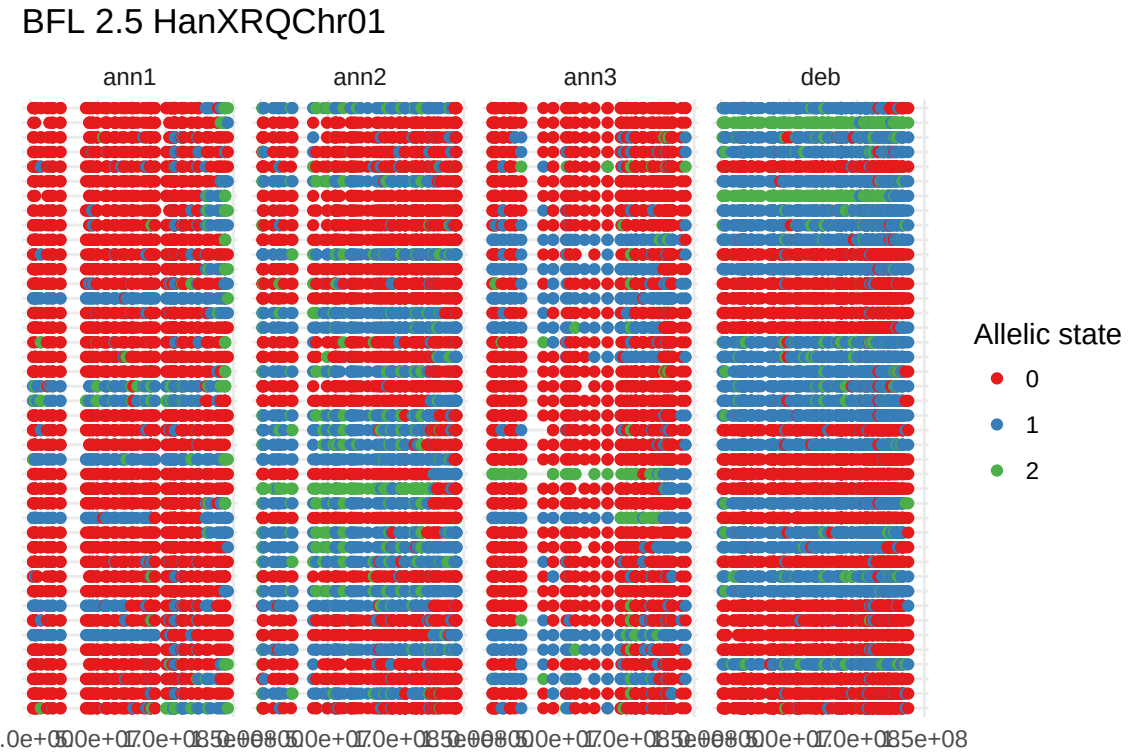
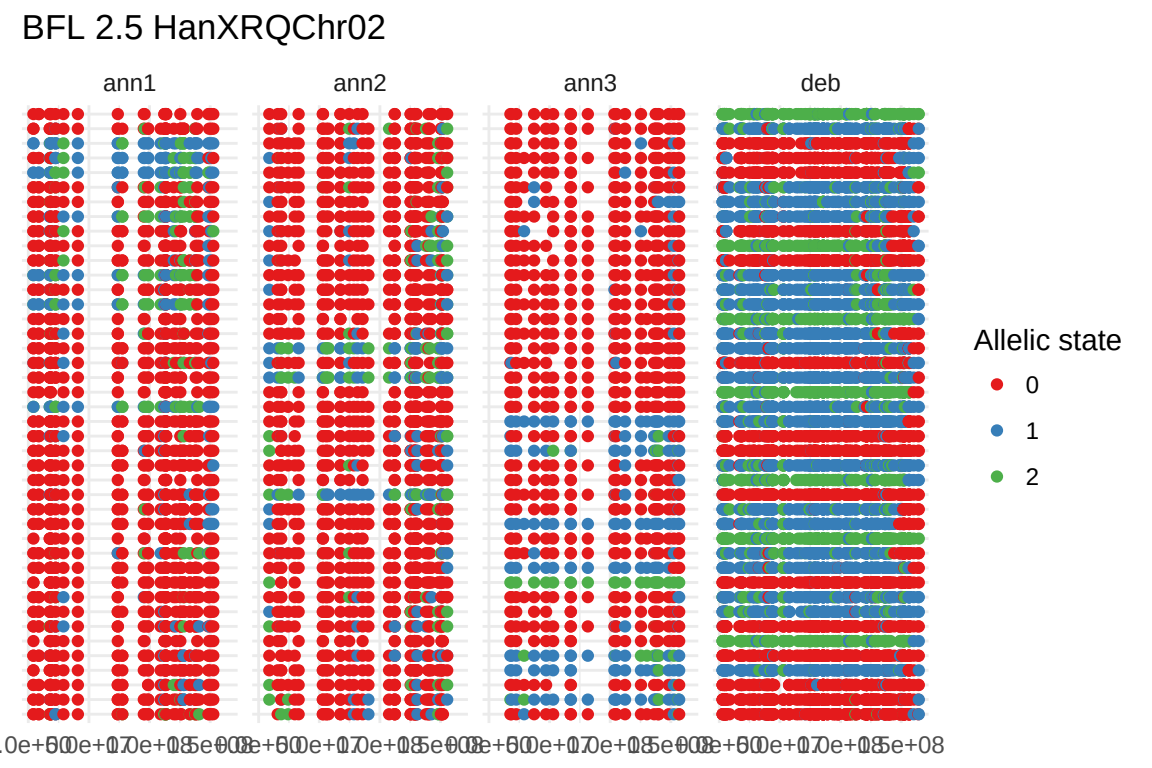
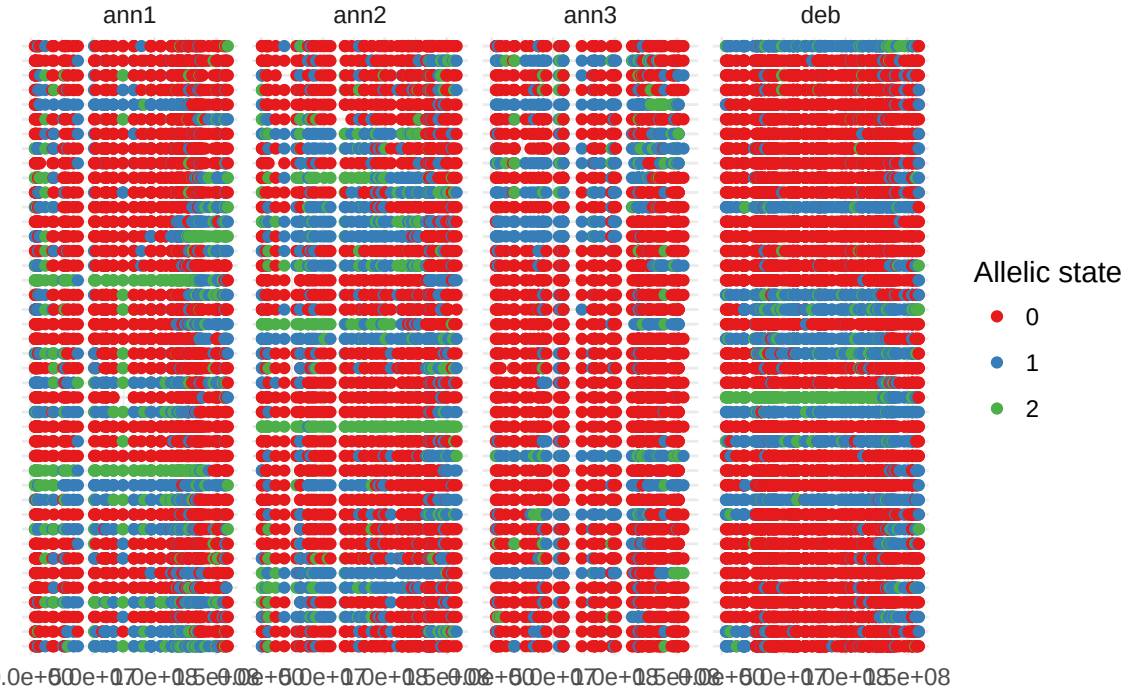
