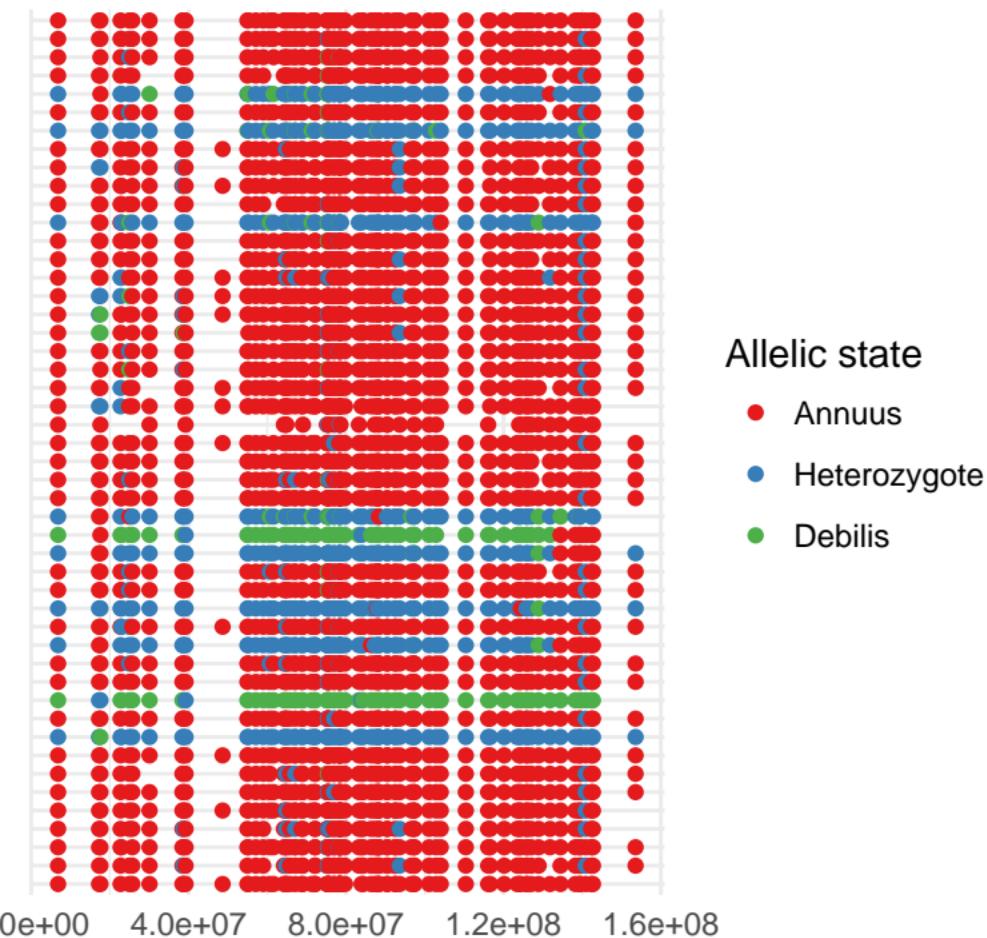
# HCC 5 HanXRQChr10



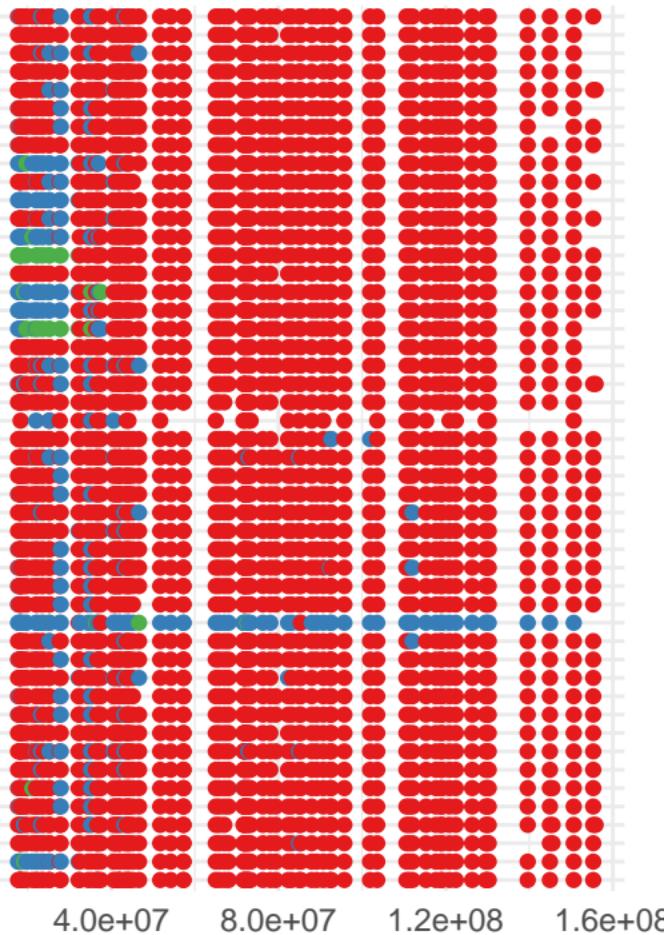
Allelic state

- Annus
- Heterozygote
- Debilis

# HCC 5 HanXRQChr11



# HCC 5 HanXRQChr12



Allelic state

- Annuus
- Heterozygote
- Debilis

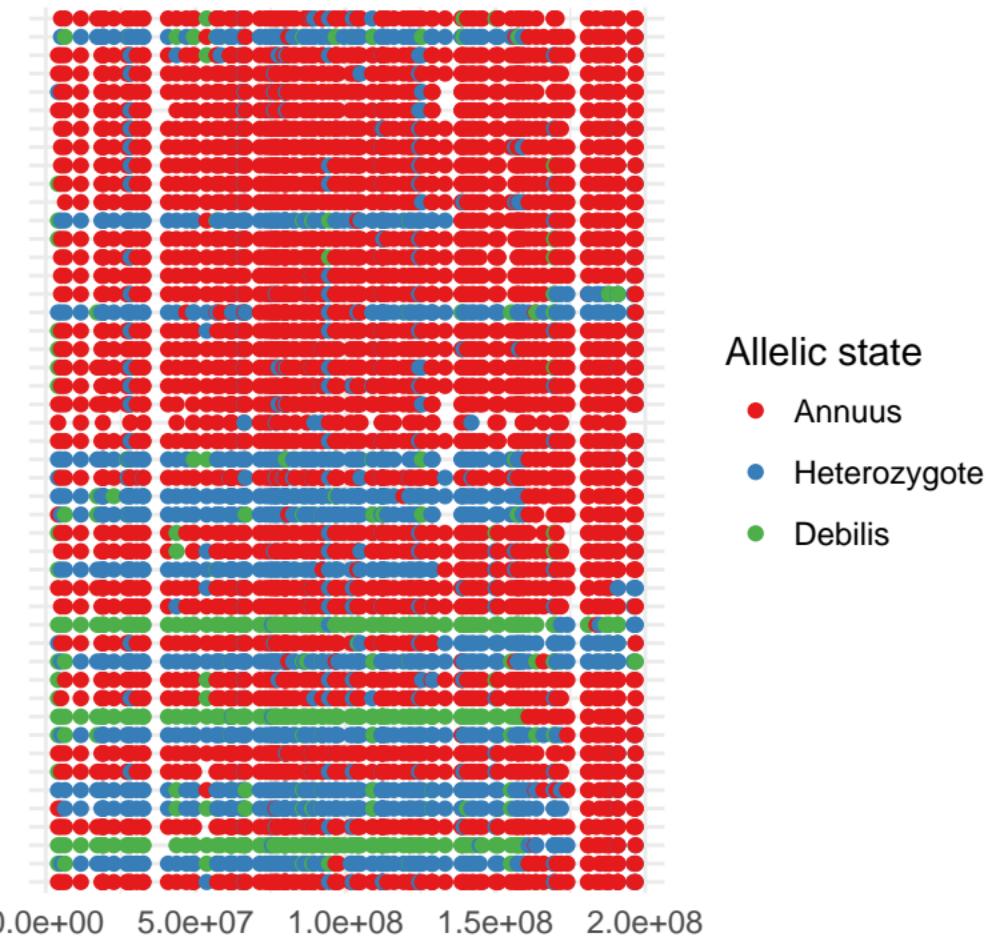
4.0e+07

8.0e+07

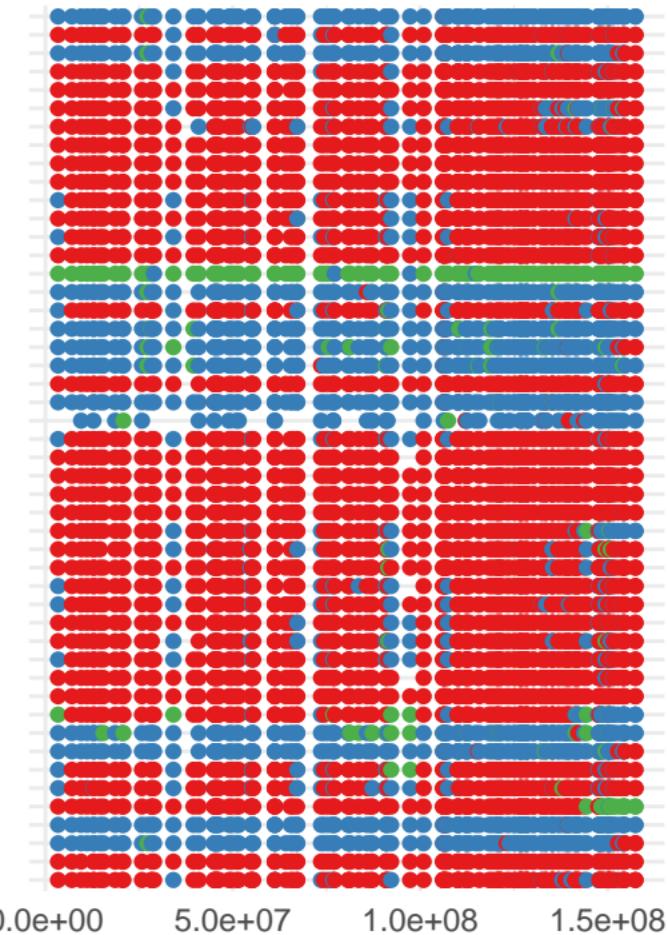
1.2e+08

1.6e+08

# HCC 5 HanXRQChr13



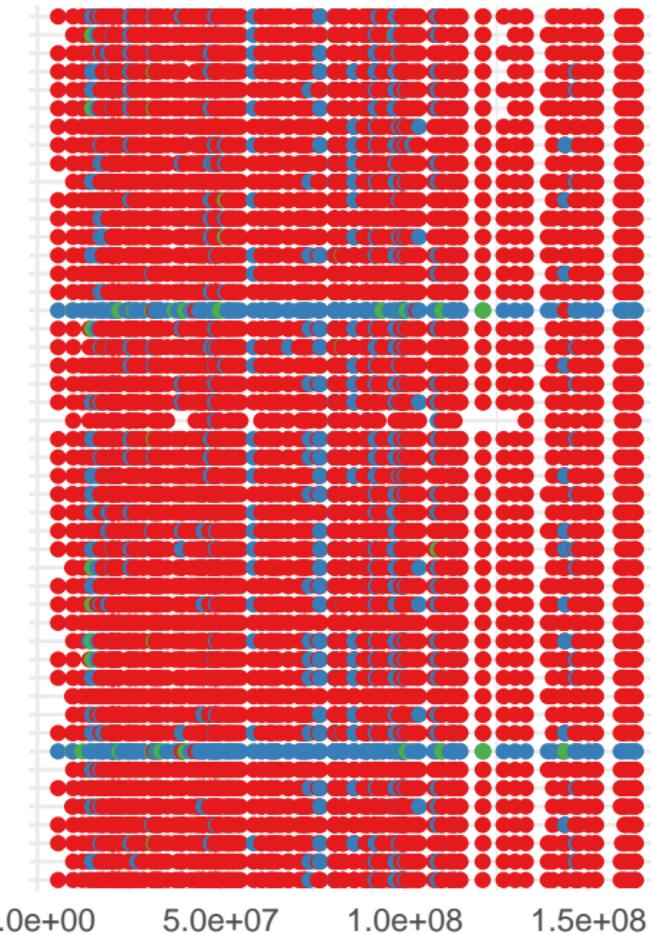
# HCC 5 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

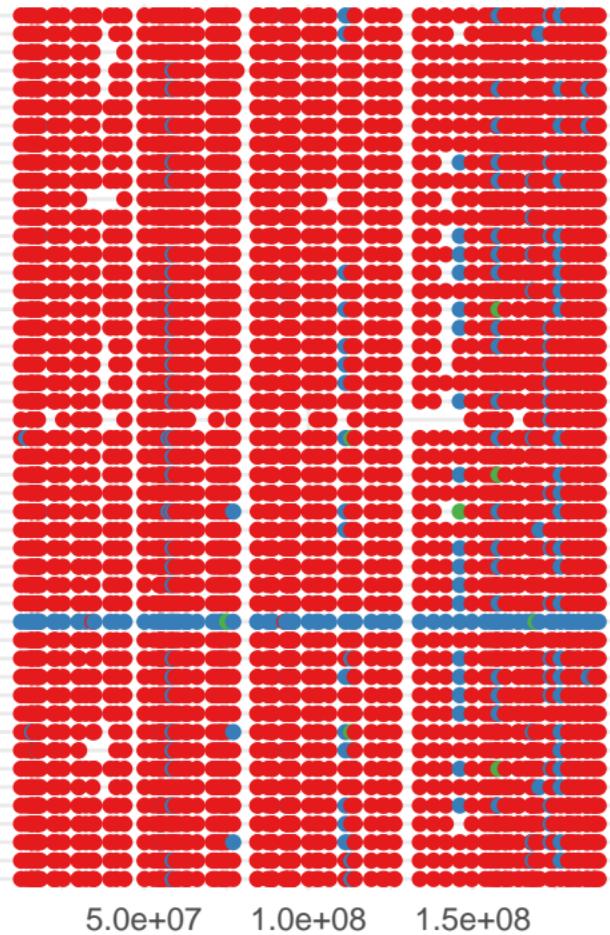
# HCC 5 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

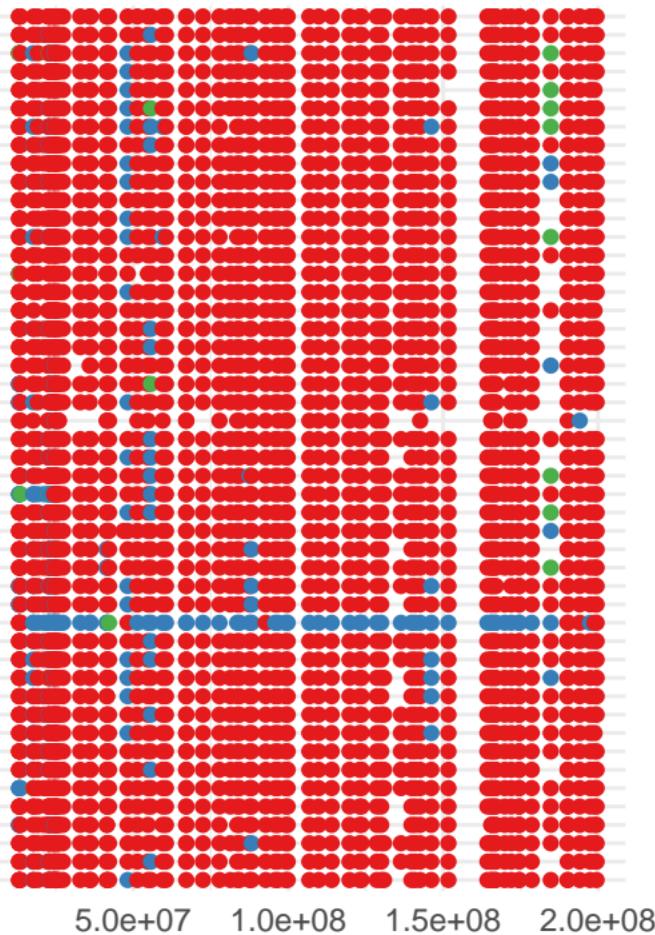
# HCC 5 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

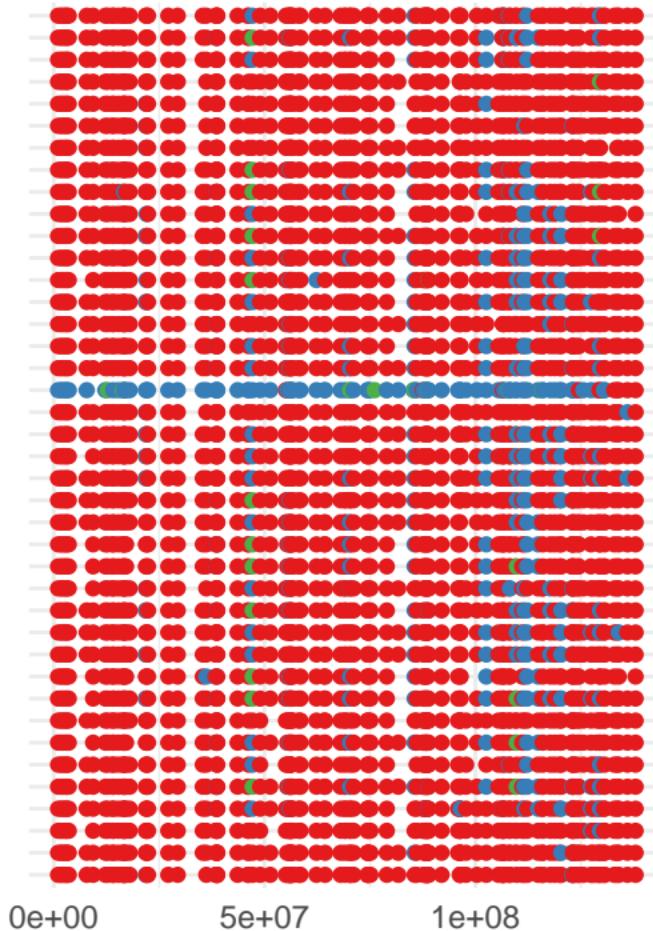
# HCC 5 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

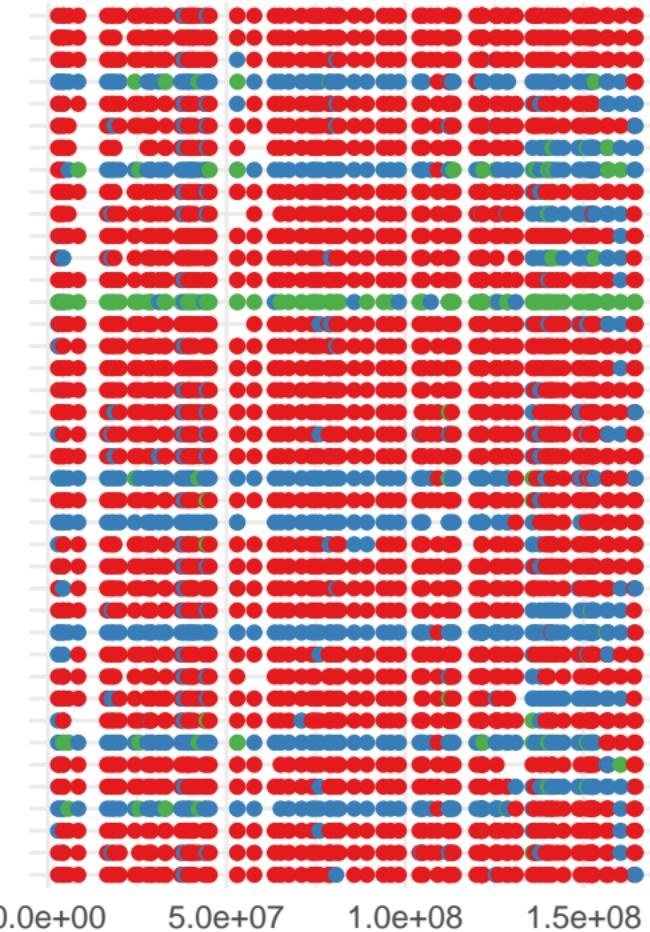
# HCC 6 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 6 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

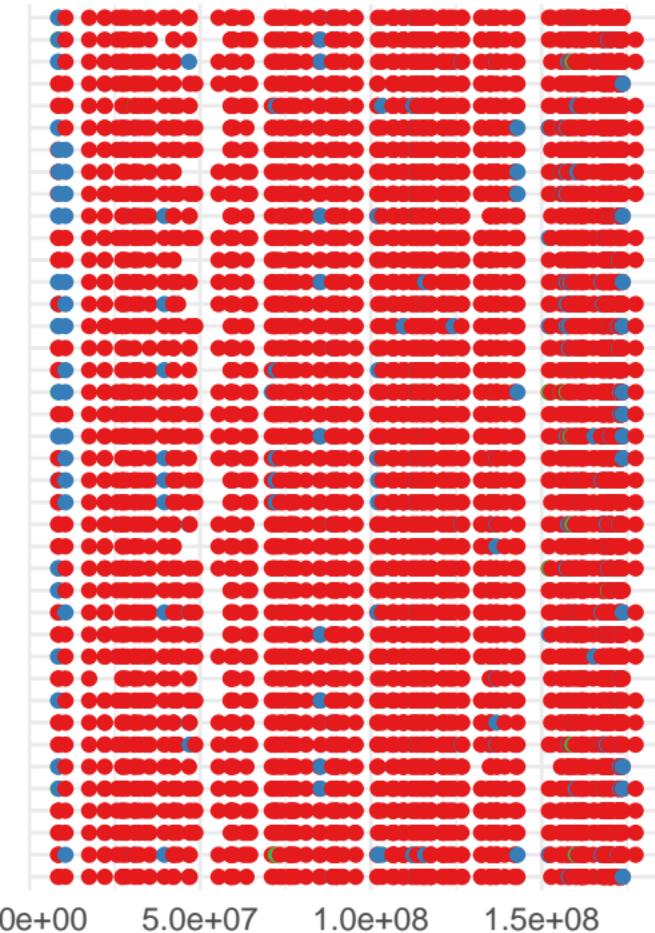
# HCC 6 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 6 HanXRQChr04



Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 6 HanXRQChr05

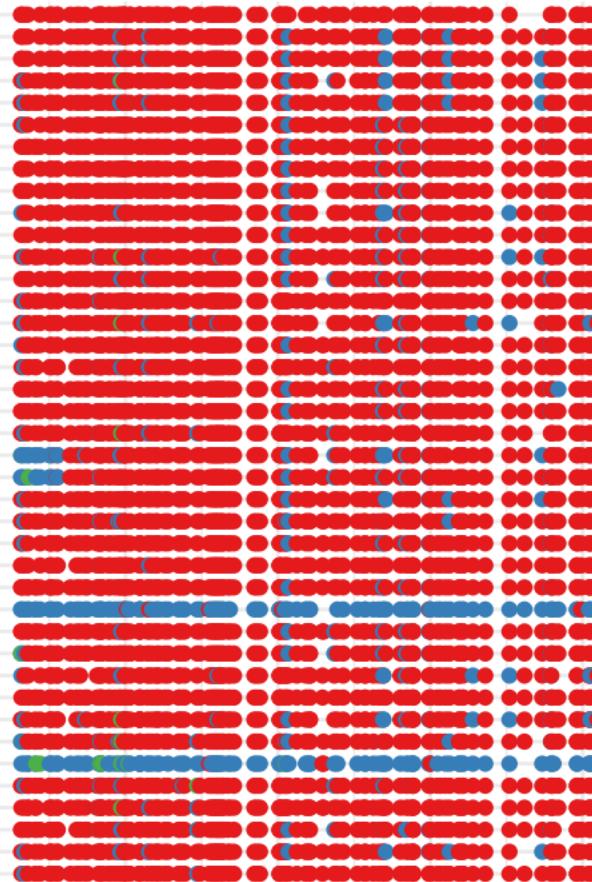


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 6 HanXRQChr06

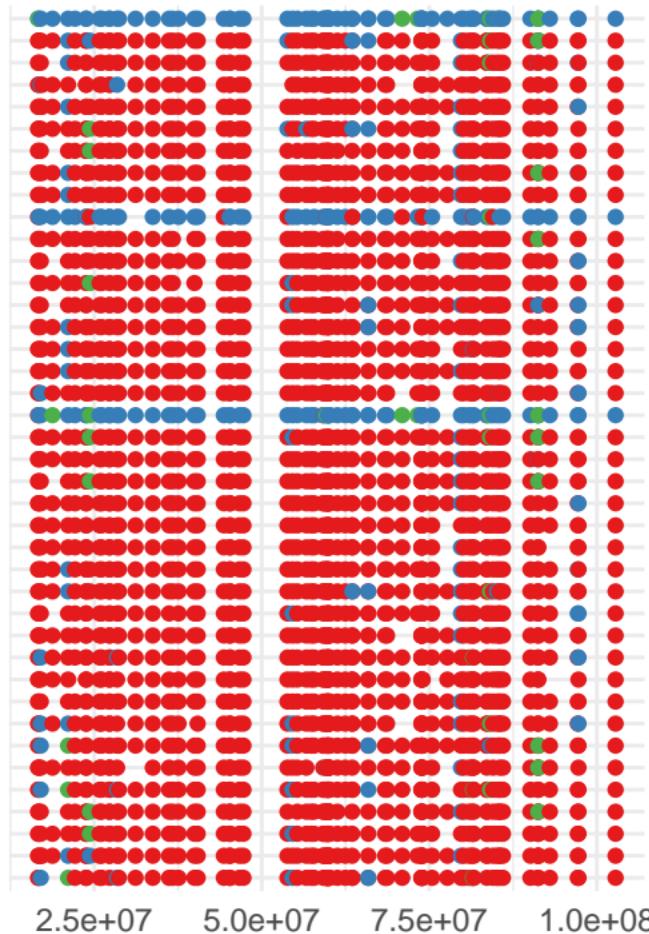


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07   5.0e+07   7.5e+07   1.0e+08

# HCC 6 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 6 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# HCC 6 HanXRQChr09



Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07

1.0e+08

1.5e+08

2.0e+08

# HCC 6 HanXRQChr10

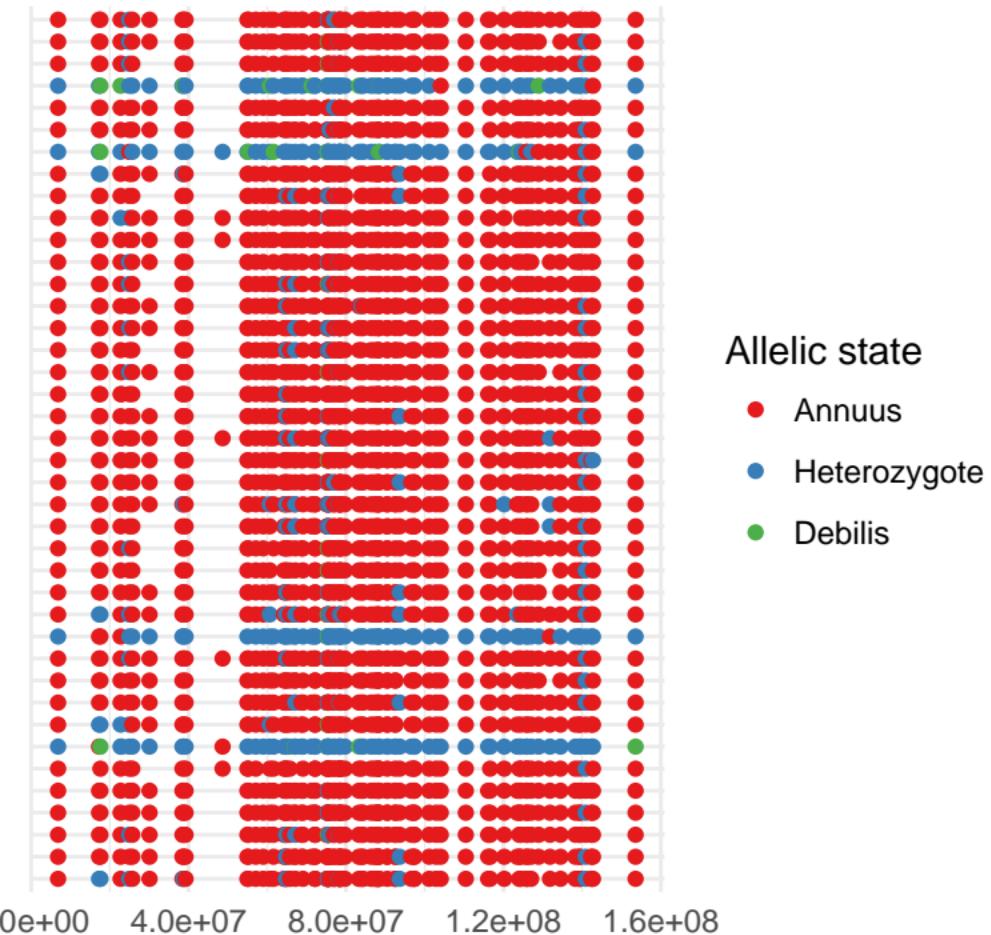


## Allelic state

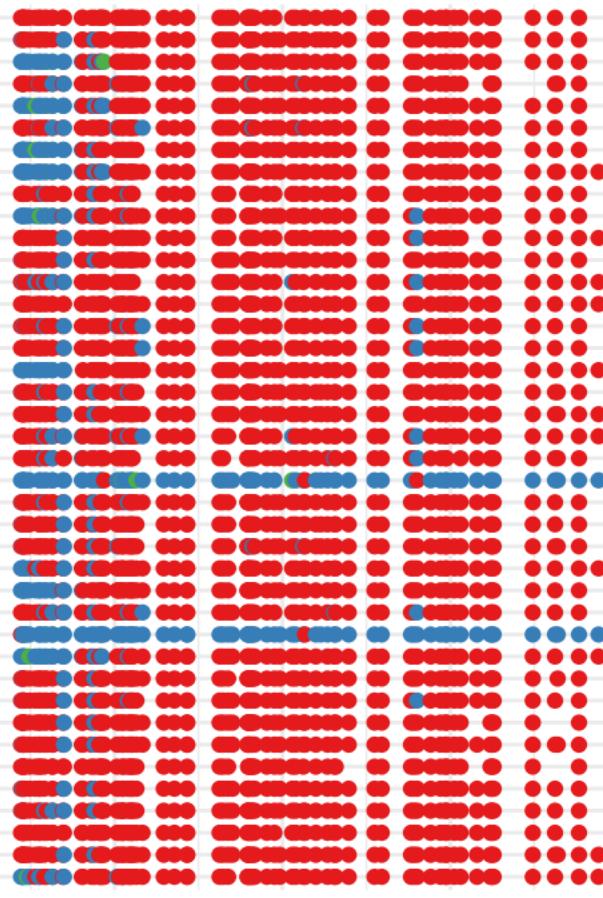
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 6 HanXRQChr11



# HCC 6 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

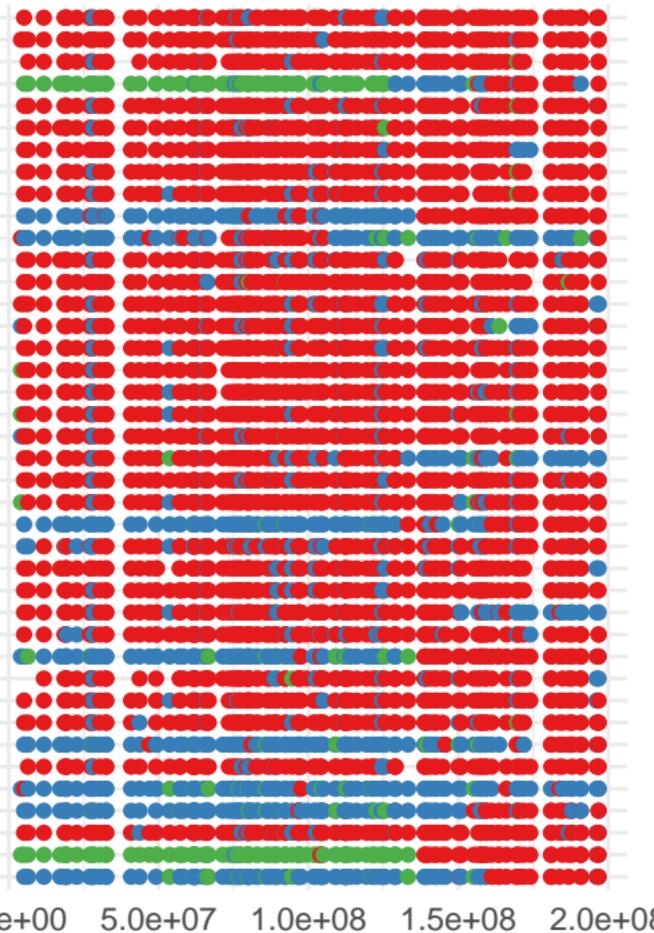
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# HCC 6 HanXRQChr13

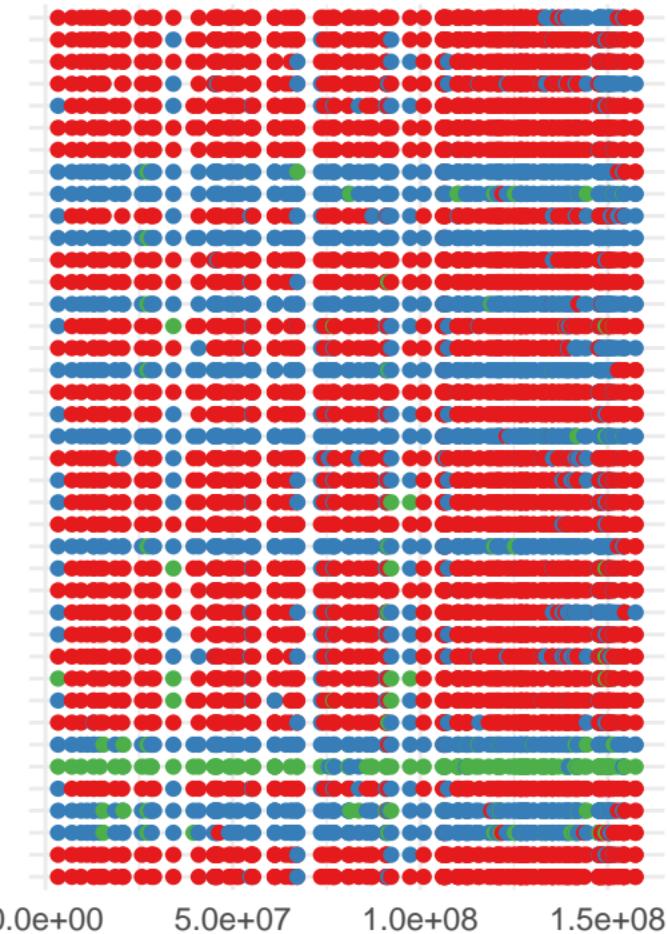


Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

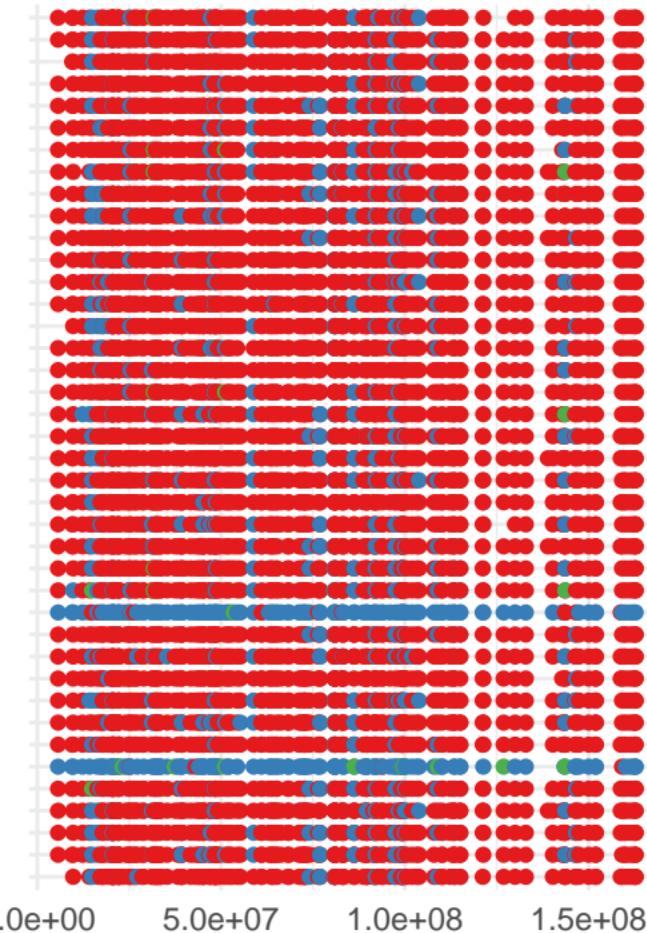
# HCC 6 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

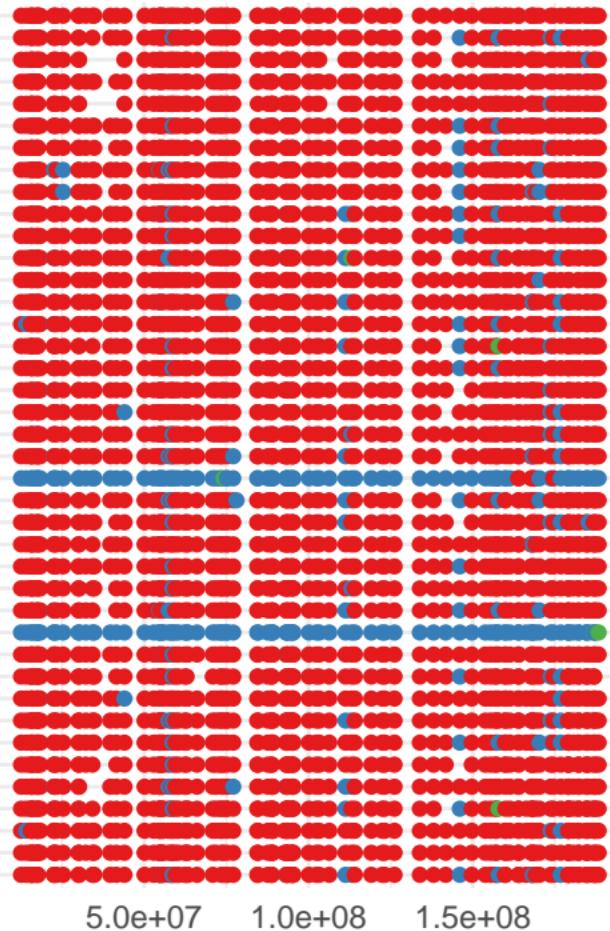
# HCC 6 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 6 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# HCC 6 HanXRQChr17

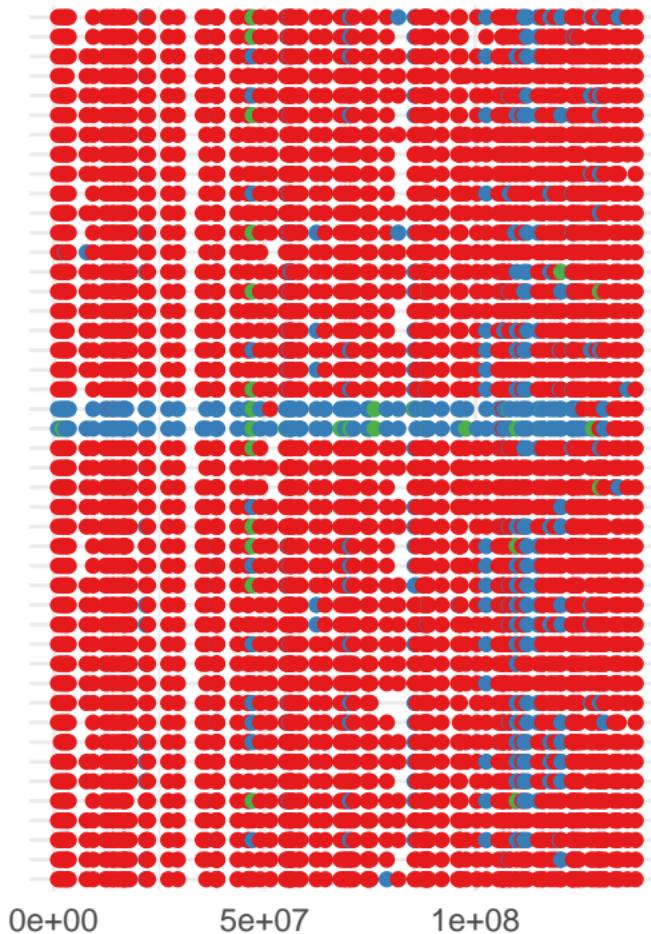


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 7 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 7 HanXRQChr02



## Allelic state

- Annus
- Heterozygote
- Debilis

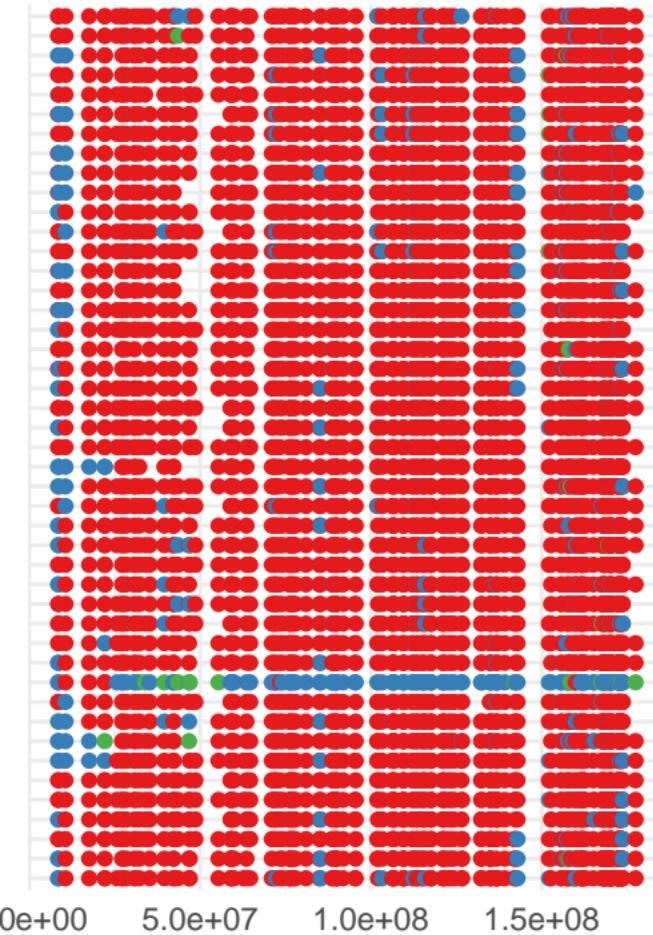
# HCC 7 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

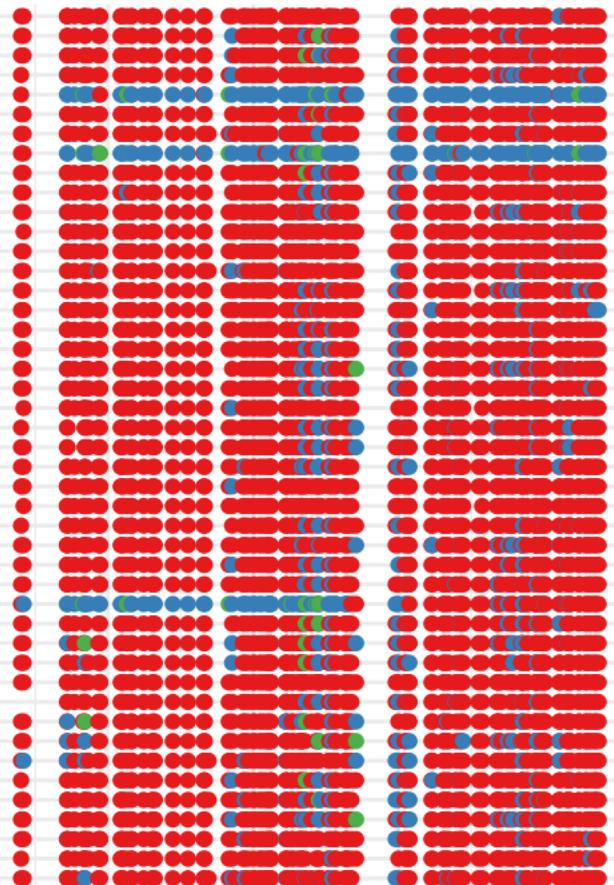
# HCC 7 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 7 HanXRQChr05

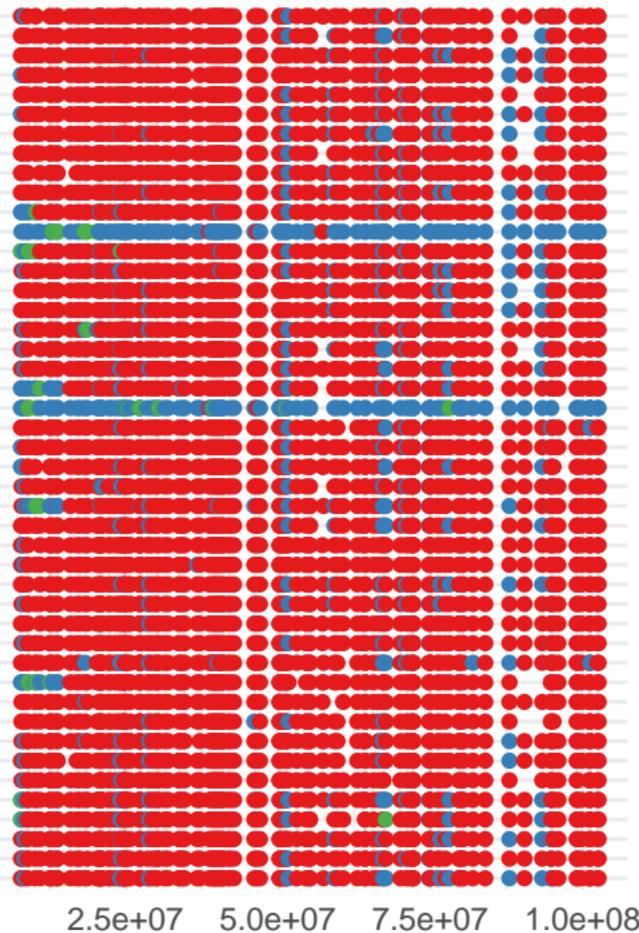


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 7 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 7 HanXRQChr07



## Allelic state

- Annus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# HCC 7 HanXRQChr08

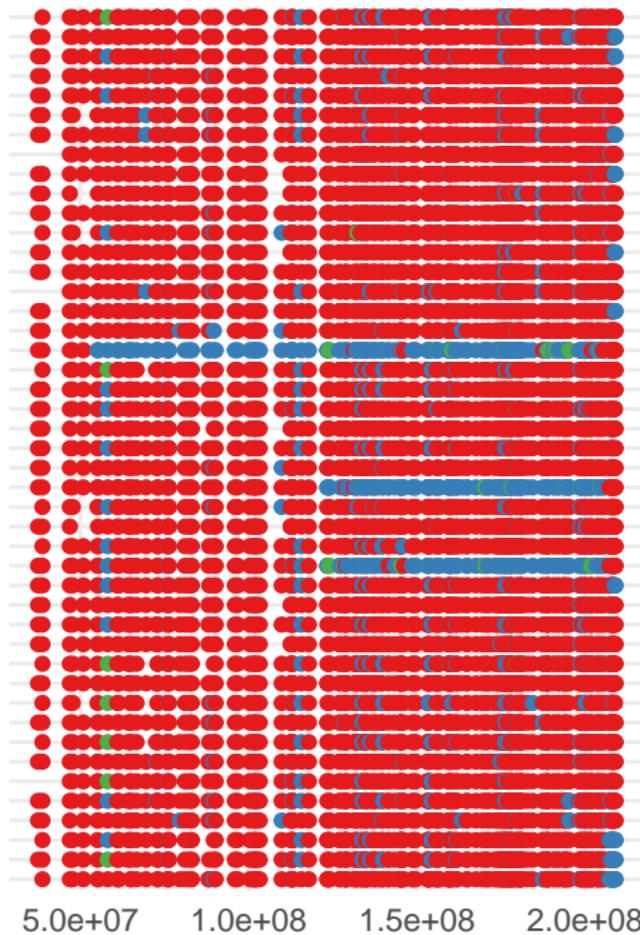


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

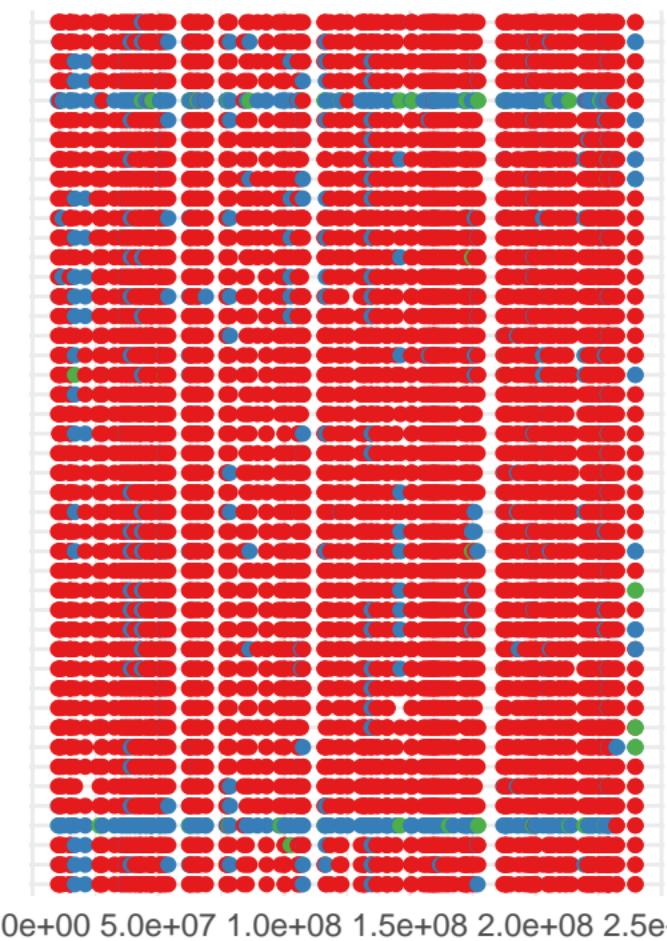
# HCC 7 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 7 HanXRQChr10

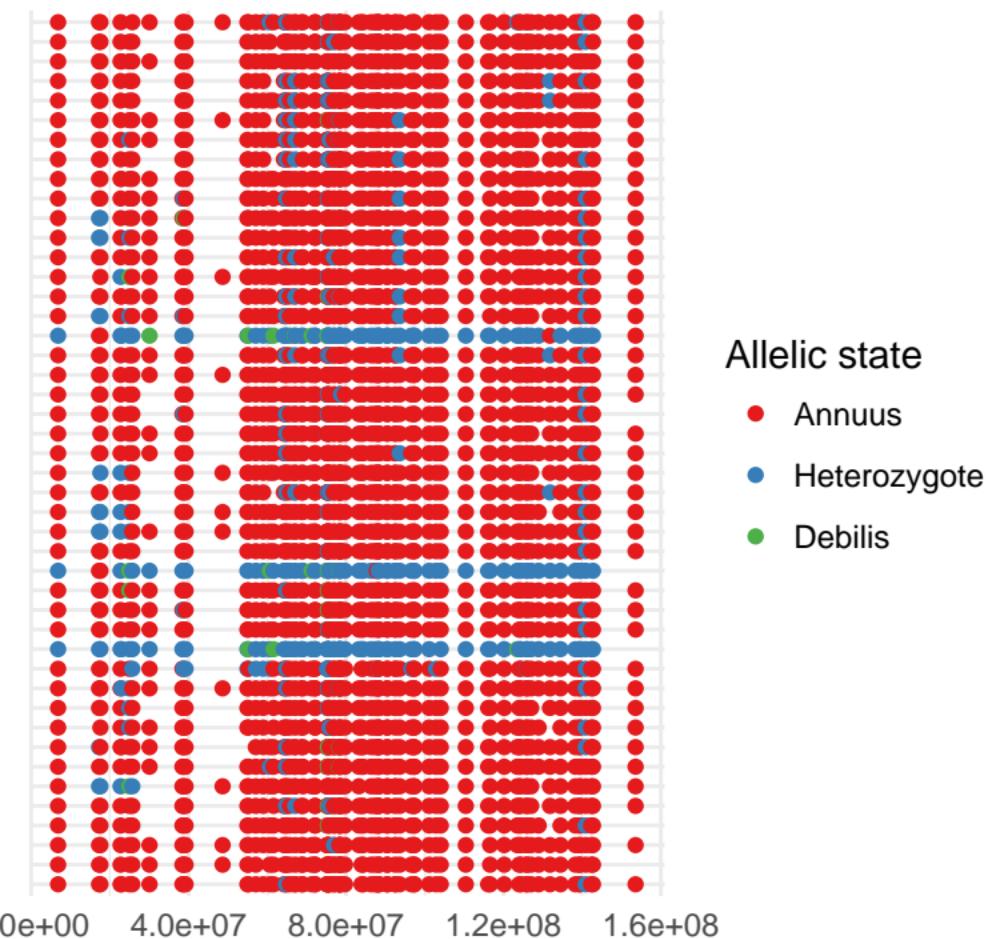


Allelic state

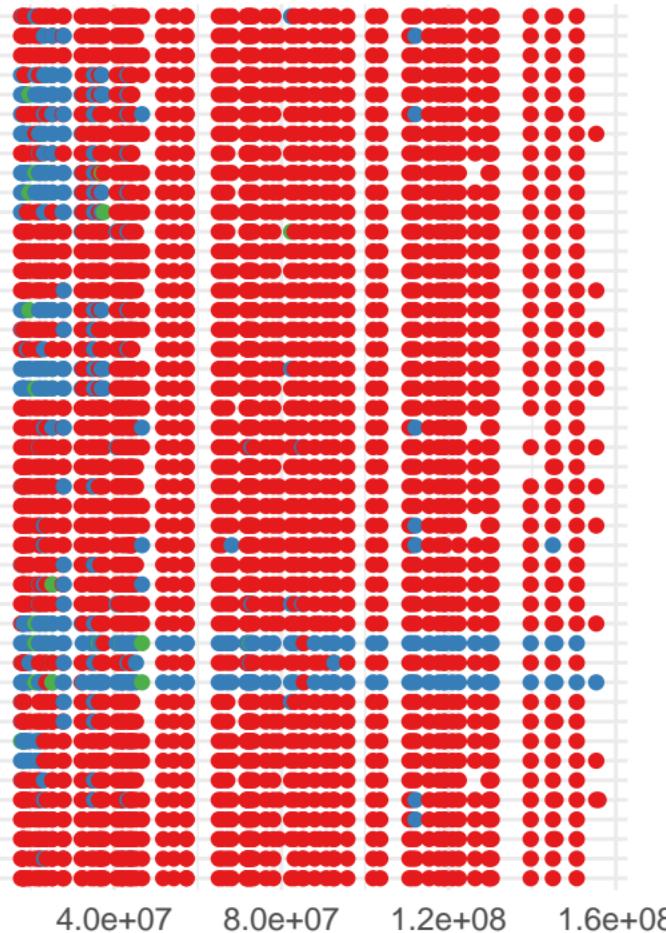
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 7 HanXRQChr11