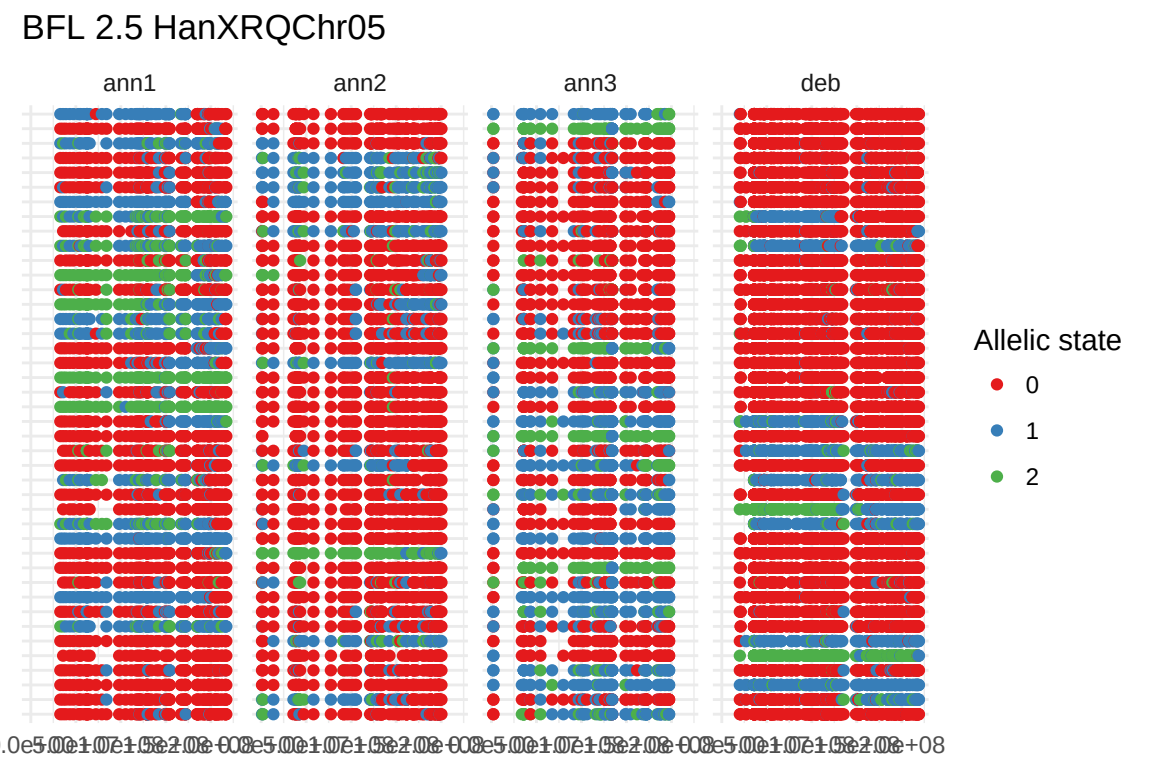

BFL 2.5 HanXRQChr01
ann1
ann2
ann3
deb
Allelic state
0
1
2

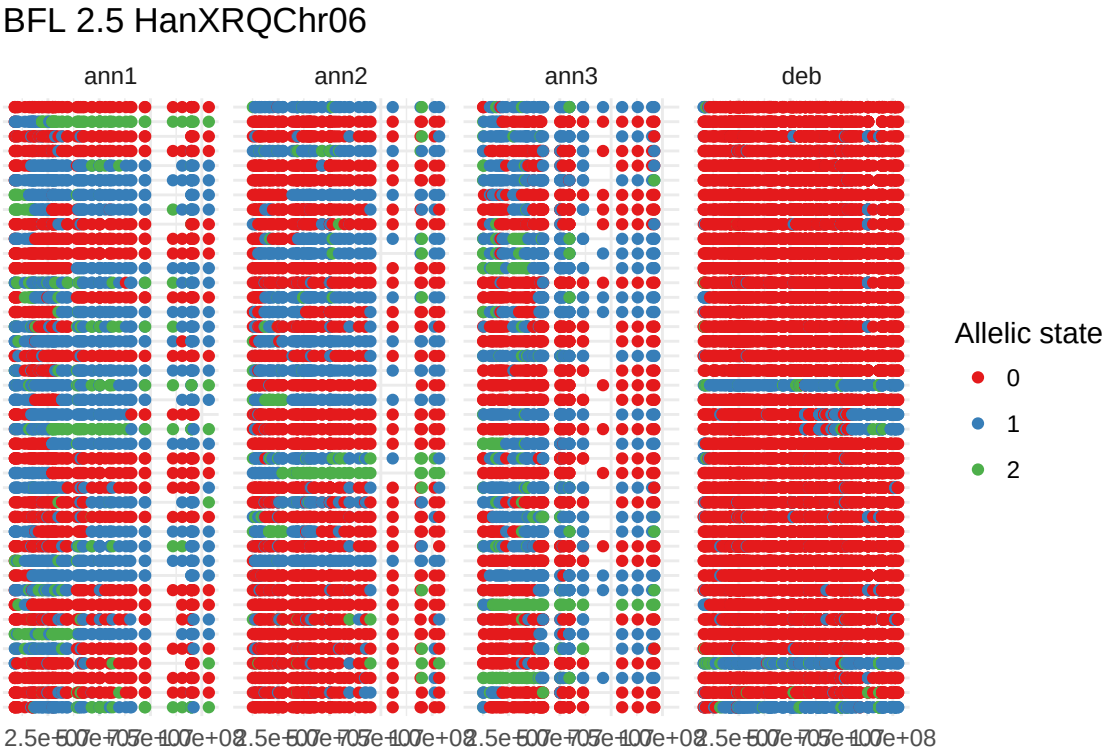

BFL 2.5 HanXRQChr02
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 2.5 HanXRQChr03

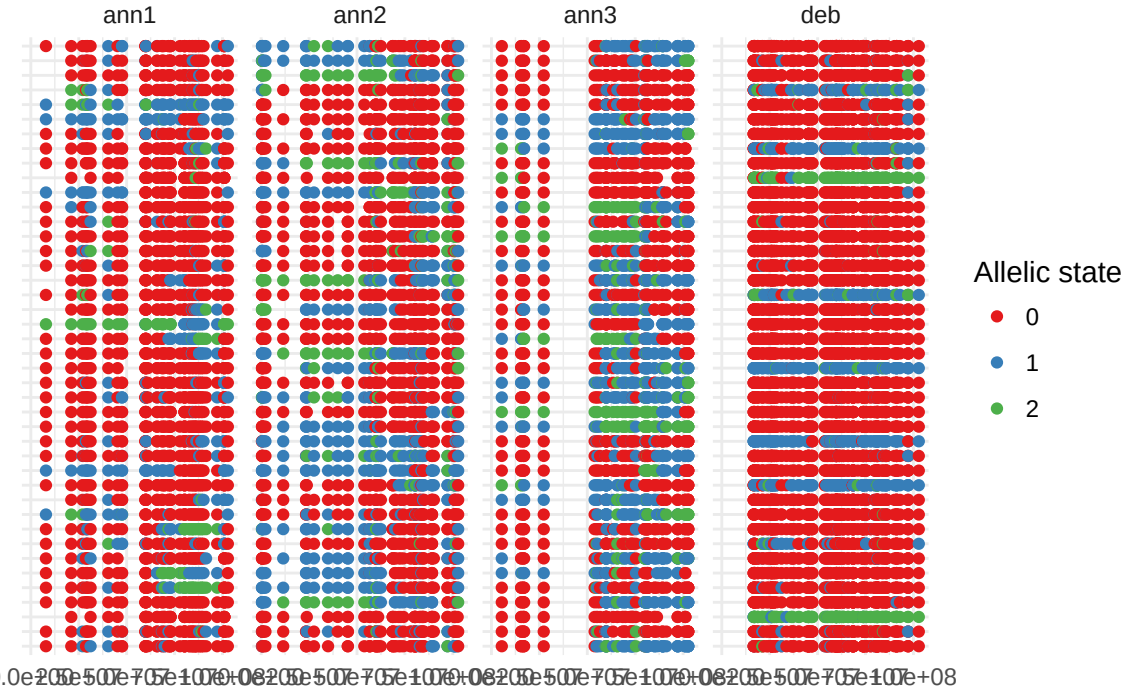


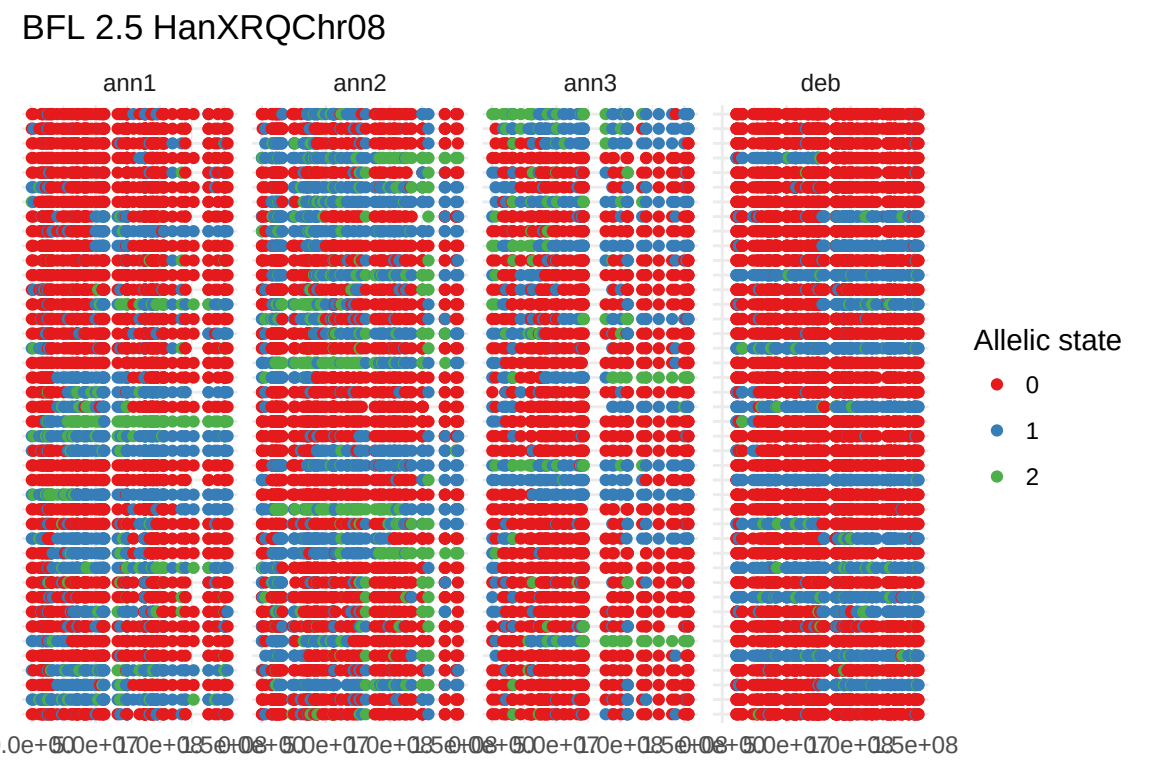