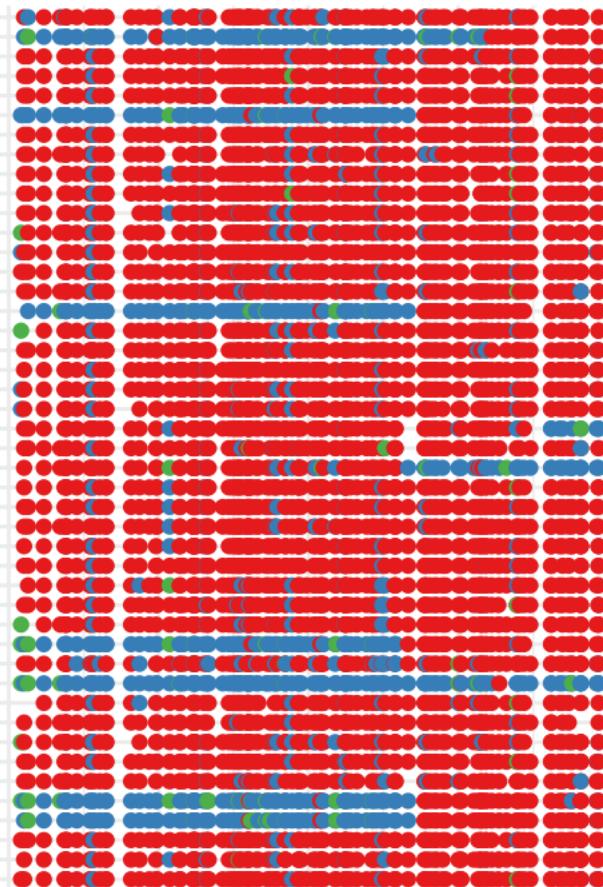
# HCC 7 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 7 HanXRQChr13



## Allelic state

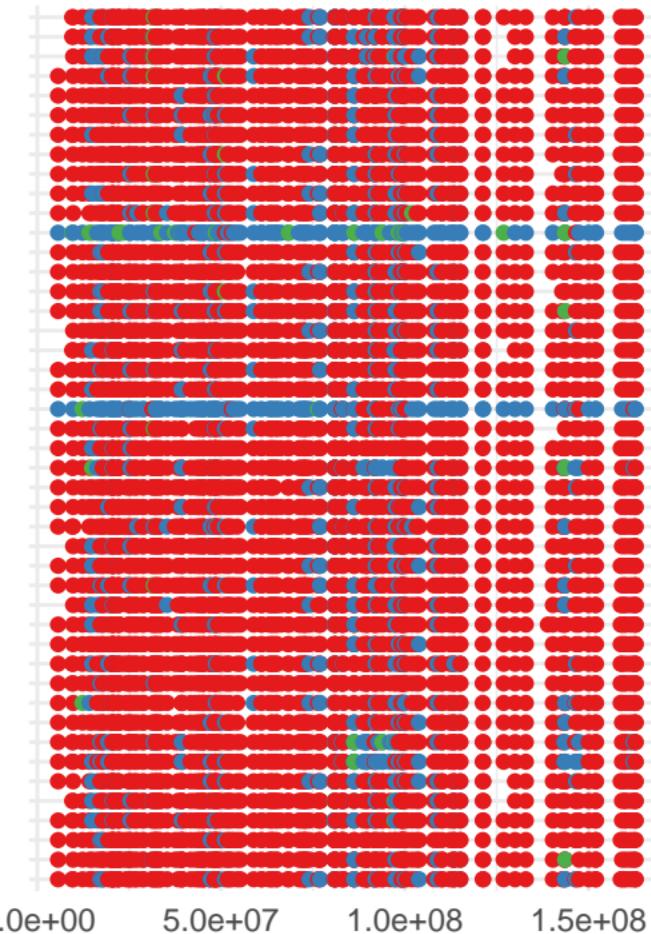
- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 7 HanXRQChr14



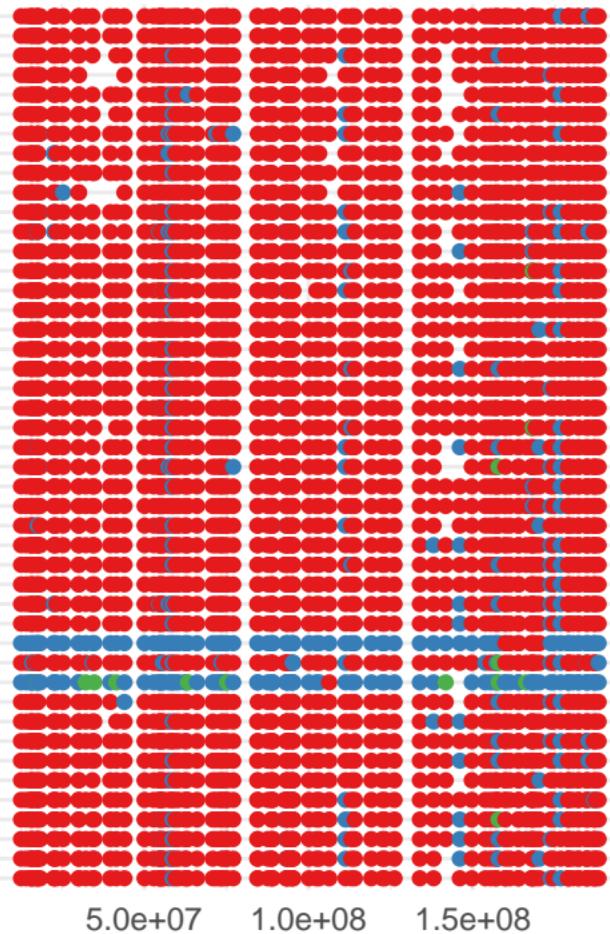
# HCC 7 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

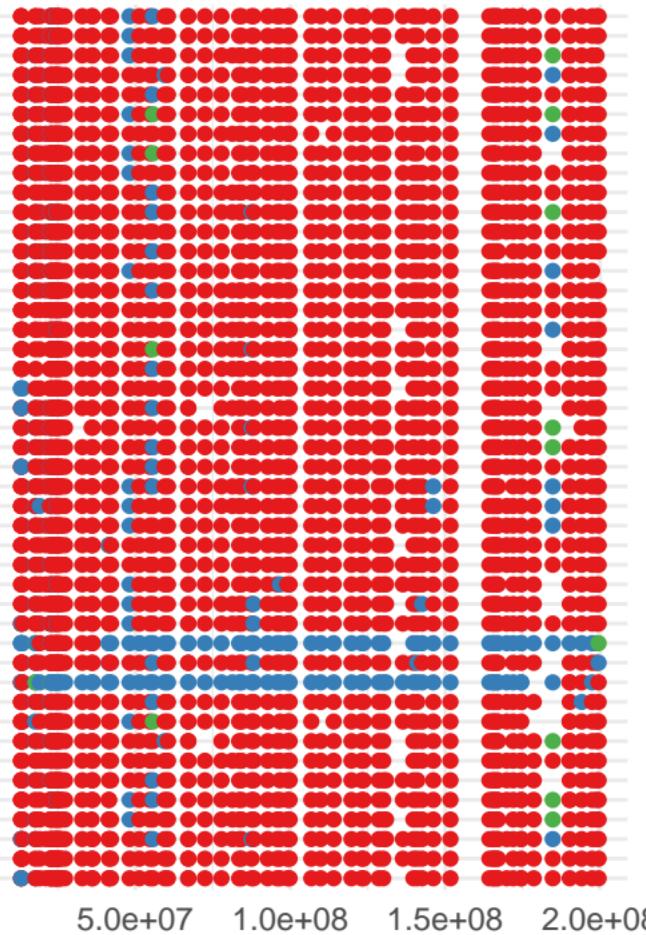
# HCC 7 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 7 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

$5.0\text{e}+07$   $1.0\text{e}+08$   $1.5\text{e}+08$   $2.0\text{e}+08$

# HCC 8 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

0e+00

5e+07

1e+08

# HCC 8 HanXRQChr02



Allelic state

- Annuus
- Heterozygote
- Debilis

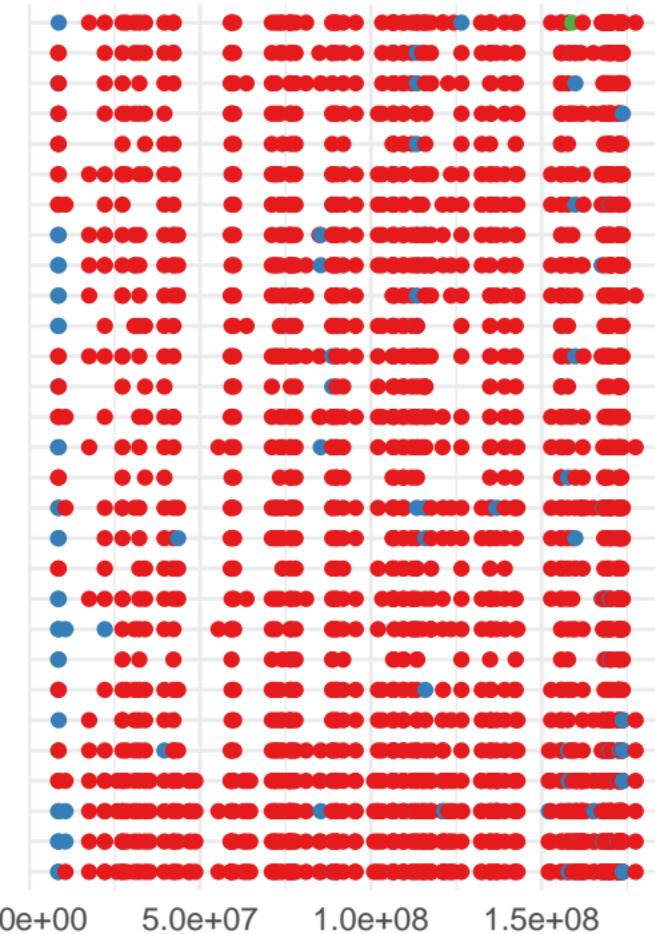
# HCC 8 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 8 HanXRQChr04



Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 8 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 8 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# HCC 8 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

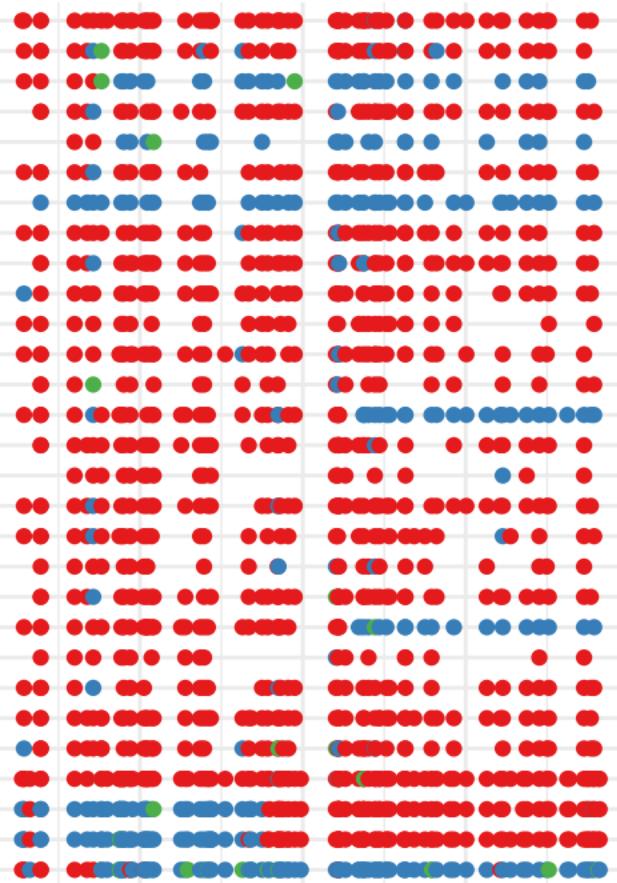
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# HCC 8 HanXRQChr08



Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# HCC 8 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# HCC 8 HanXRQChr10

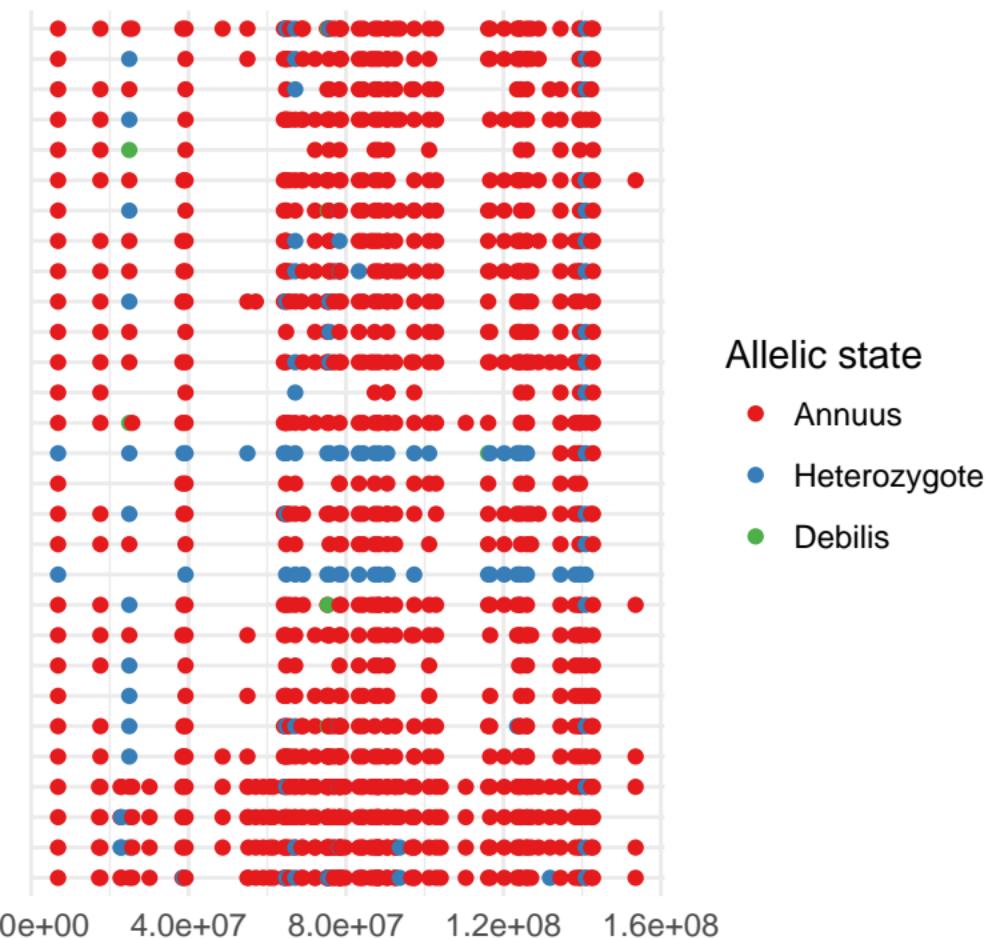


## Allelic state

- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 8 HanXRQChr11



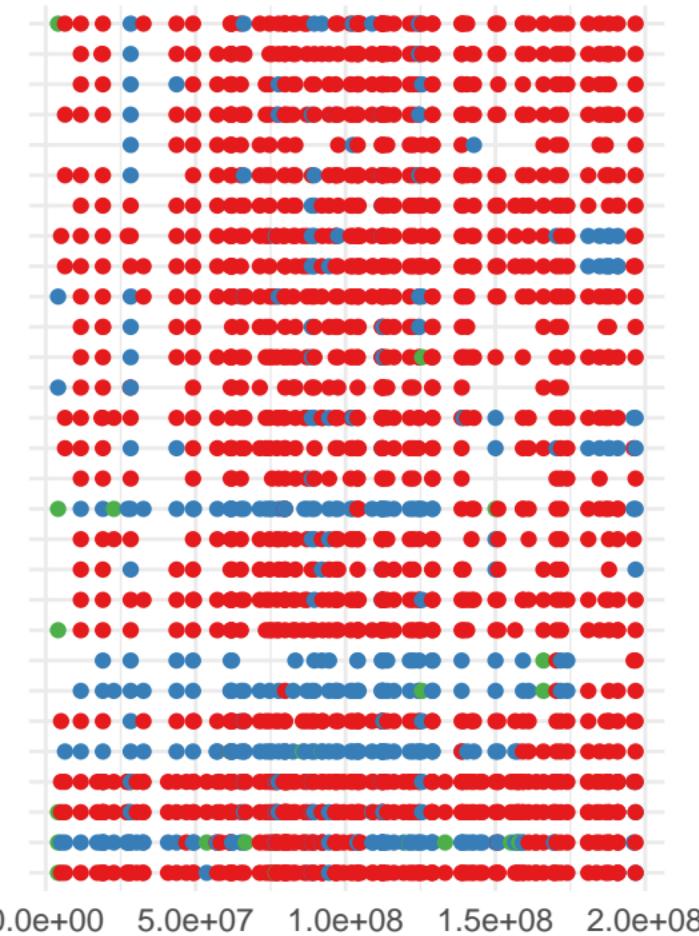
# HCC 8 HanXRQChr12



## Allelic state

- Annus
- Heterozygote
- Debilis

# HCC 8 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 8 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

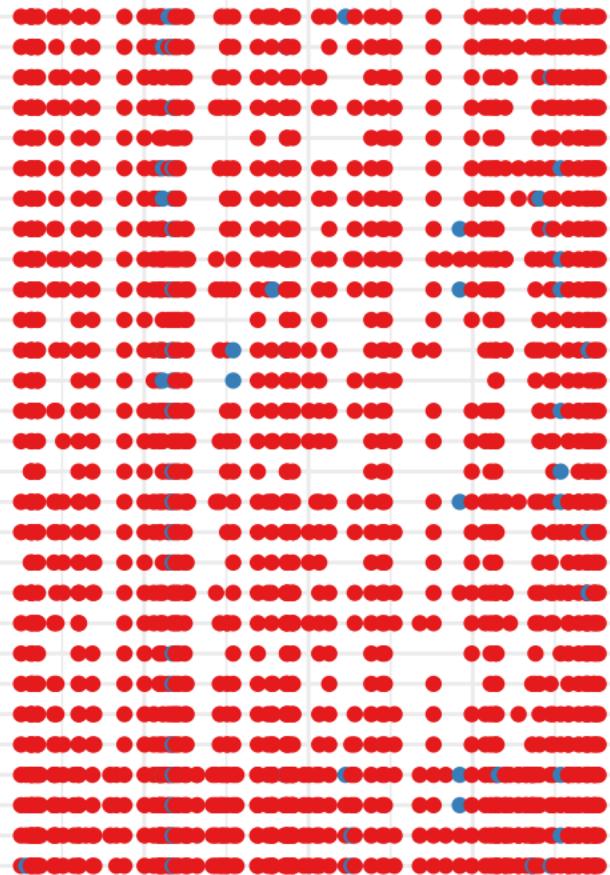
# HCC 8 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 8 HanXRQChr16



Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# HCC 8 HanXRQChr17

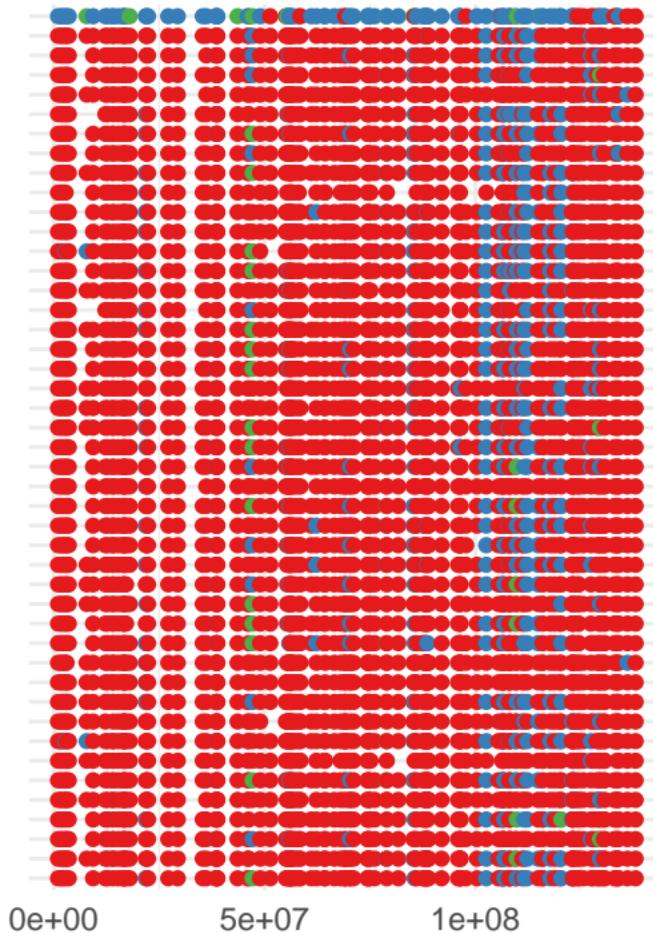


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# HCC 9 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 9 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

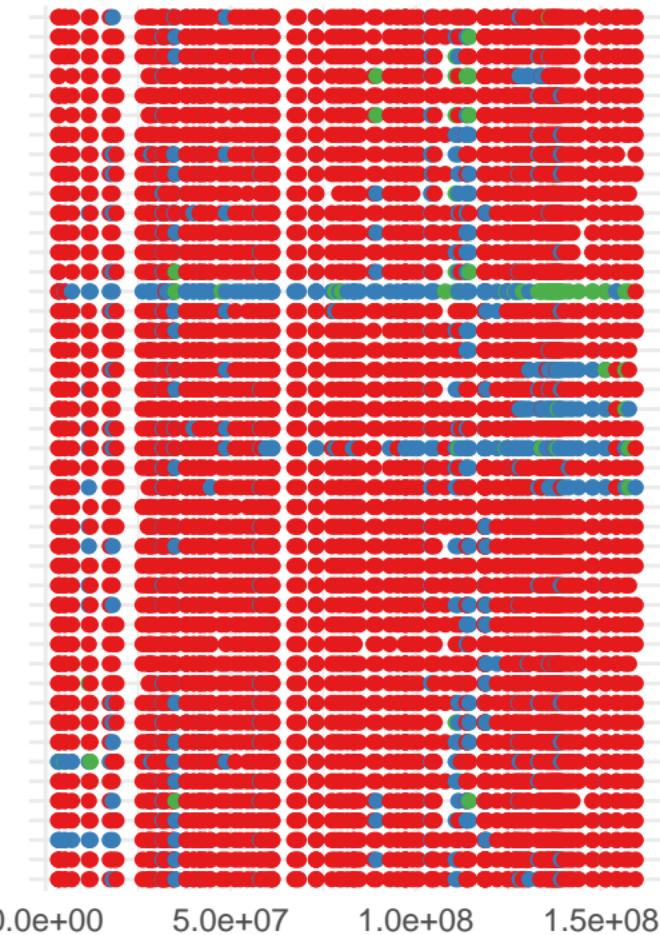
0.0e+000

5.0e+07

1.0e+08

1.5e+08

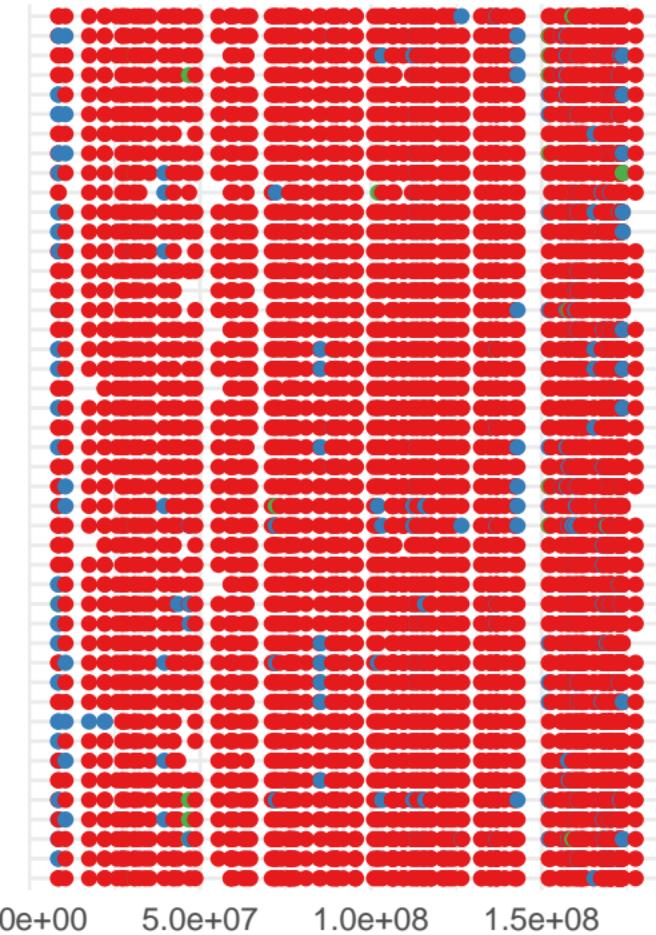
# HCC 9 HanXRQChr03



## Allelic state

- Annus
- Heterozygote
- Debilis

# HCC 9 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

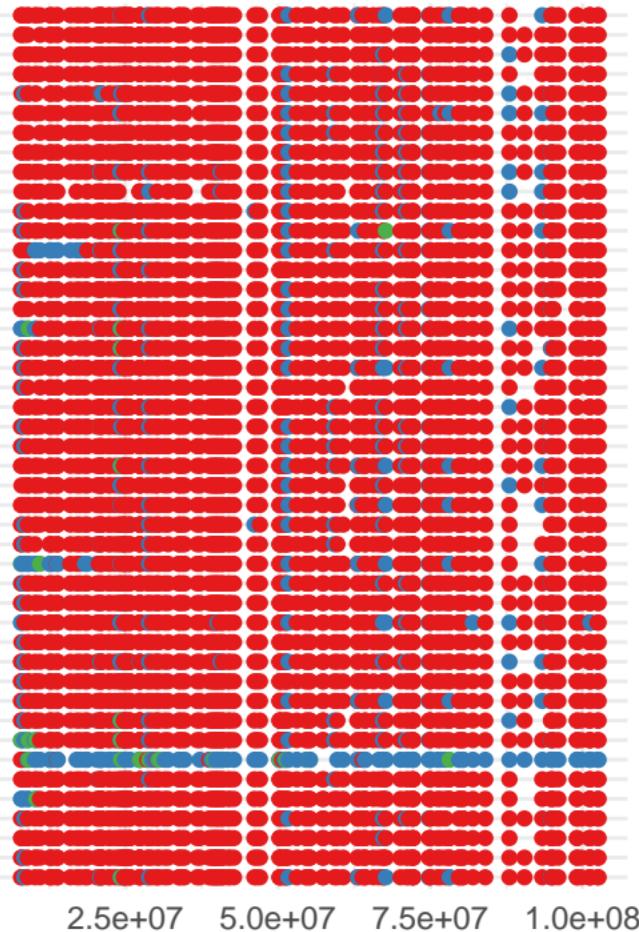
# HCC 9 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

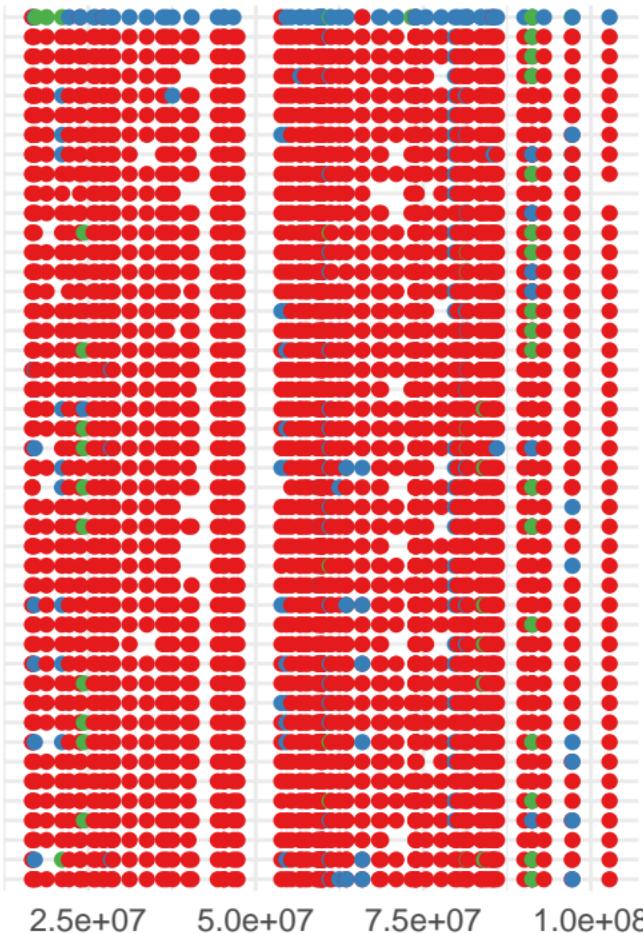
# HCC 9 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 9 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07

5.0e+07

7.5e+07

1.0e+08

# HCC 9 HanXRQChr08

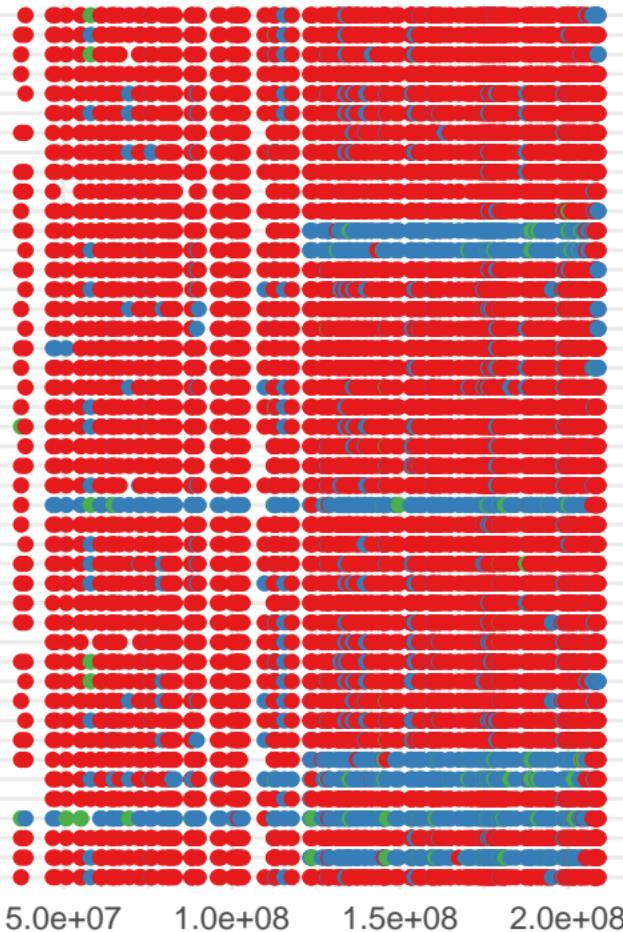


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

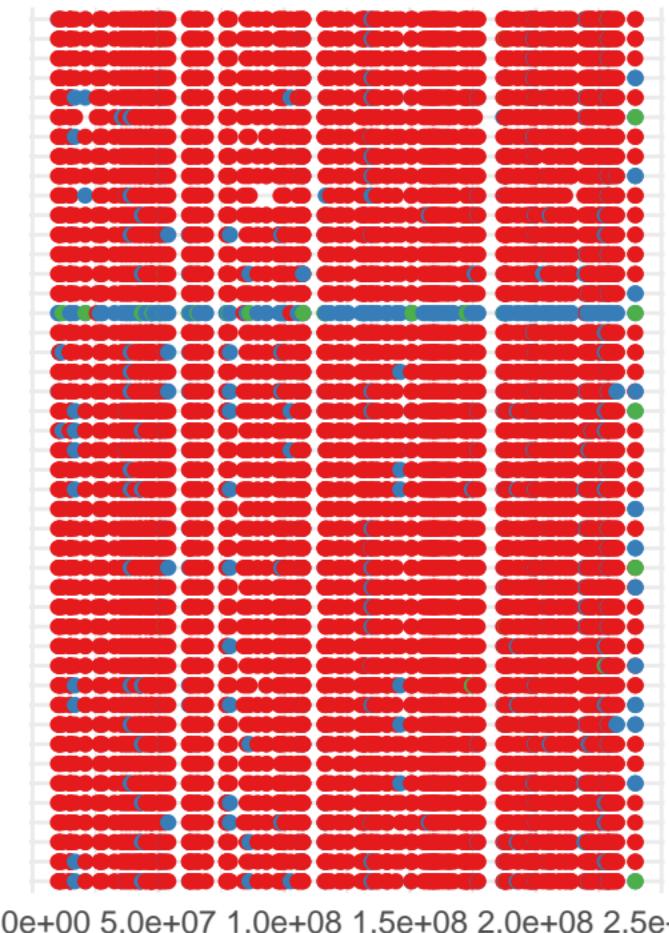
# HCC 9 HanXRQChr09



## Allelic state

- Annus
- Heterozygote
- Debilis

# HCC 9 HanXRQChr10

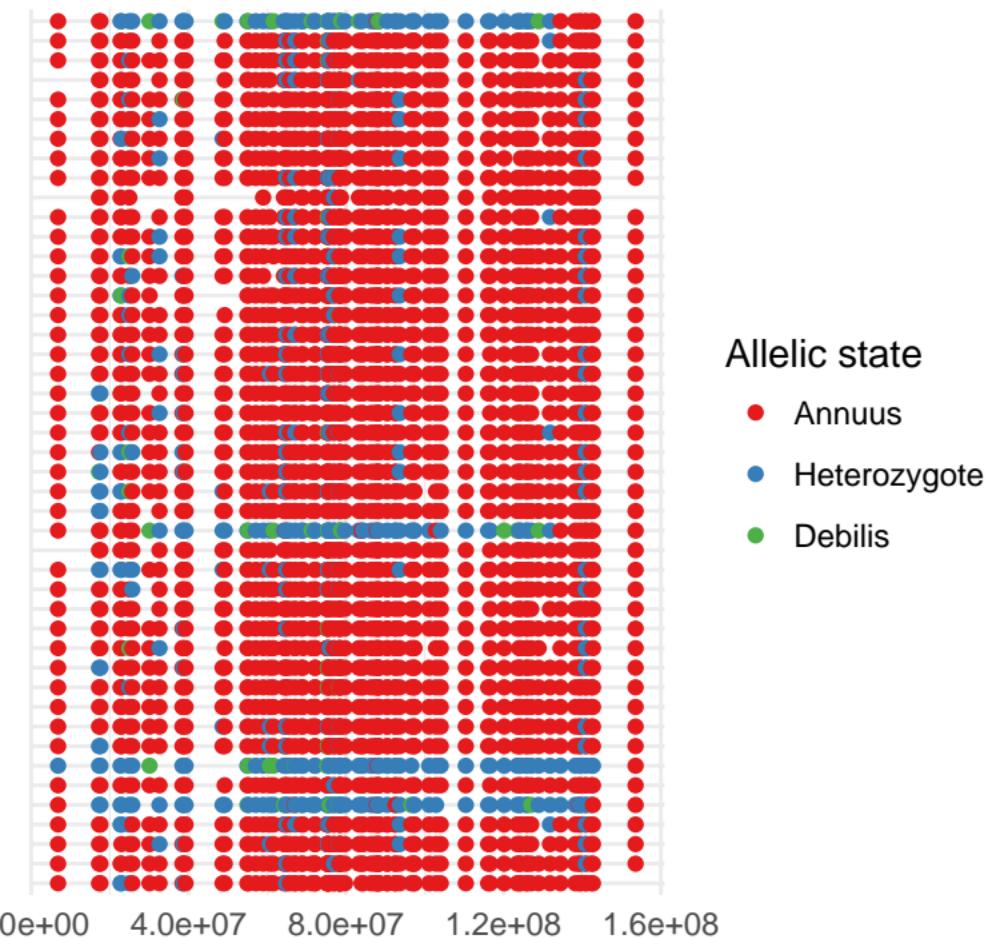


## Allelic state

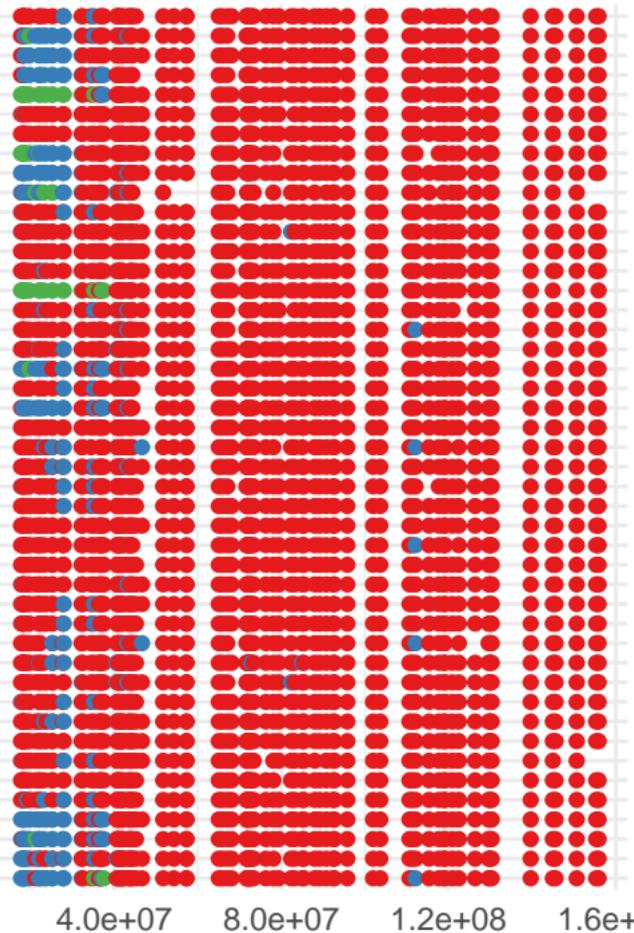
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# HCC 9 HanXRQChr11



# HCC 9 HanXRQChr12

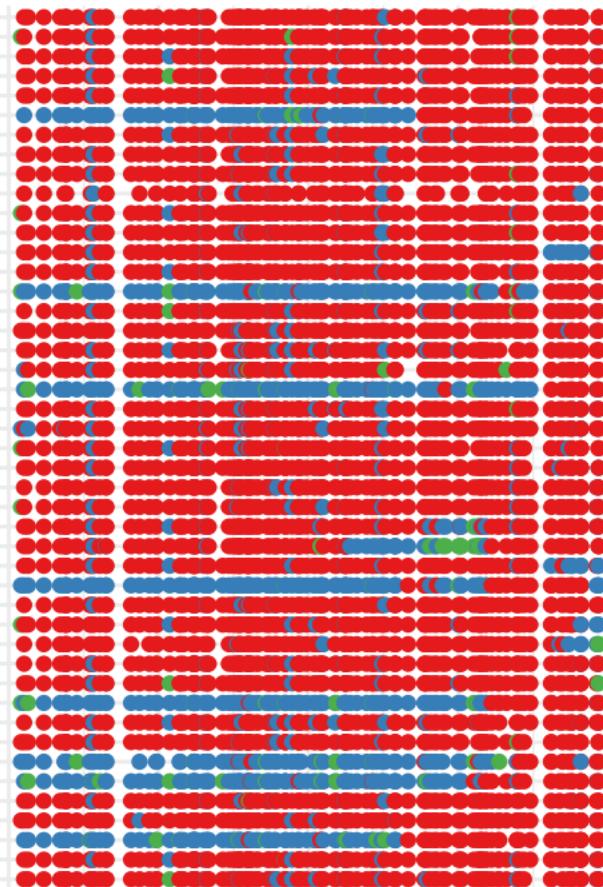


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# HCC 9 HanXRQChr13

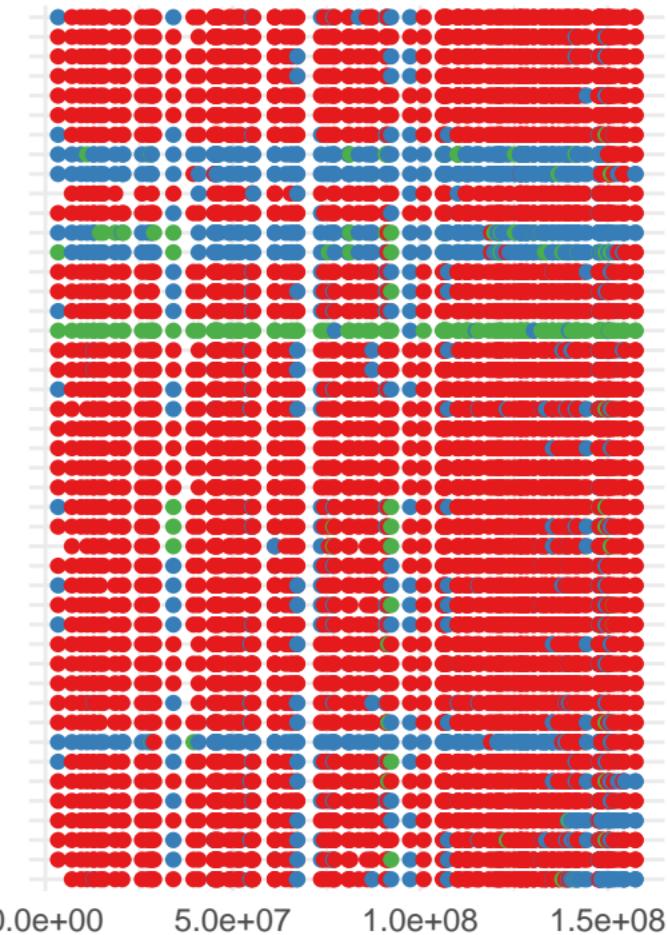


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00    5.0e+07    1.0e+08    1.5e+08    2.0e+08

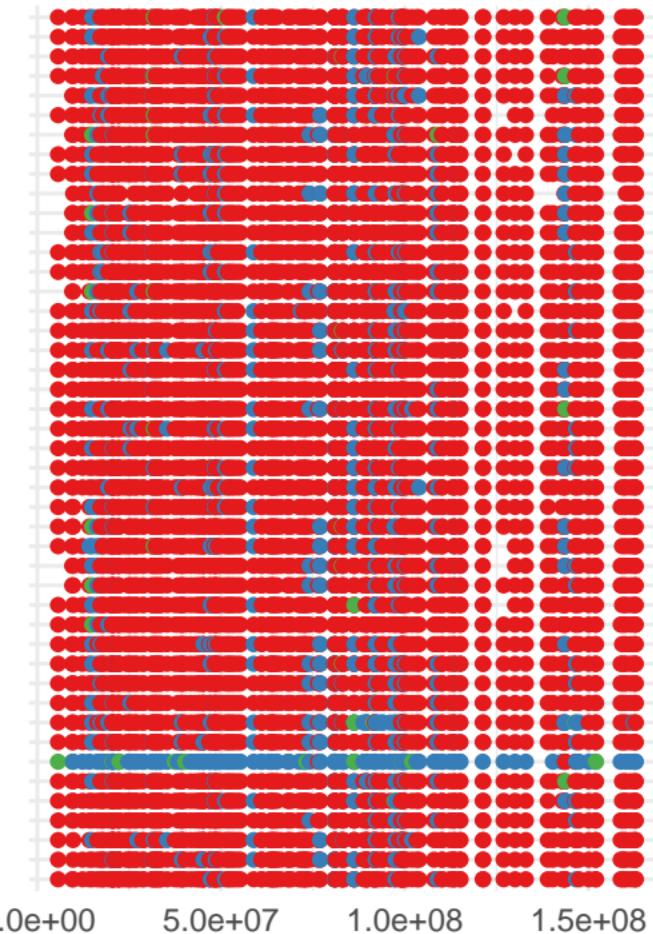
# HCC 9 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

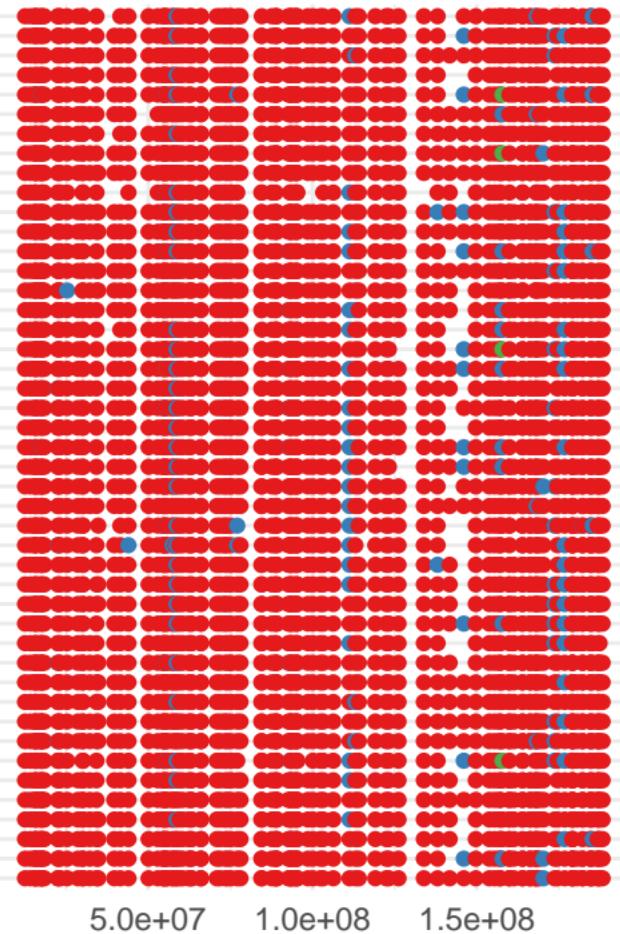
# HCC 9 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

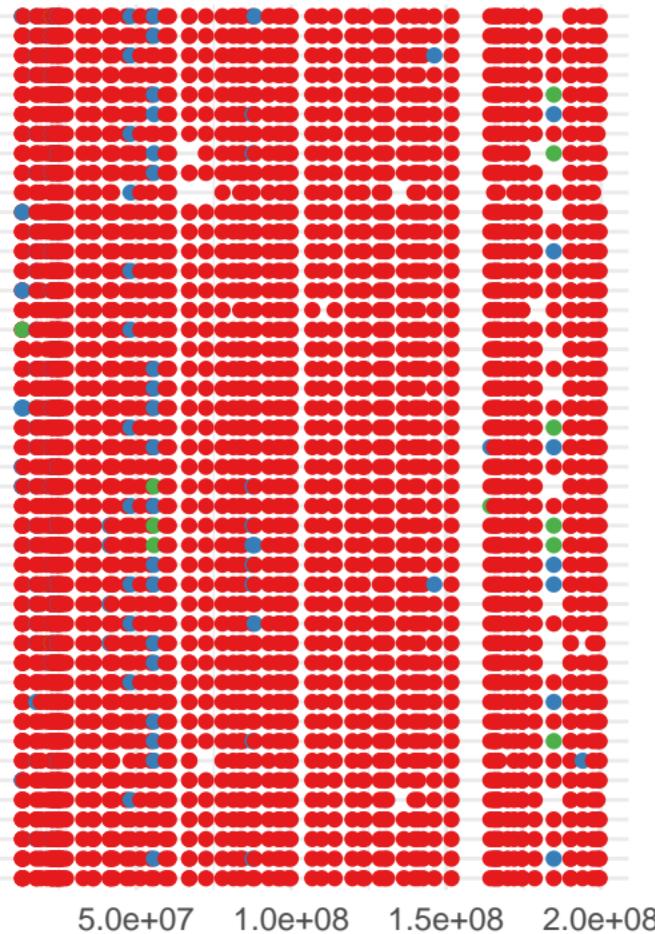
# HCC 9 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# HCC 9 HanXRQChr17

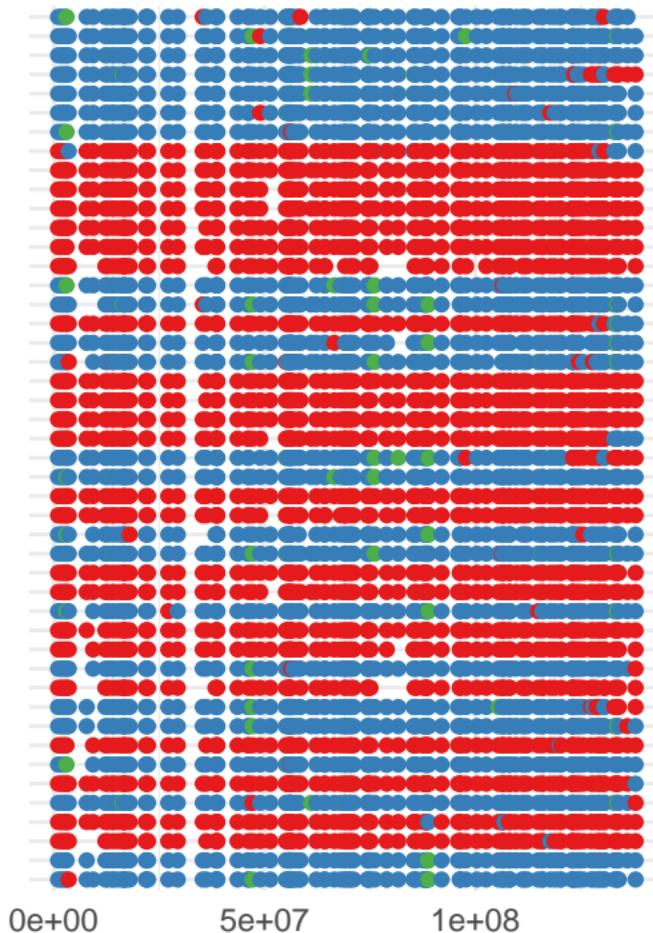


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

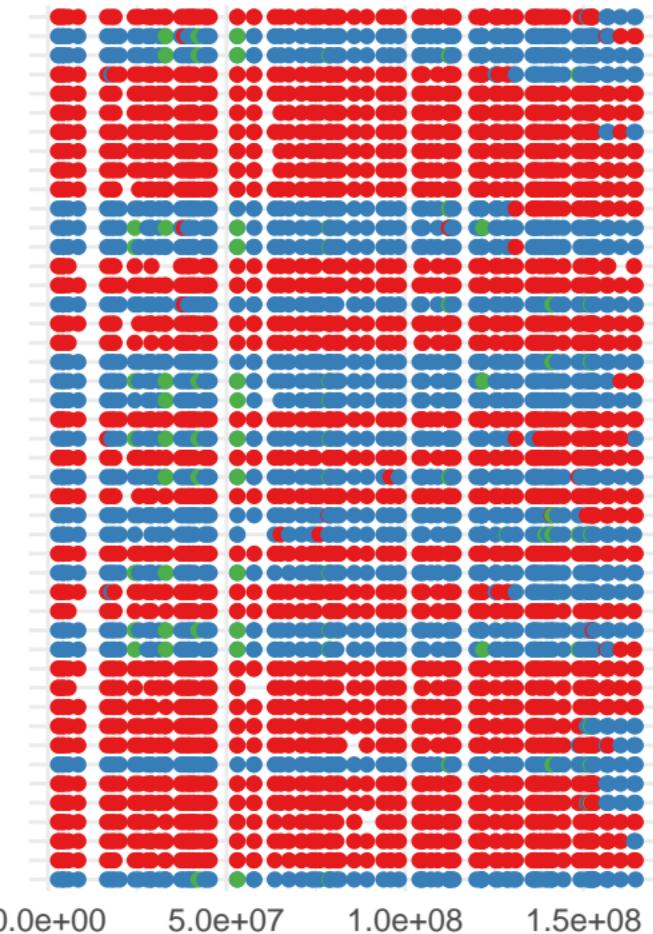
# KPC 1 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

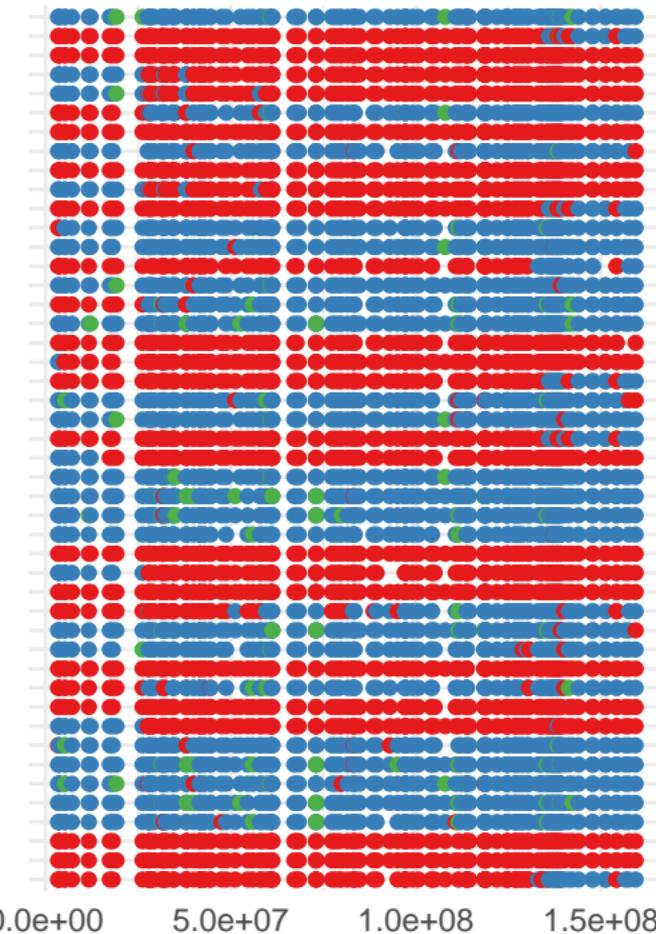
# KPC 1 HanXRQChr02



## Allelic state

- Annus
- Heterozygote
- Debilis

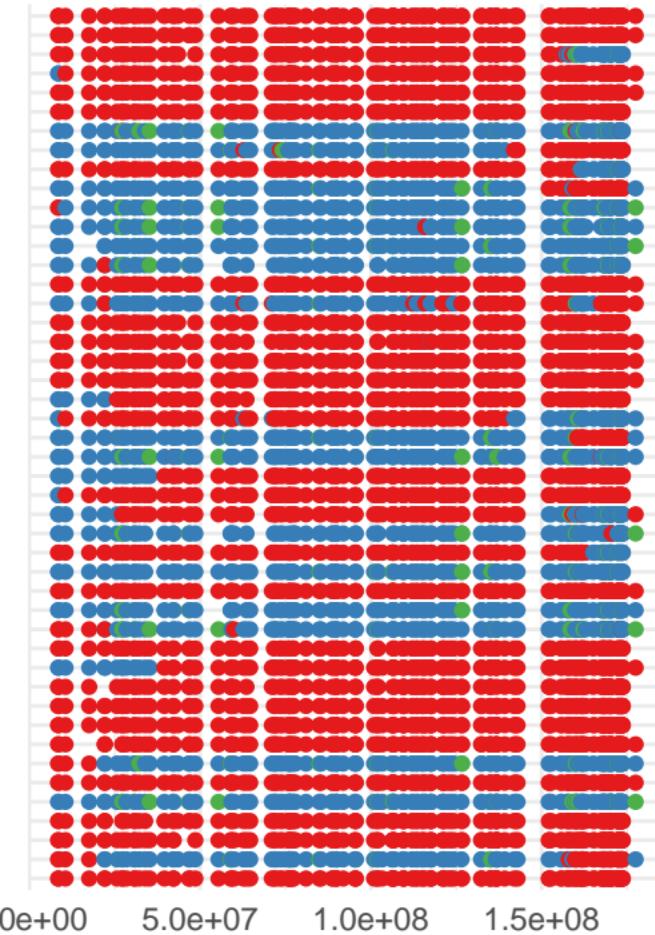
# KPC 1 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 1 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 1 HanXRQChr05

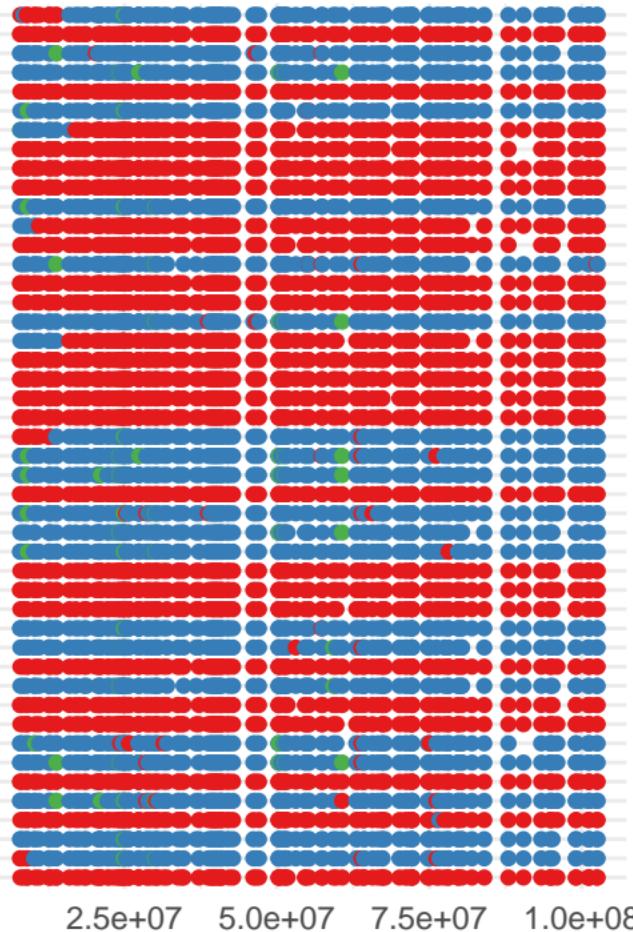


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# KPC 1 HanXRQChr06

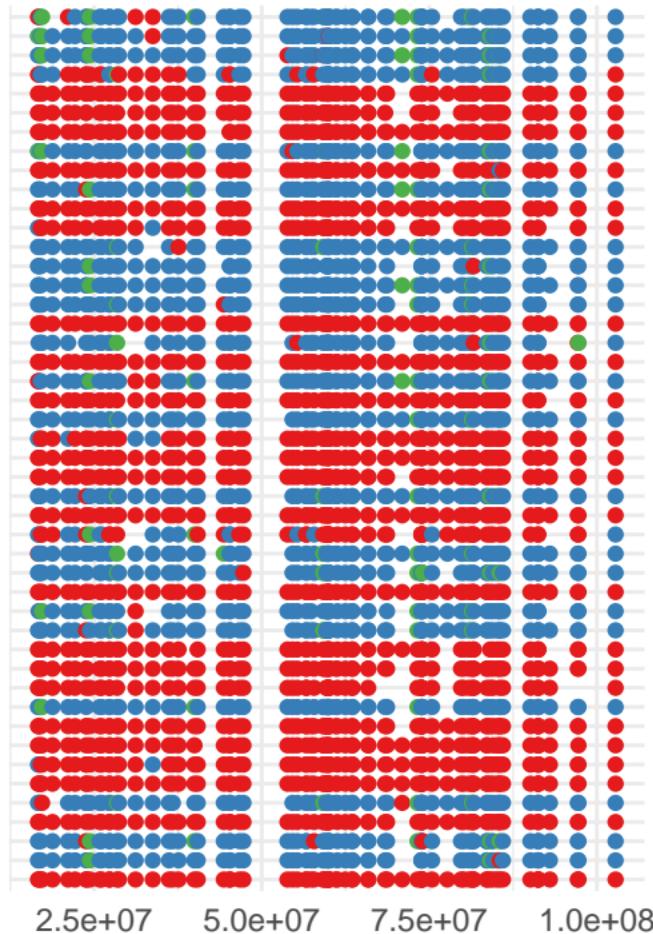


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# KPC 1 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

$2.5\text{e}+07$

$5.0\text{e}+07$

$7.5\text{e}+07$

$1.0\text{e}+08$

# KPC 1 HanXRQChr08

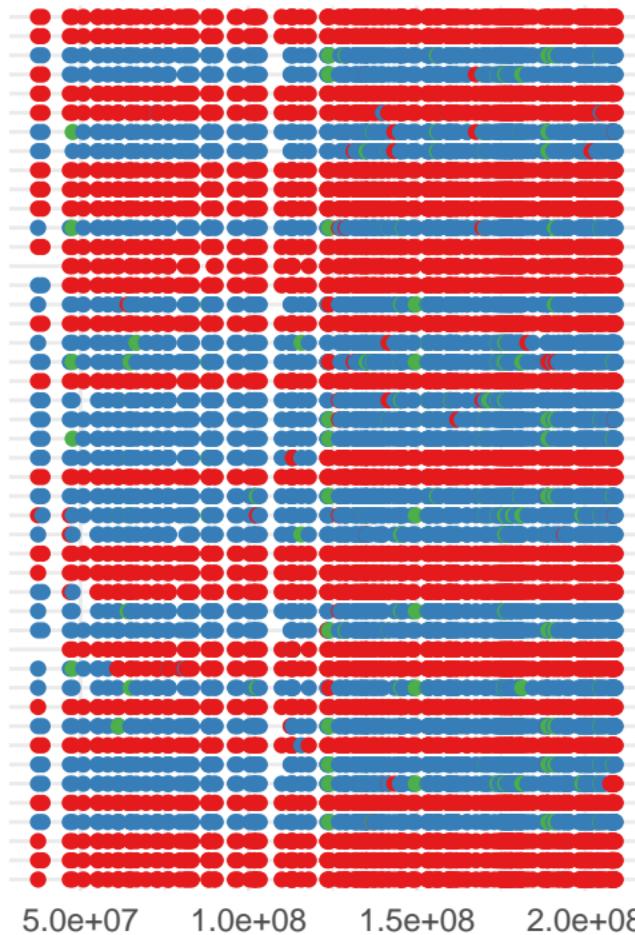


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# KPC 1 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

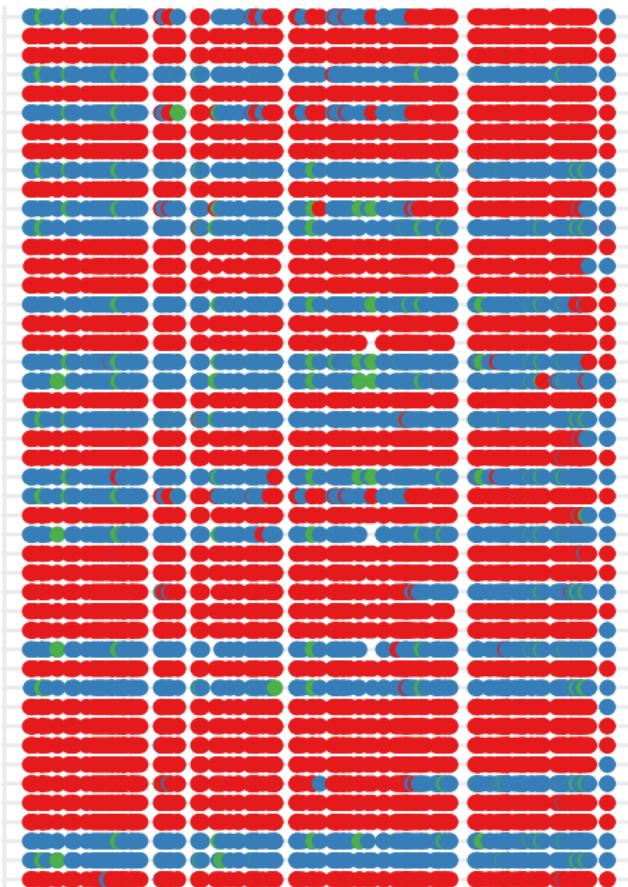
5.0e+07

1.0e+08

1.5e+08

2.0e+08

# KPC 1 HanXRQChr10

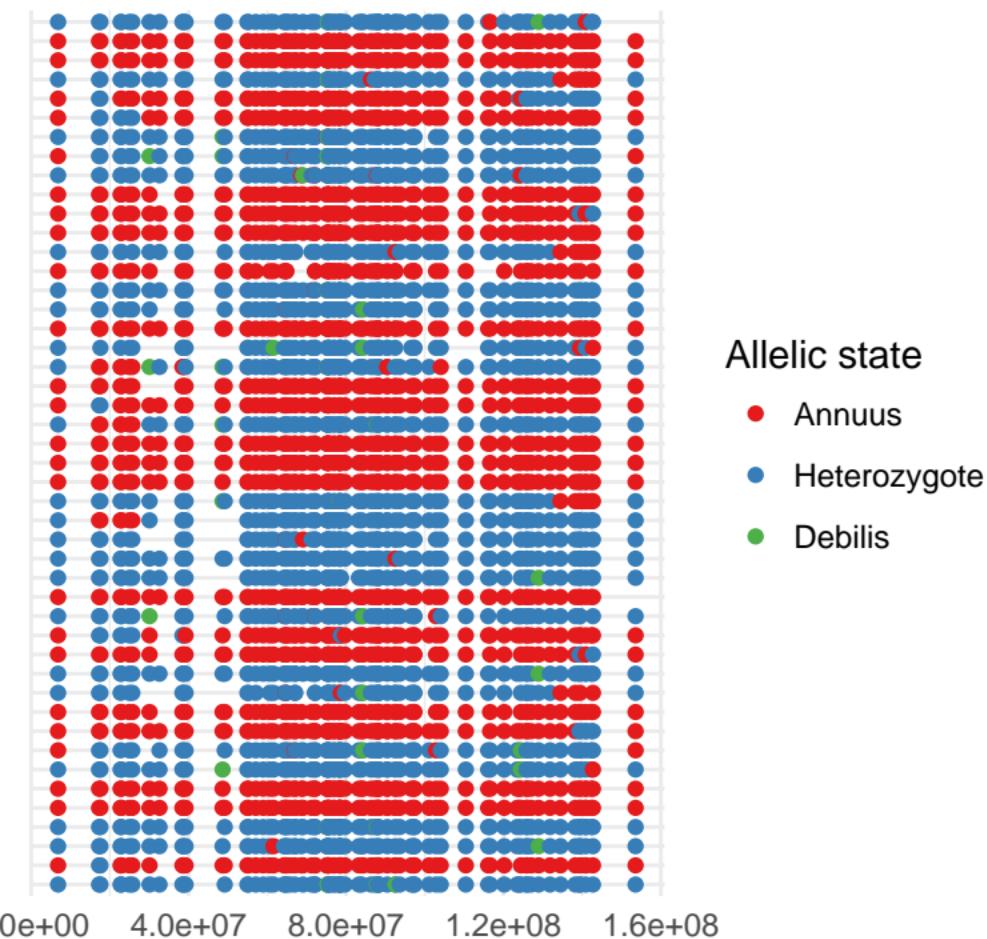


## Allelic state

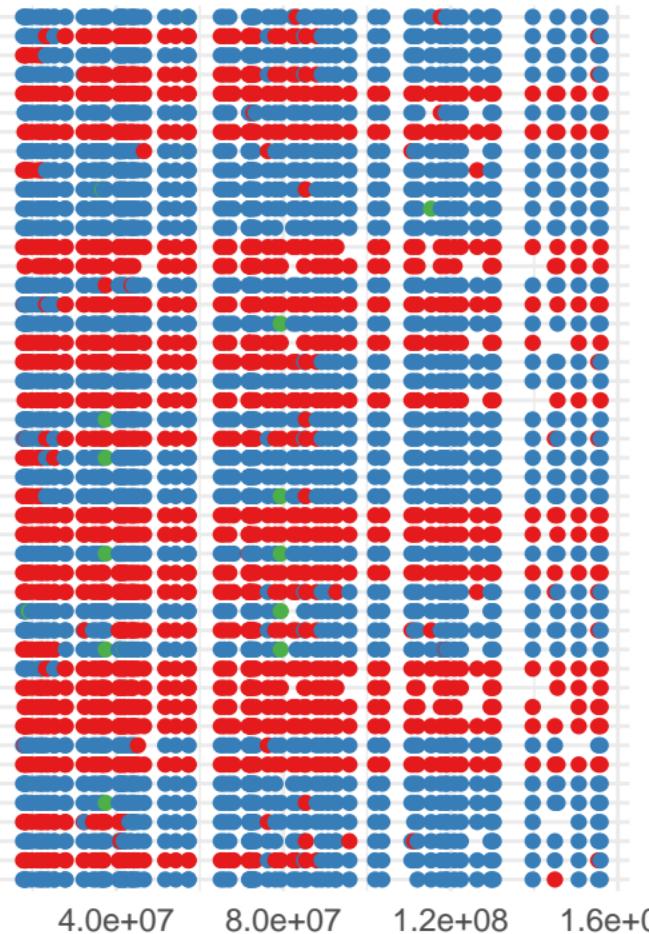
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# KPC 1 HanXRQChr11



# KPC 1 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

$4.0 \times 10^7$

$8.0 \times 10^7$

$1.2 \times 10^8$

$1.6 \times 10^8$

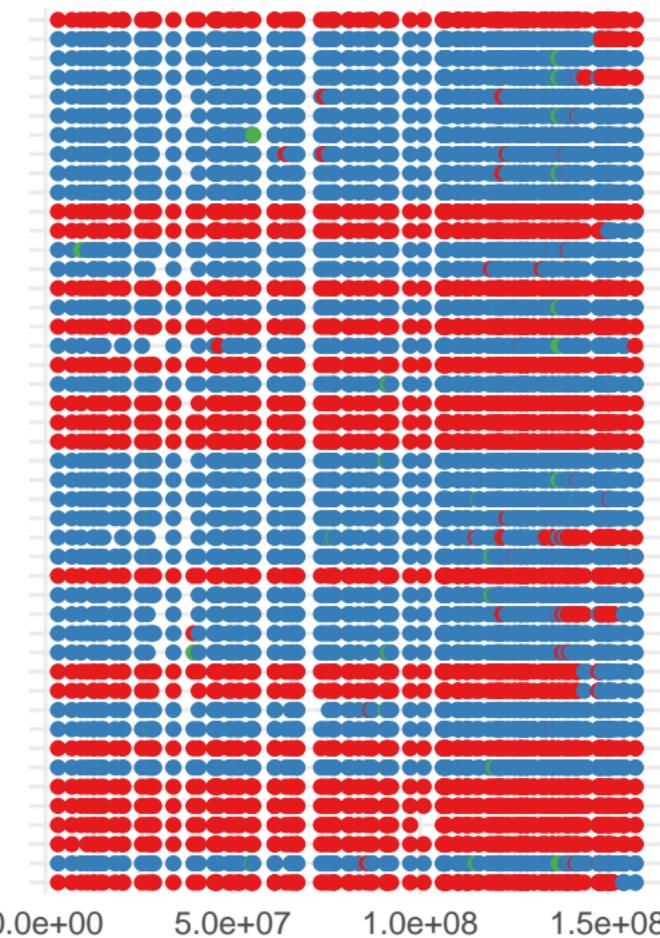
# KPC 1 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

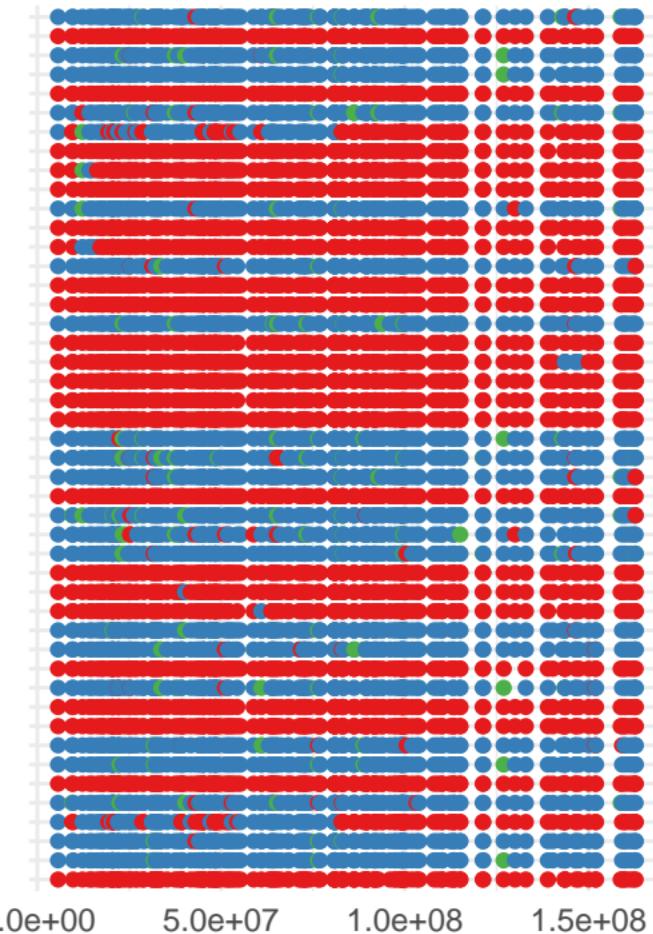
# KPC 1 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

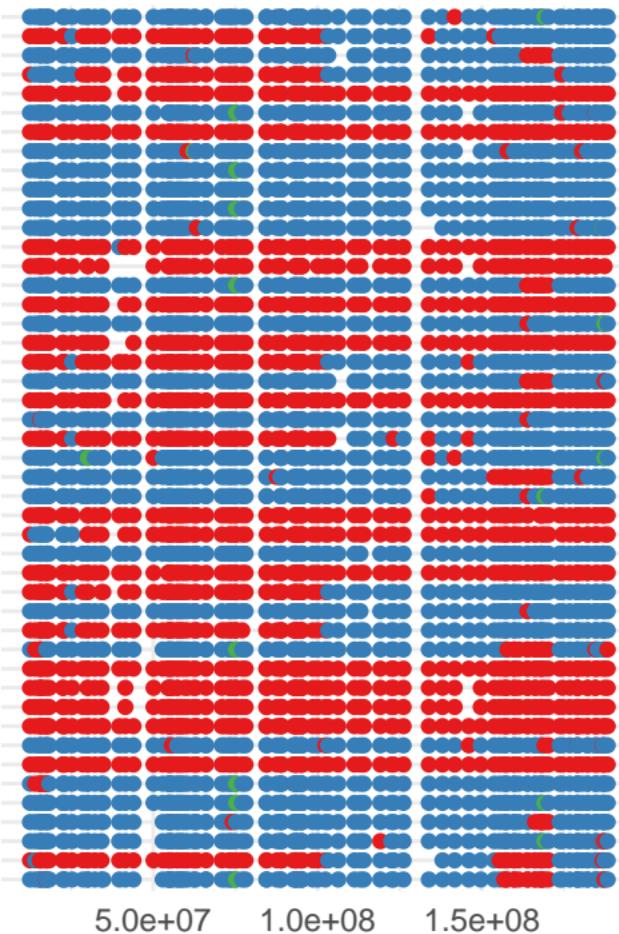
# KPC 1 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 1 HanXRQChr16

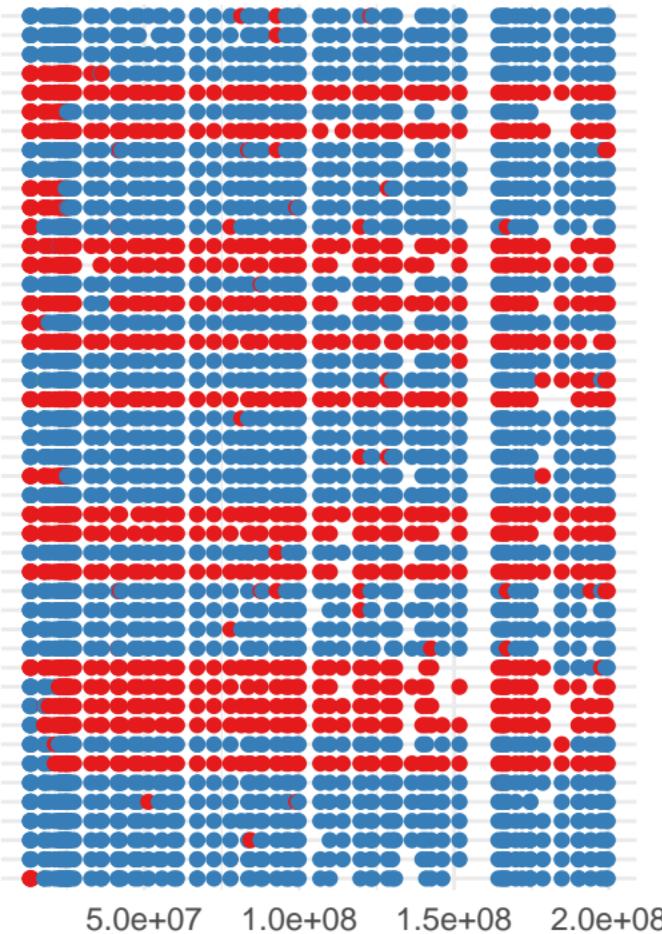


## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

5.0e+07    1.0e+08    1.5e+08

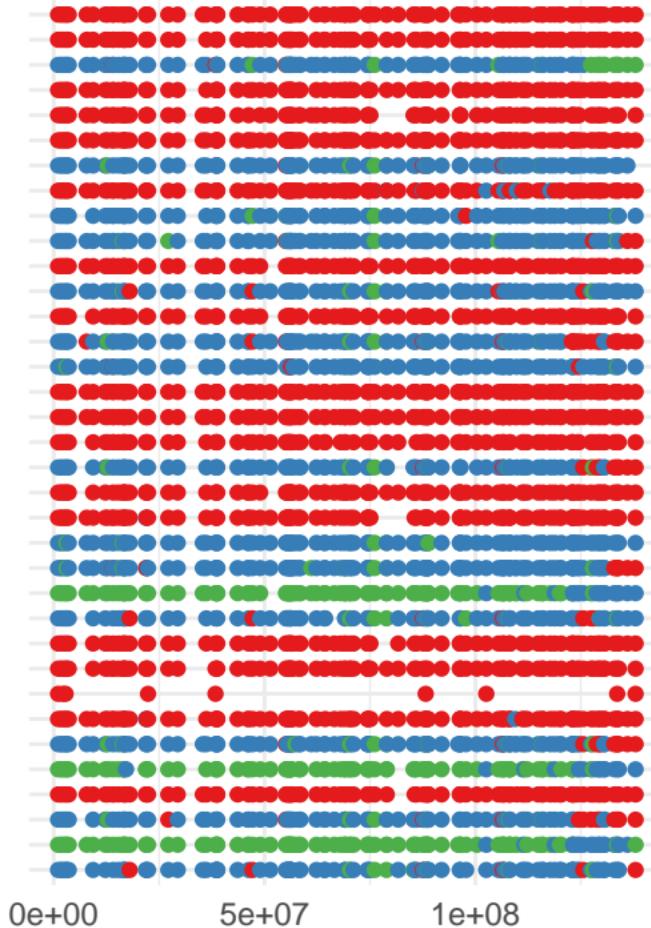
# KPC 1 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

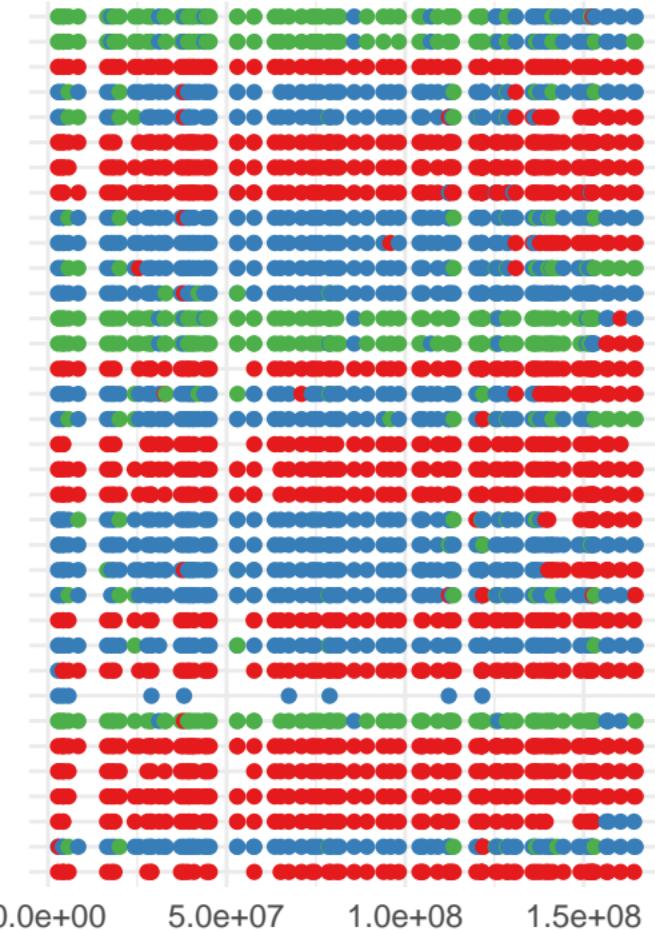
# KPC 2 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 2 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00

5.0e+07

1.0e+08

1.5e+08

# KPC 2 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 2 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 2 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# KPC 2 HanXRQChr06

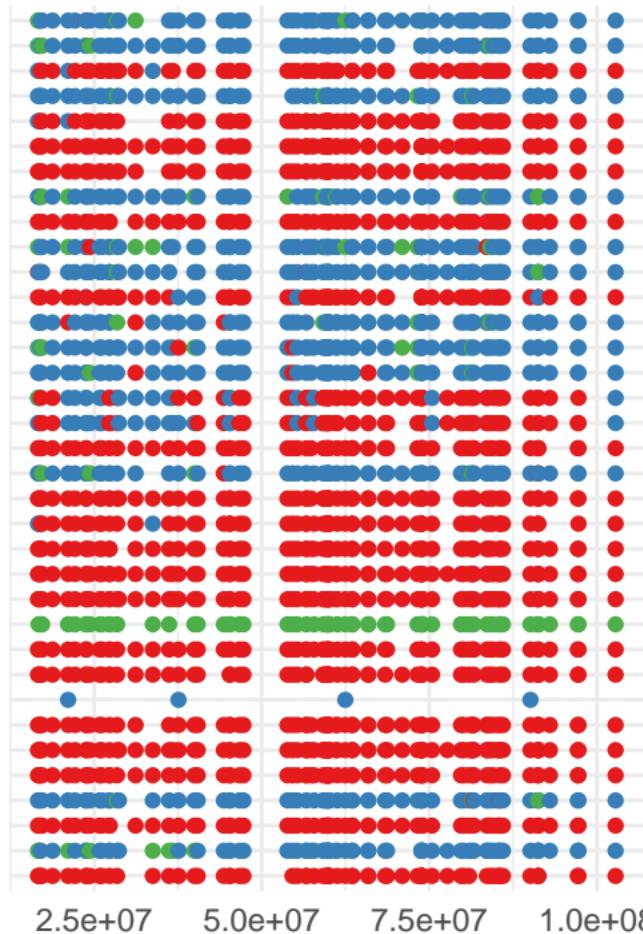


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# KPC 2 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# KPC 2 HanXRQChr08

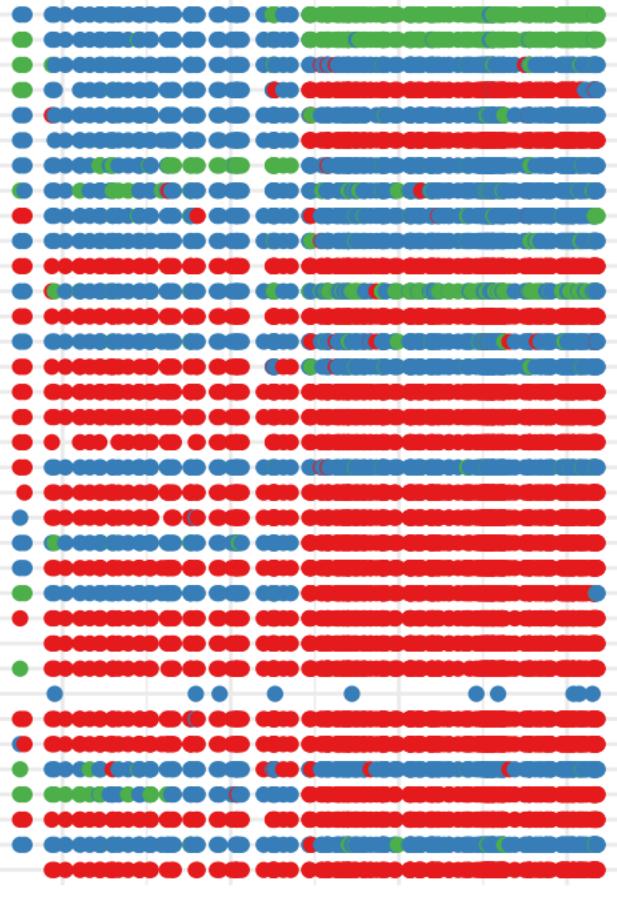


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# KPC 2 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# KPC 2 HanXRQChr10

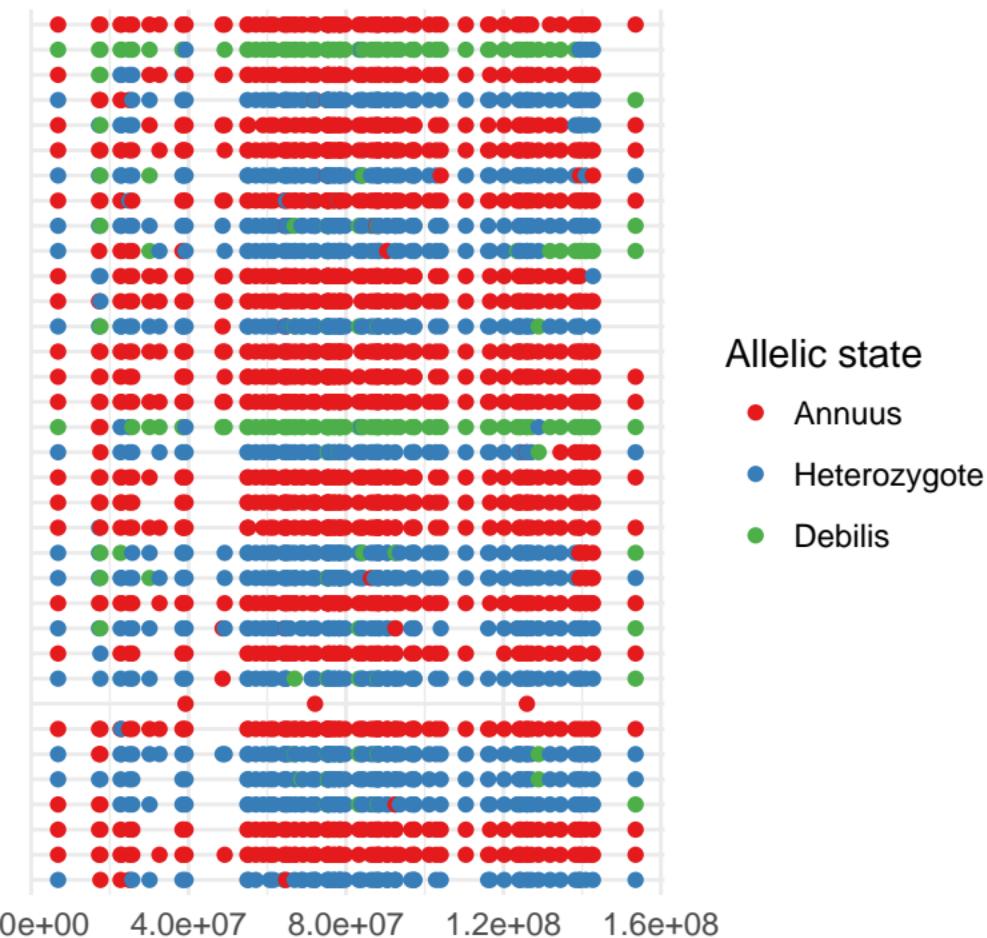


## Allelic state

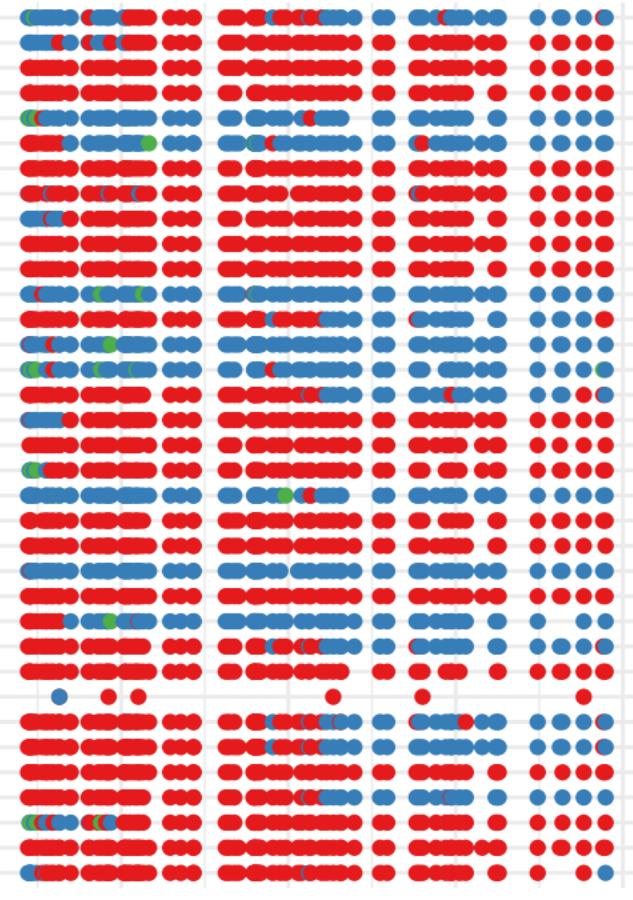
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# KPC 2 HanXRQChr11



# KPC 2 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# KPC 2 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 2 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00

5.0e+07

1.0e+08

1.5e+08

# KPC 2 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 2 HanXRQChr16

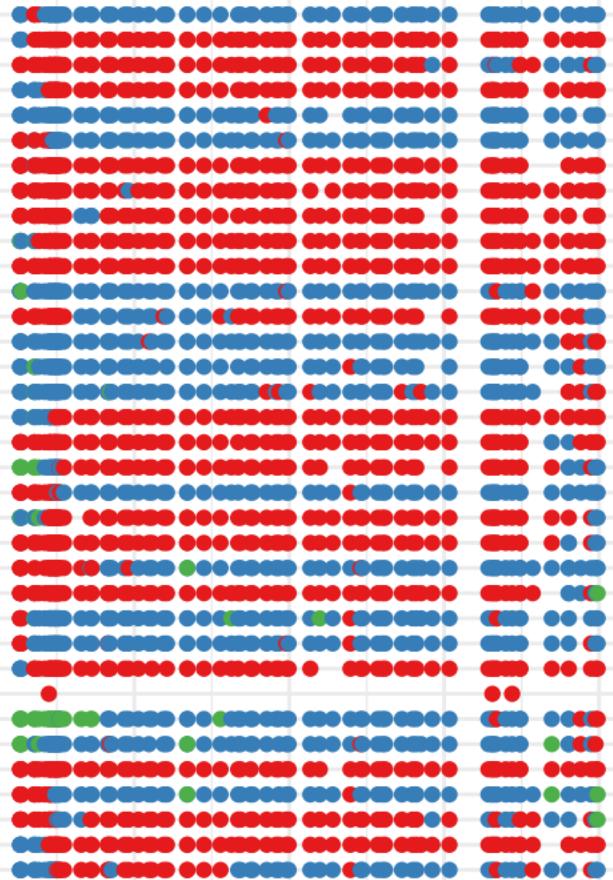


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# KPC 2 HanXRQChr17

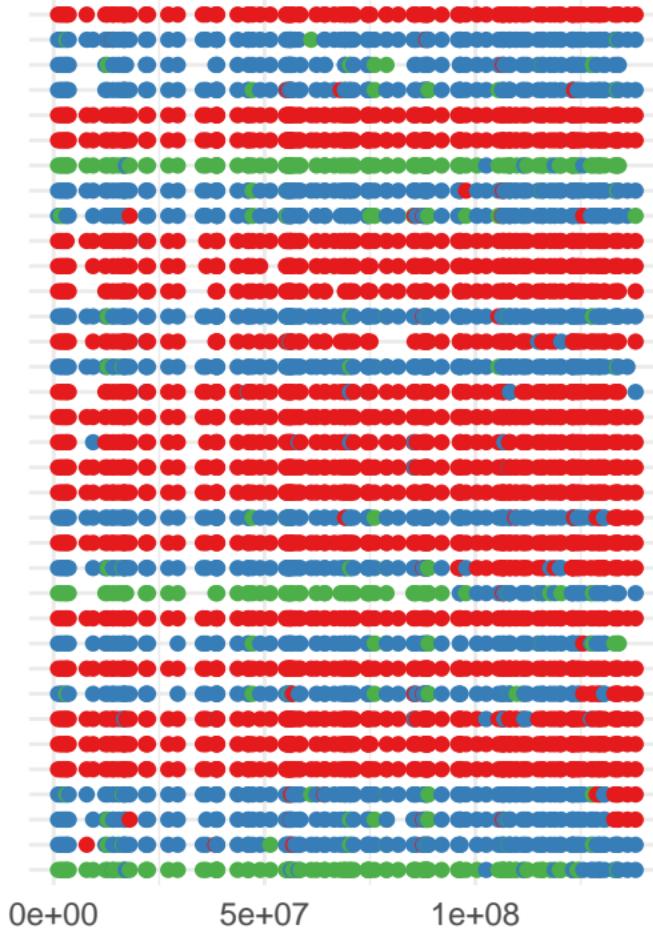


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# KPC 3 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 3 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 3 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 3 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 3 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# KPC 3 HanXRQChr06

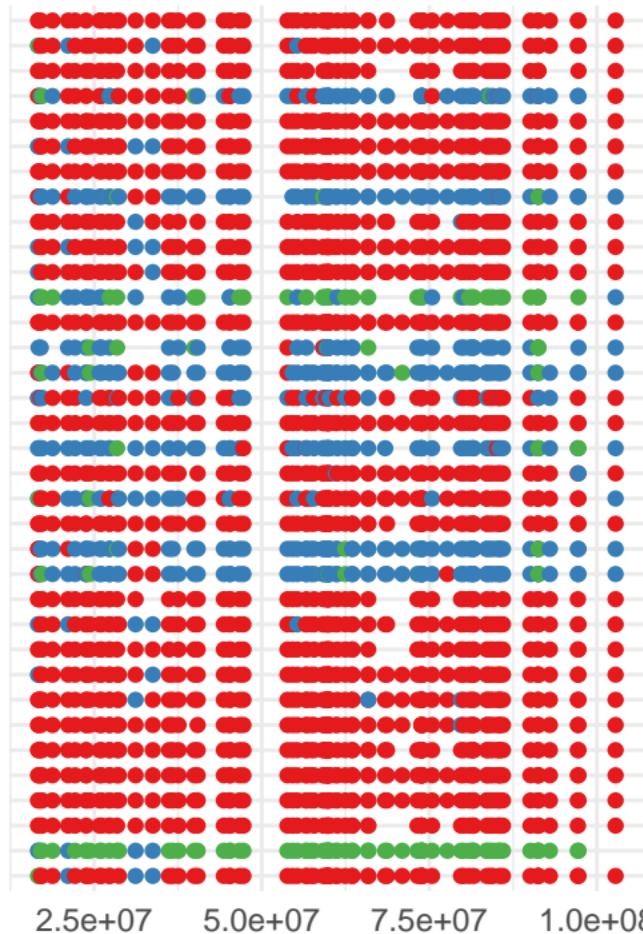


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07 5.0e+07 7.5e+07 1.0e+08

# KPC 3 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# KPC 3 HanXRQChr08

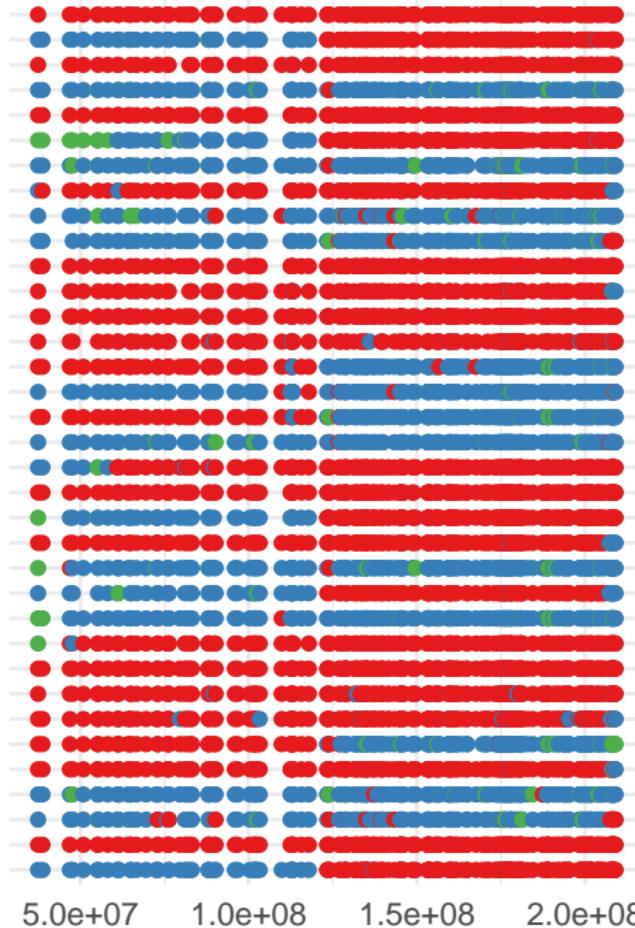


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# KPC 3 HanXRQChr09

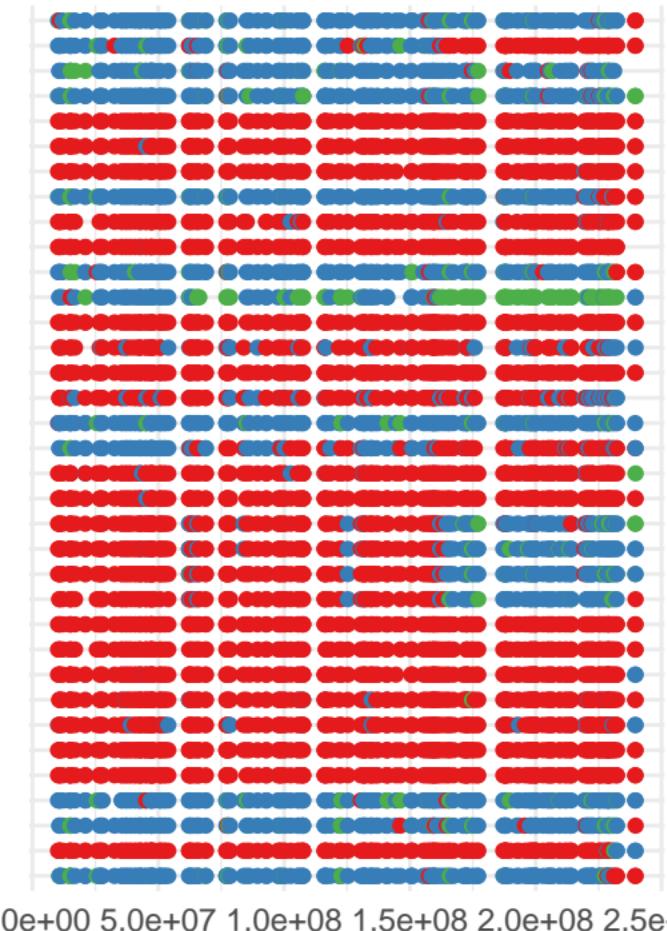


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# KPC 3 HanXRQChr10

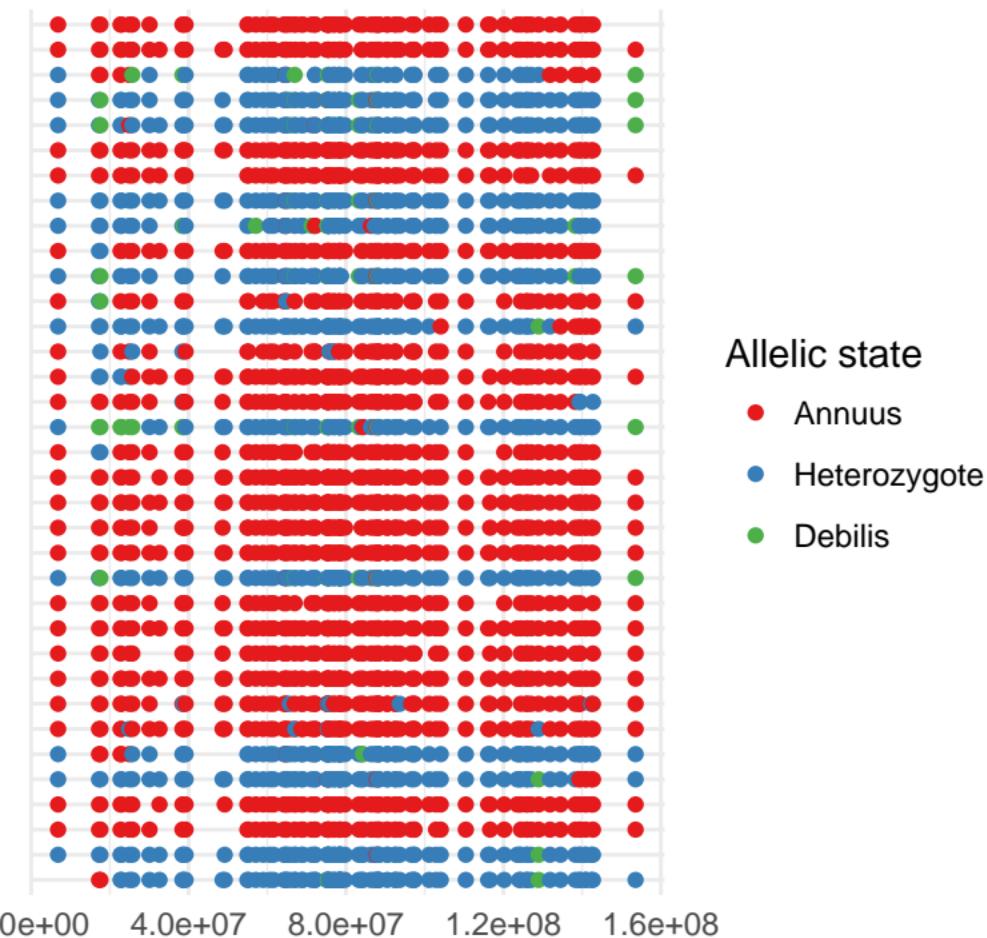


## Allelic state

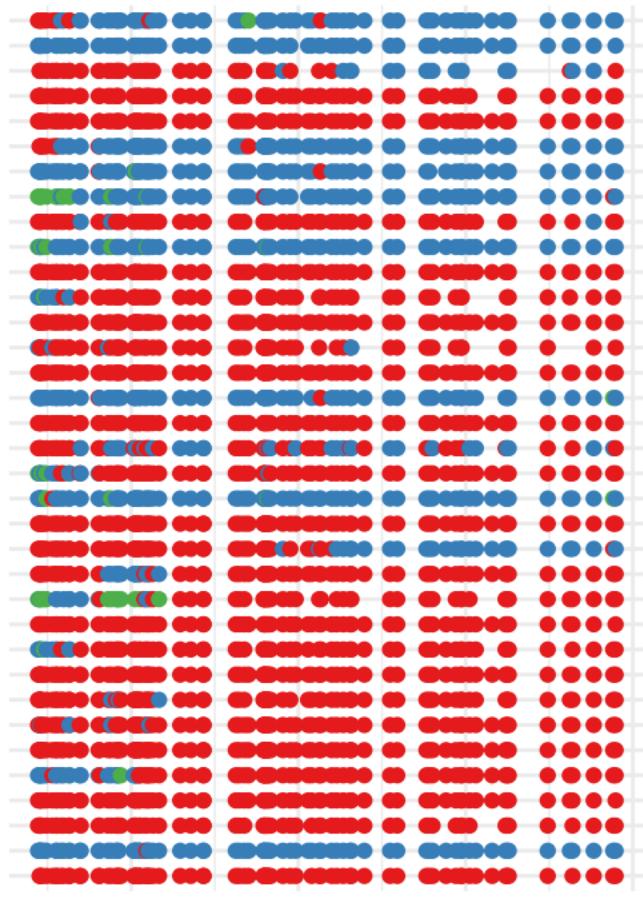
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# KPC 3 HanXRQChr11



# KPC 3 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

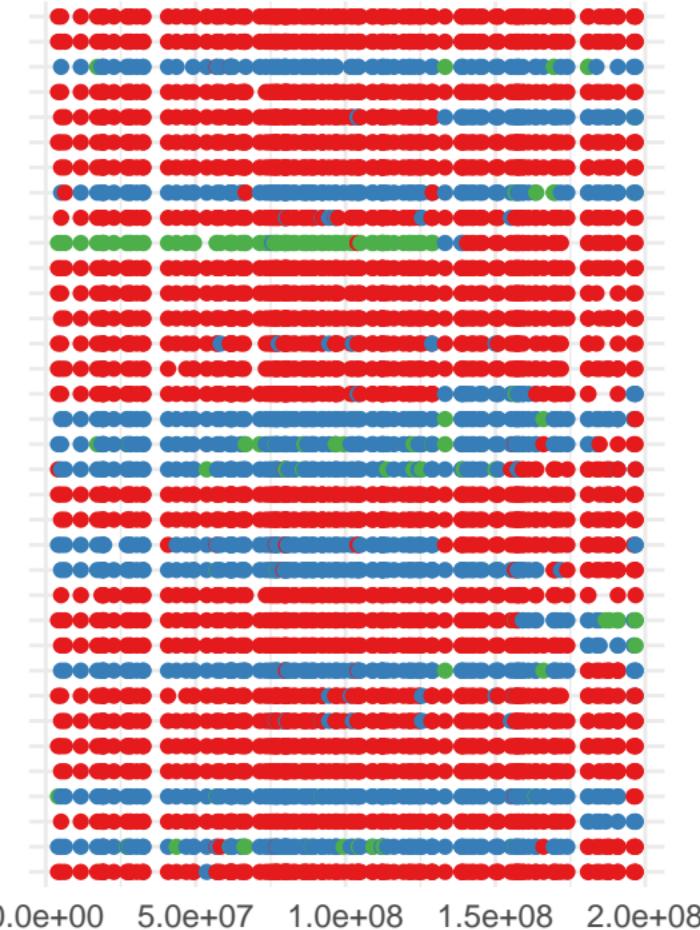
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# KPC 3 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