BFL 2.5 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2
0e+00
7e+08
5e+08

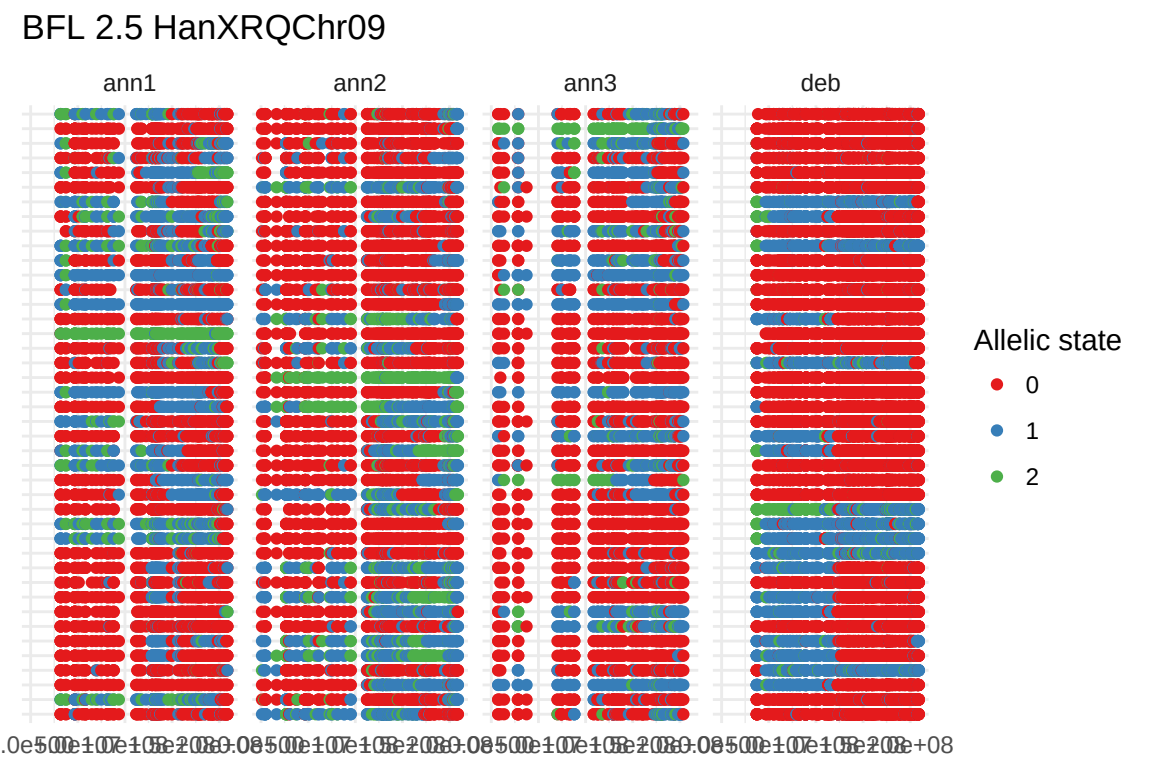