# KPC 3 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

# KPC 3 HanXRQChr15



# KPC 3 HanXRQChr16

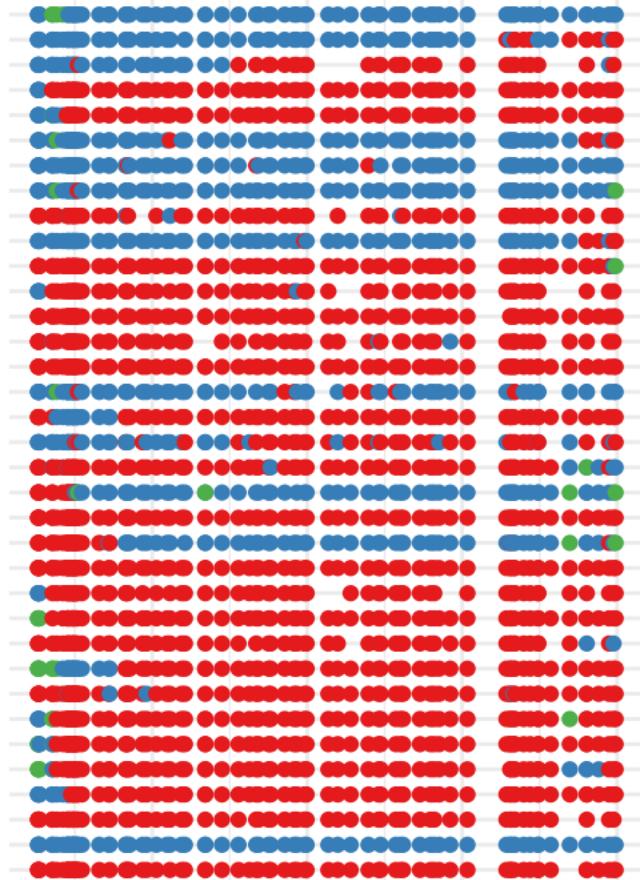


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# KPC 3 HanXRQChr17

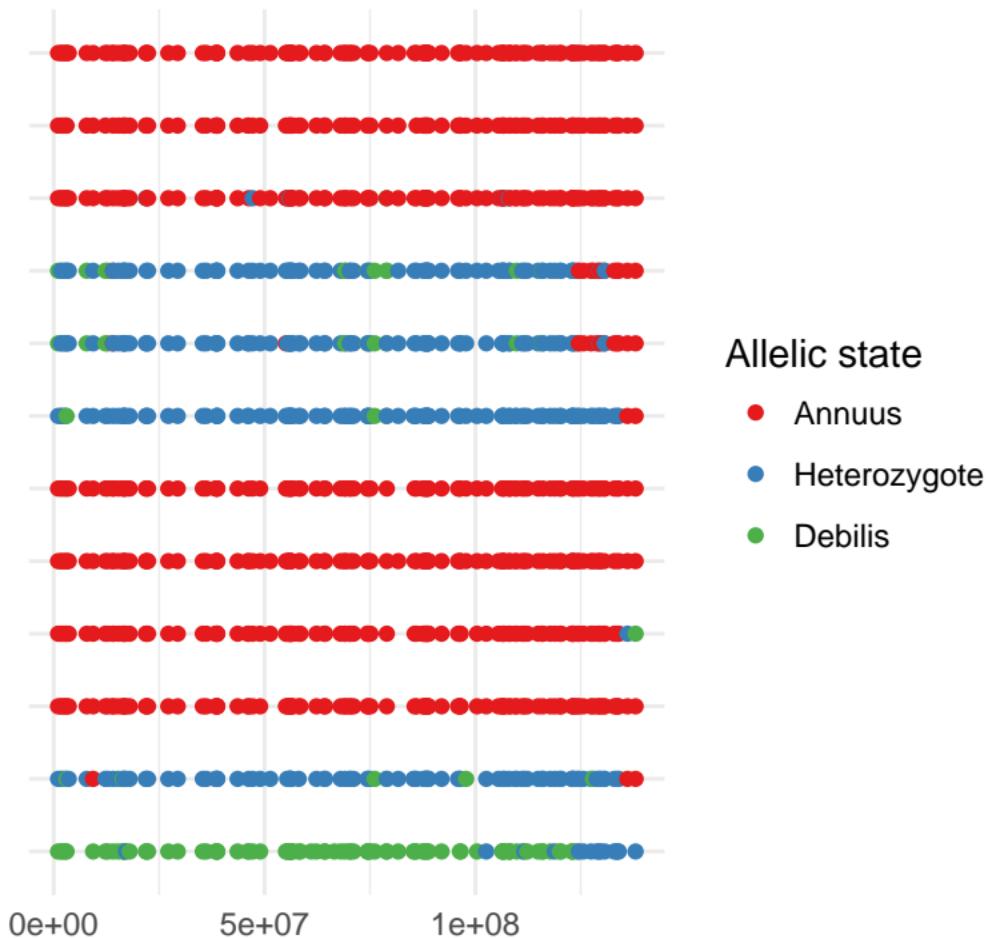


## Allelic state

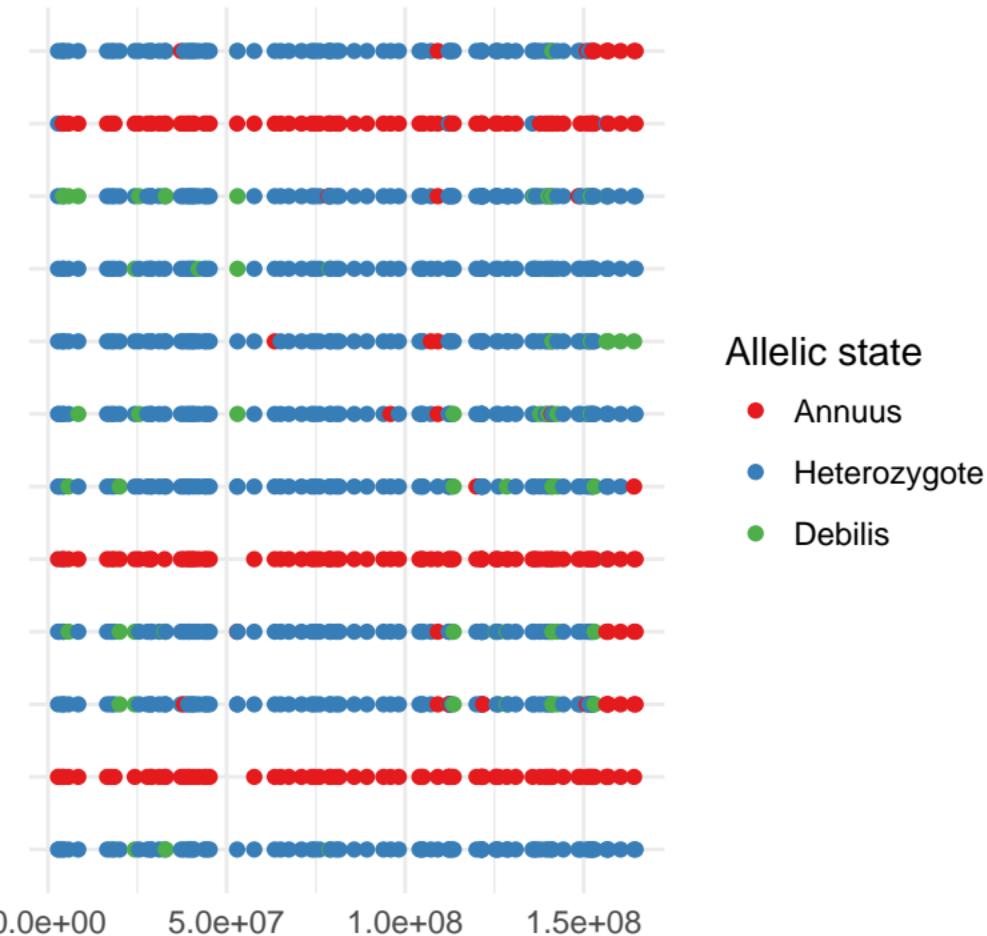
- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

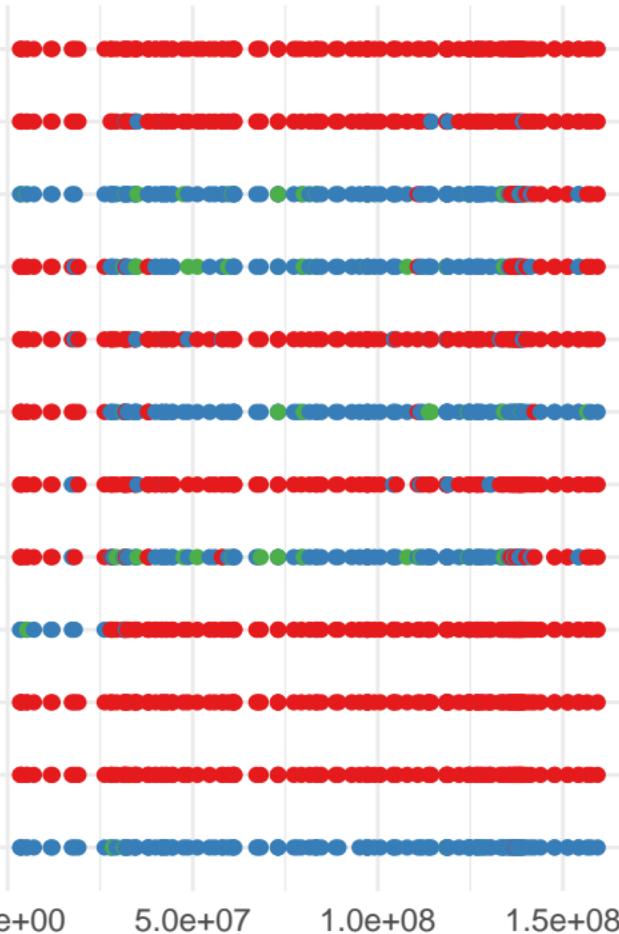
# KPC 4 HanXRQChr01



# KPC 4 HanXRQChr02



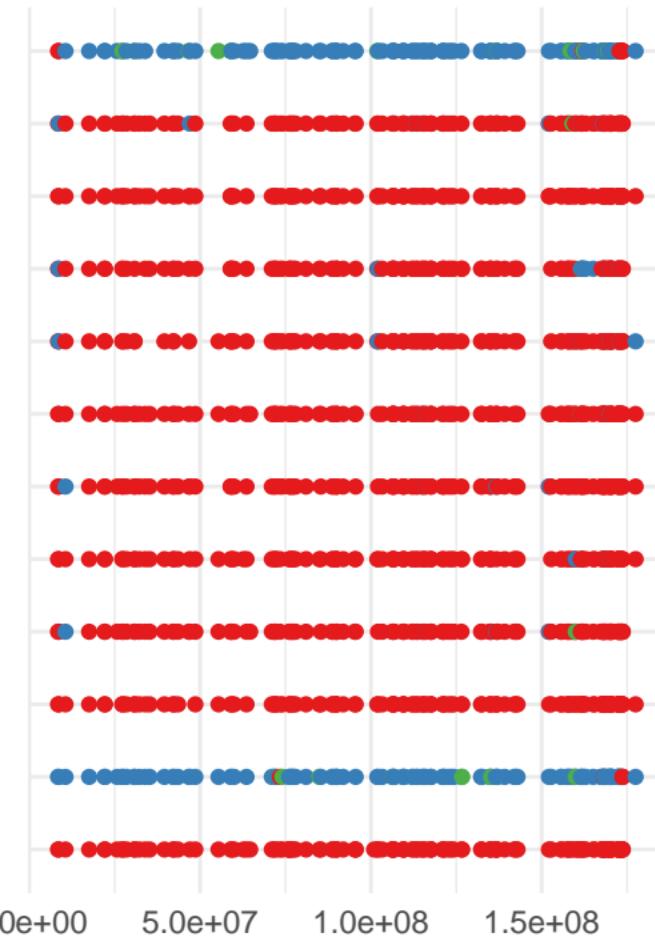
# KPC 4 HanXRQChr03



## Allelic state

- Annus
- Heterozygote
- Debilis

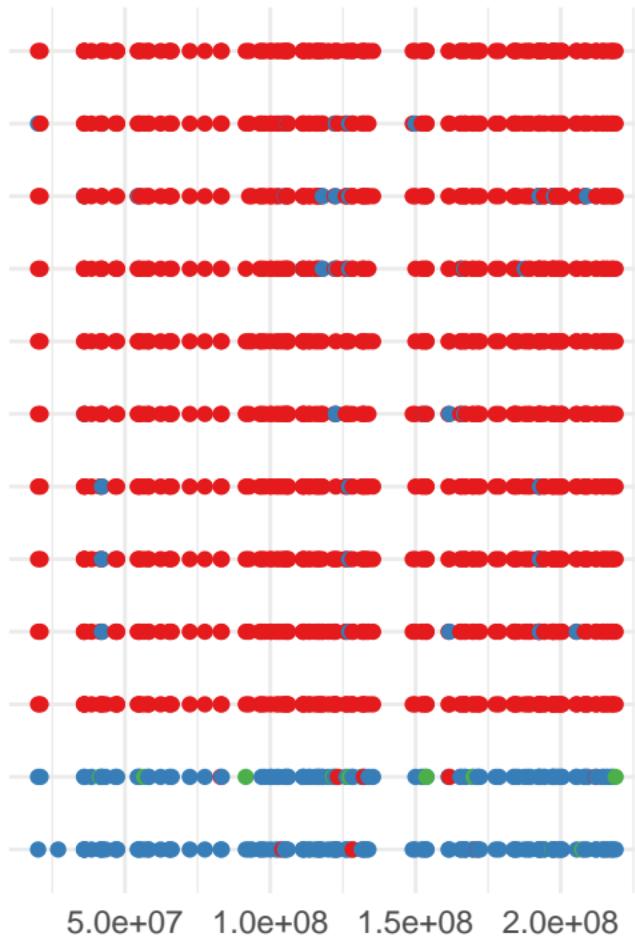
# KPC 4 HanXRQChr04



## Allelic state

- Annus
- Heterozygote
- Debilis

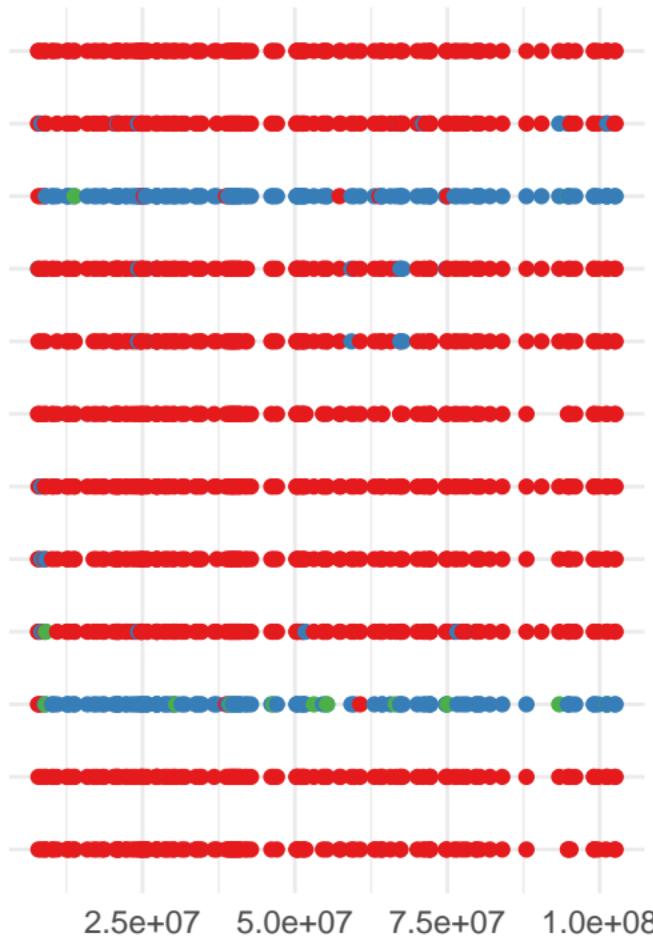
# KPC 4 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

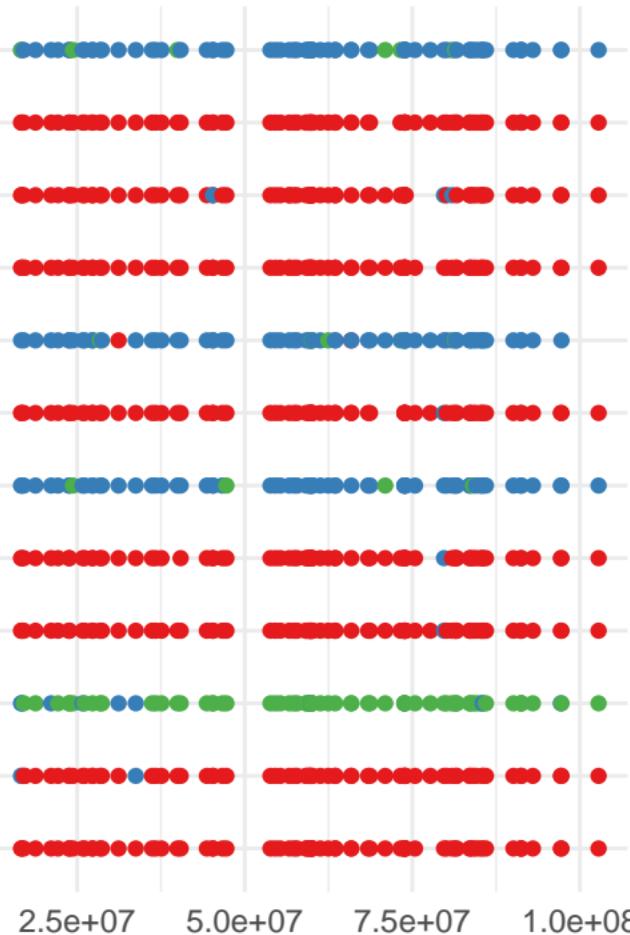
# KPC 4 HanXRQChr06



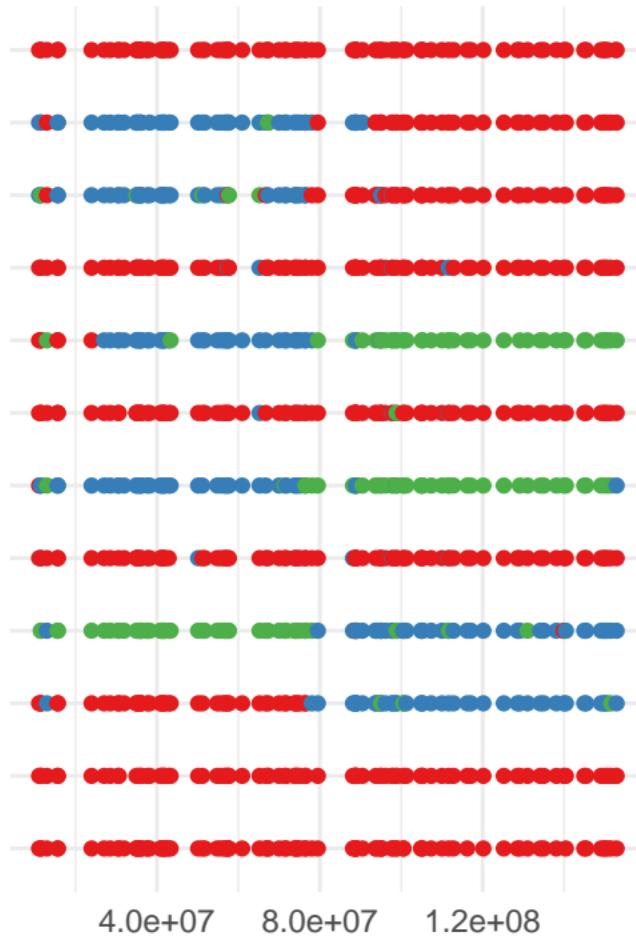
## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 4 HanXRQChr07



# KPC 4 HanXRQChr08

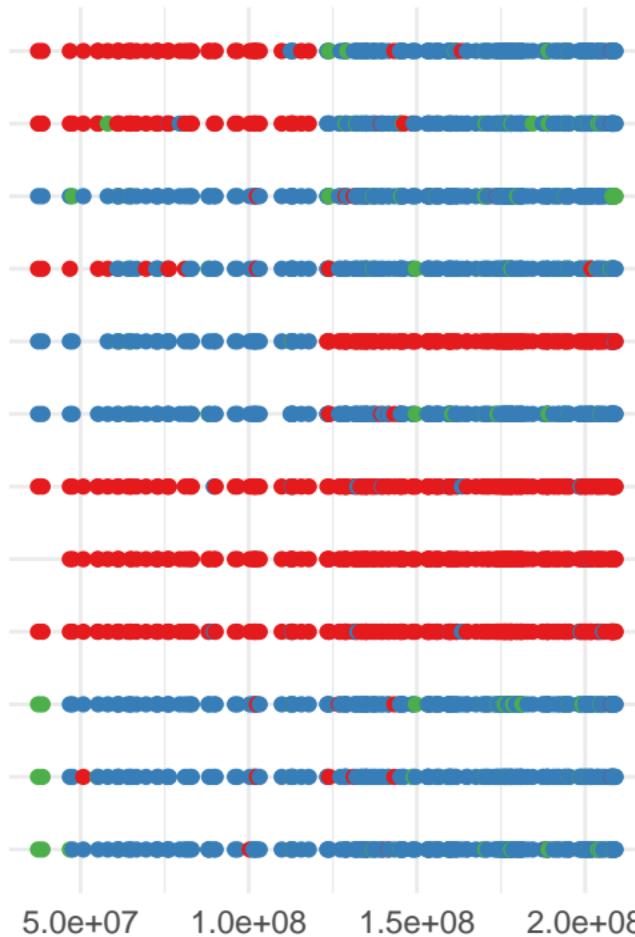


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

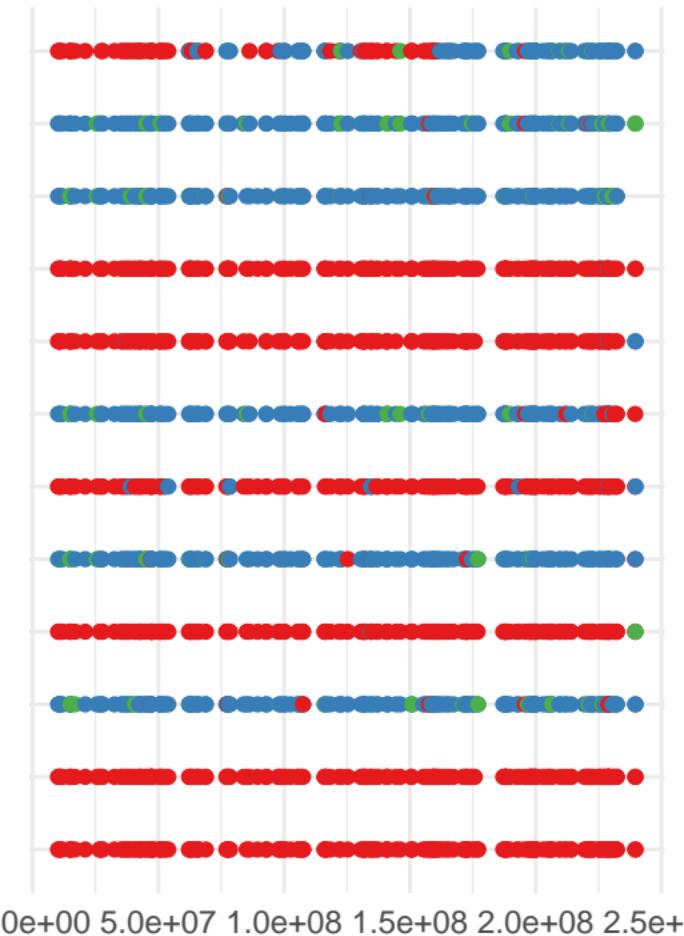
# KPC 4 HanXRQChr09



## Allelic state

- Annus
- Heterozygote
- Debilis

# KPC 4 HanXRQChr10

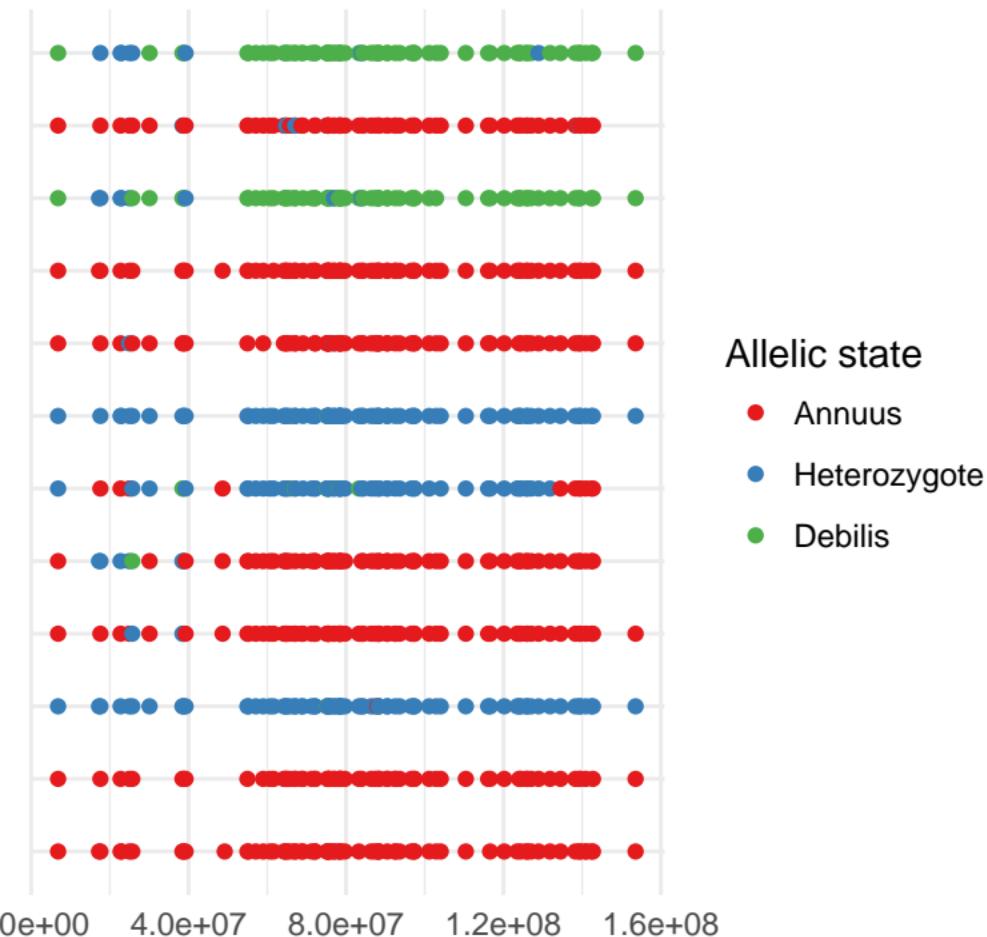


## Allelic state

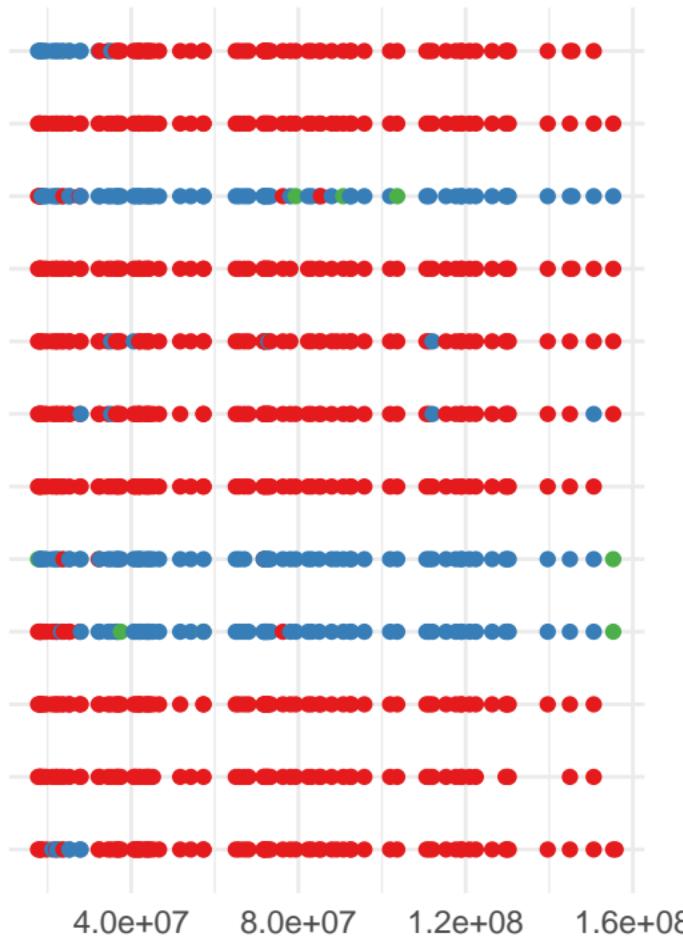
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# KPC 4 HanXRQChr11



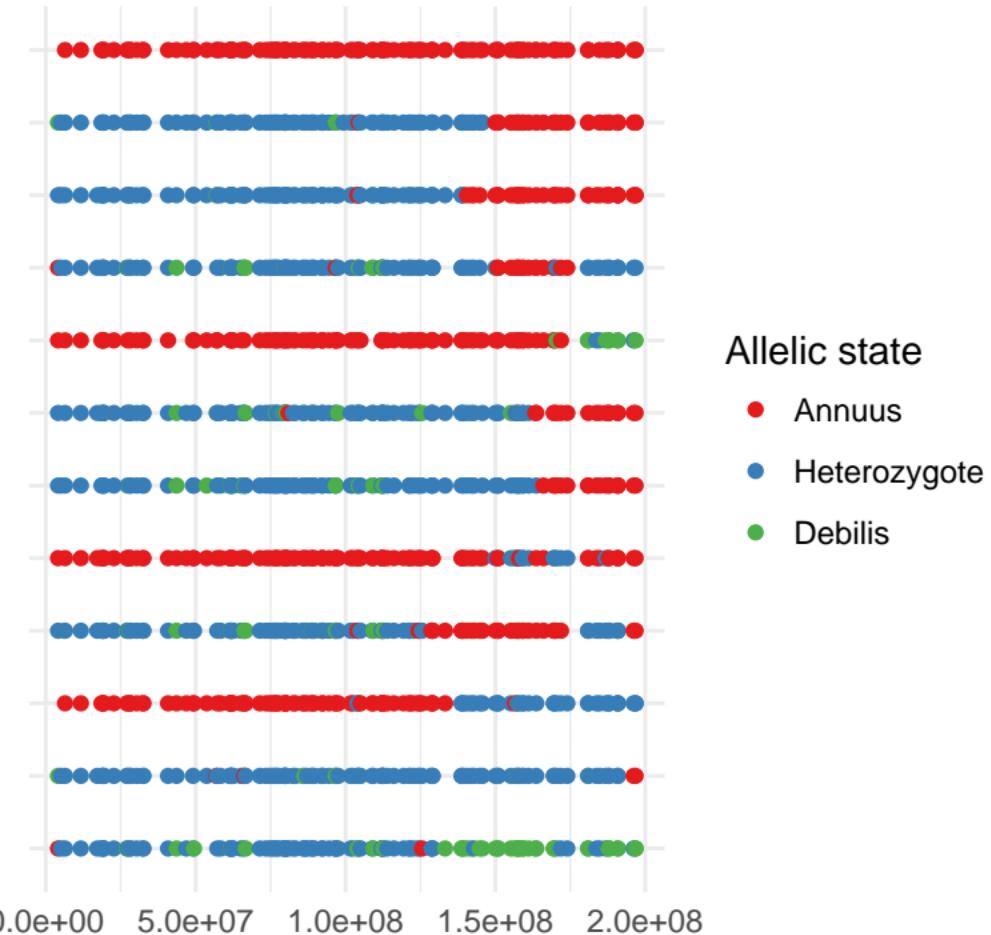
# KPC 4 HanXRQChr12



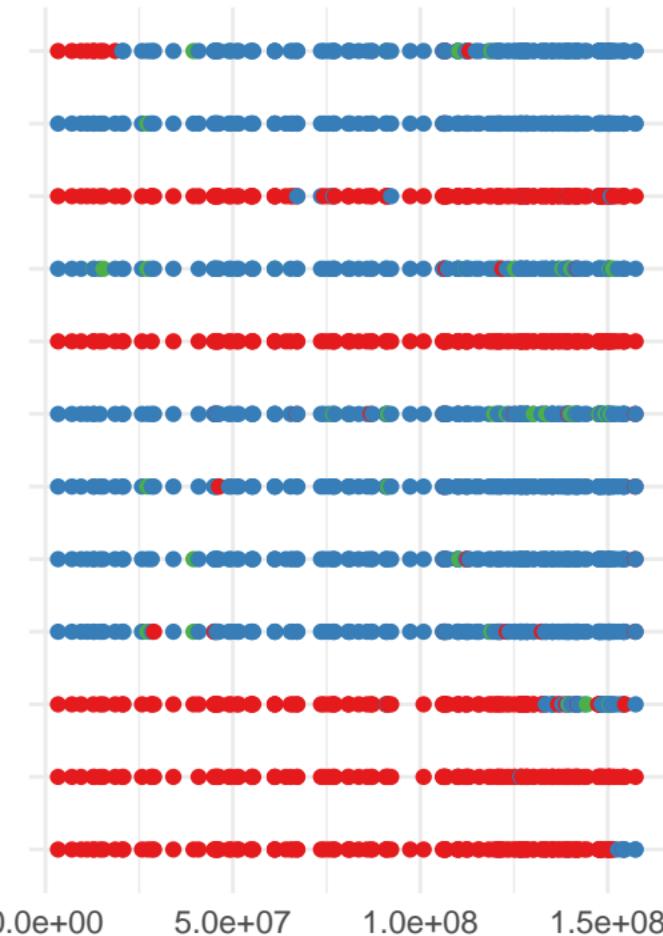
## Allelic state

- Annus
- Heterozygote
- Debilis

# KPC 4 HanXRQChr13



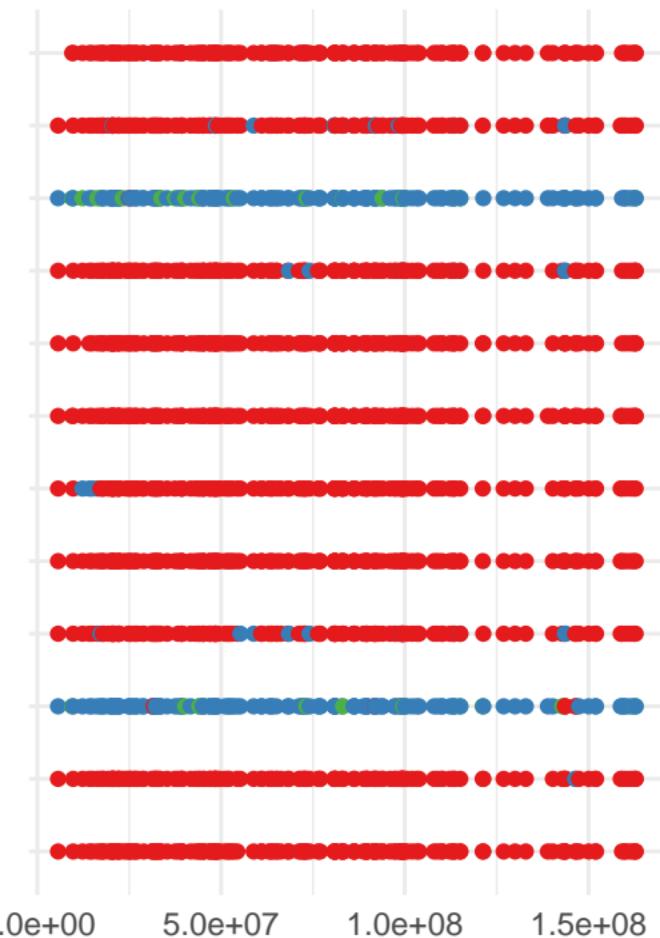
# KPC 4 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

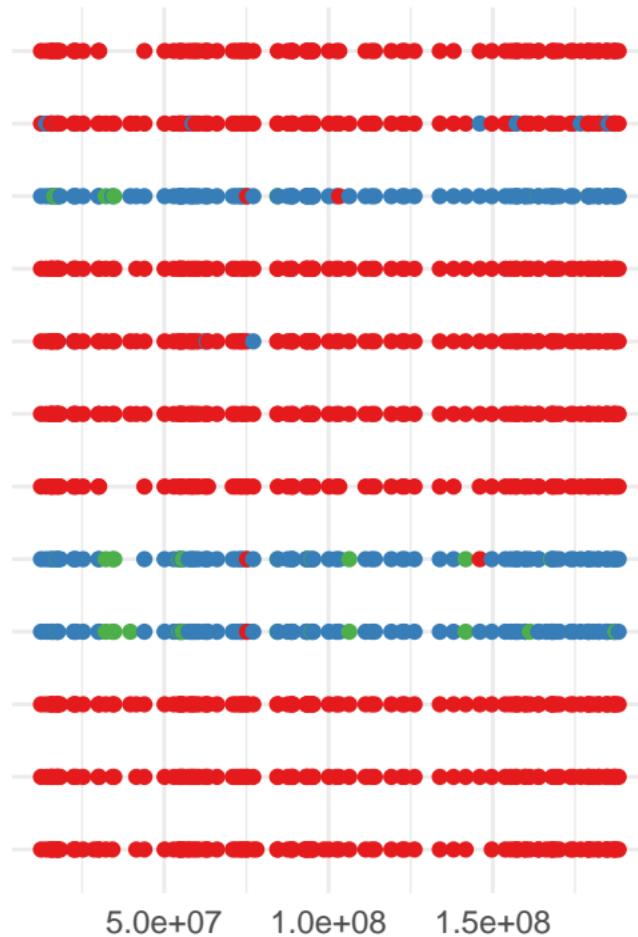
# KPC 4 HanXRQChr15



## Allelic state

- Annus
- Heterozygote
- Debilis

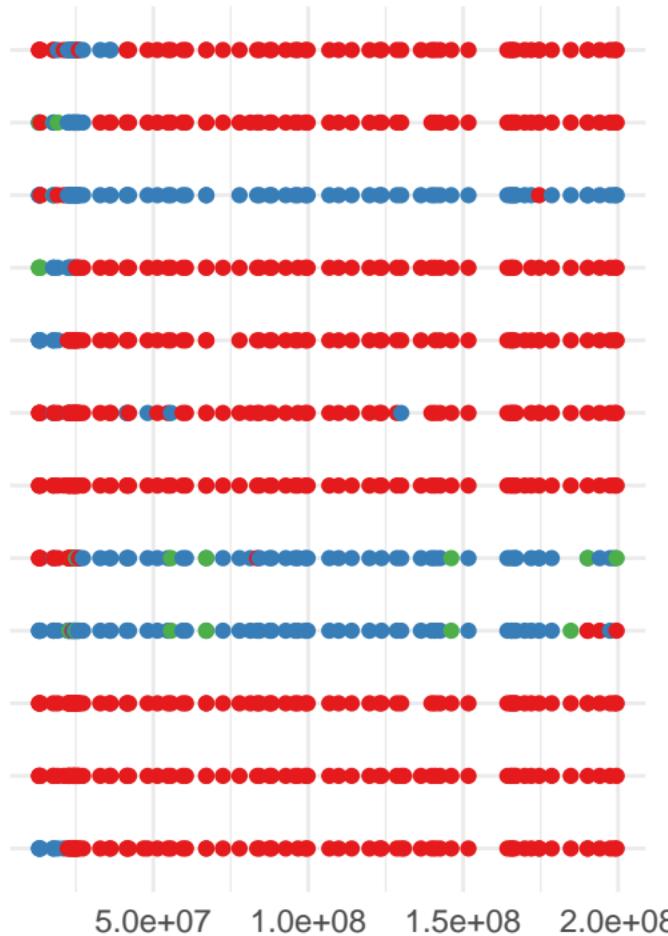
# KPC 4 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 4 HanXRQChr17

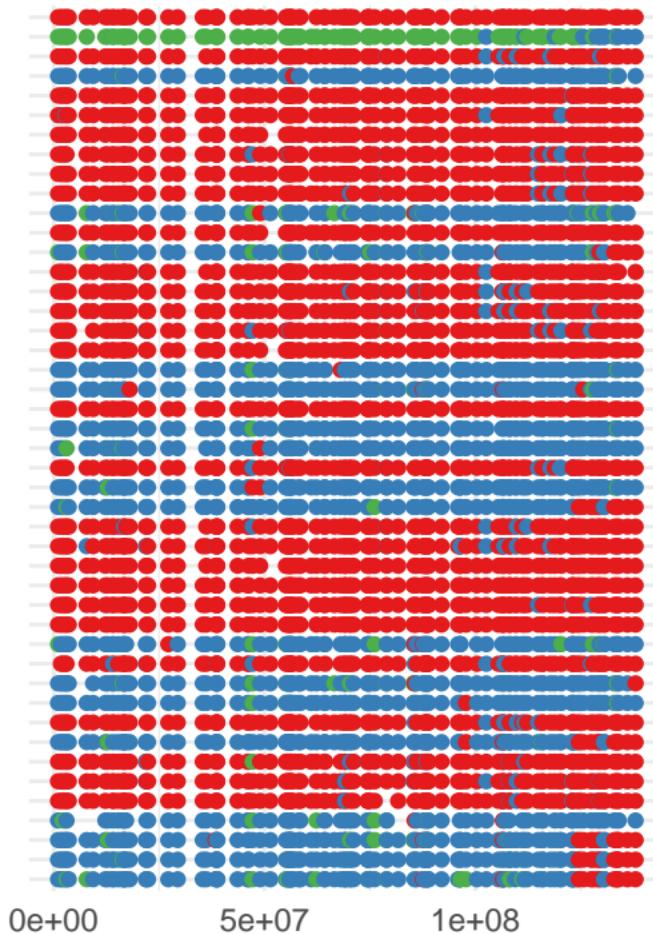


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

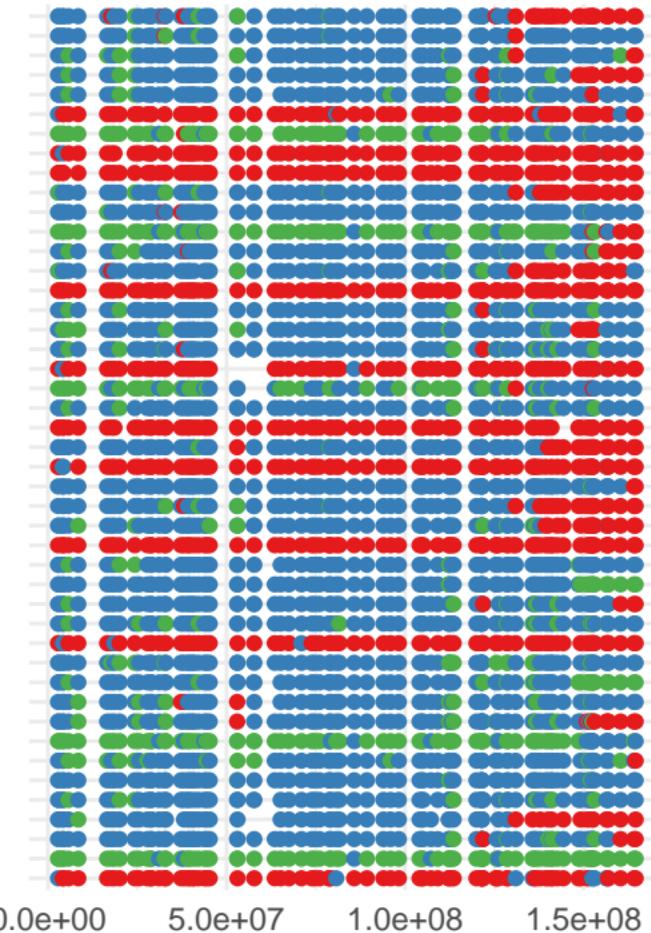
# KPC 5 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

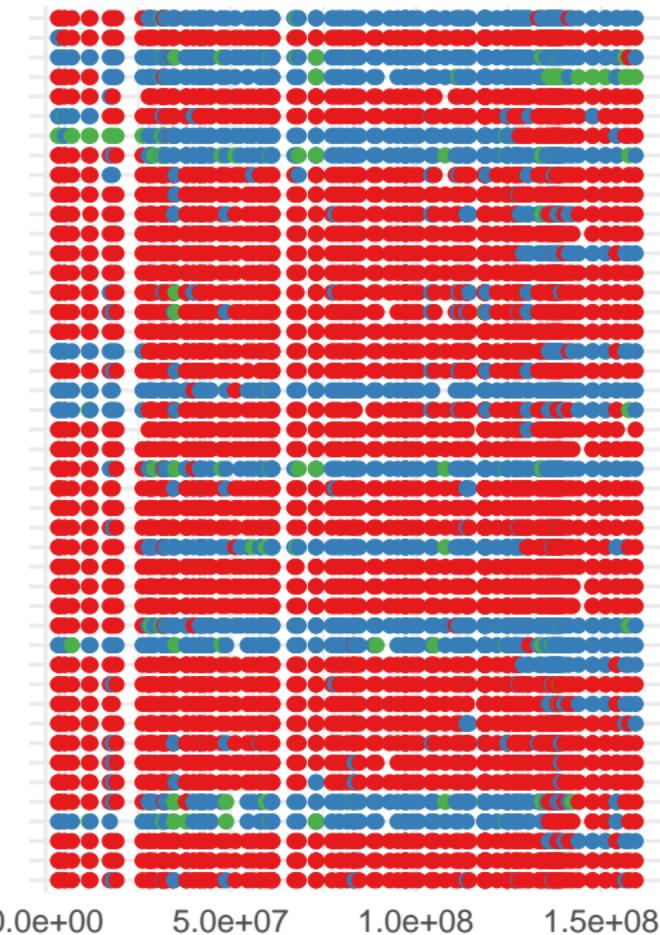
# KPC 5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 5 HanXRQChr03



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

# KPC 5 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 5 HanXRQChr05

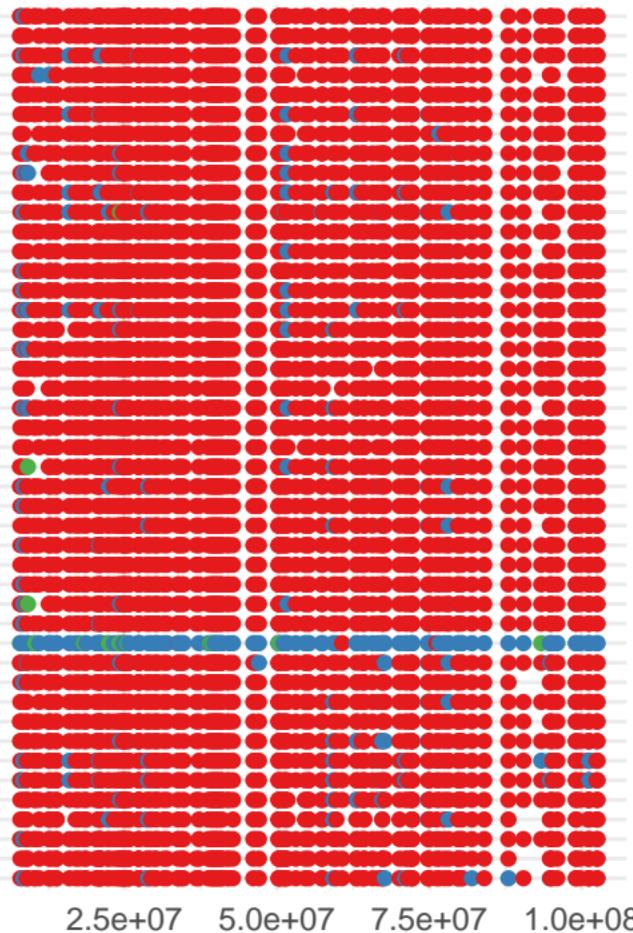


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

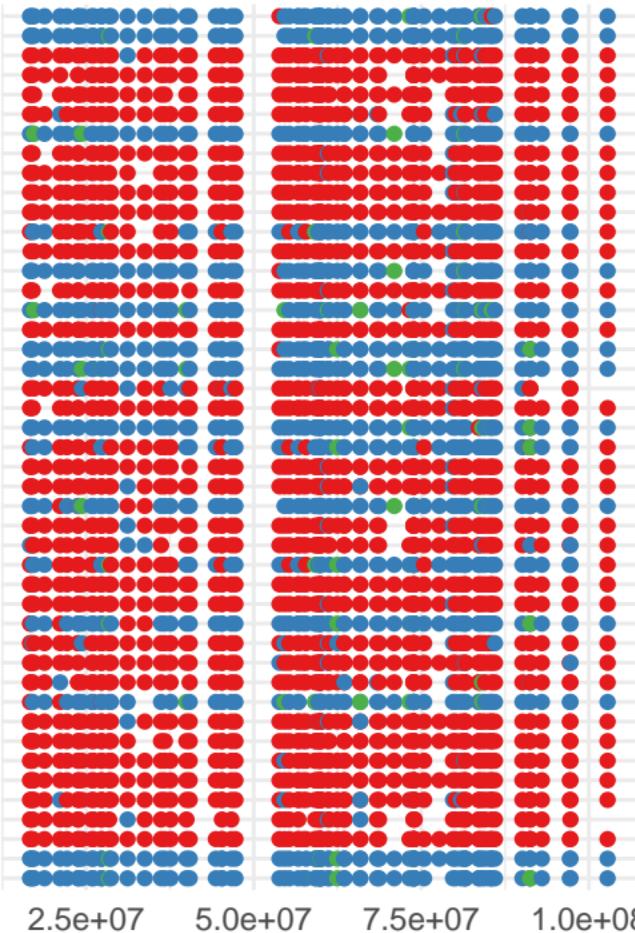
# KPC 5 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 5 HanXRQChr07

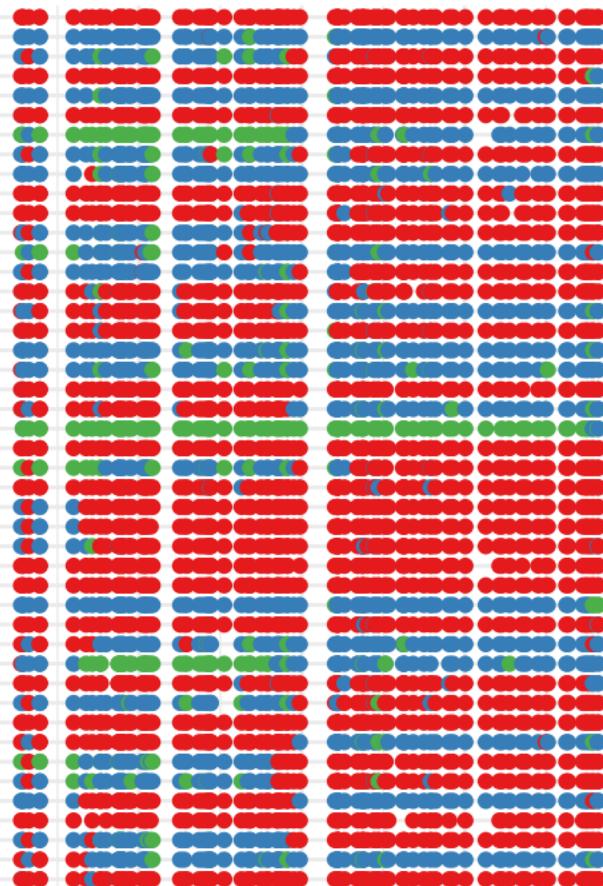


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# KPC 5 HanXRQChr08

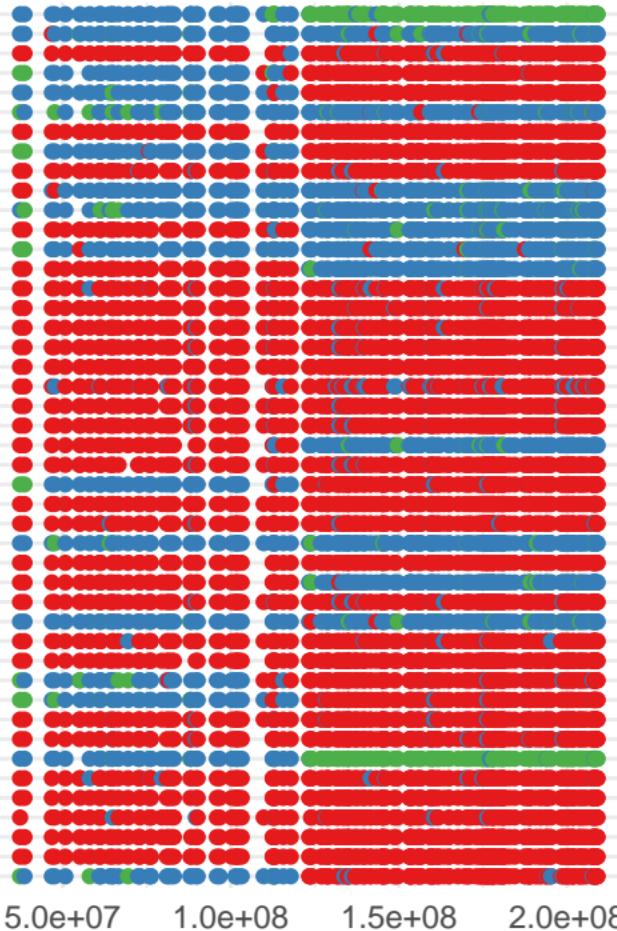


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# KPC 5 HanXRQChr09



## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07

1.0e+08

1.5e+08

2.0e+08

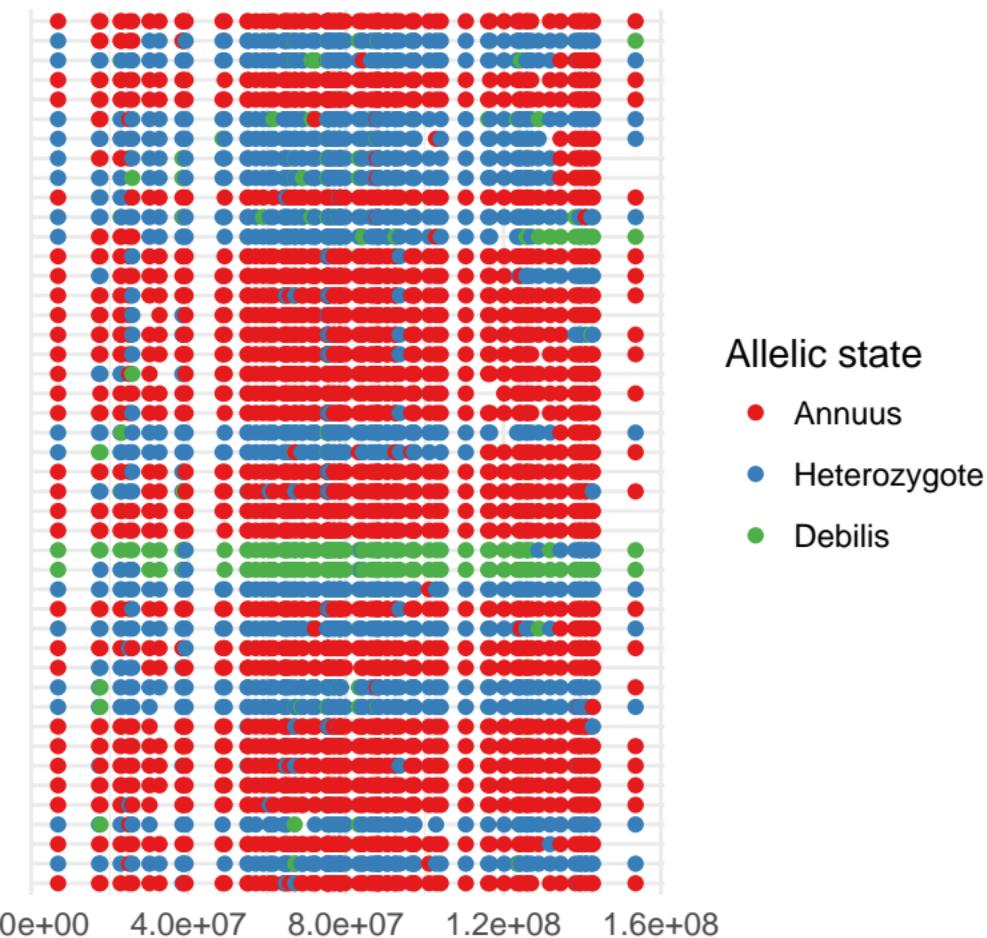
# KPC 5 HanXRQChr10



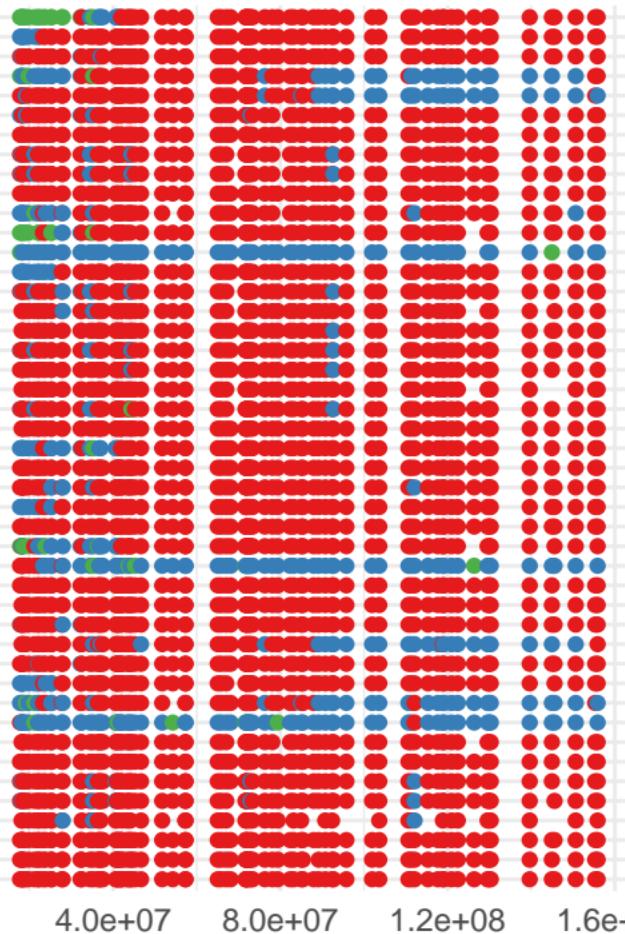
## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 5 HanXRQChr11



# KPC 5 HanXRQChr12



Allelic state

- Annus
- Heterozygote
- Debilis

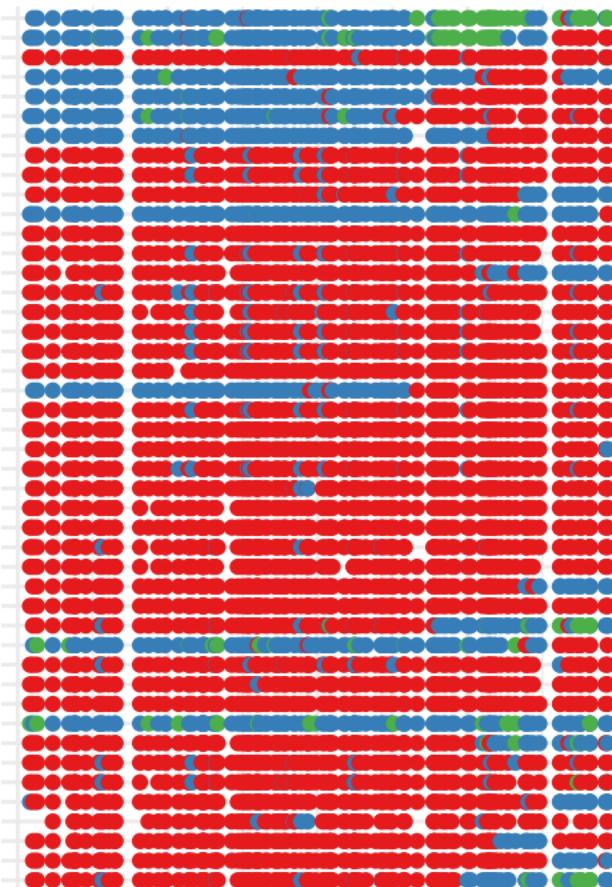
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# KPC 5 HanXRQChr13

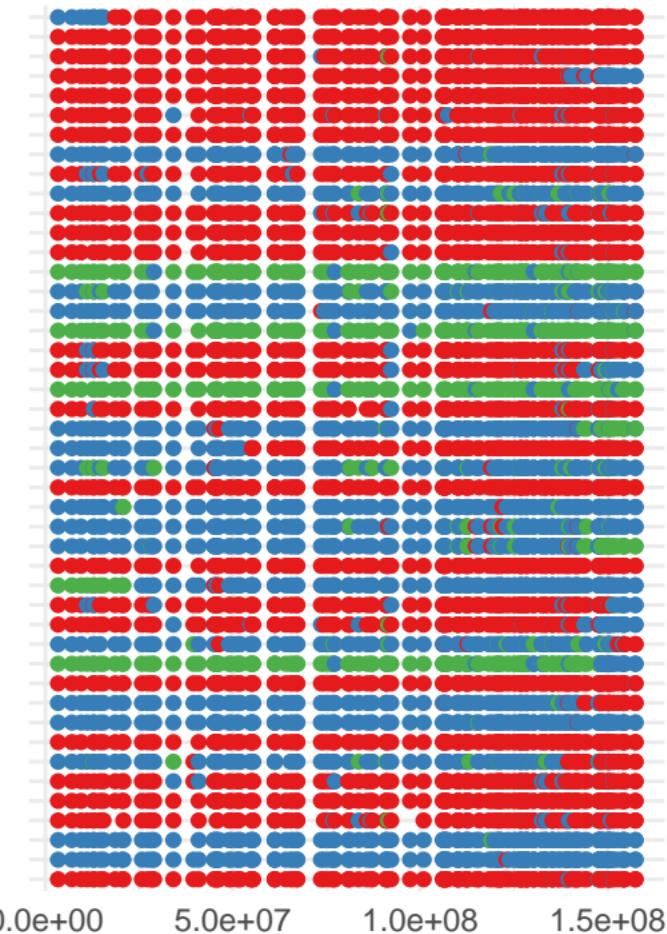


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00    5.0e+07    1.0e+08    1.5e+08    2.0e+08

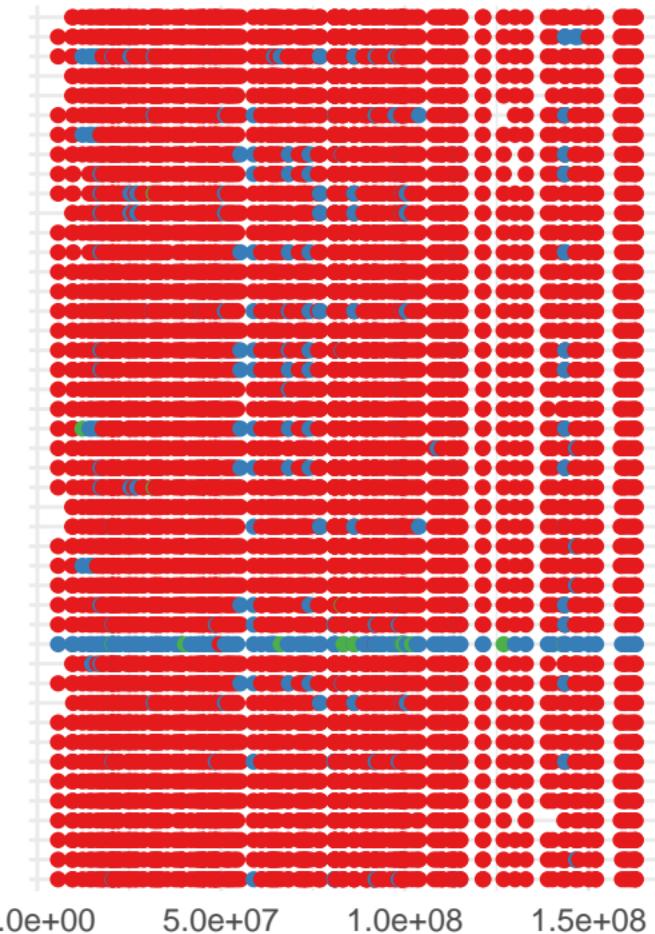
# KPC 5 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

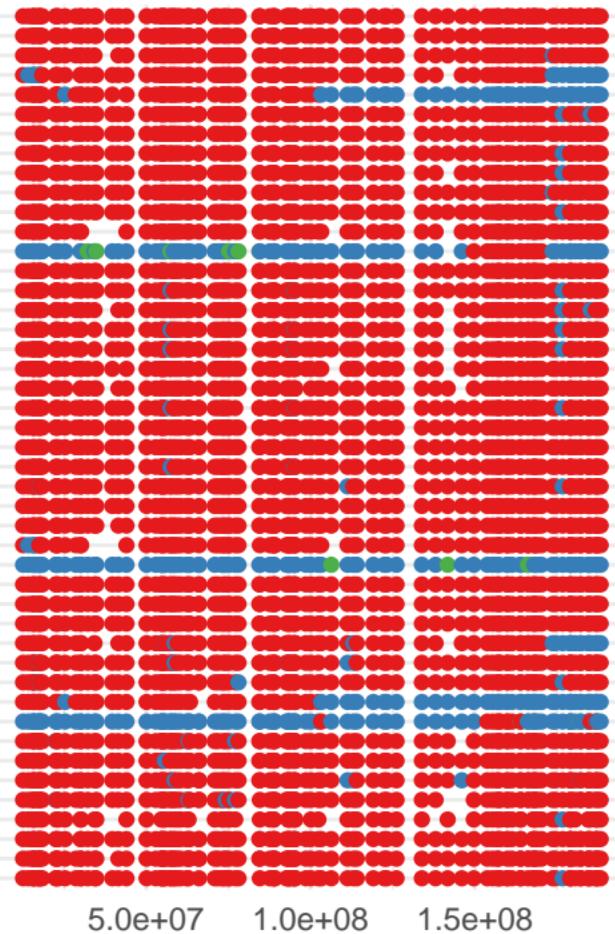
# KPC 5 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 5 HanXRQChr16

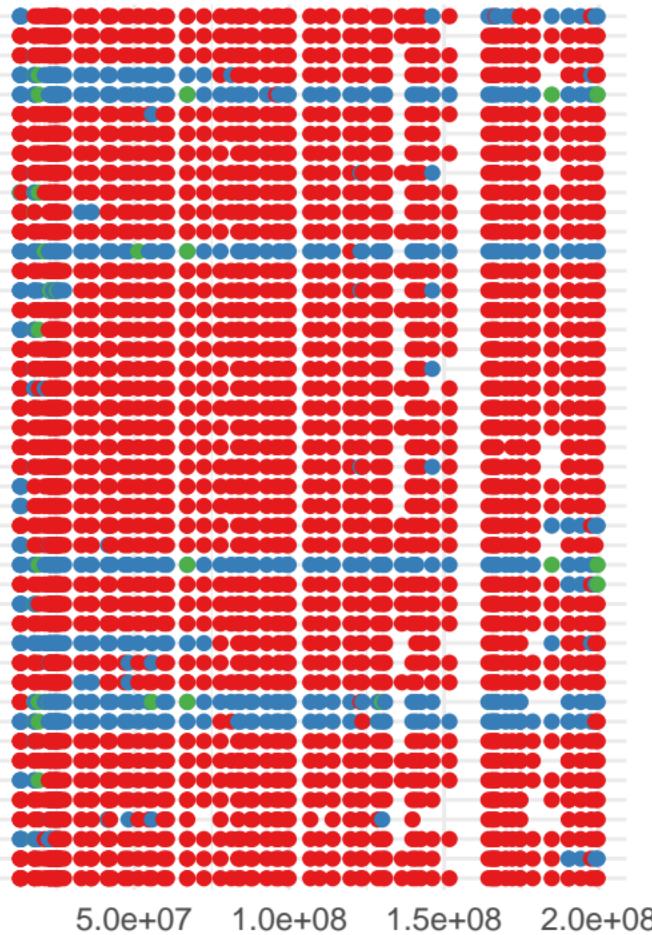


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# KPC 5 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

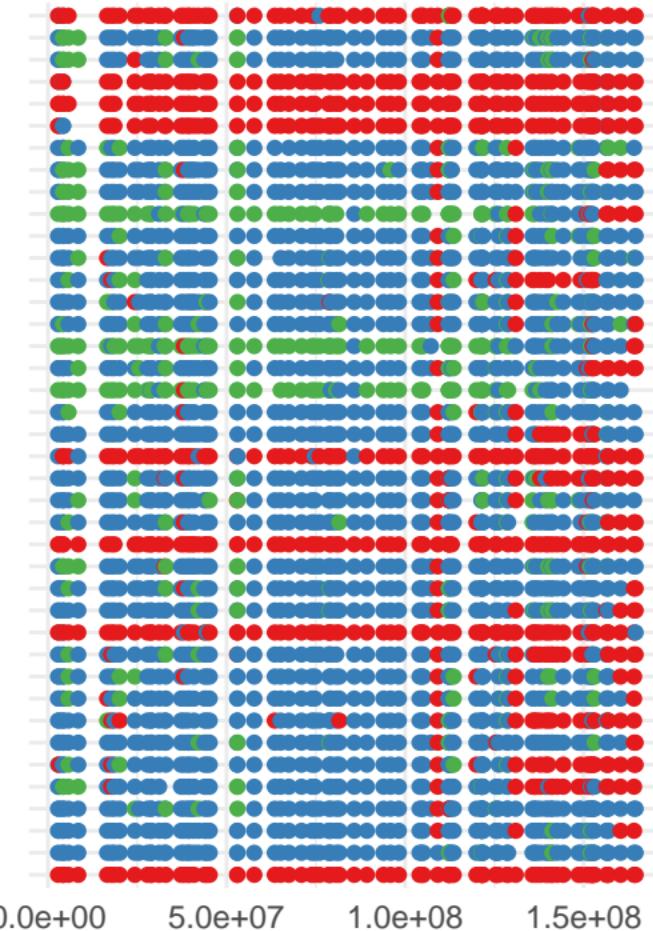
# KPC 6 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

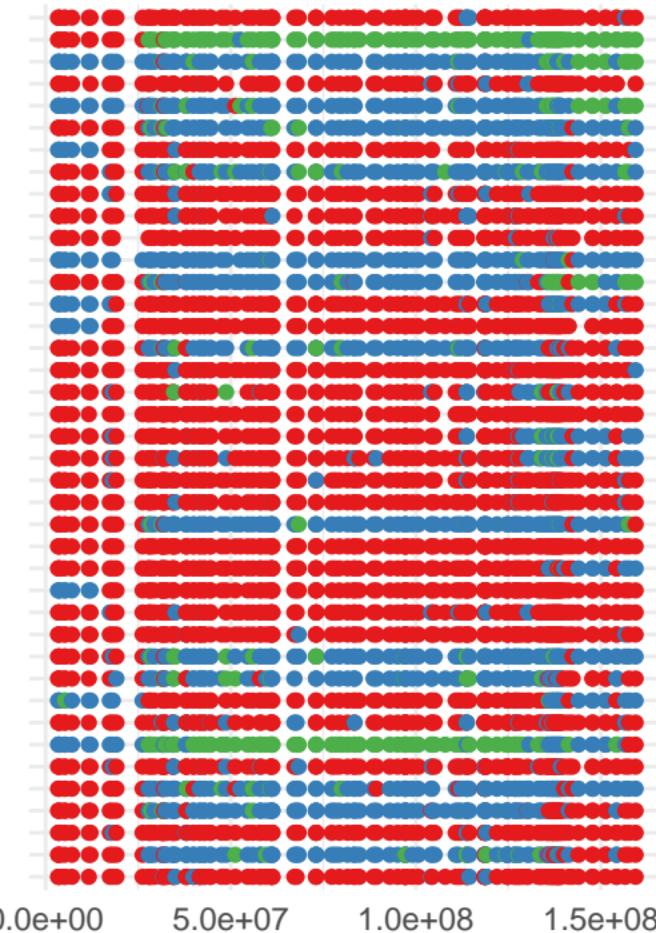
# KPC 6 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 6 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

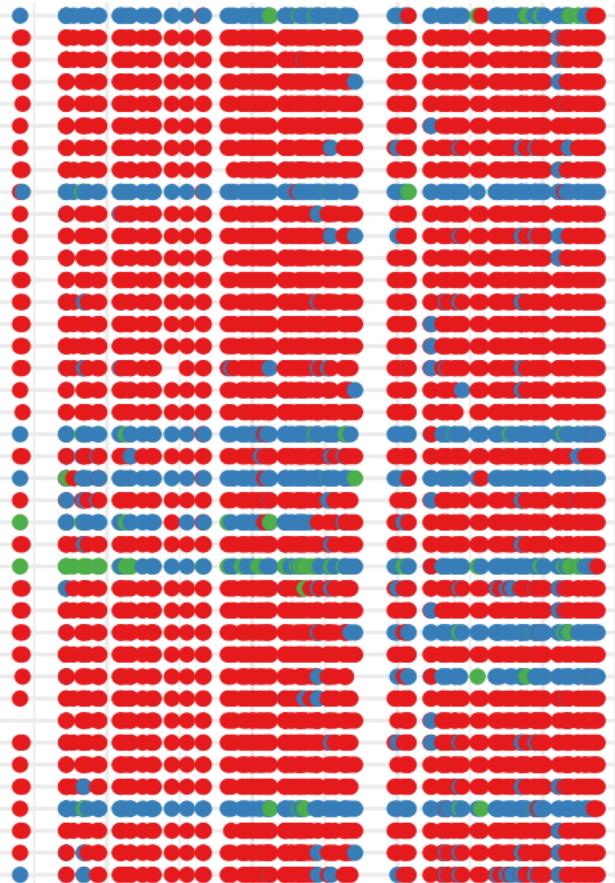
# KPC 6 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 6 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# KPC 6 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 6 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07

5.0e+07

7.5e+07

1.0e+08

# KPC 6 HanXRQChr08

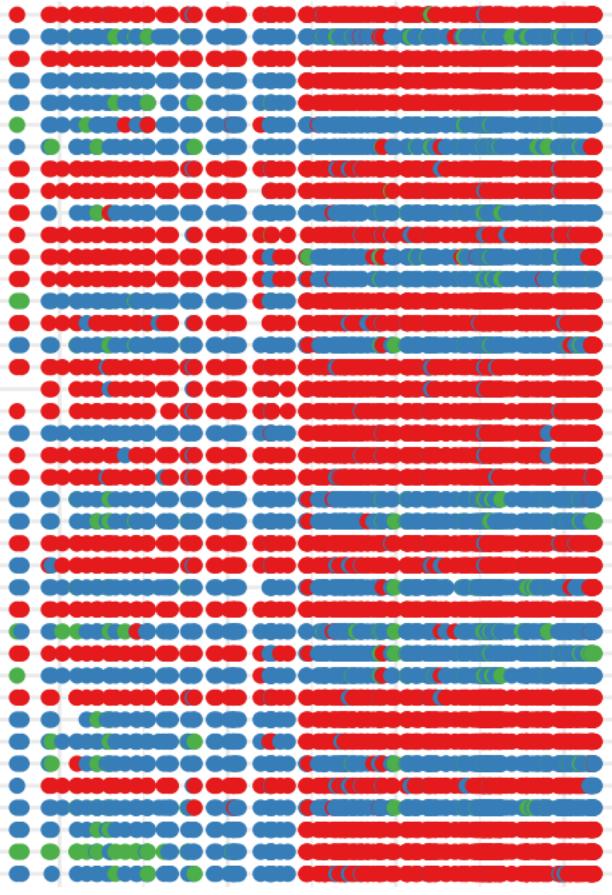


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# KPC 6 HanXRQChr09



## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# KPC 6 HanXRQChr10

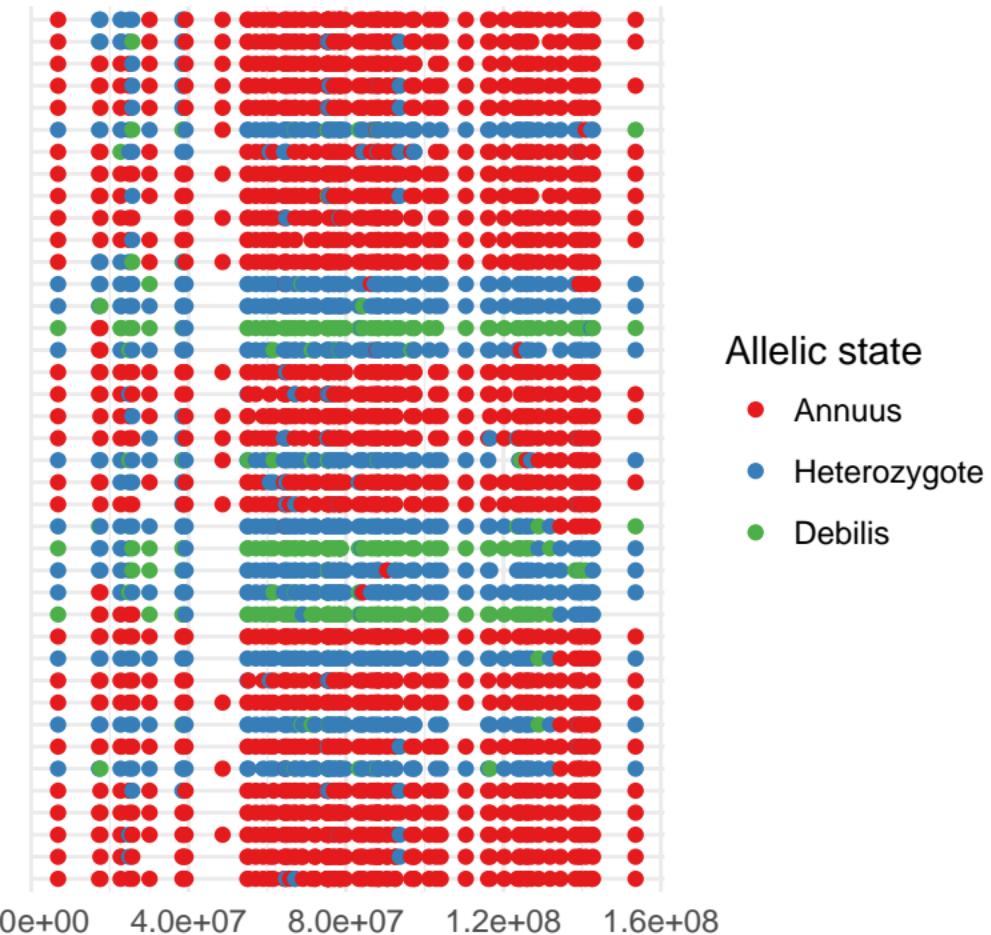


## Allelic state

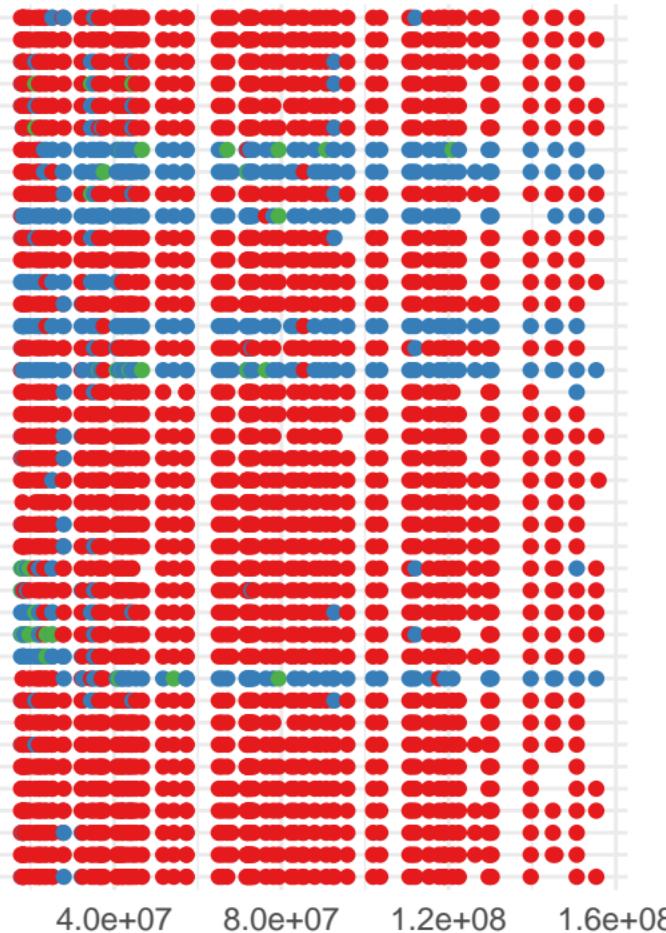
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# KPC 6 HanXRQChr11



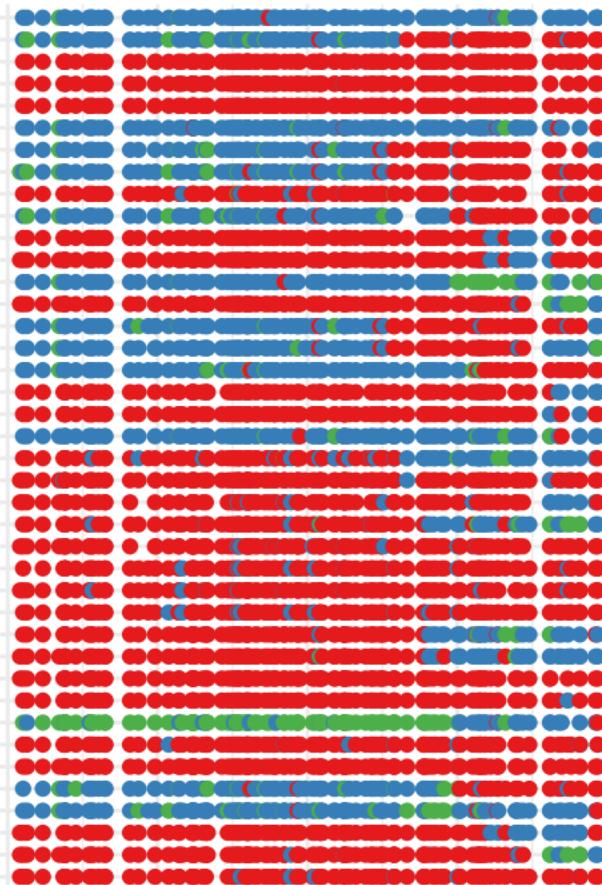
# KPC 6 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 6 HanXRQChr13

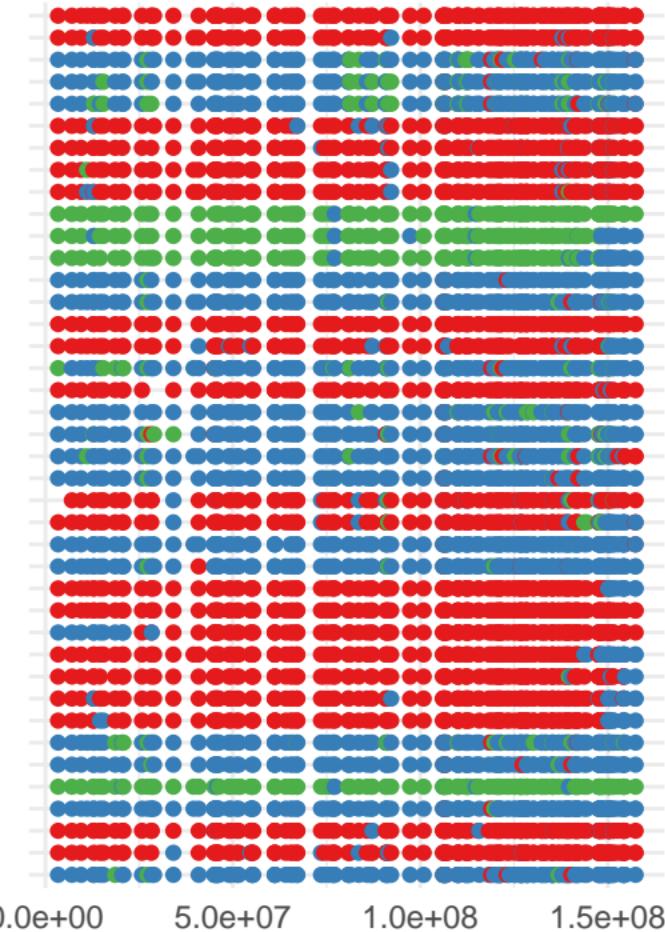


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

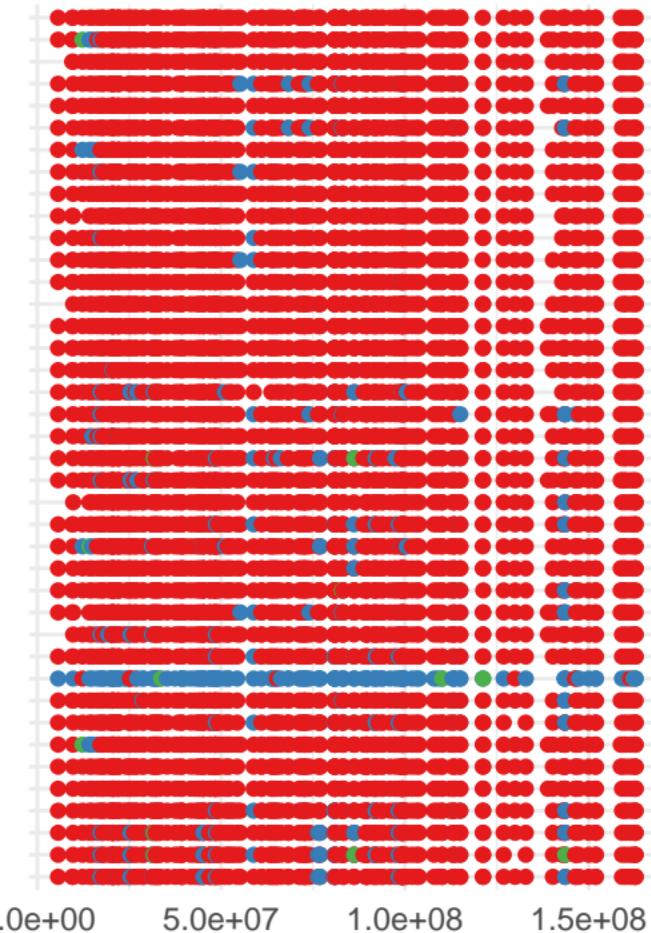
# KPC 6 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 6 HanXRQChr15



Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 6 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 6 HanXRQChr17

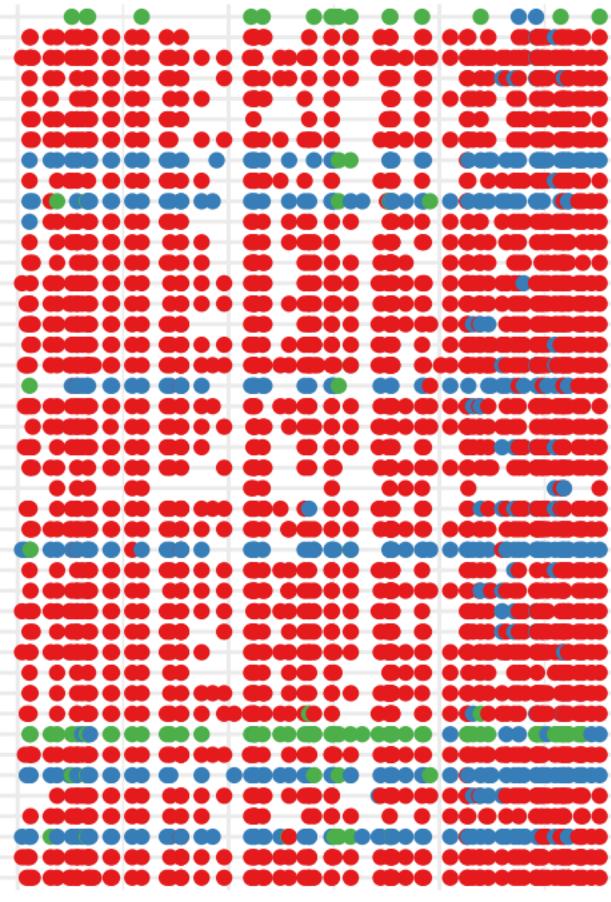


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

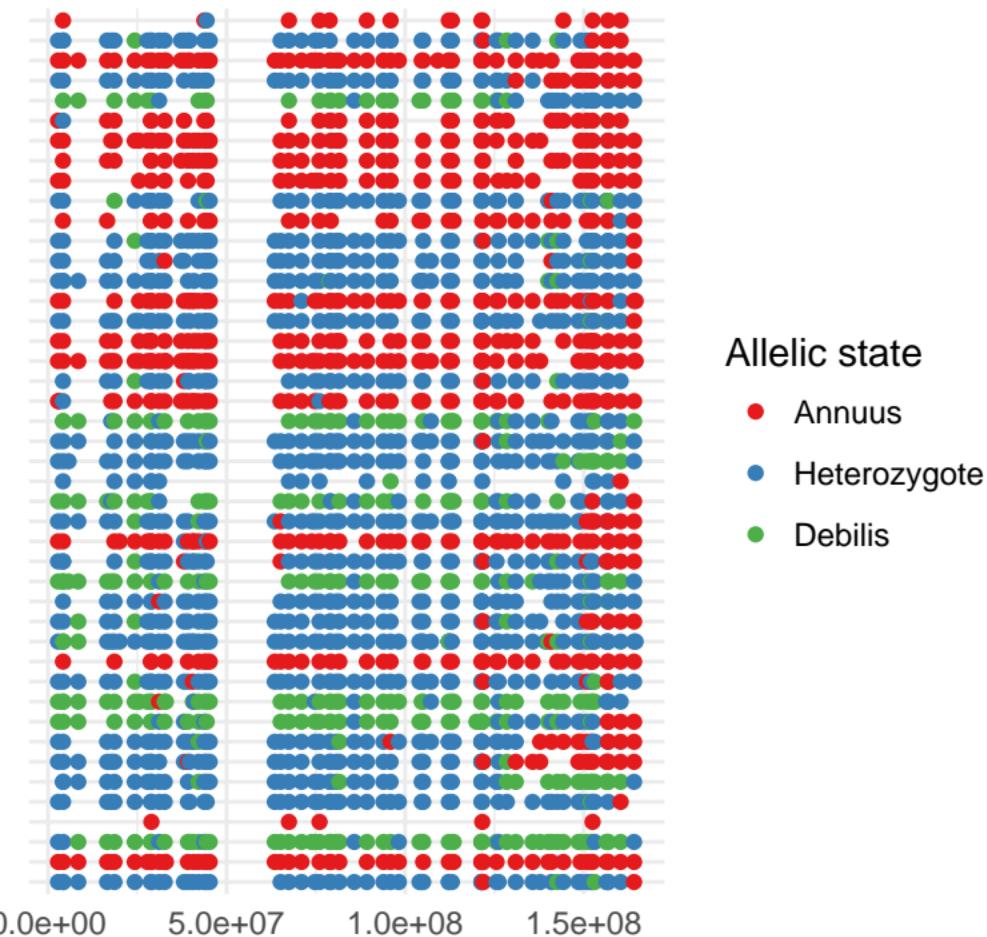
# KPC 8 HanXRQChr01



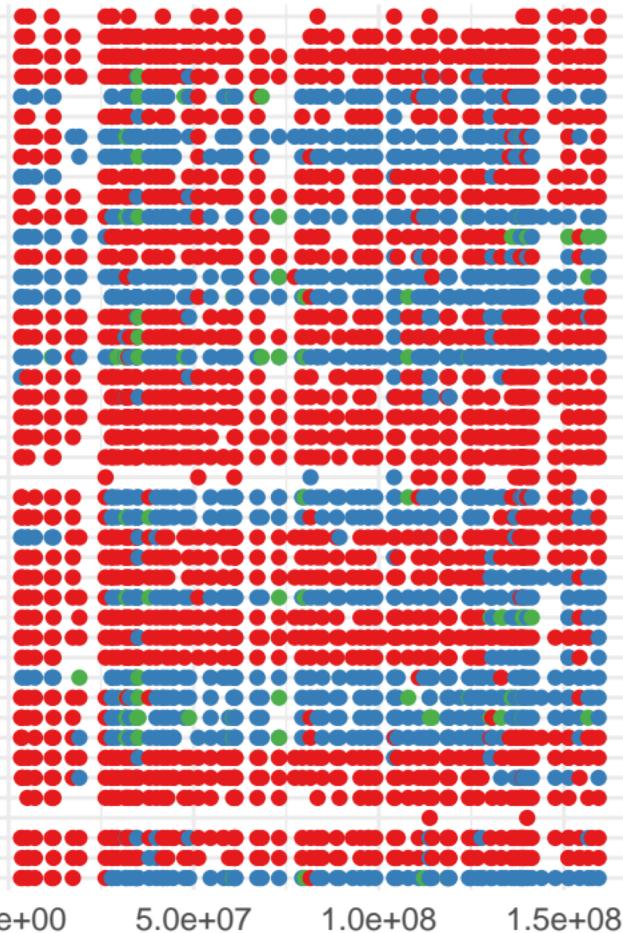
## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 8 HanXRQChr02



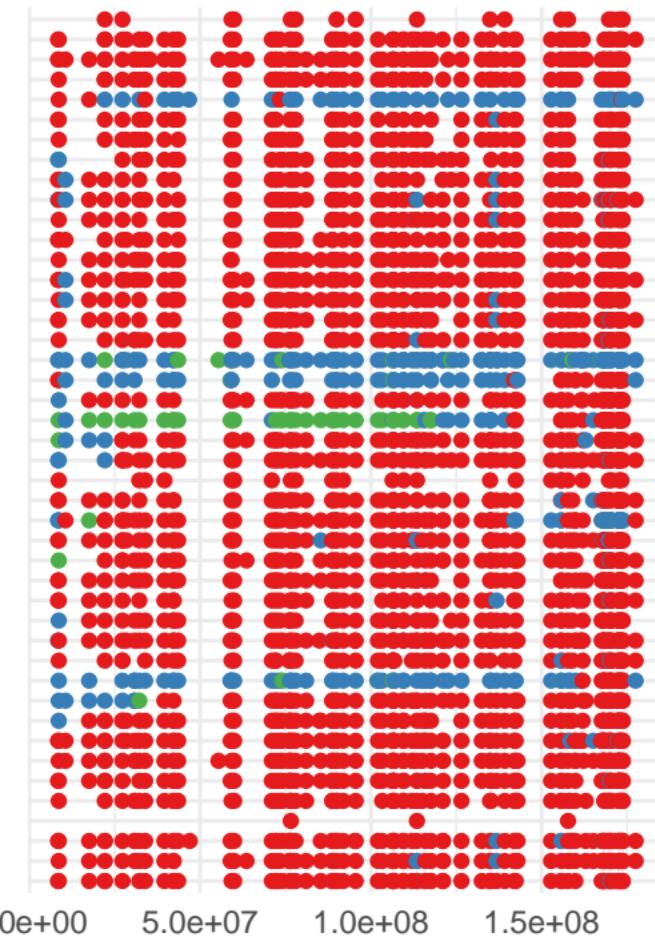
# KPC 8 HanXRQChr03



## Allelic state

- Annus
- Heterozygote
- Debilis

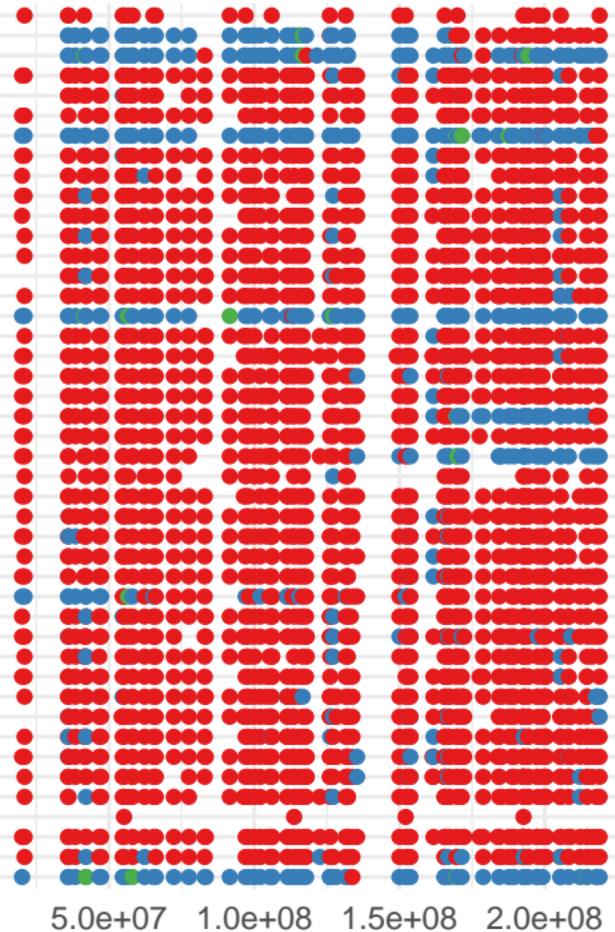
# KPC 8 HanXRQChr04



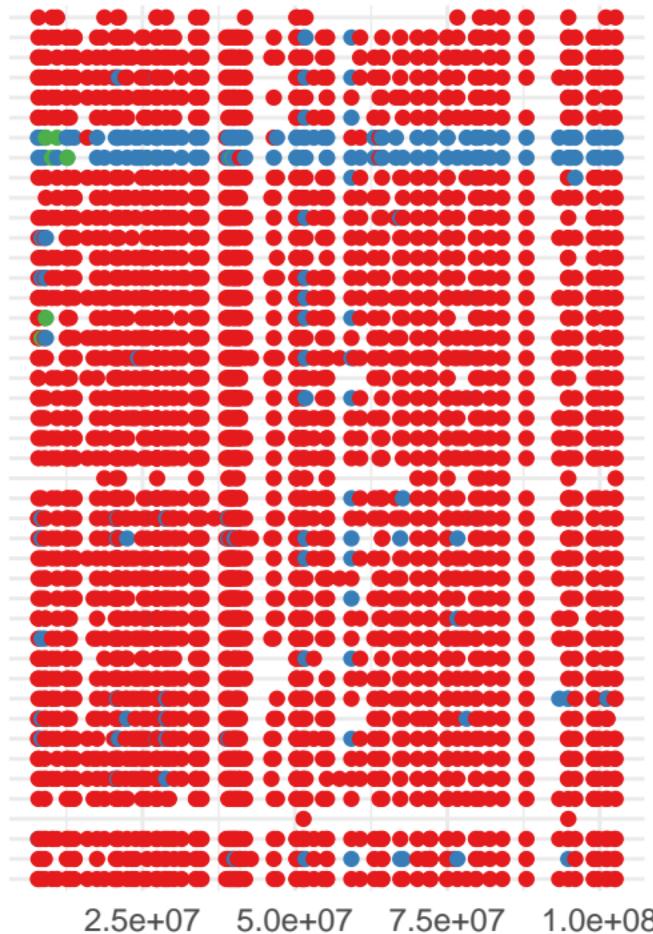
## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 8 HanXRQChr05



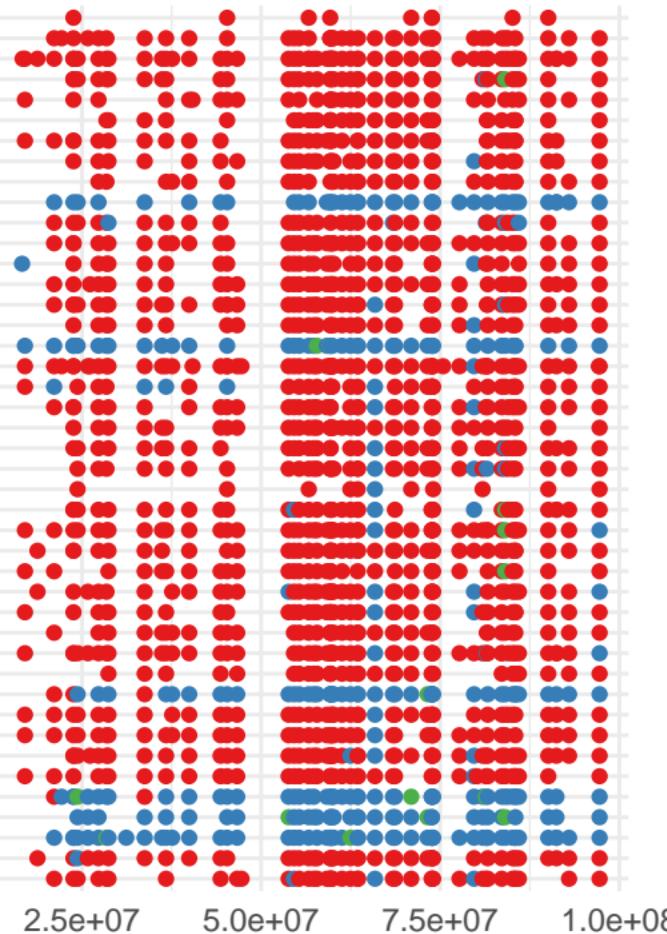
# KPC 8 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

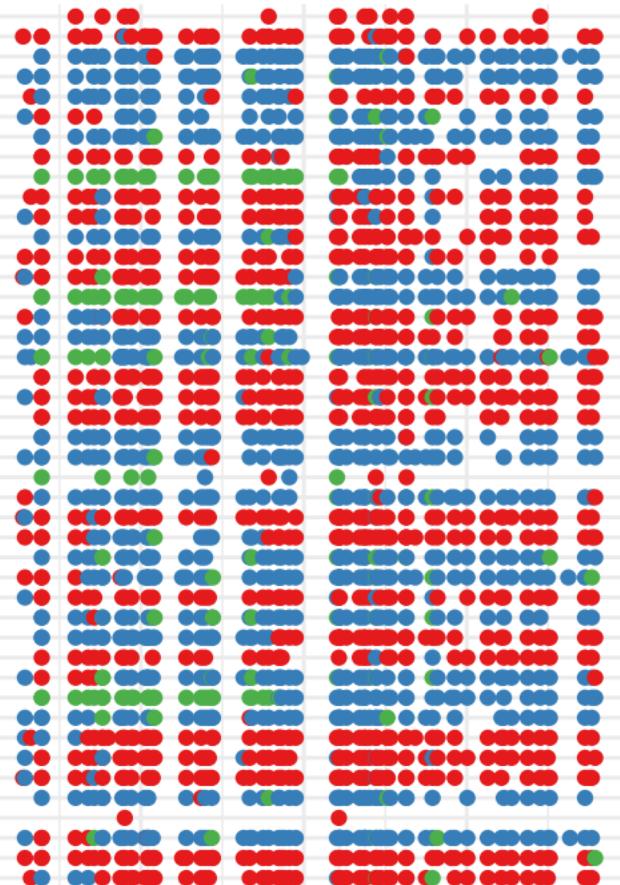
# KPC 8 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 8 HanXRQChr08



## Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

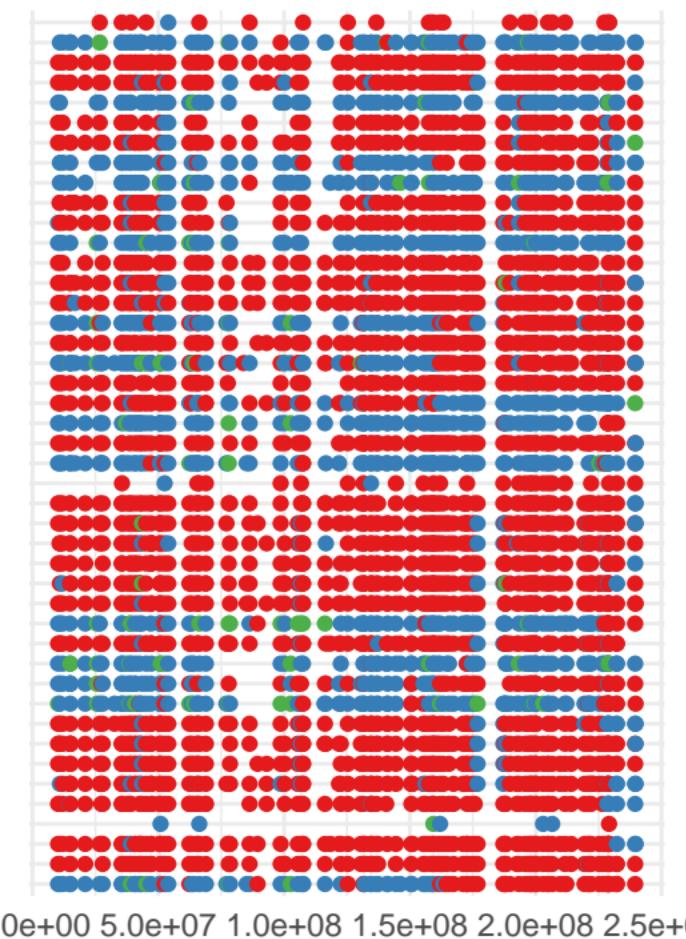
# KPC 8 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 8 HanXRQChr10