BFL 2.5 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 2.5 HanXRQChr06
ann1
ann2
ann3
deb
2.5e+07
5.0e+07
7.5e+07
1.0e+08
Allelic state
0
1
2

BFL 2.5 HanXRQChr07

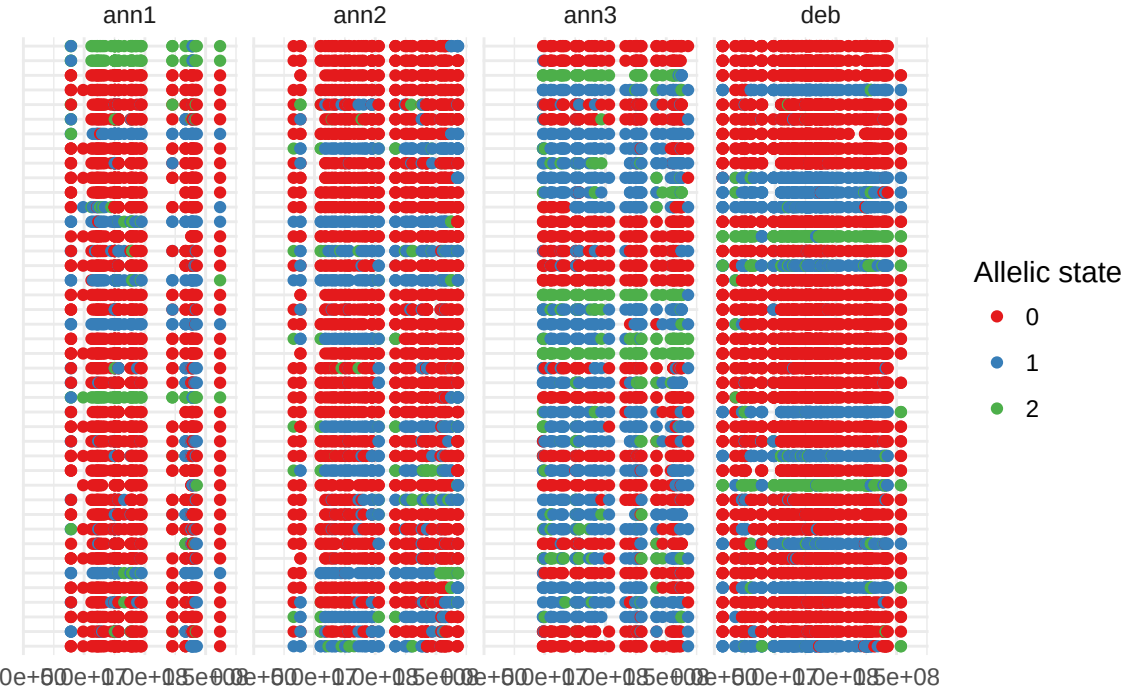



BFL 2.5 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
0
1
2