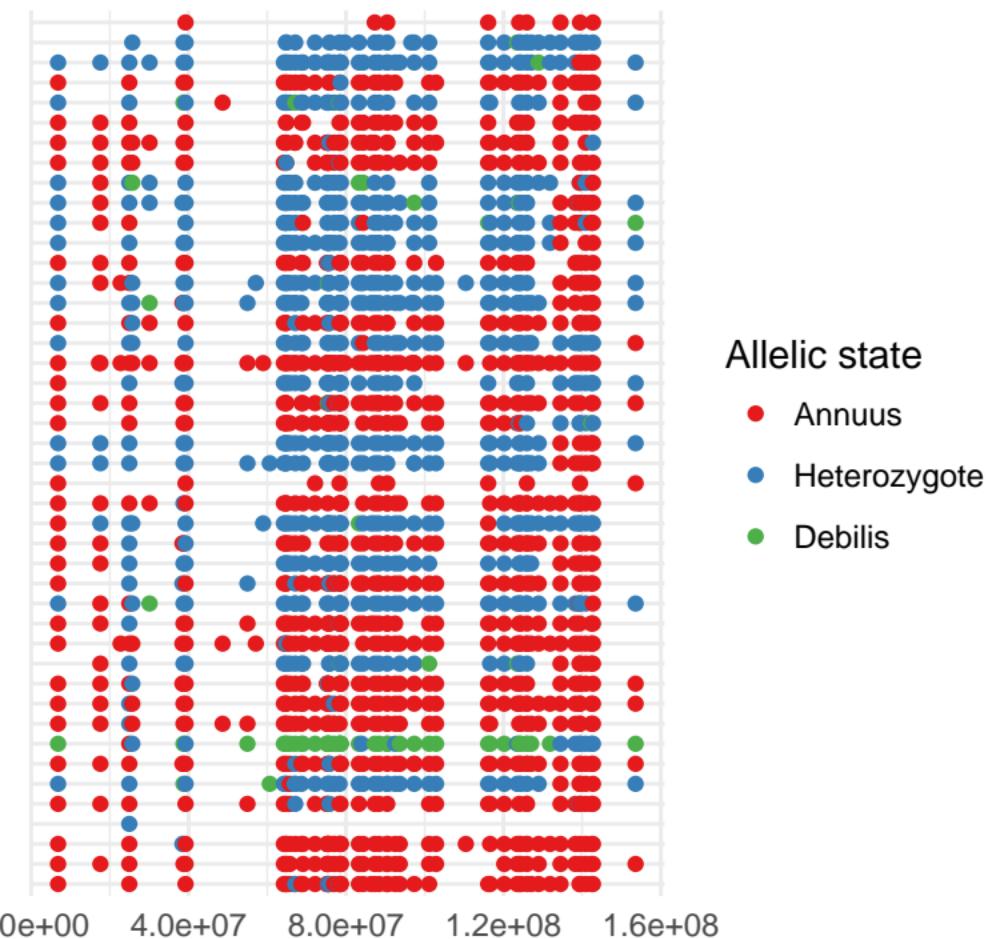


## Allelic state

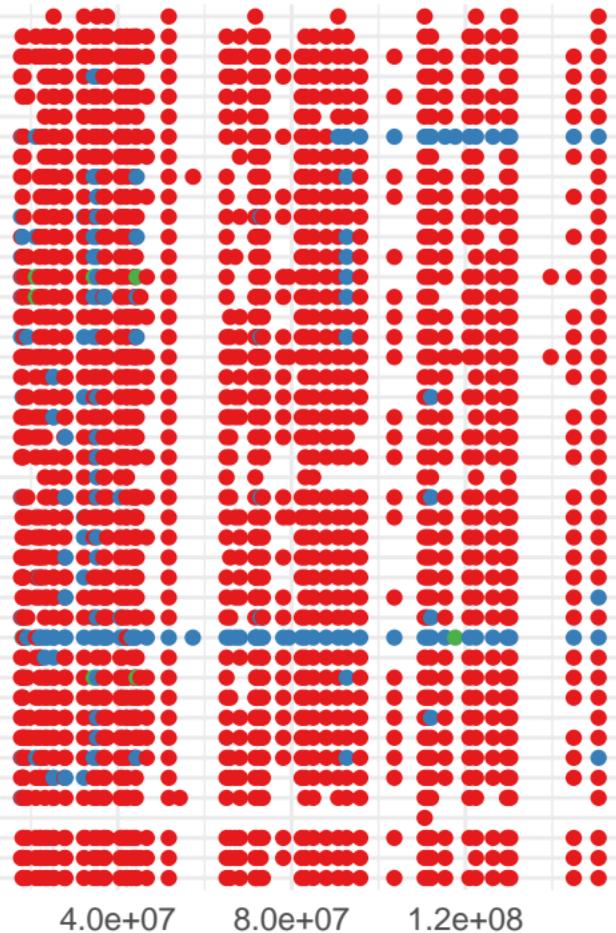
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# KPC 8 HanXRQChr11



# KPC 8 HanXRQChr12



## Allelic state

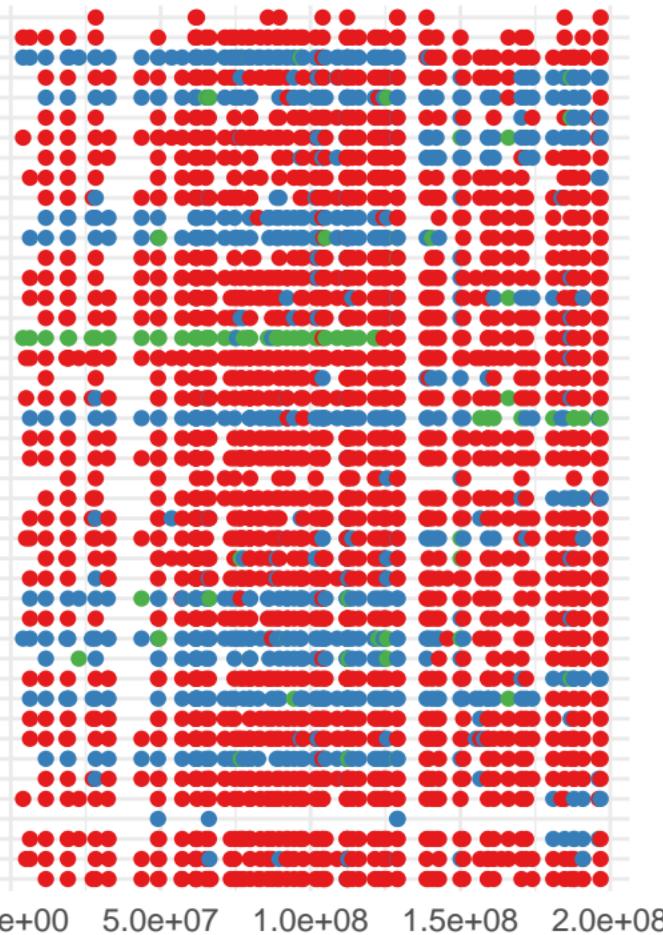
- Annuus
- Heterozygote
- Debilis

4.0e+07

8.0e+07

1.2e+08

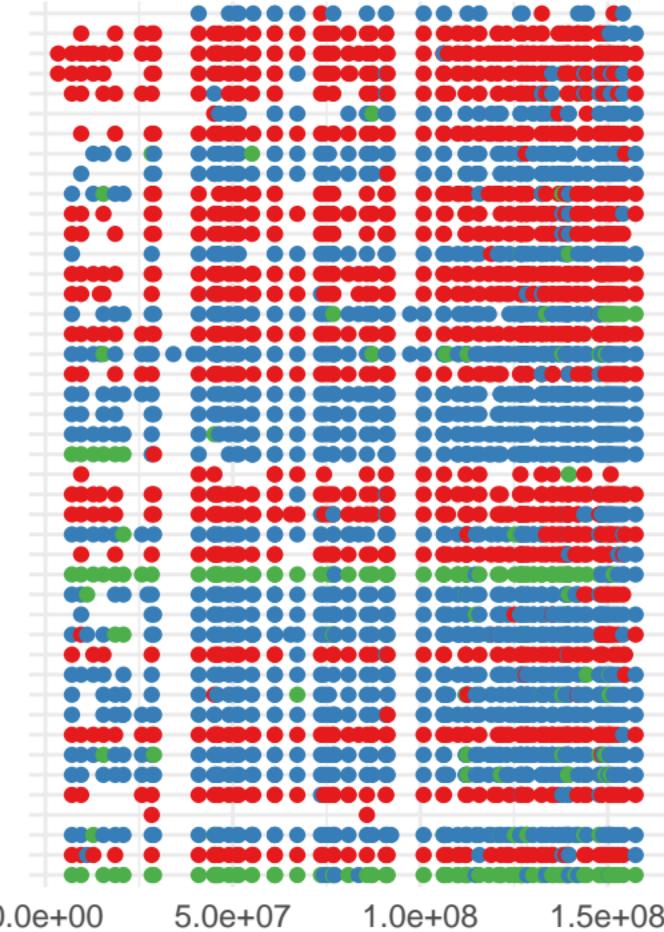
# KPC 8 HanXRQChr13



## Allelic state

- Annus
- Heterozygote
- Debilis

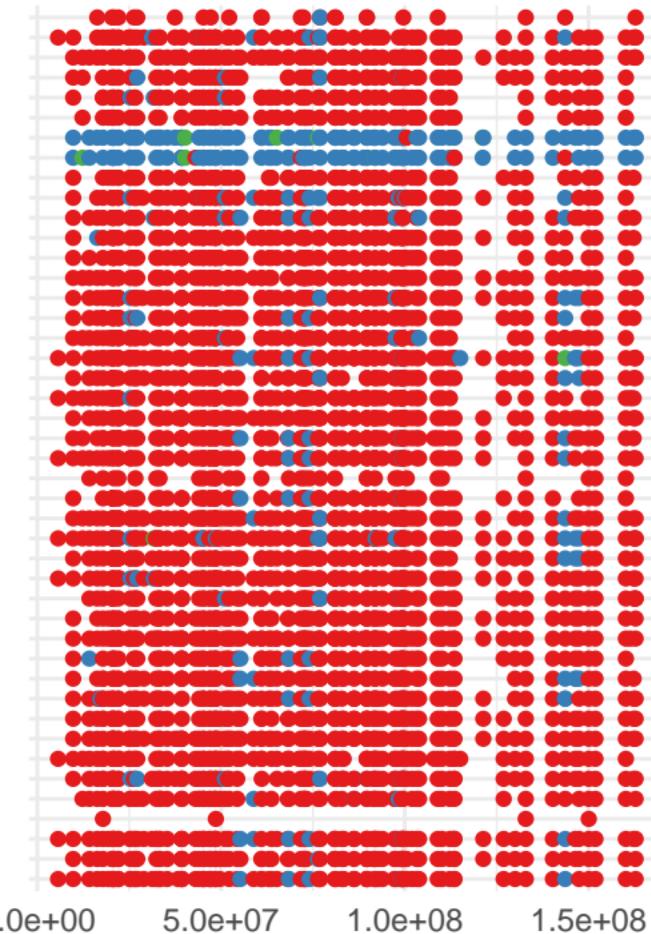
# KPC 8 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

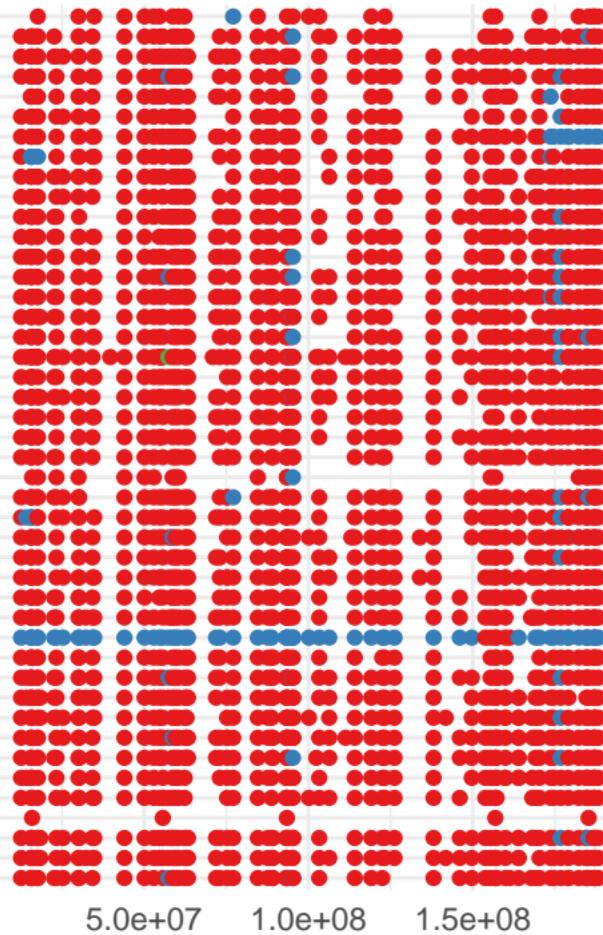
# KPC 8 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# KPC 8 HanXRQChr16

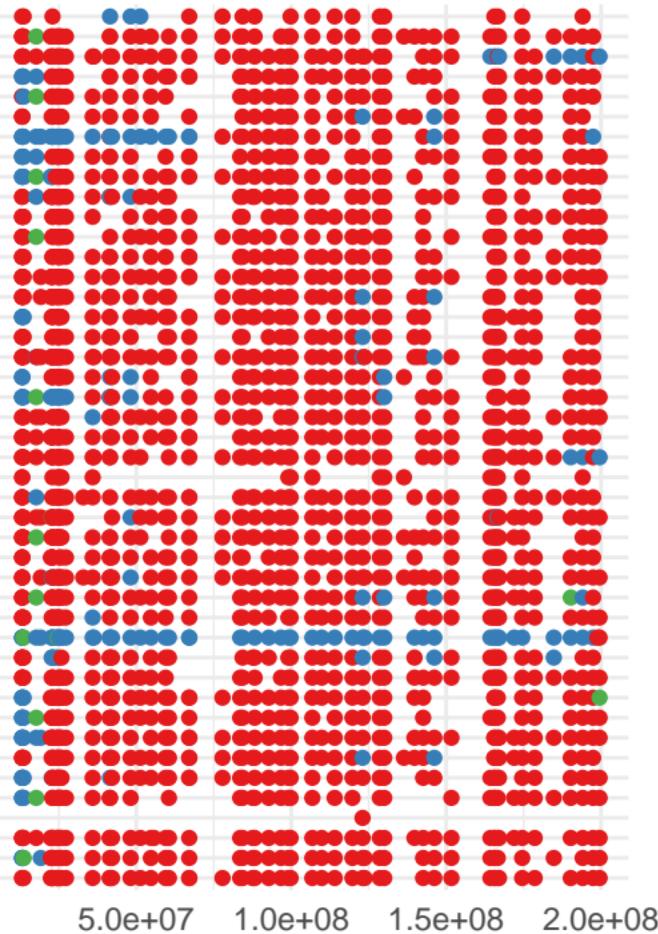


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# KPC 8 HanXRQChr17

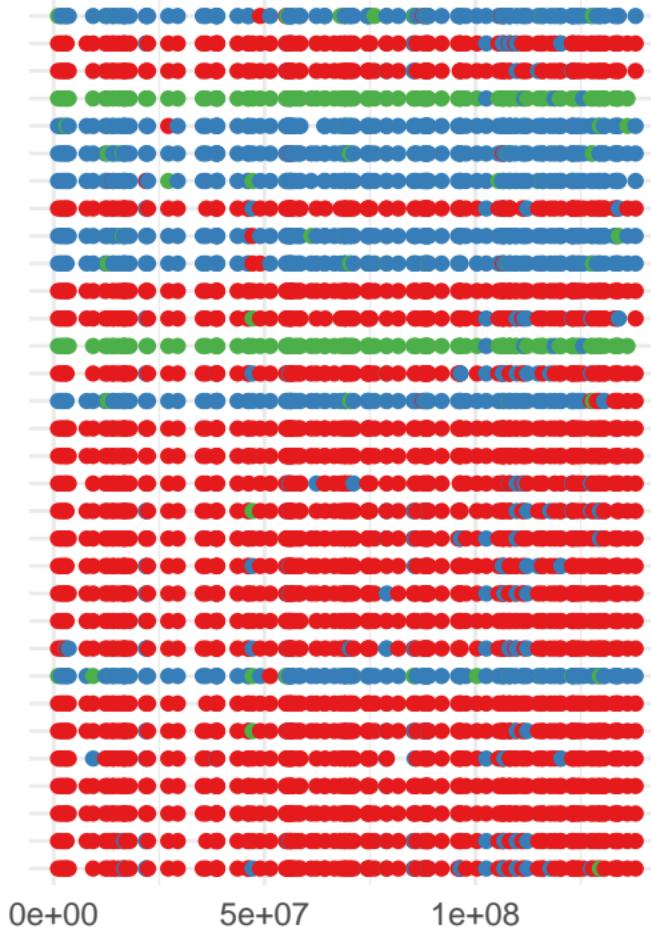


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 2.5 HanXRQChr01



## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

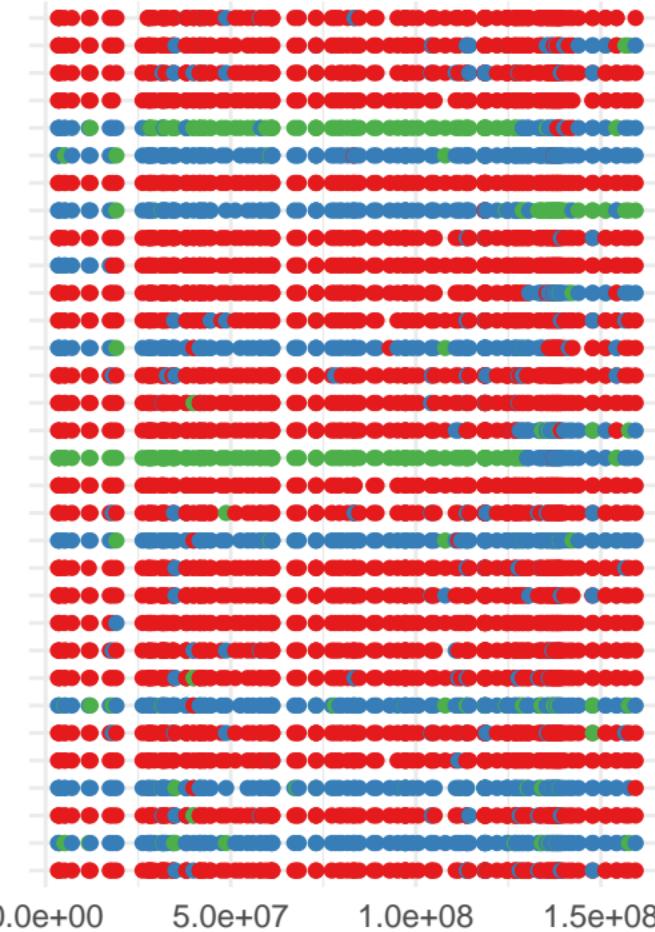
# LBJ 2.5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 2.5 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 2.5 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 2.5 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

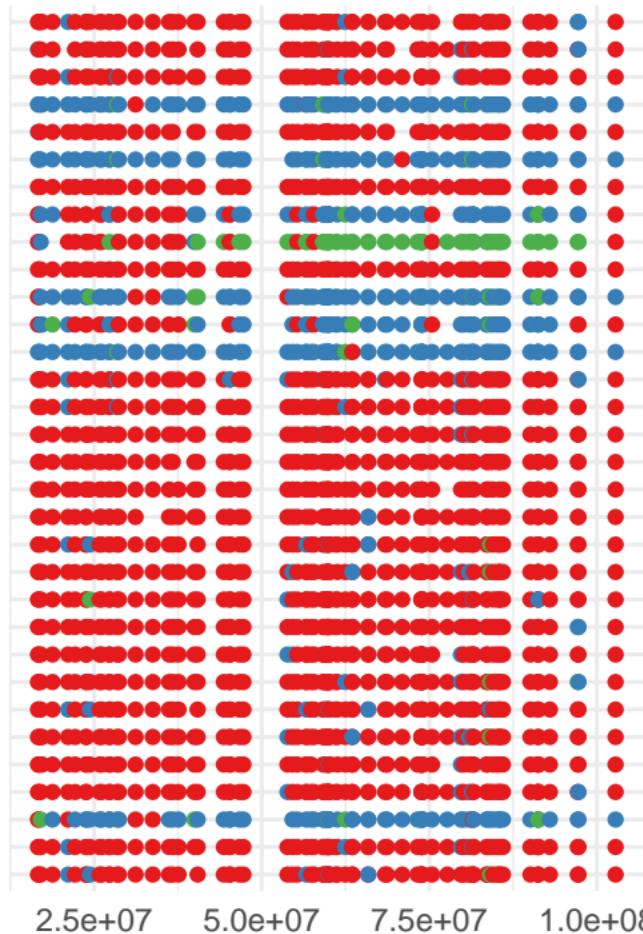
# LBJ 2.5 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 2.5 HanXRQChr07

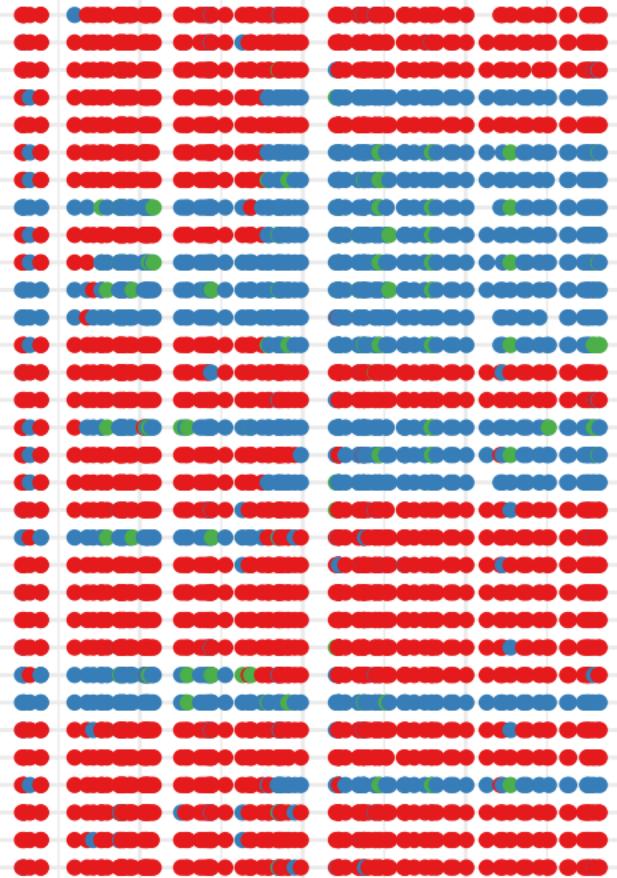


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# LBJ 2.5 HanXRQChr08

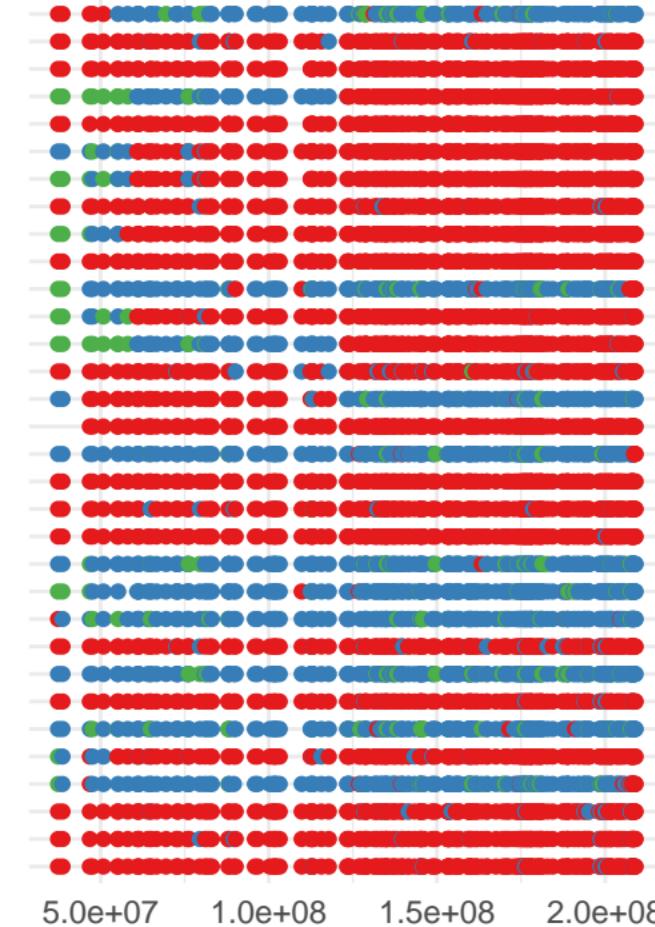


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# LBJ 2.5 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# LBJ 2.5 HanXRQChr10

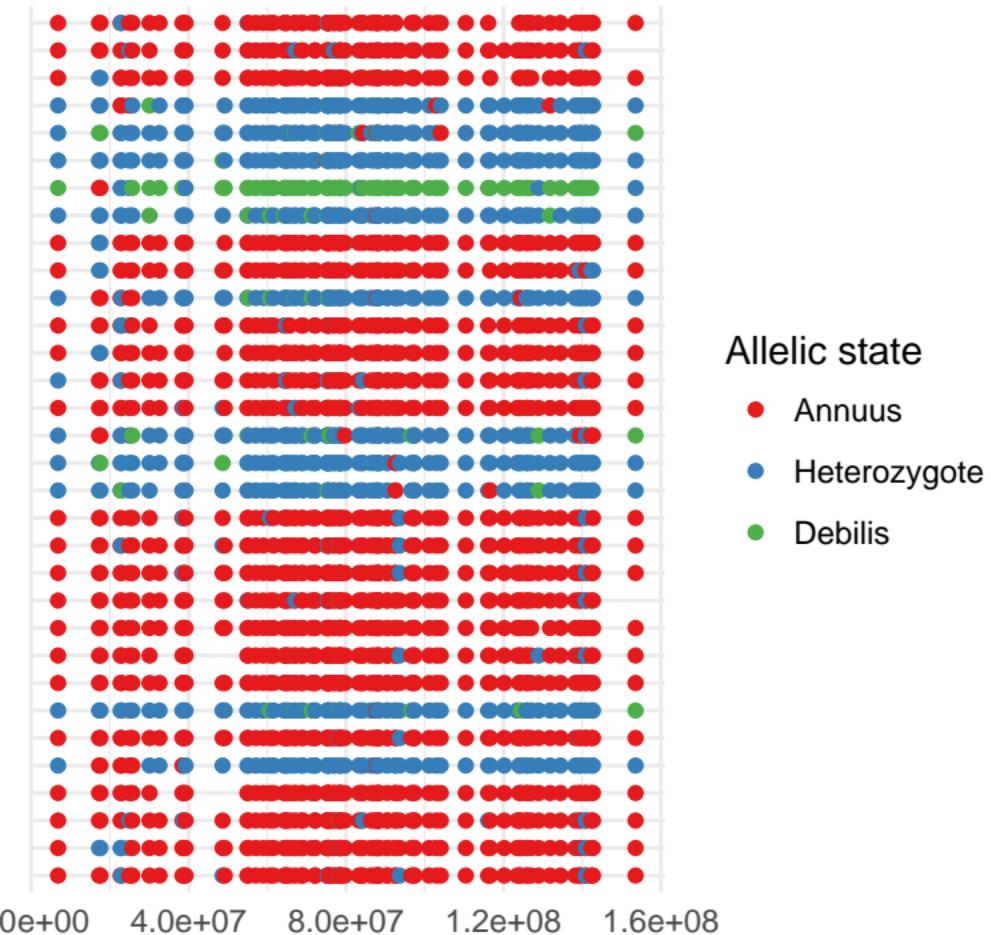


## Allelic state

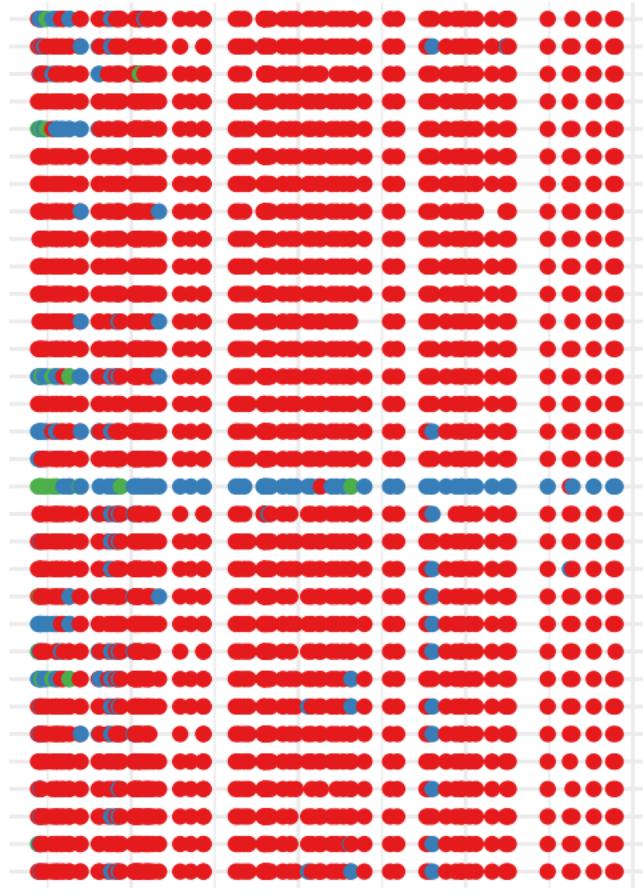
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# LBJ 2.5 HanXRQChr11



# LBJ 2.5 HanXRQChr12

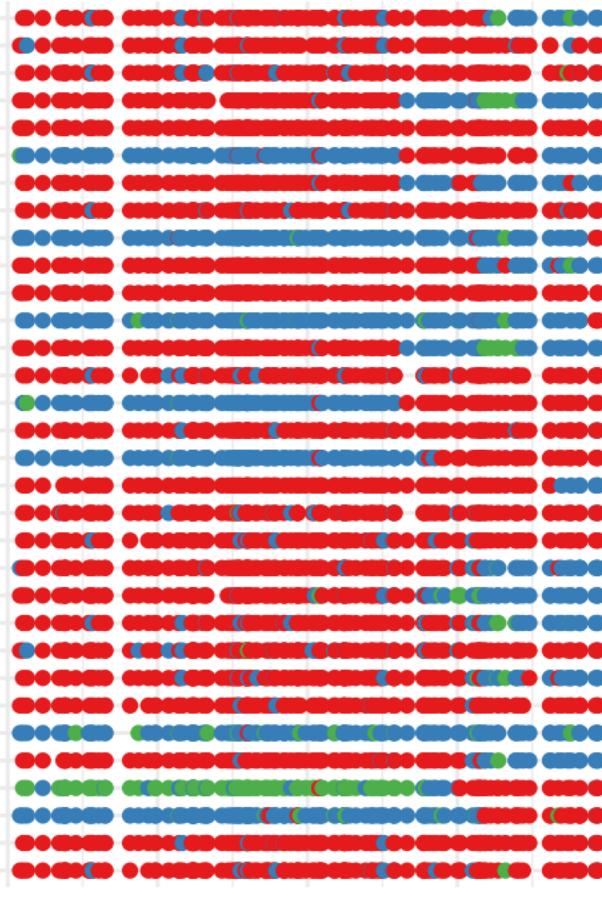


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# LBJ 2.5 HanXRQChr13

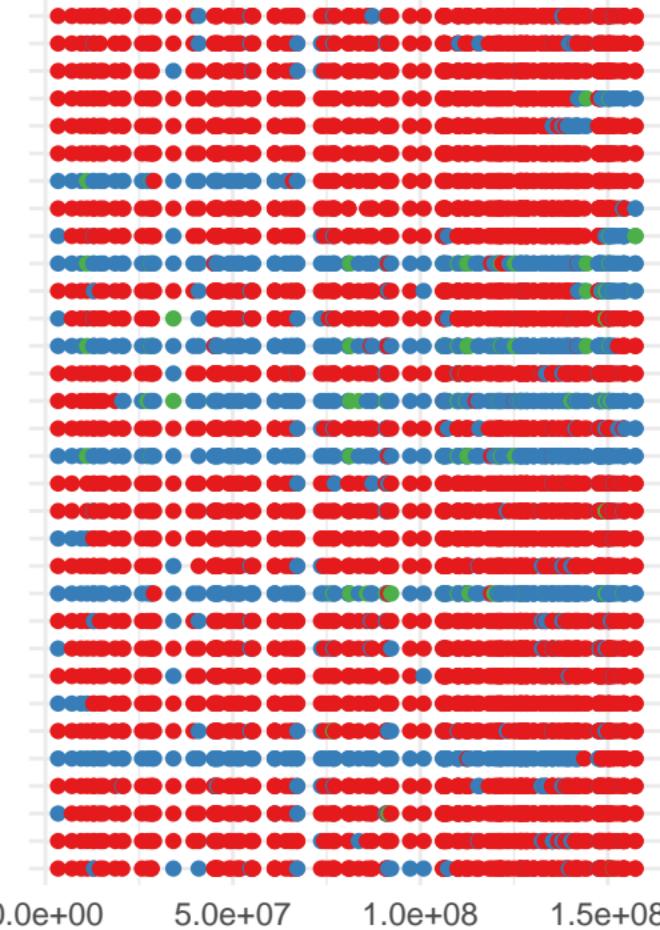


## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 2.5 HanXRQChr14



Allelic state

- Annuus
- Heterozygote
- Debilis

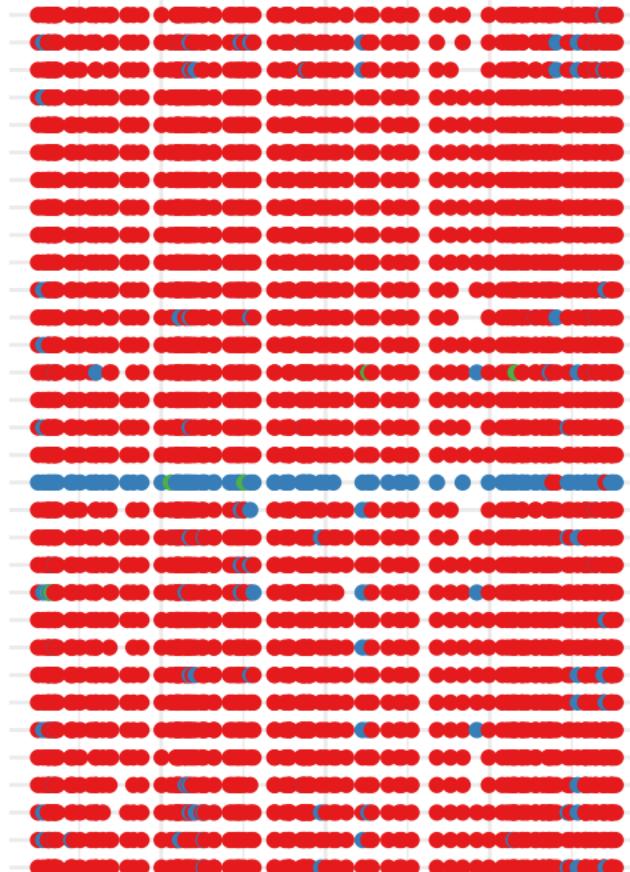
# LBJ 2.5 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 2.5 HanXRQChr16

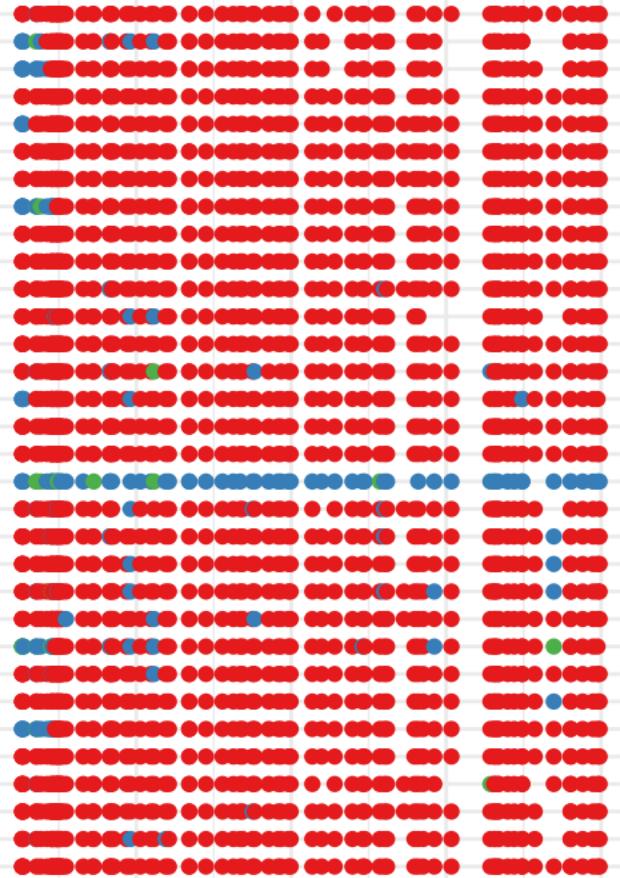


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# LBJ 2.5 HanXRQChr17

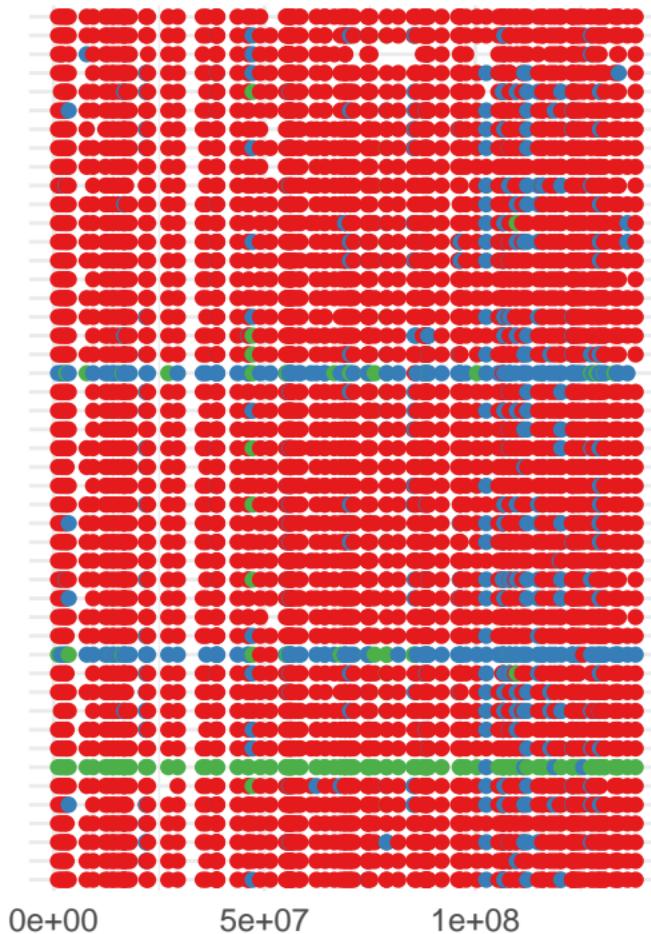


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

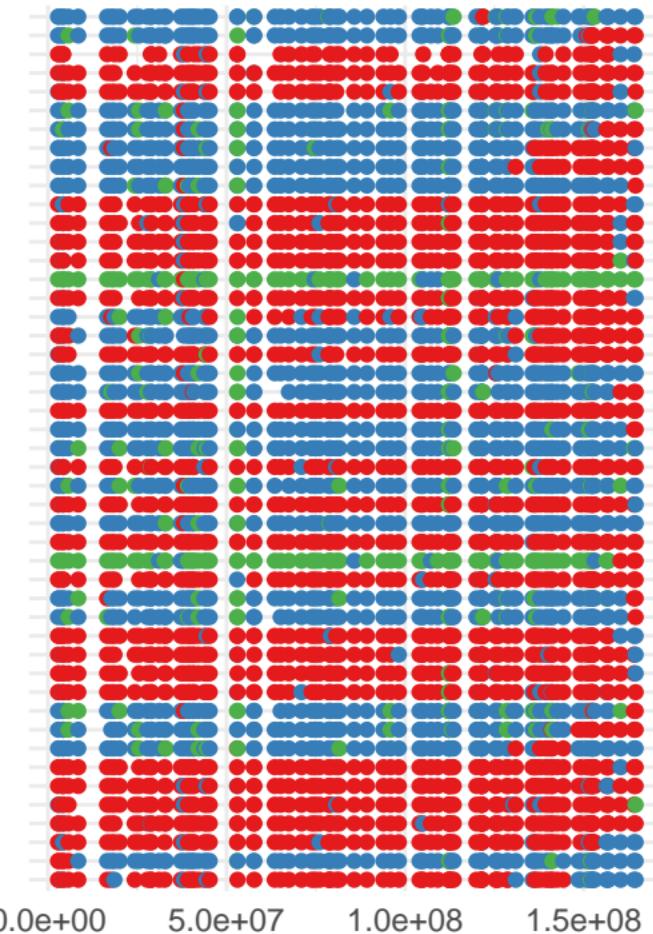
# LBJ 4 HanXRQChr01



## Allelic state

- Annus
- Heterozygote
- Debilis

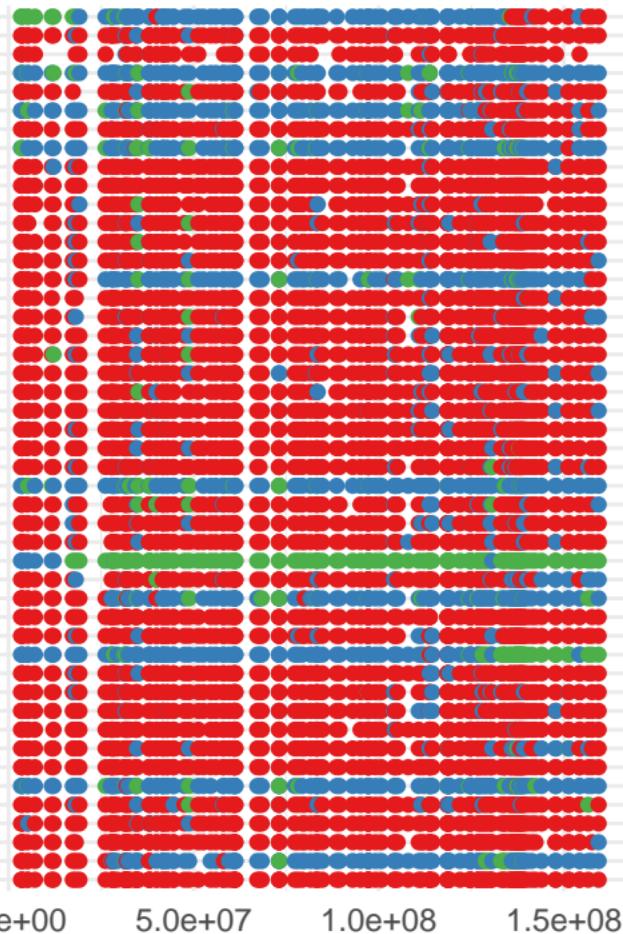
# LBJ 4 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

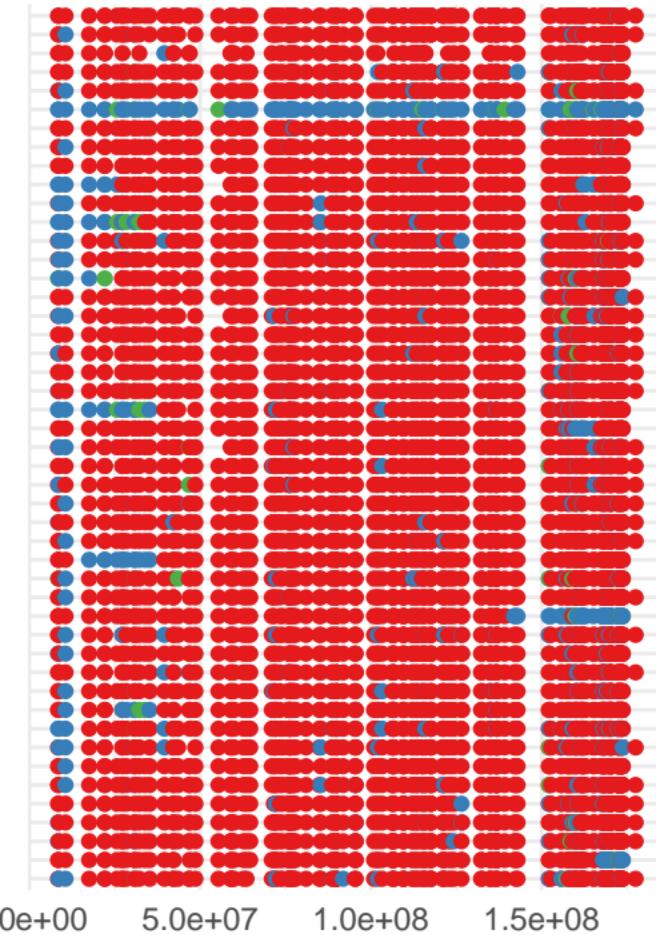
# LBJ 4 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 4 HanXRQChr04



Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 4 HanXRQChr05



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 4 HanXRQChr06



Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 4 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

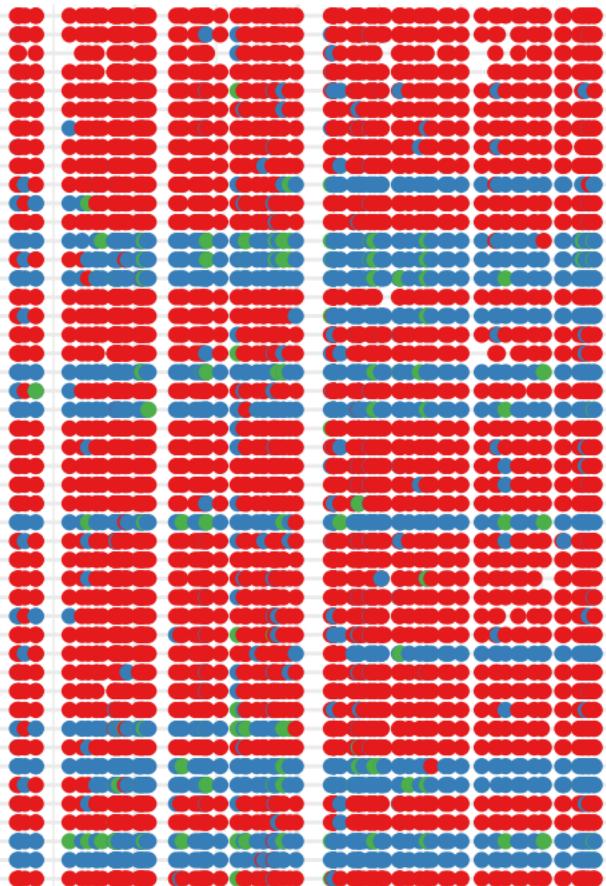
$2.5\text{e}+07$

$5.0\text{e}+07$

$7.5\text{e}+07$

$1.0\text{e}+08$

# LBJ 4 HanXRQChr08

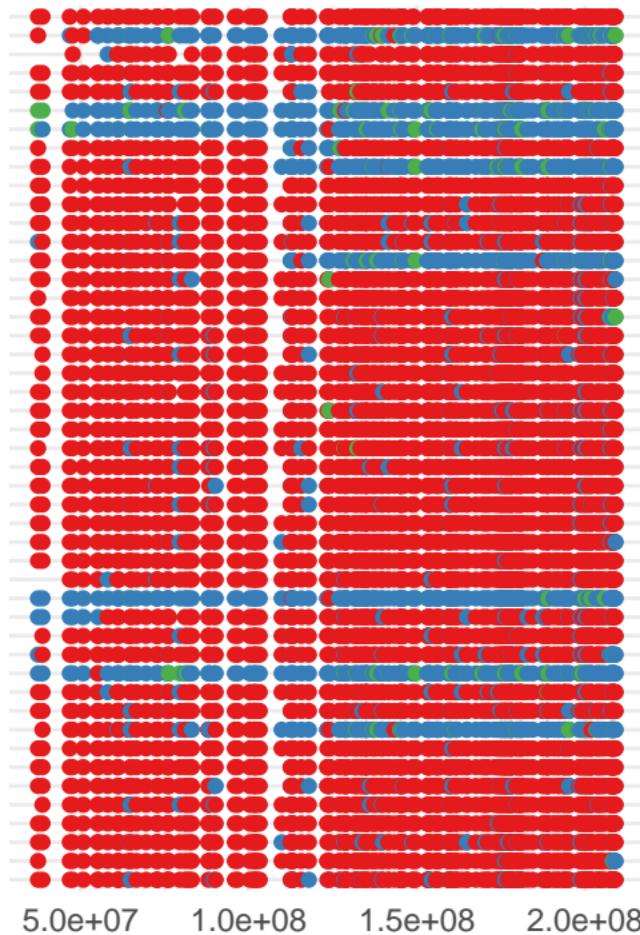


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# LBJ 4 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07

1.0e+08

1.5e+08

2.0e+08

# LBJ 4 HanXRQChr10

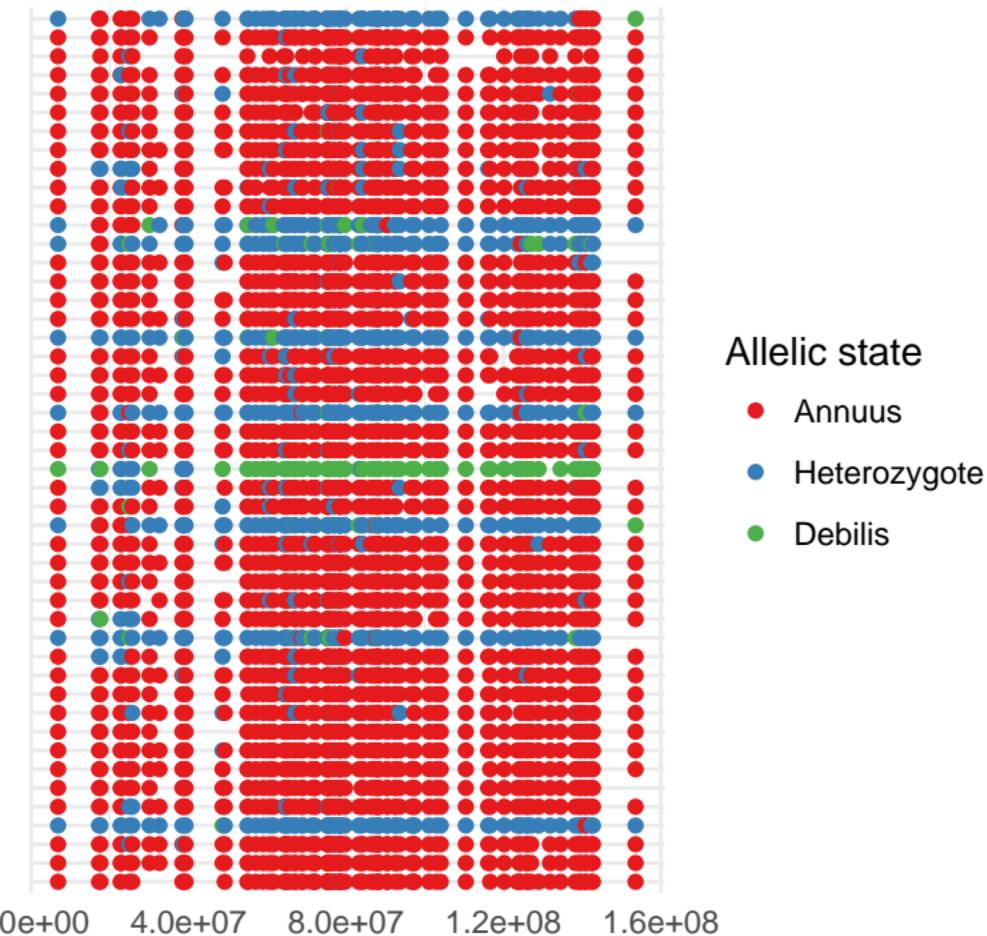


## Allelic state

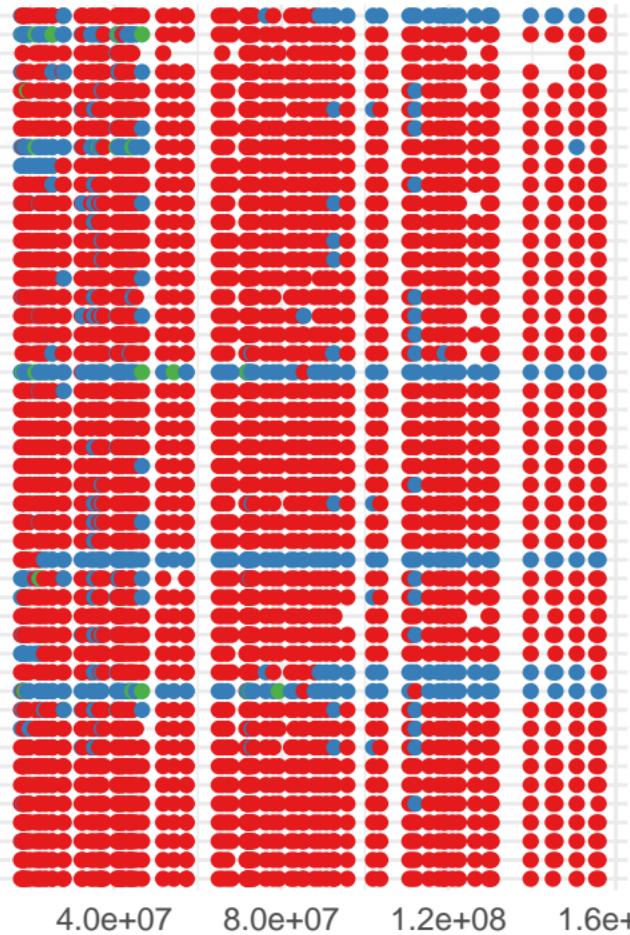
- Annuus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# LBJ 4 HanXRQChr11



# LBJ 4 HanXRQChr12



Allelic state

- Annuus
- Heterozygote
- Debilis

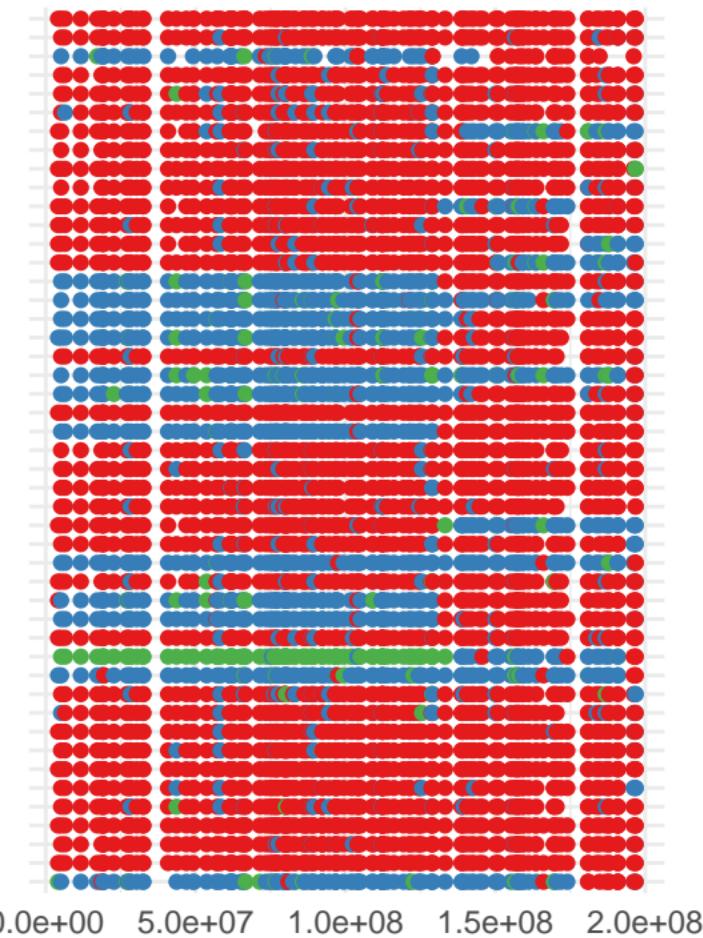
4.0e+07

8.0e+07

1.2e+08

1.6e+08

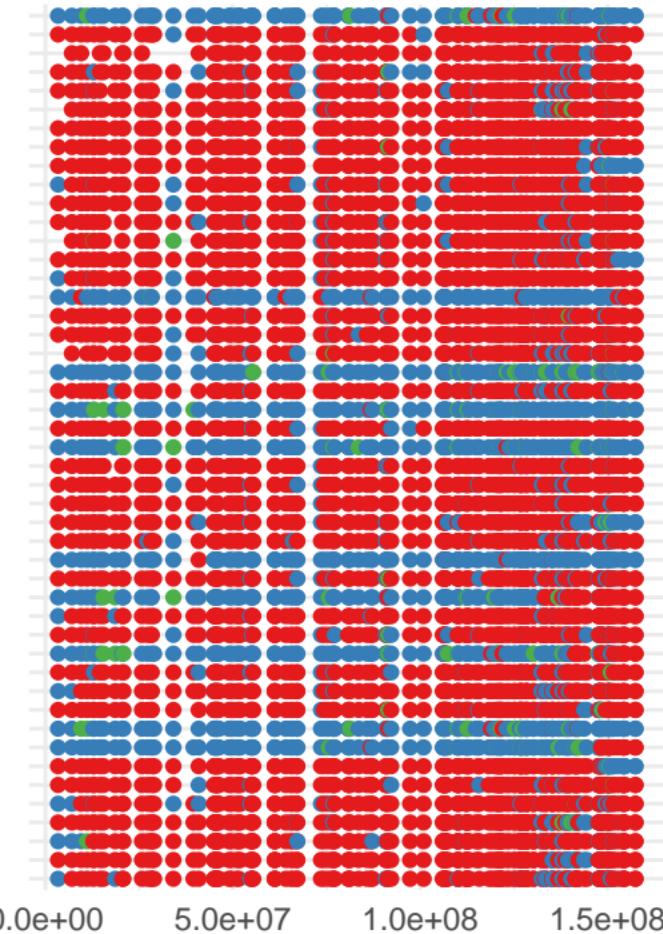
# LBJ 4 HanXRQChr13



## Allelic state

- Annus
- Heterozygote
- Debilis

# LBJ 4 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

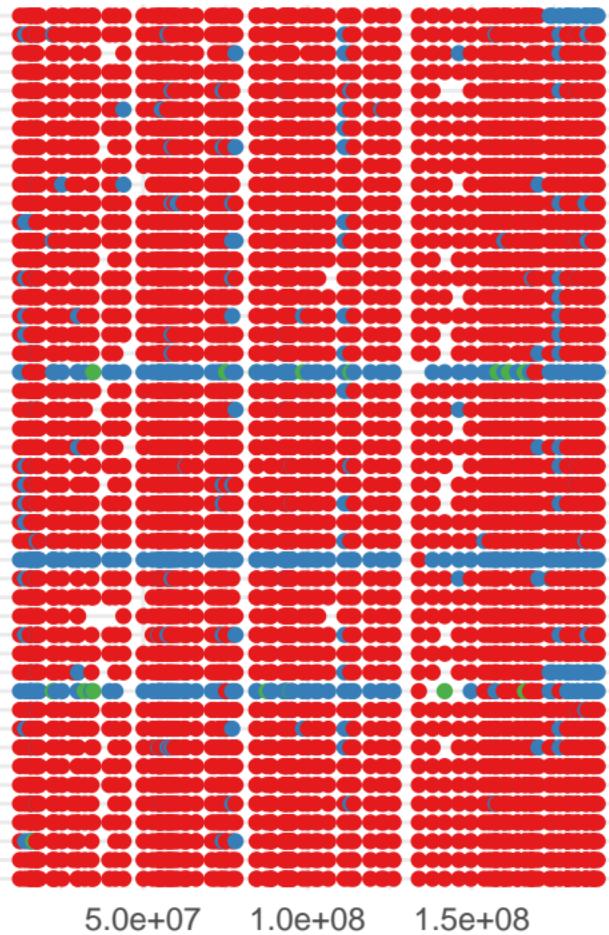
# LBJ 4 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

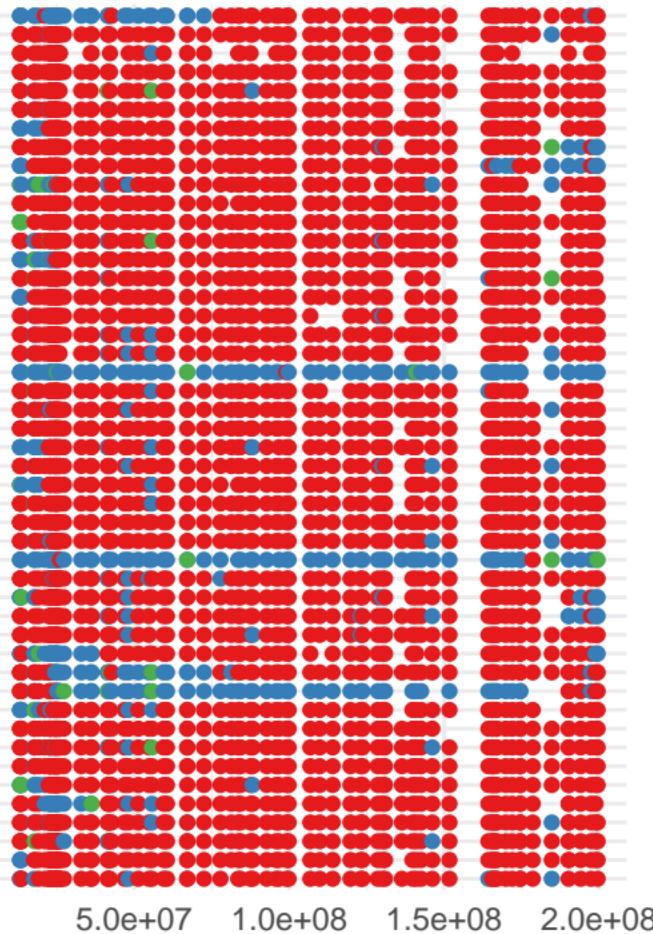
# LBJ 4 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 4 HanXRQChr17

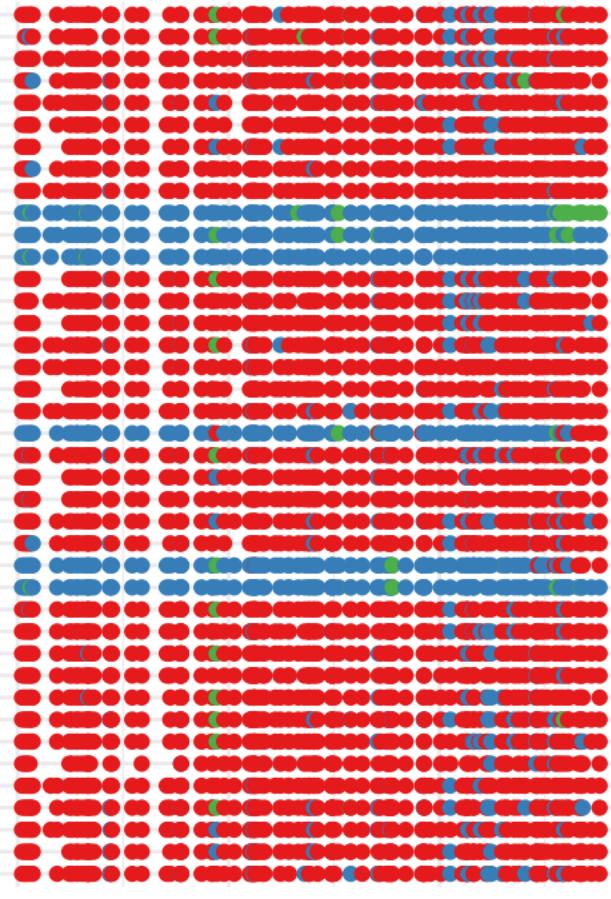


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 5 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

0e+00

5e+07

1e+08

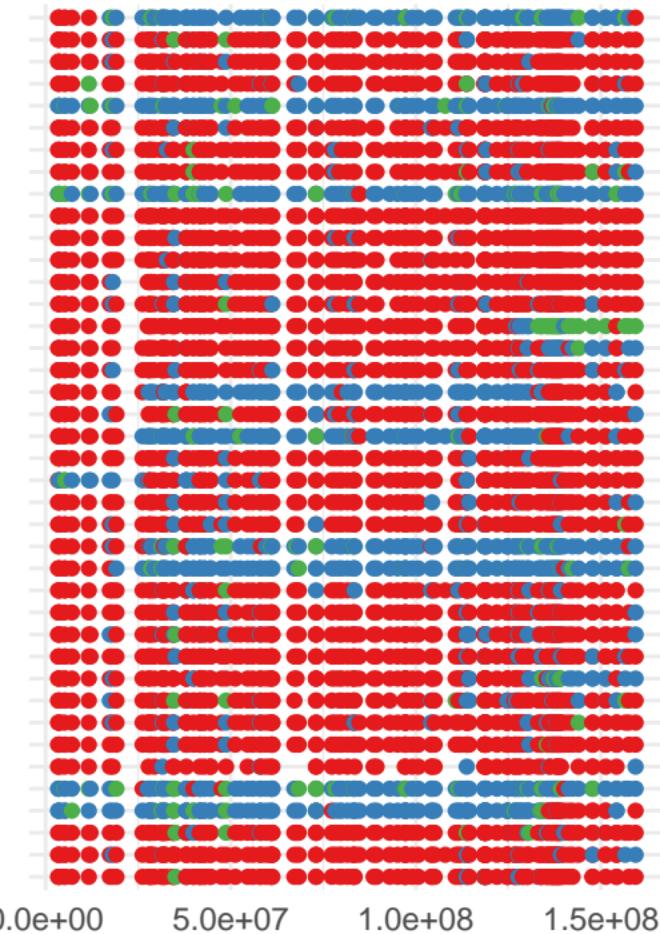
# LBJ 5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 5 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 5 HanXRQChr04



## Allelic state

- Annus
- Heterozygote
- Debilis

# LBJ 5 HanXRQChr05

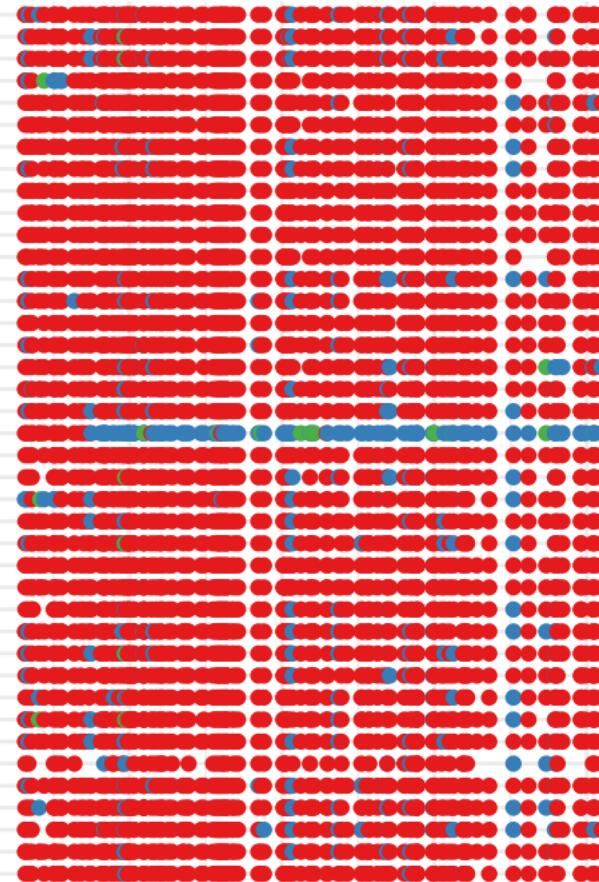


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 5 HanXRQChr06

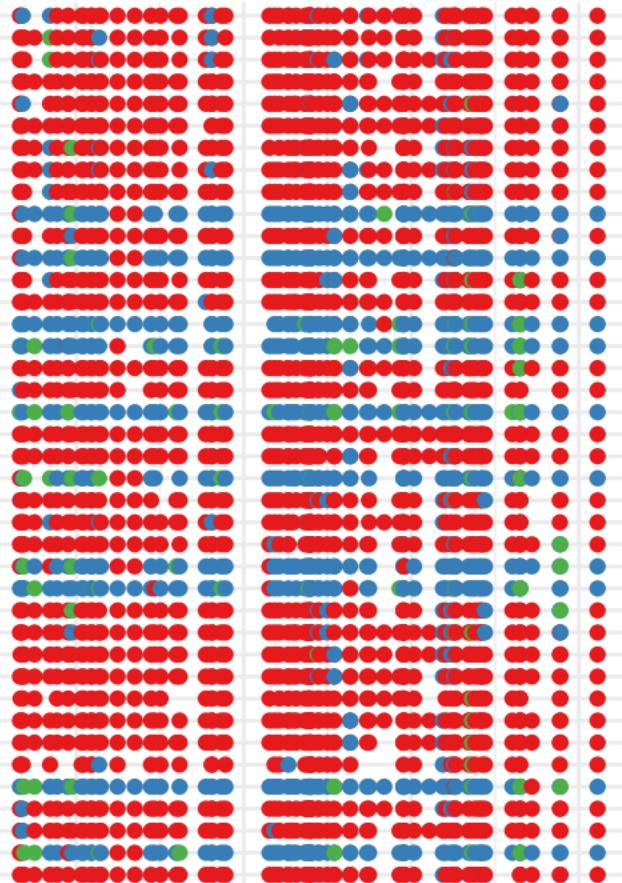


## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07   5.0e+07   7.5e+07   1.0e+08

# LBJ 5 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# LBJ 5 HanXRQChr08

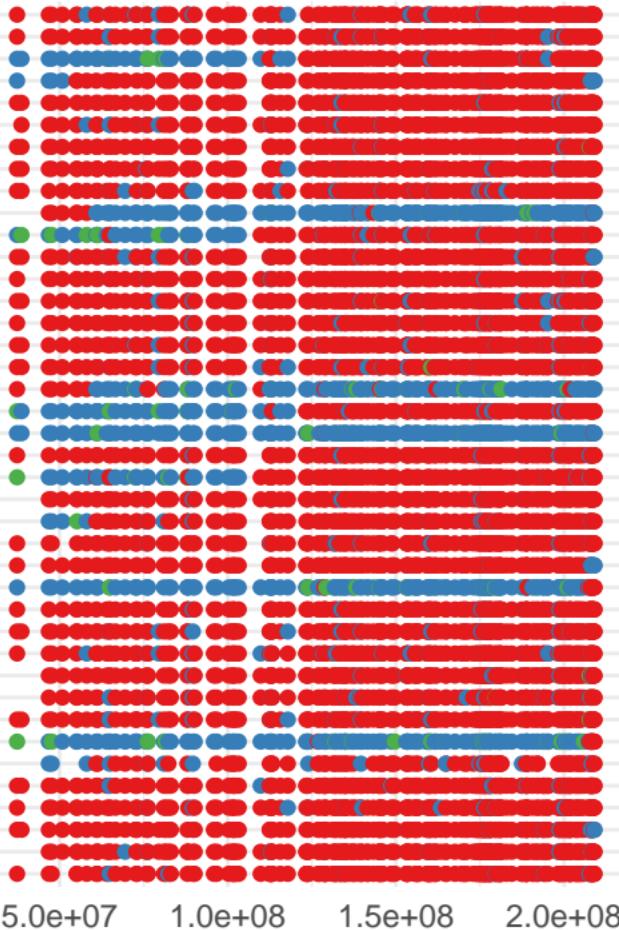


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# LBJ 5 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# LBJ 5 HanXRQChr10

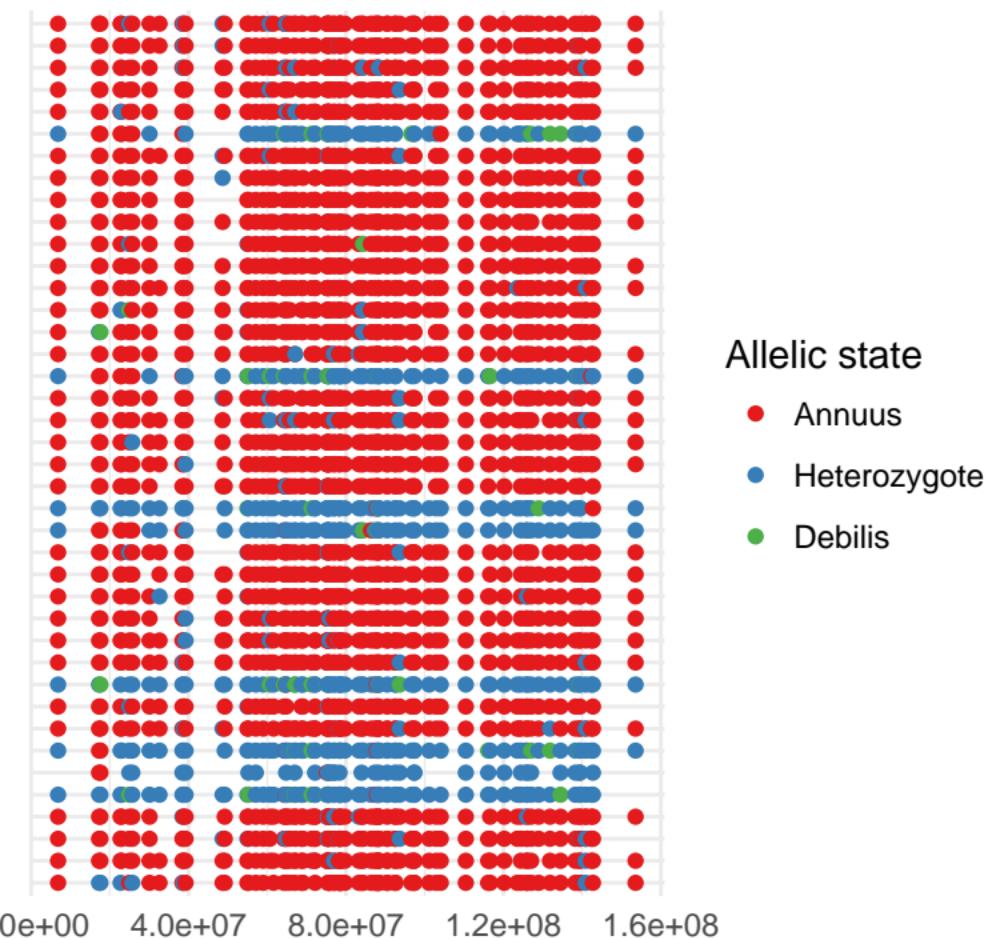


## Allelic state

- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# LBJ 5 HanXRQChr11



# LBJ 5 HanXRQChr12



## Allelic state

- Annuus
- Heterozygote
- Debilis

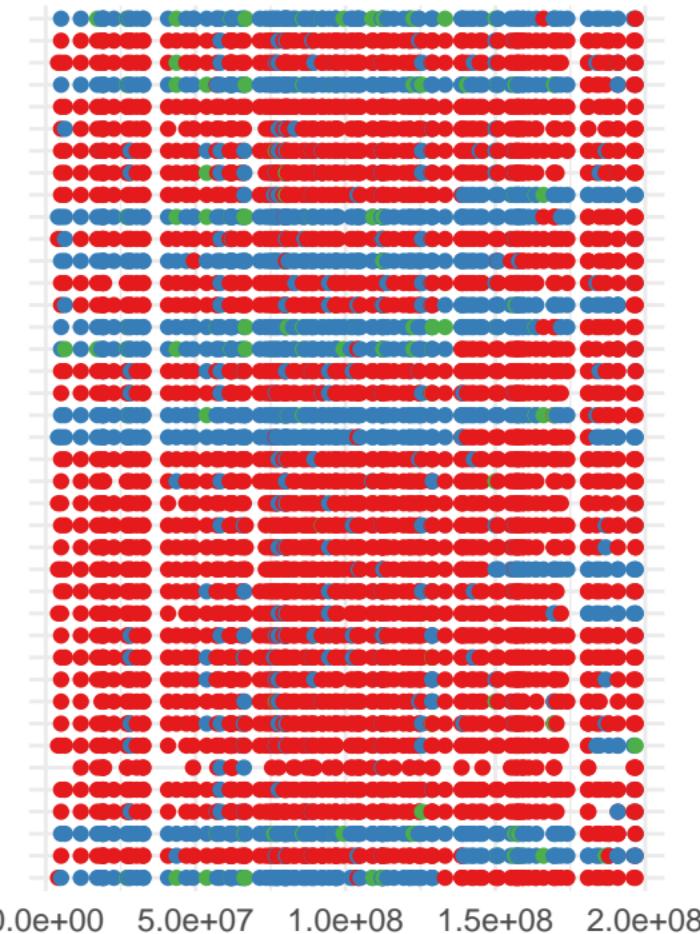
4.0e+07

8.0e+07

1.2e+08

1.6e+08

# LBJ 5 HanXRQChr13



## Allelic state

- Annus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

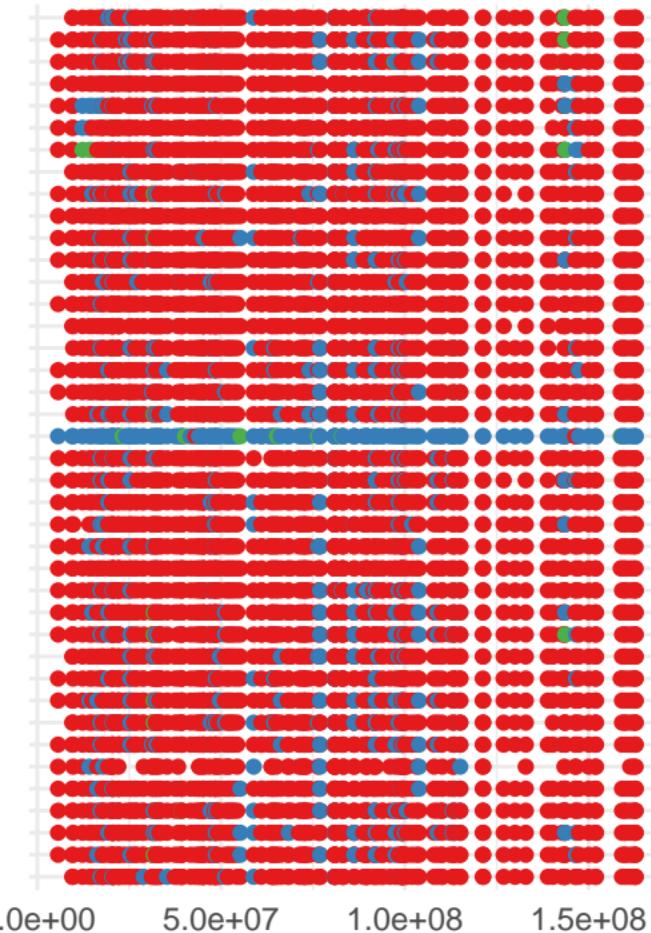
# LBJ 5 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 5 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 5 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# LBJ 5 HanXRQChr17

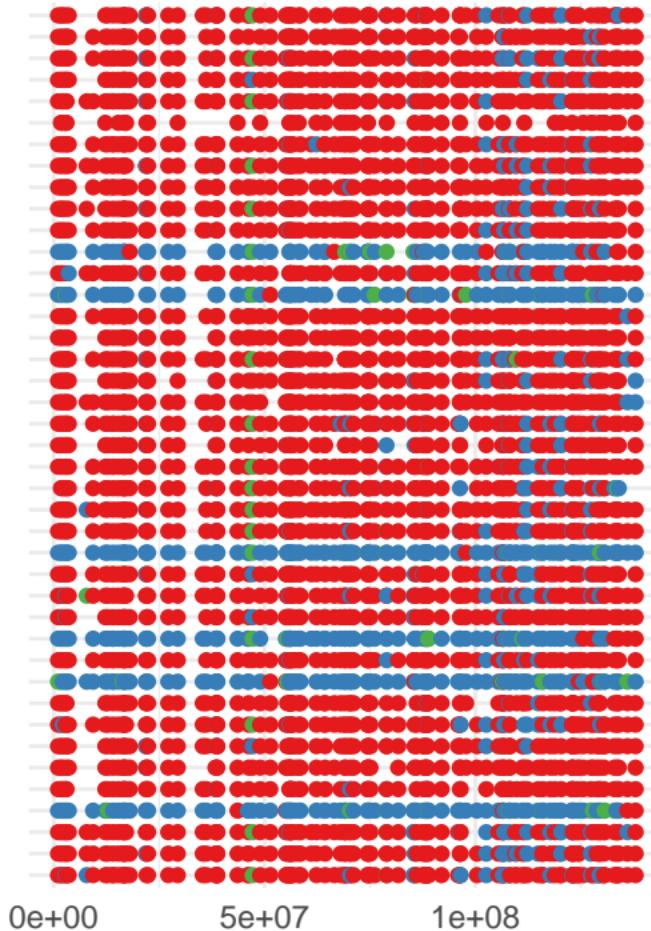


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07   1.0e+08   1.5e+08   2.0e+08

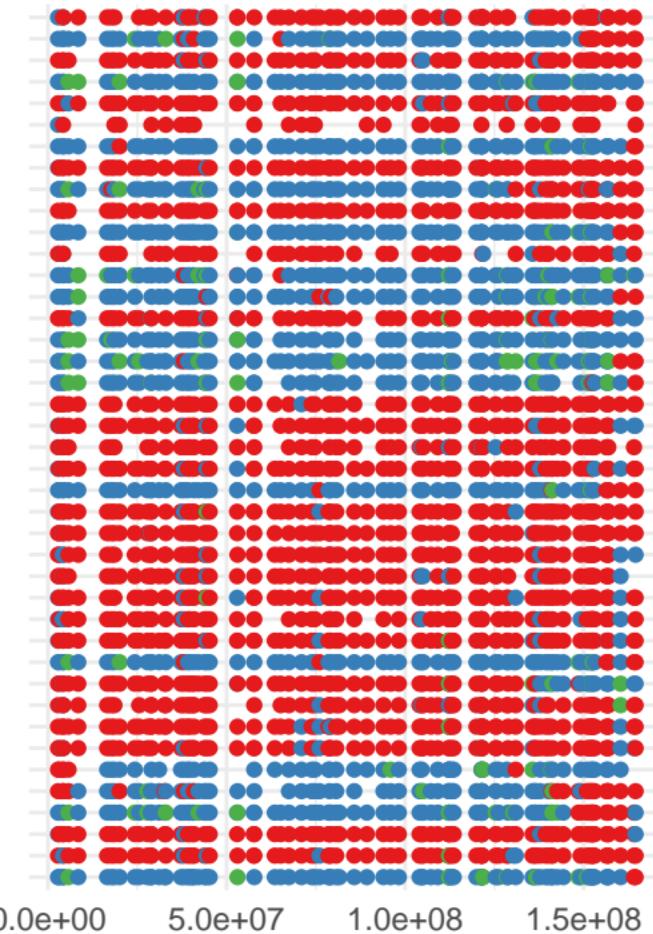
# LBJ 6 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

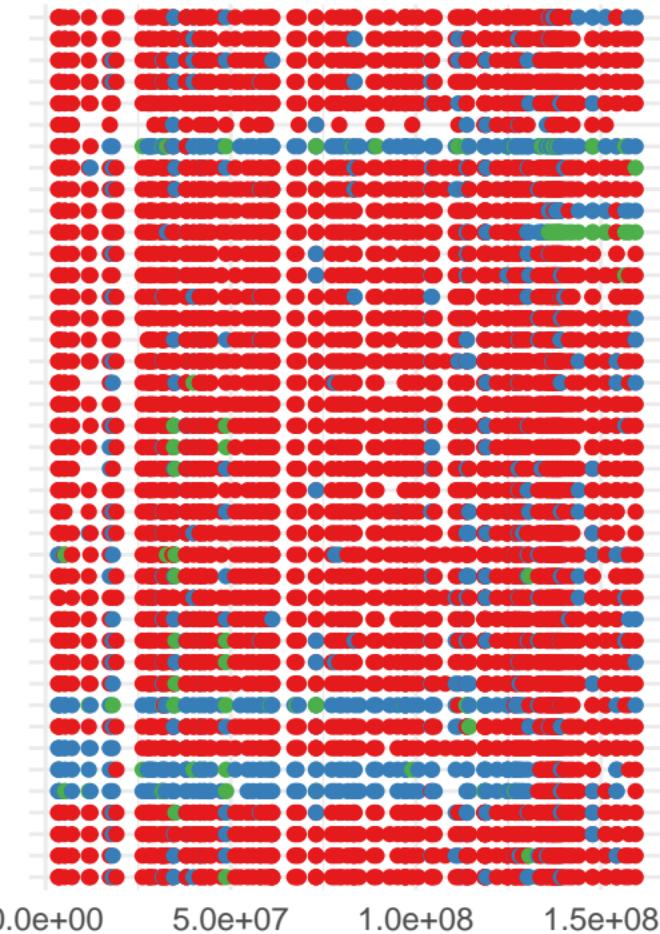
# LBJ 6 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

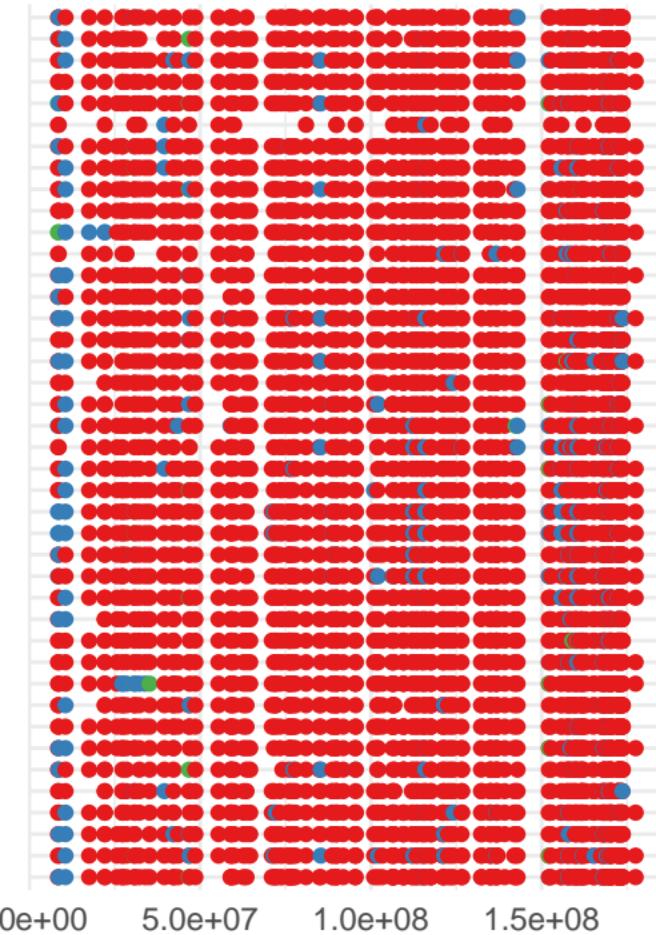
# LBJ 6 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 6 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 6 HanXRQChr05

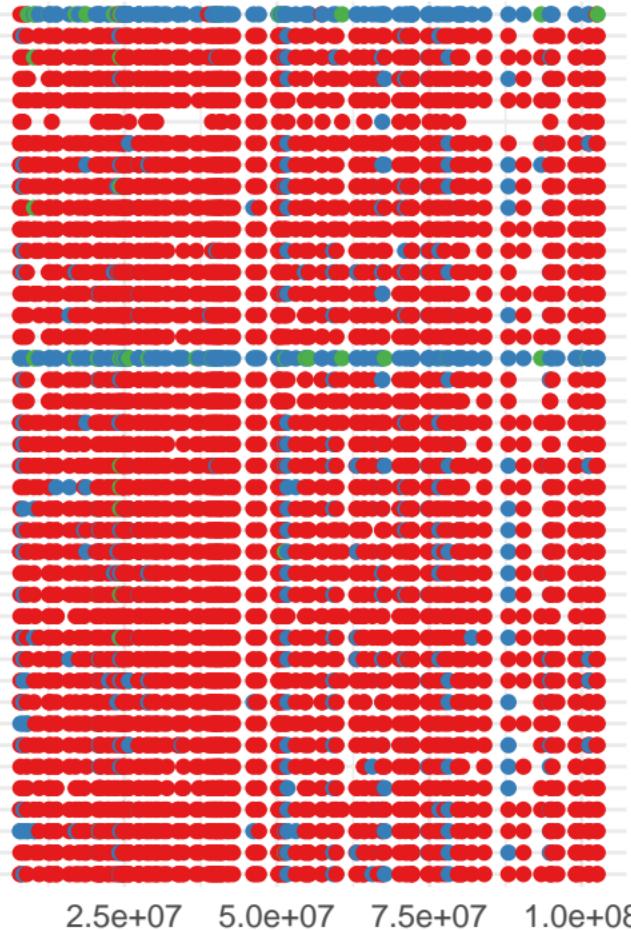


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 6 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07   5.0e+07   7.5e+07   1.0e+08

# LBJ 6 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

2.5e+07    5.0e+07    7.5e+07    1.0e+08

# LBJ 6 HanXRQChr08



## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# LBJ 6 HanXRQChr09

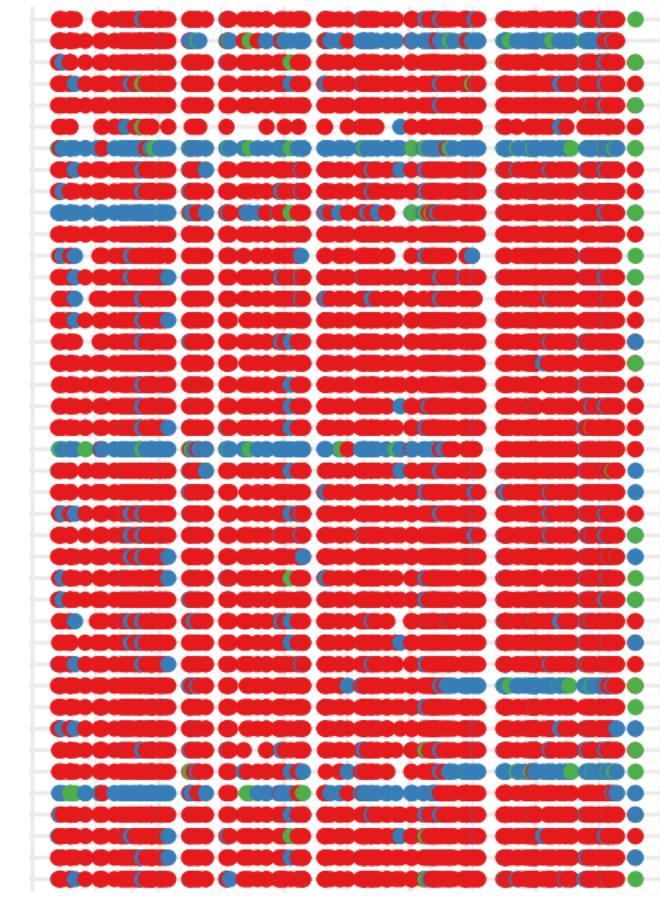


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08    2.0e+08

# LBJ 6 HanXRQChr10

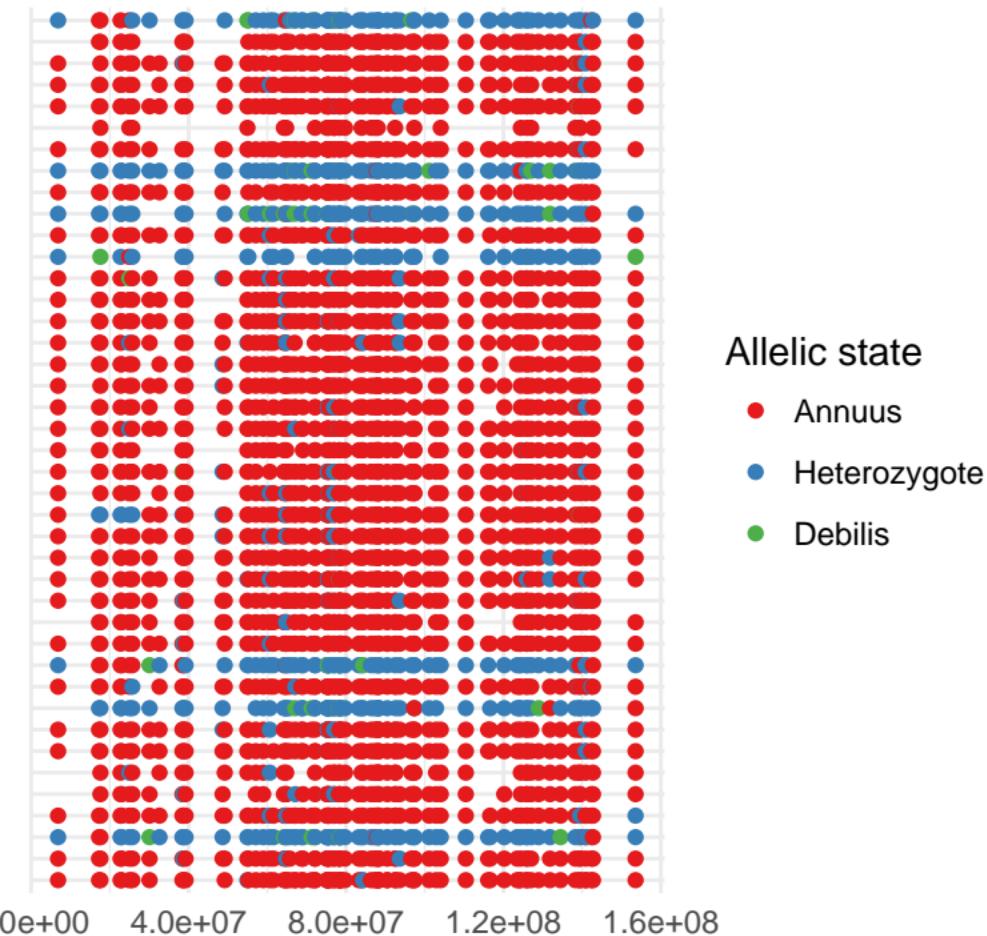


## Allelic state

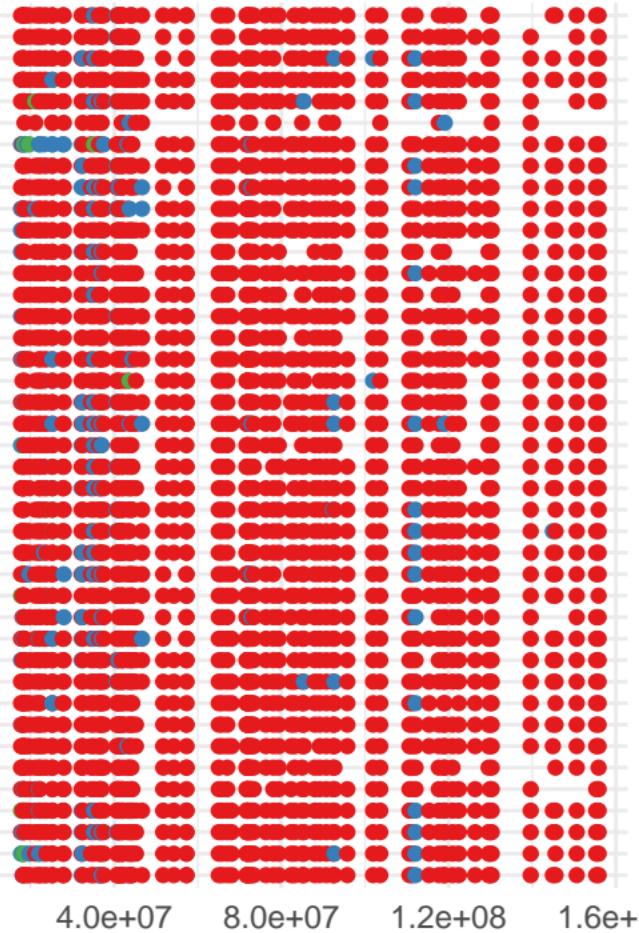
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# LBJ 6 HanXRQChr11



# LBJ 6 HanXRQChr12

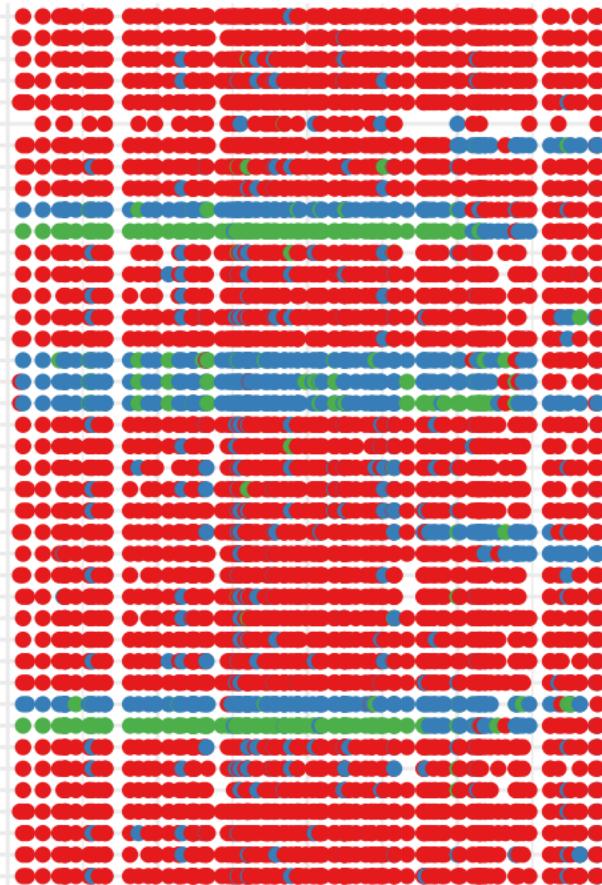


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# LBJ 6 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

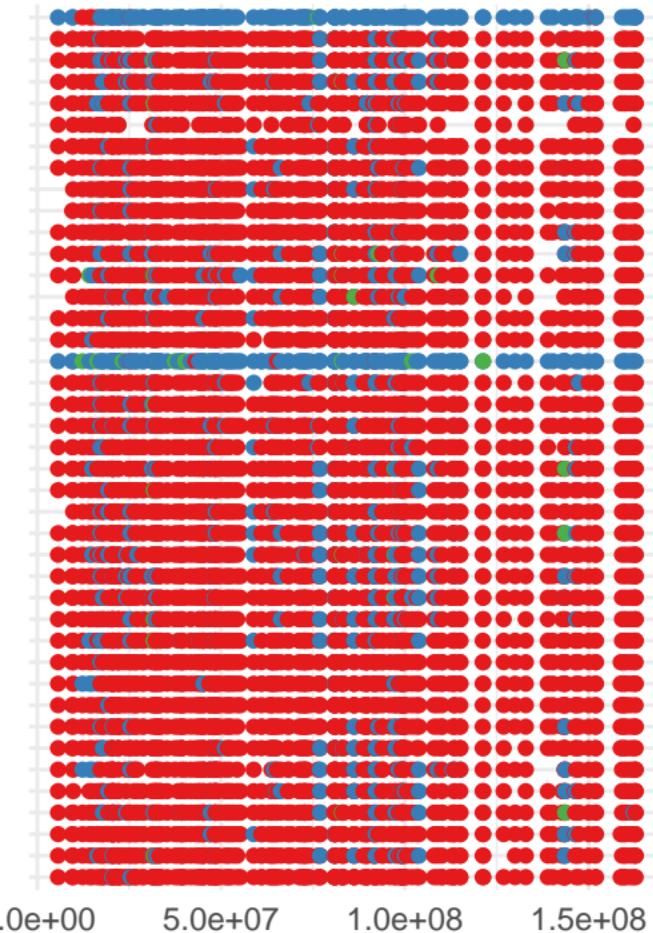
# LBJ 6 HanXRQChr14



## Allelic state

- Annuus
- Heterozygote
- Debilis

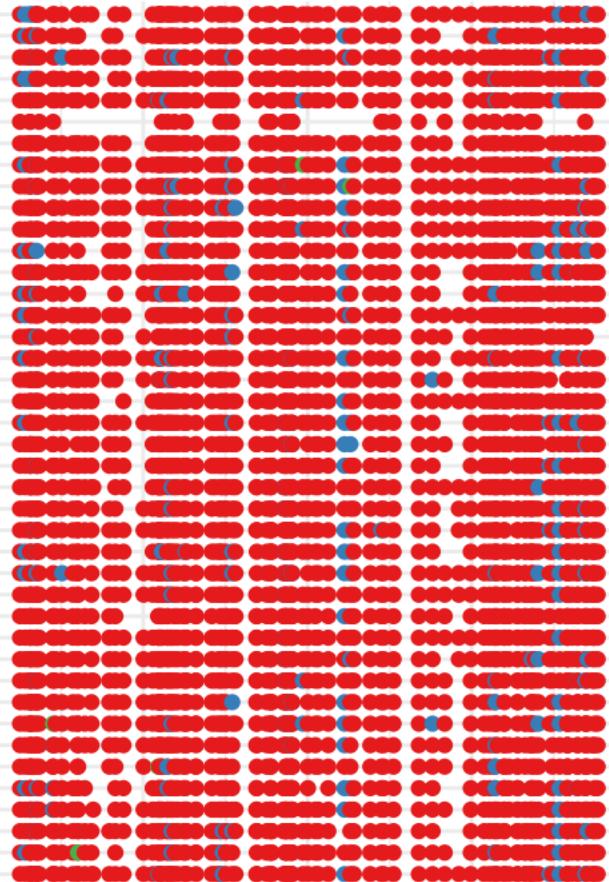
# LBJ 6 HanXRQChr15



## Allelic state

- Annus
- Heterozygote
- Debilis

# LBJ 6 HanXRQChr16



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# LBJ 6 HanXRQChr17

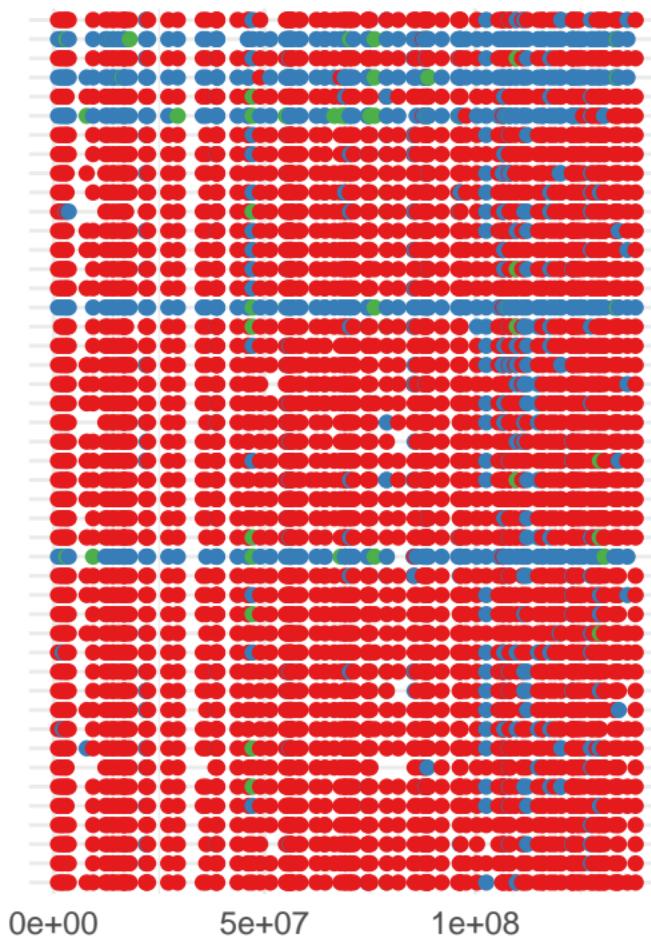


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

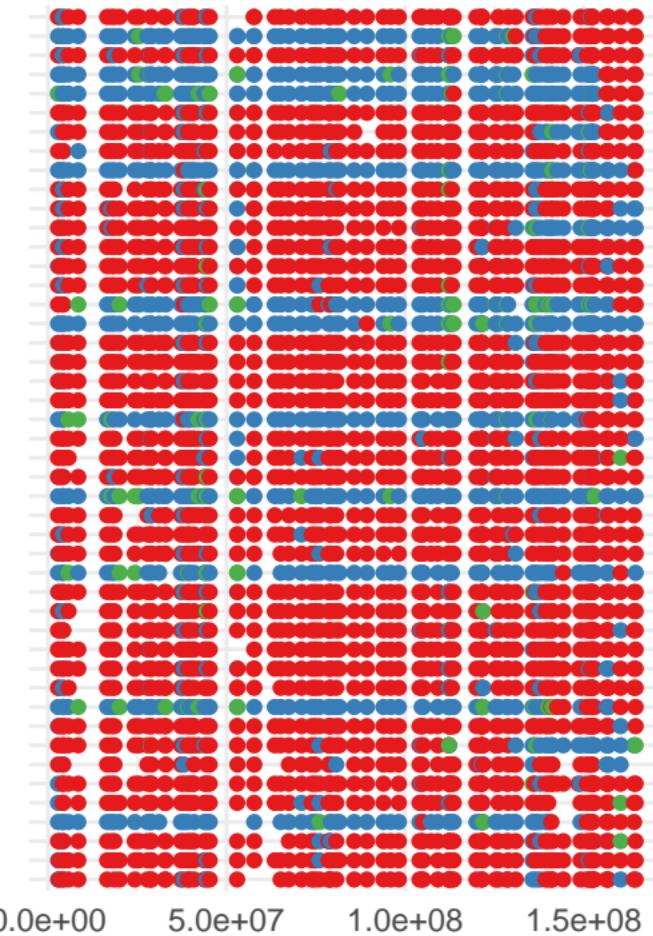
# LBJ 7 HanXRQChr01



## Allelic state

- Annuus
- Heterozygote
- Debilis

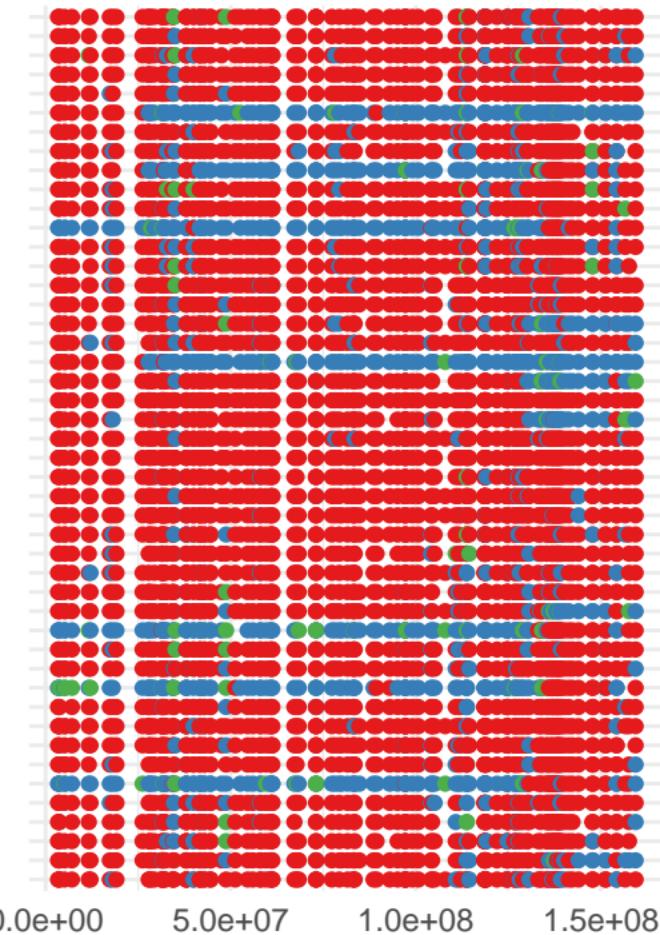
# LBJ 7 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 7 HanXRQChr03