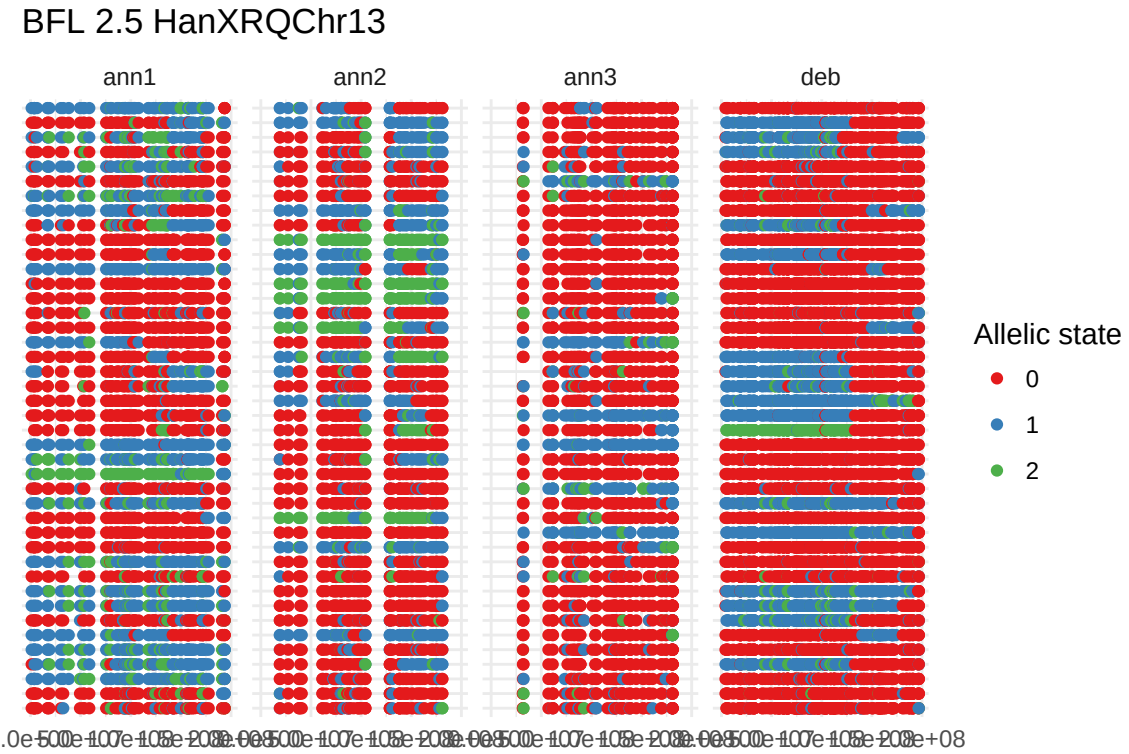

BFL 2.5 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
0
1
2

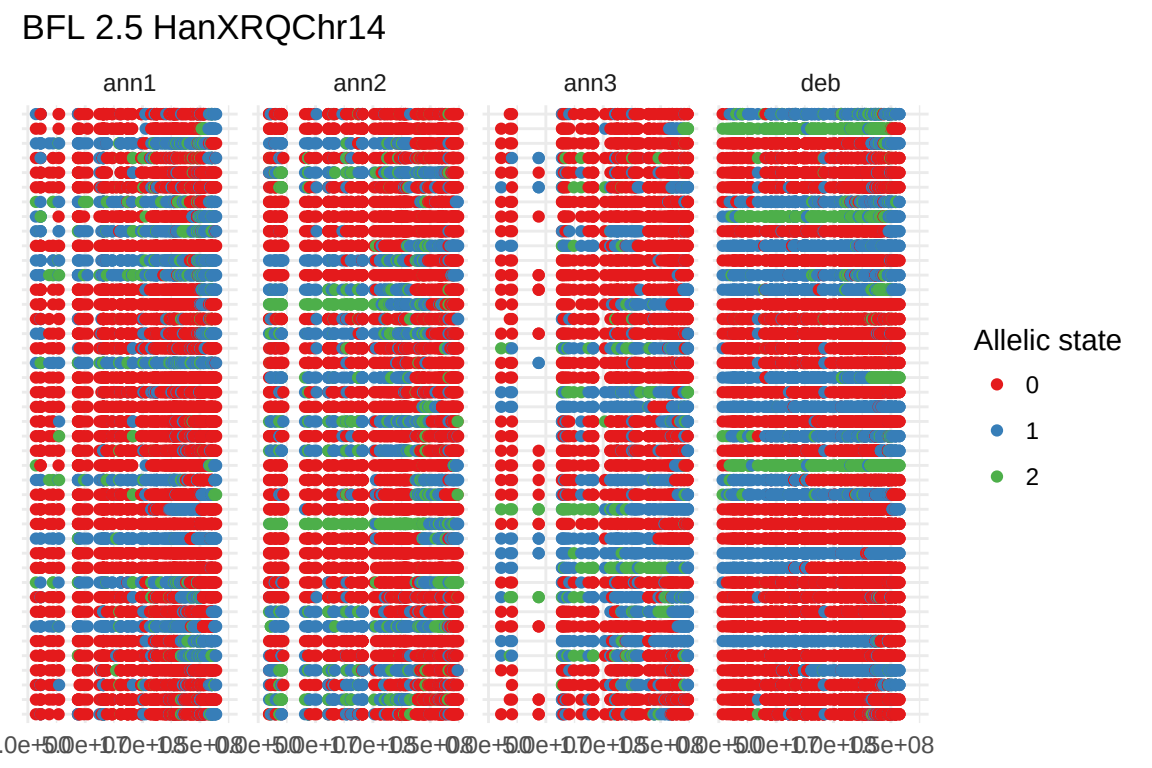