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 7 HanXRQChr04



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 7 HanXRQChr05

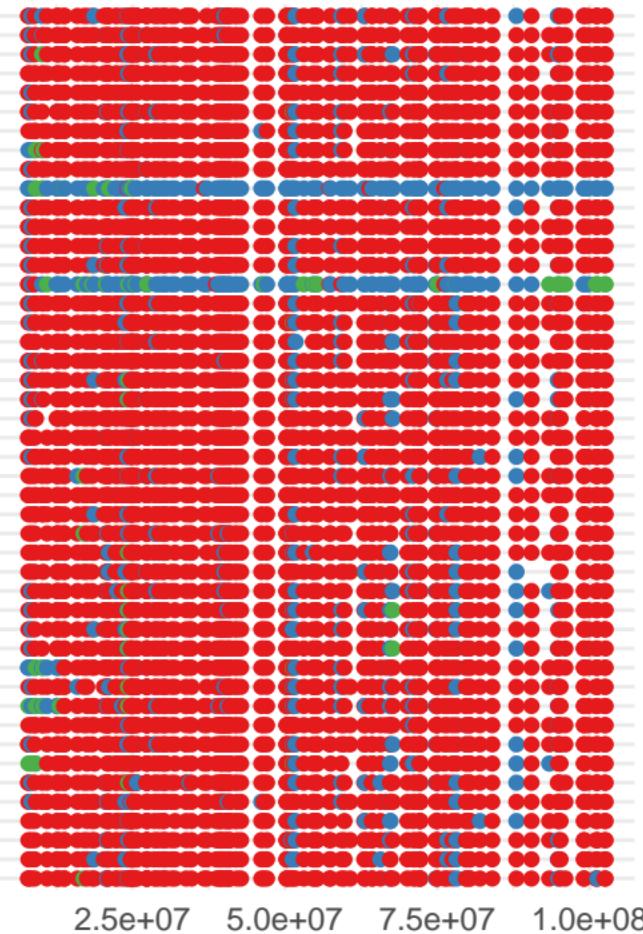


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

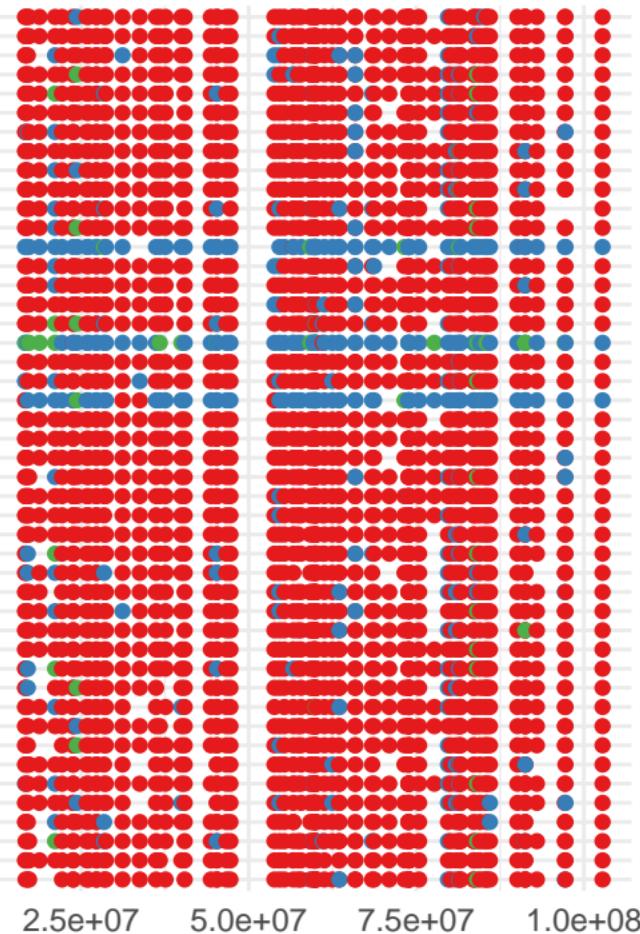
# LBJ 7 HanXRQChr06



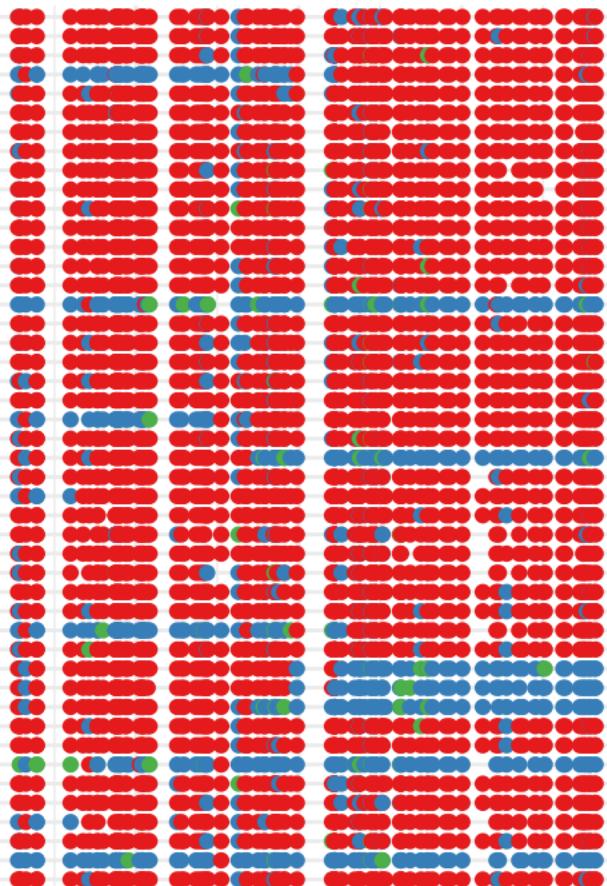
## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 7 HanXRQChr07



# LBJ 7 HanXRQChr08

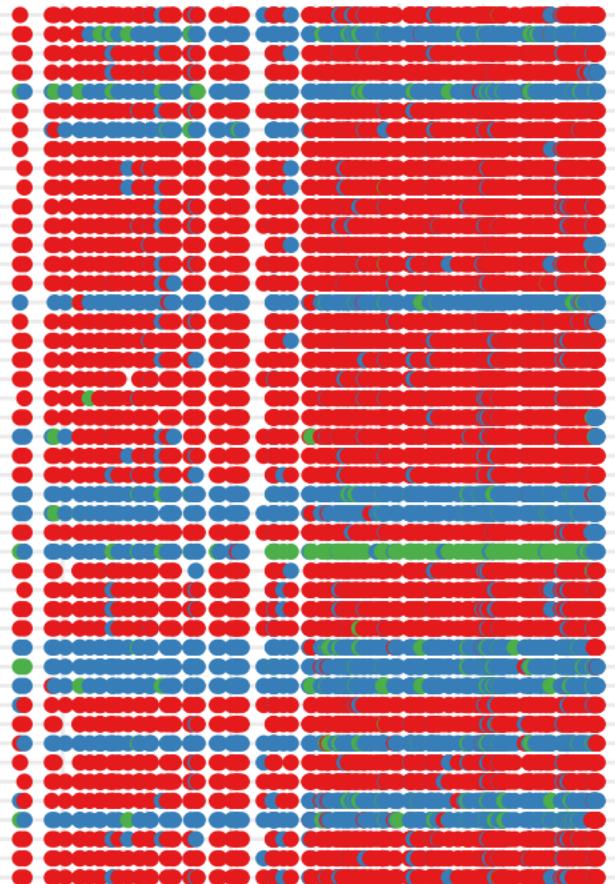


## Allelic state

- *Annuus*
- *Heterozygote*
- *Debilis*

4.0e+07    8.0e+07    1.2e+08

# LBJ 7 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

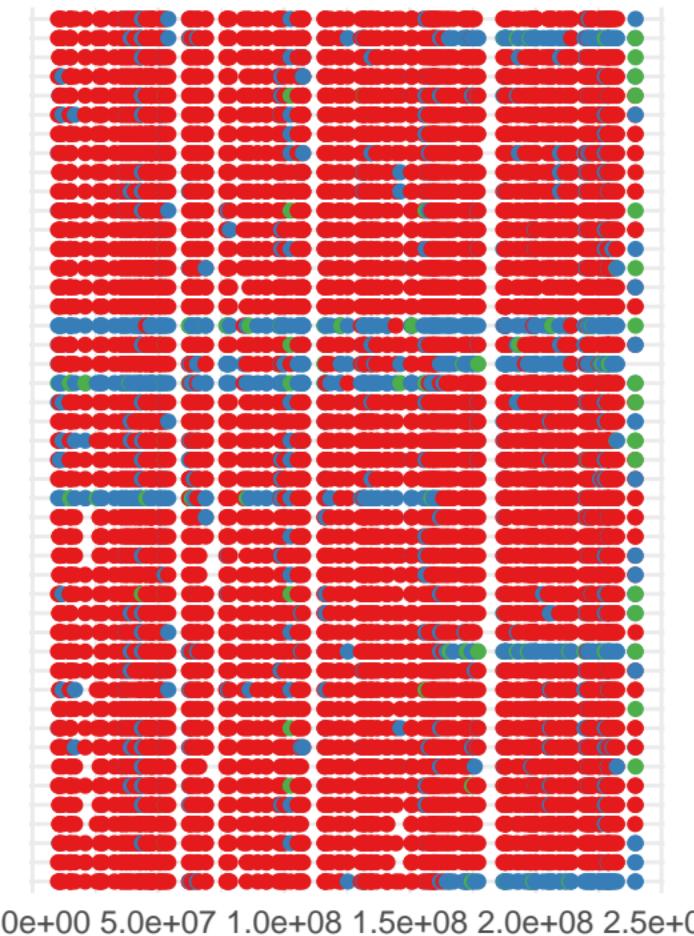
5.0e+07

1.0e+08

1.5e+08

2.0e+08

# LBJ 7 HanXRQChr10

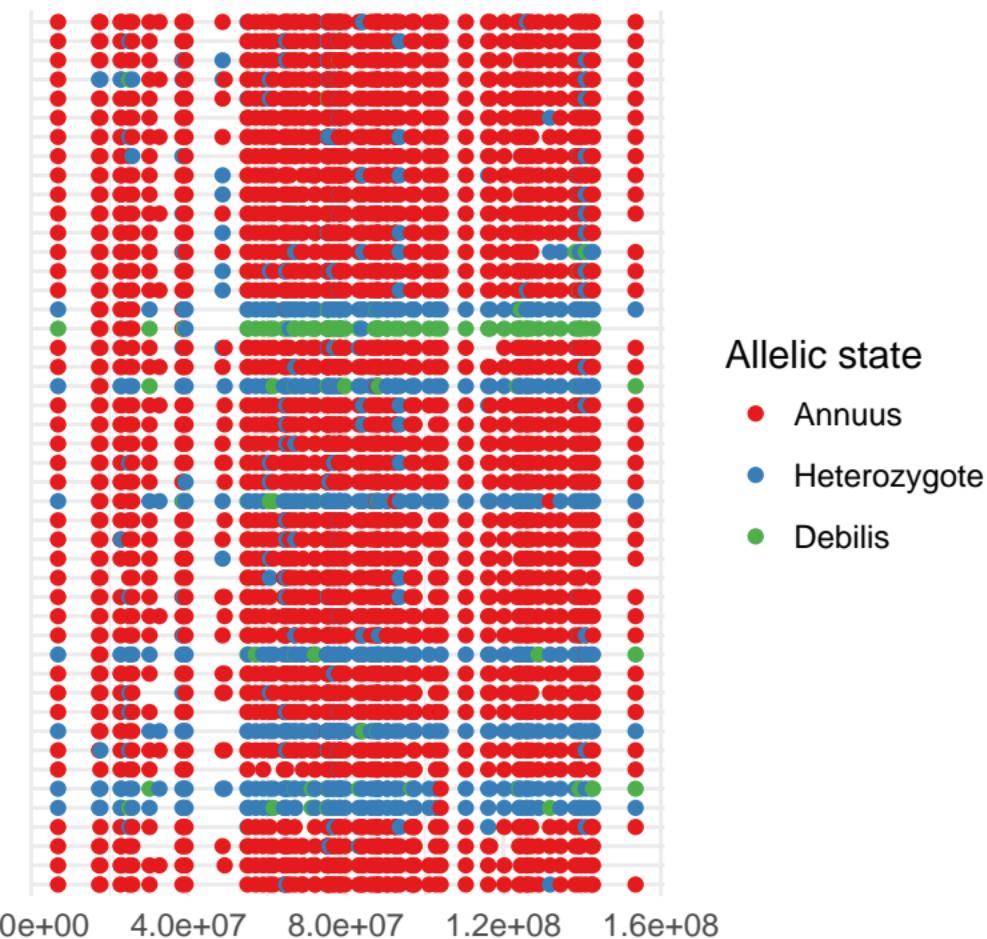


## Allelic state

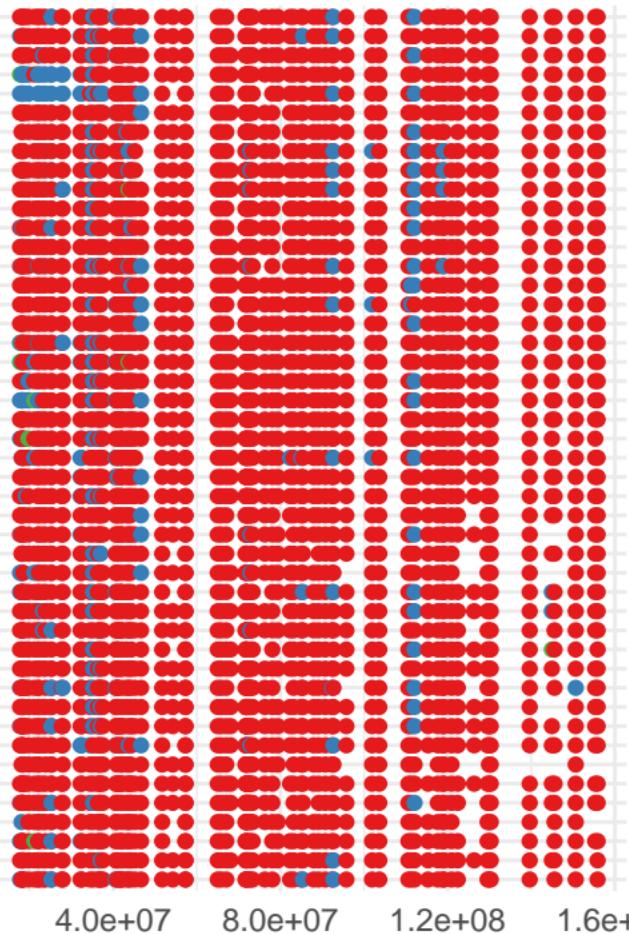
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# LBJ 7 HanXRQChr11



# LBJ 7 HanXRQChr12

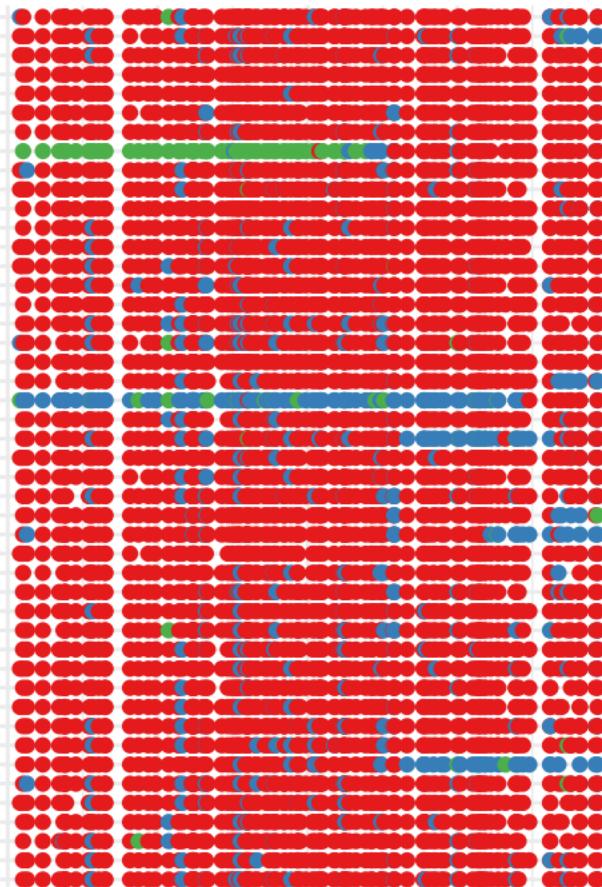


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# LBJ 7 HanXRQChr13



## Allelic state

- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

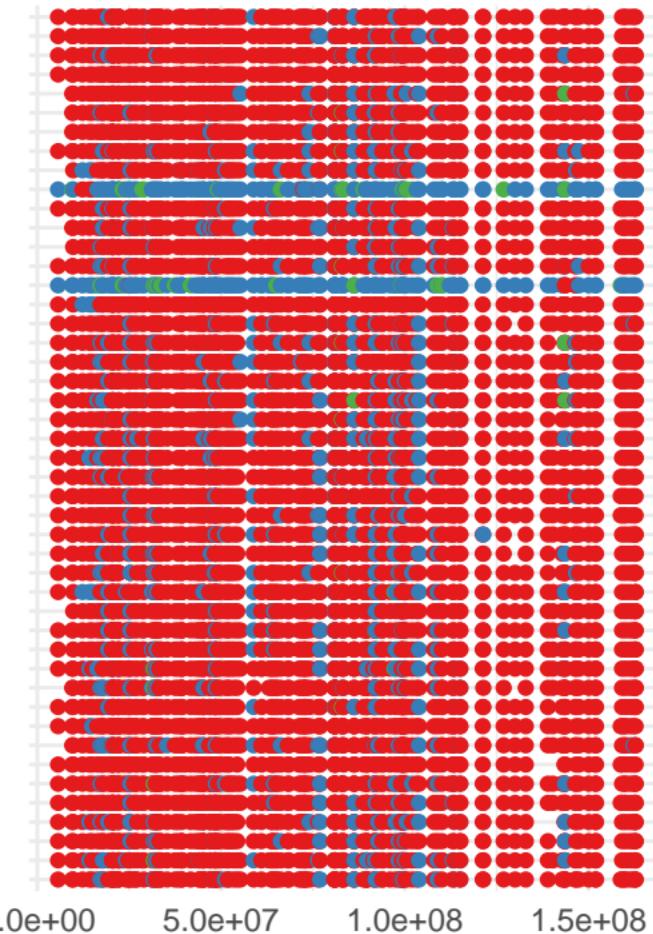
# LBJ 7 HanXRQChr14



## Allelic state

- Annus
- Heterozygote
- Debilis

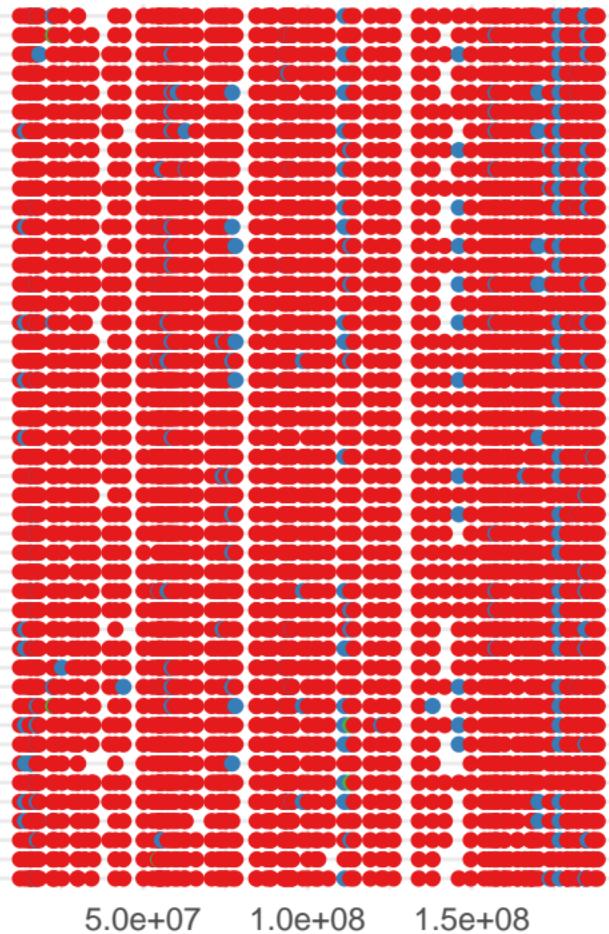
# LBJ 7 HanXRQChr15



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 7 HanXRQChr16



## Allelic state

- Annus
- Heterozygote
- Debilis

# LBJ 7 HanXRQChr17

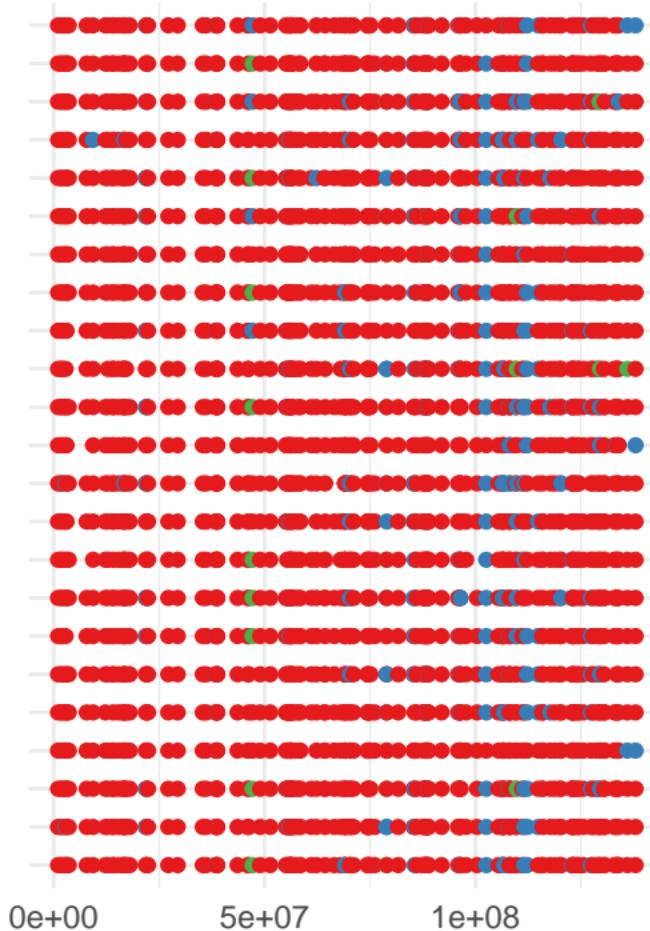


## Allelic state

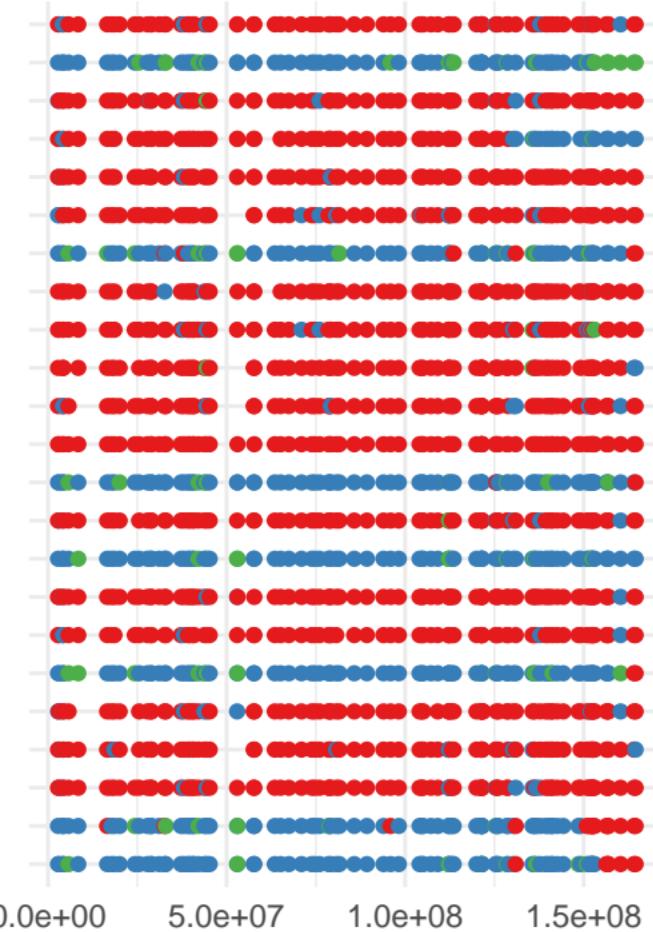
- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 7.5 HanXRQChr01



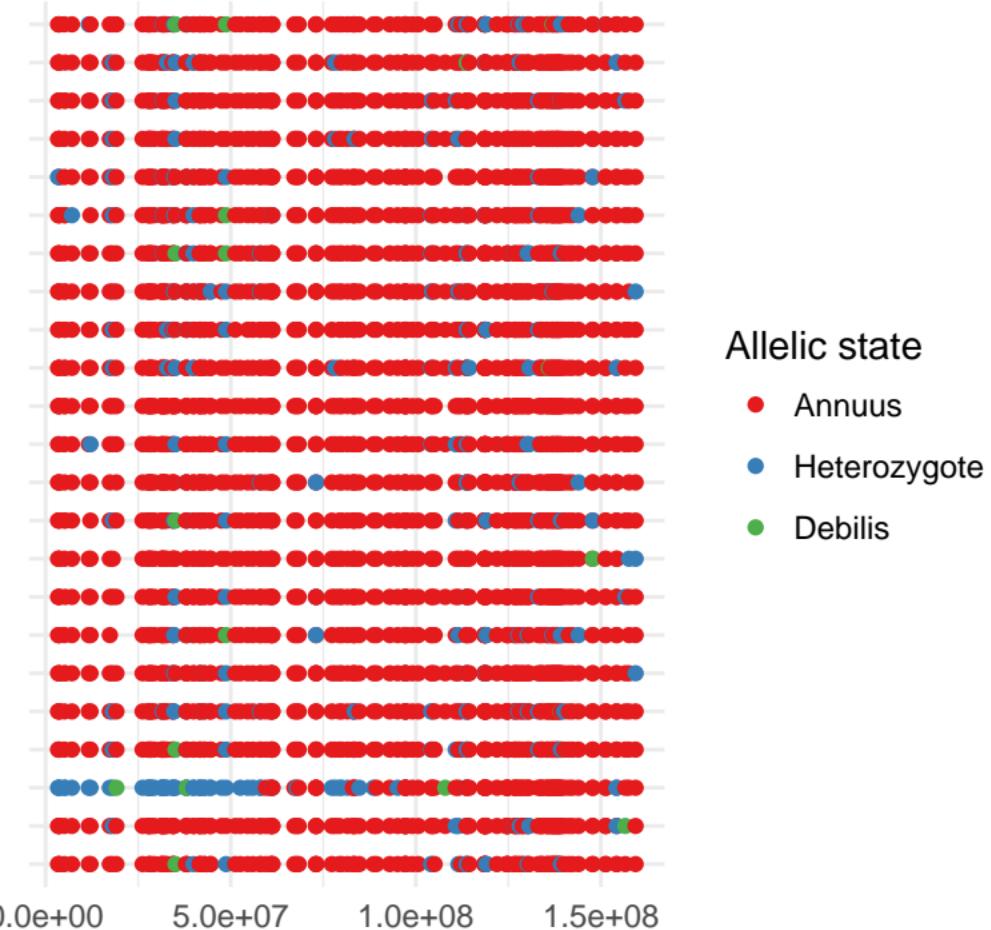
# LBJ 7.5 HanXRQChr02



## Allelic state

- Annuus
- Heterozygote
- Debilis

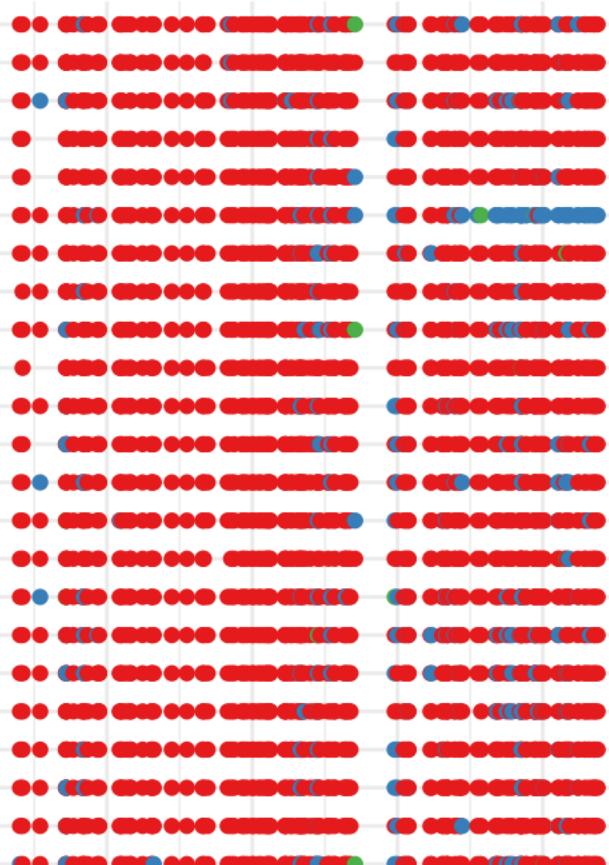
# LBJ 7.5 HanXRQChr03



# LBJ 7.5 HanXRQChr04



# LBJ 7.5 HanXRQChr05

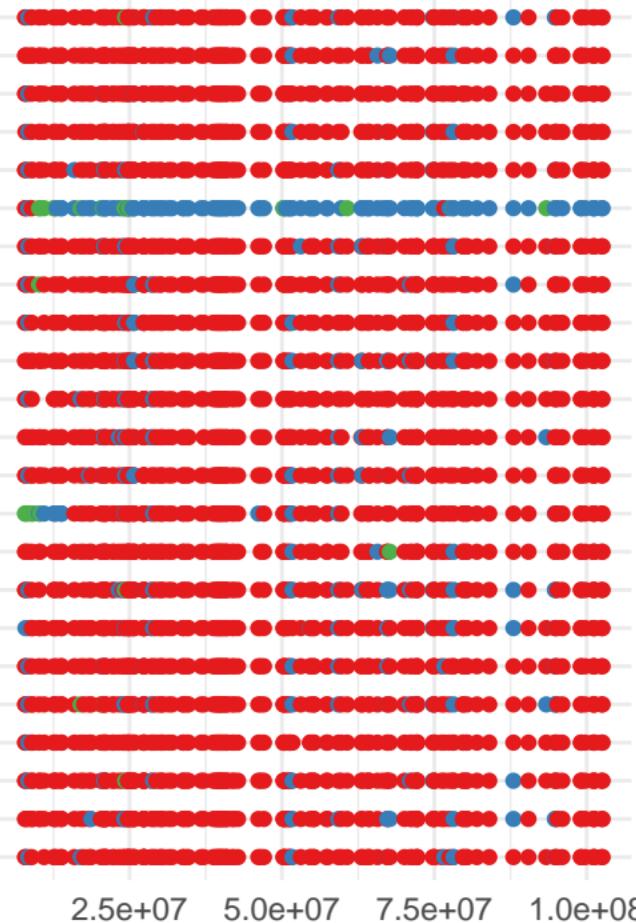


## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07 1.0e+08 1.5e+08 2.0e+08

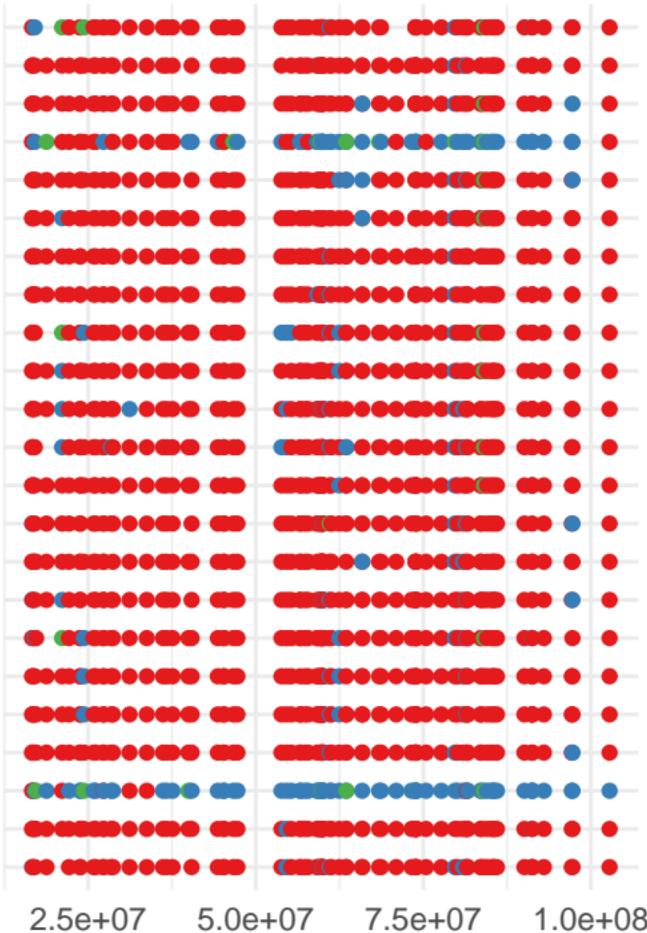
# LBJ 7.5 HanXRQChr06



## Allelic state

- Annuus
- Heterozygote
- Debilis

# LBJ 7.5 HanXRQChr07



## Allelic state

- Annuus
- Heterozygote
- Debilis

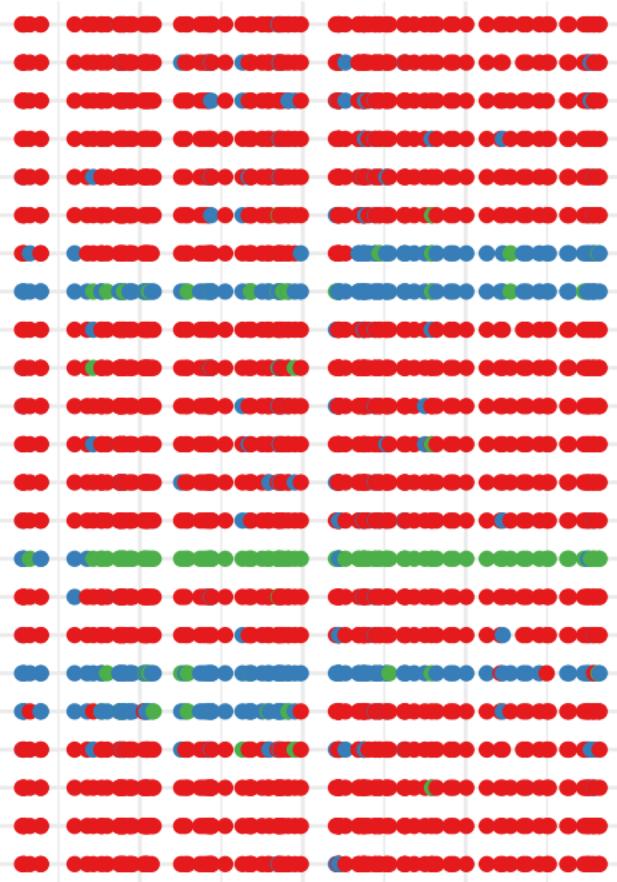
2.5e+07

5.0e+07

7.5e+07

1.0e+08

# LBJ 7.5 HanXRQChr08

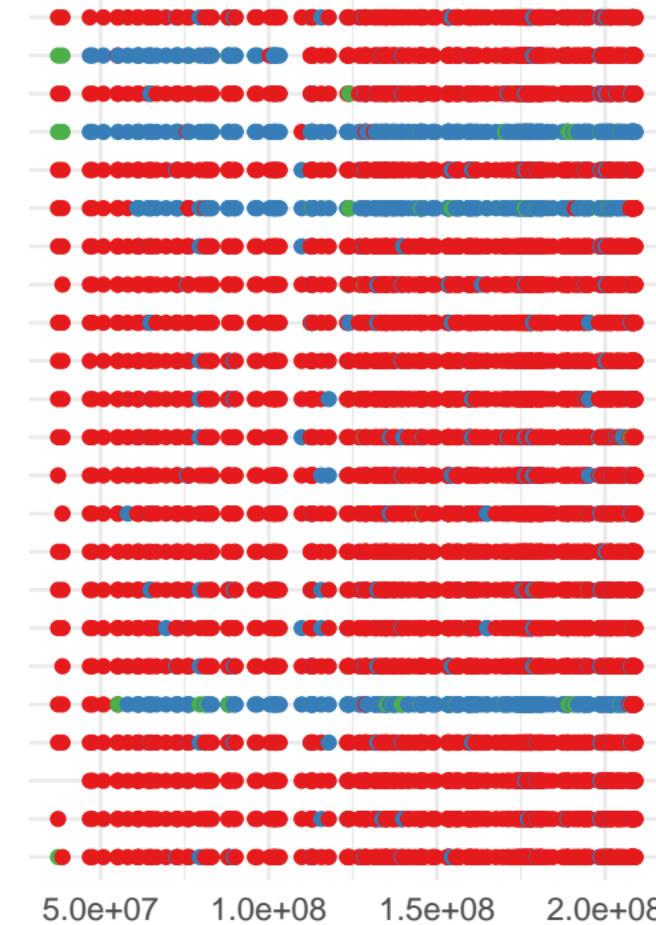


## Allelic state

- Annuus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08

# LBJ 7.5 HanXRQChr09



## Allelic state

- Annuus
- Heterozygote
- Debilis

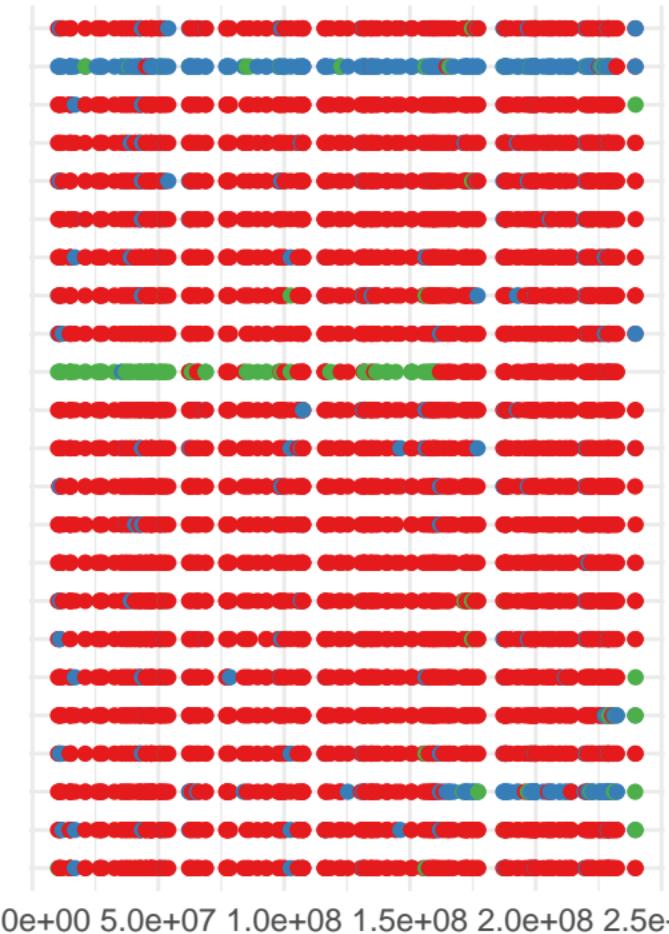
5.0e+07

1.0e+08

1.5e+08

2.0e+08

# LBJ 7.5 HanXRQChr10

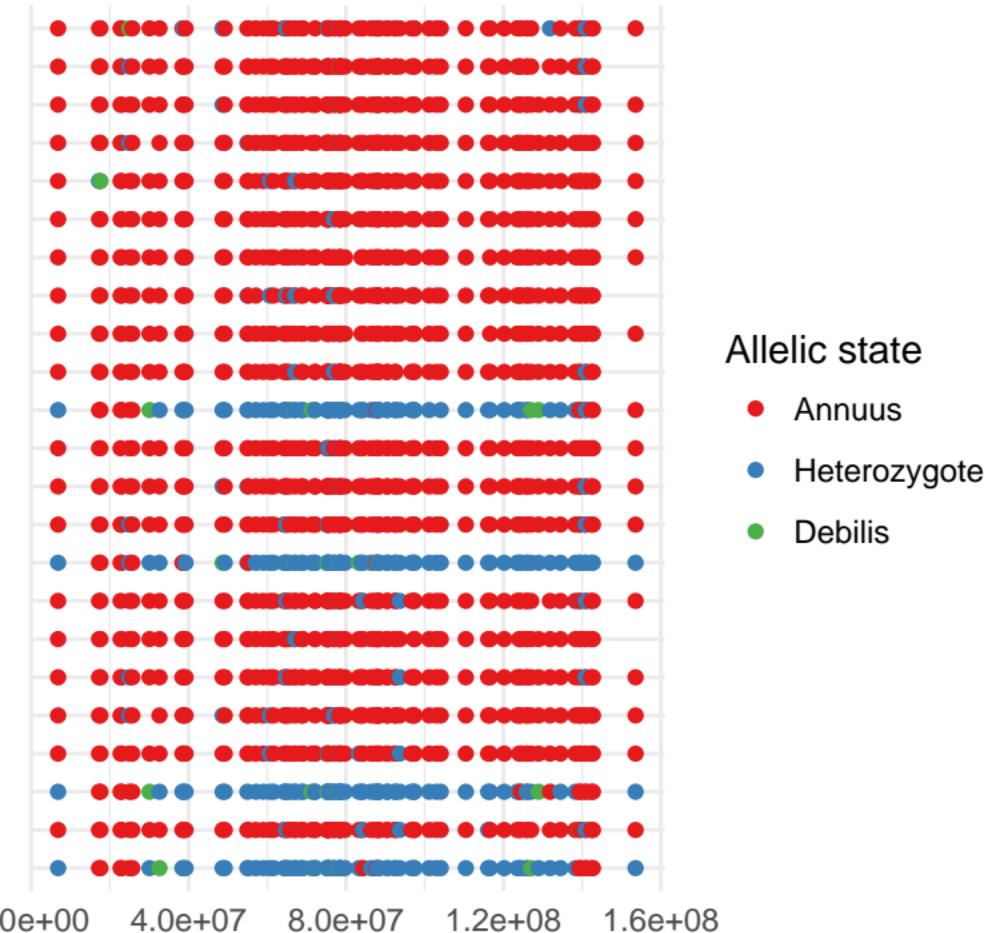


## Allelic state

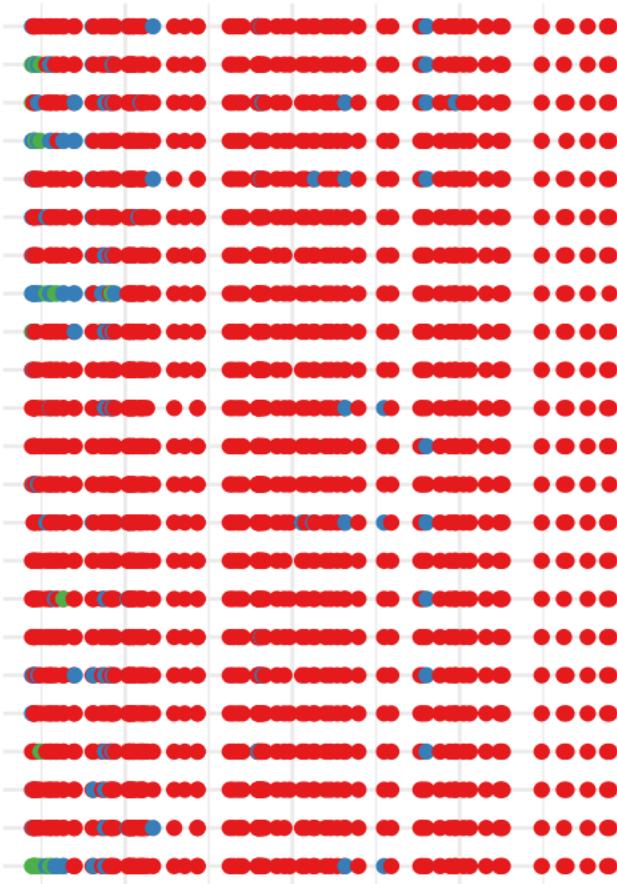
- Annus
- Heterozygote
- Debilis

0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08 2.5e+08

# LBJ 7.5 HanXRQChr11



# LBJ 7.5 HanXRQChr12

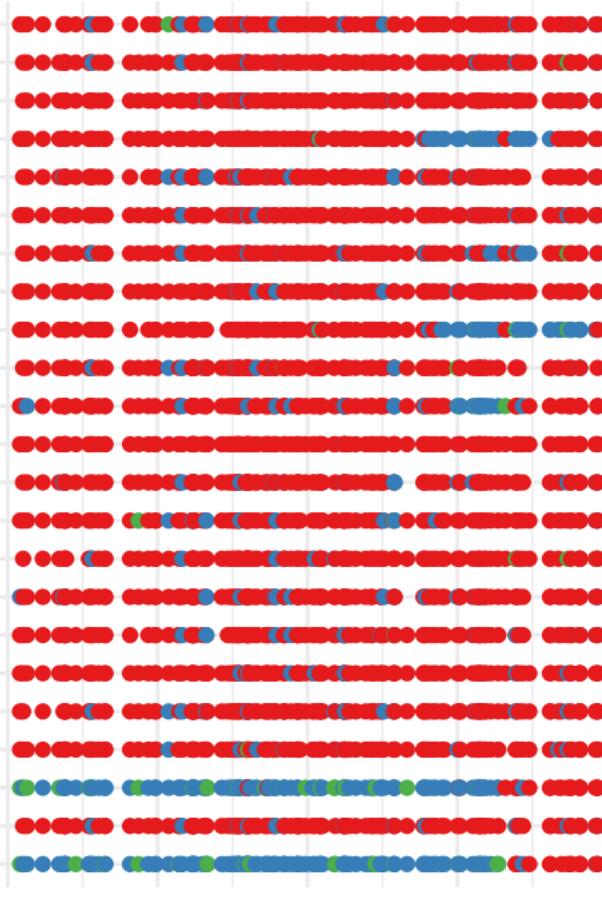


## Allelic state

- Annus
- Heterozygote
- Debilis

4.0e+07    8.0e+07    1.2e+08    1.6e+08

# LBJ 7.5 HanXRQChr13

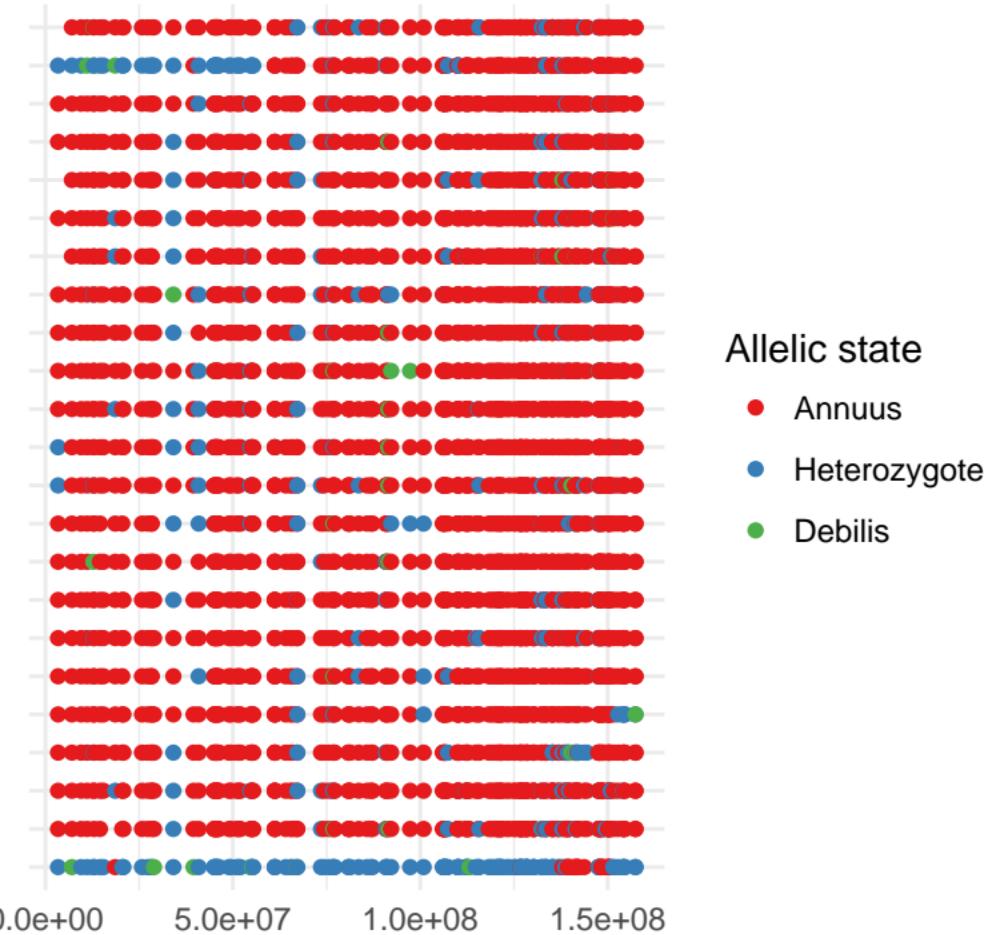


## Allelic state

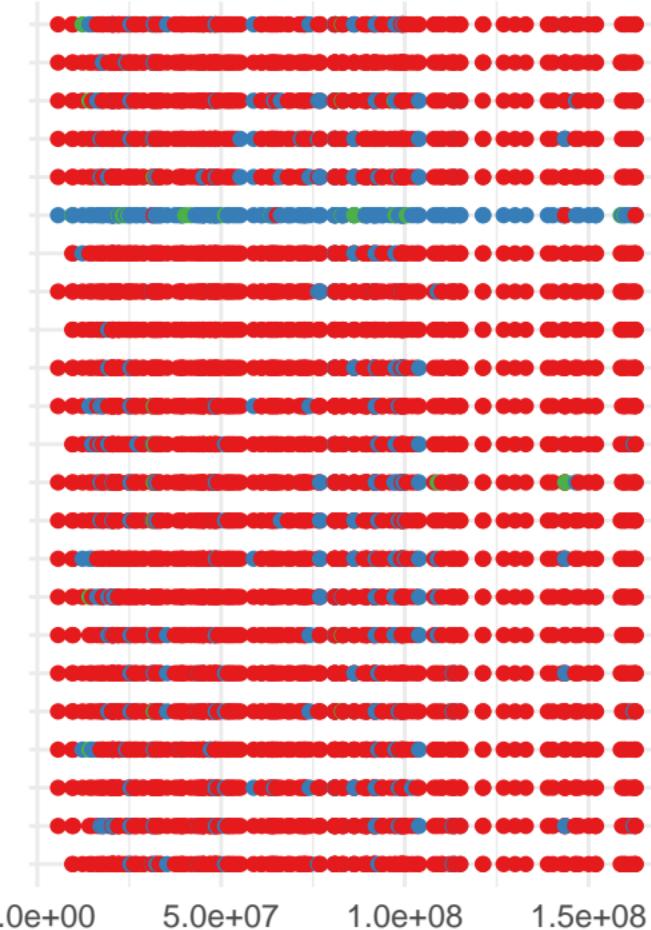
- Annuus
- Heterozygote
- Debilis

0.0e+00 5.0e+07 1.0e+08 1.5e+08 2.0e+08

# LBJ 7.5 HanXRQChr14



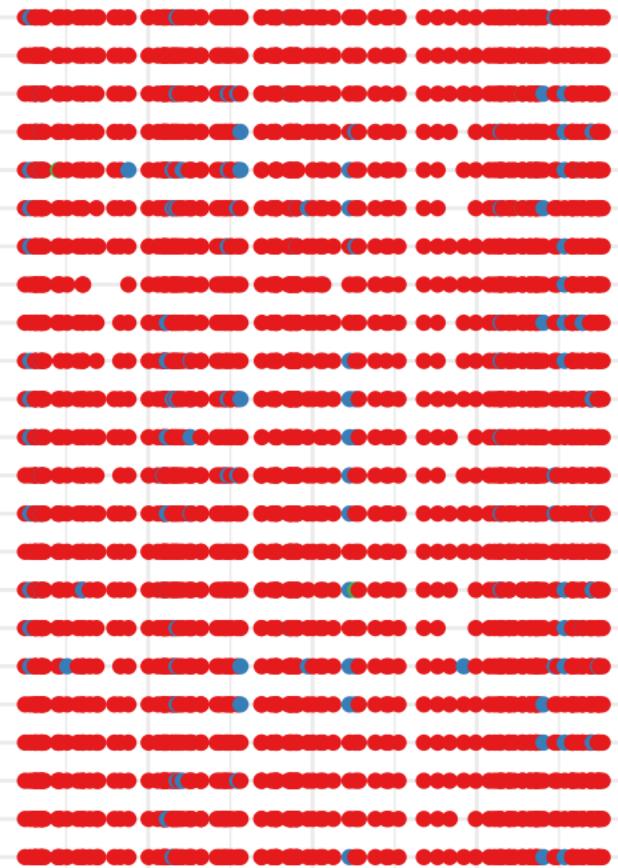
# LBJ 7.5 HanXRQChr15



## Allelic state

- Annus
- Heterozygote
- Debilis

# LBJ 7.5 HanXRQChr16

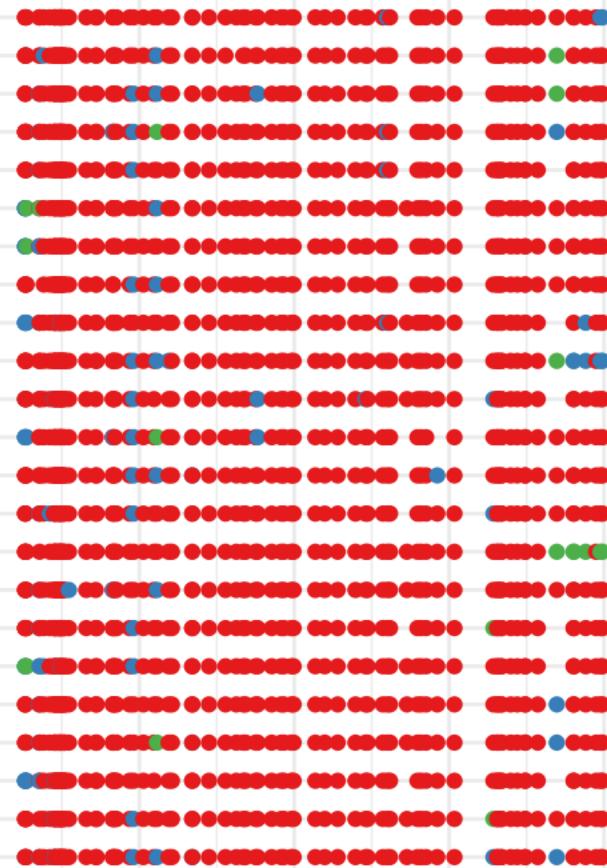


## Allelic state

- Annus
- Heterozygote
- Debilis

5.0e+07    1.0e+08    1.5e+08

# LBJ 7.5 HanXRQChr17



## Allelic state

- Annuus
- Heterozygote
- Debilis

5.0e+07   1.0e+08   1.5e+08   2.0e+08