BFL 2.5 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
0
1
2

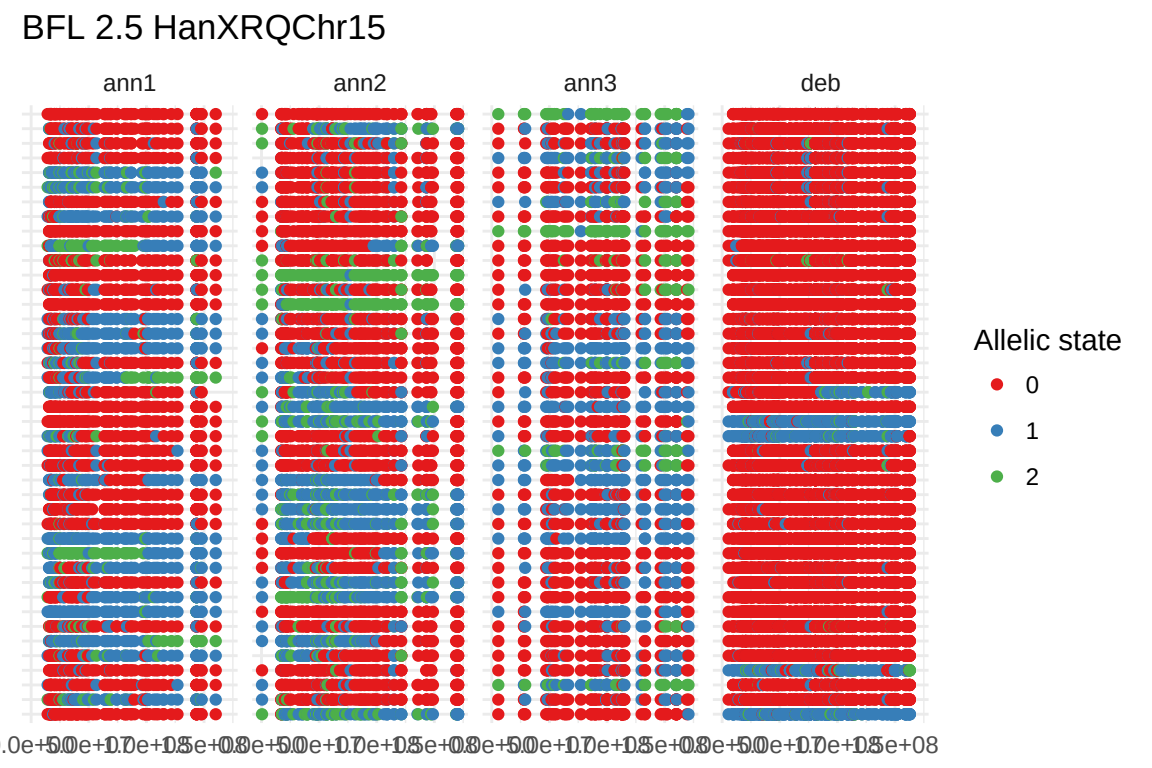
BFL 2.5 HanXRQChr11



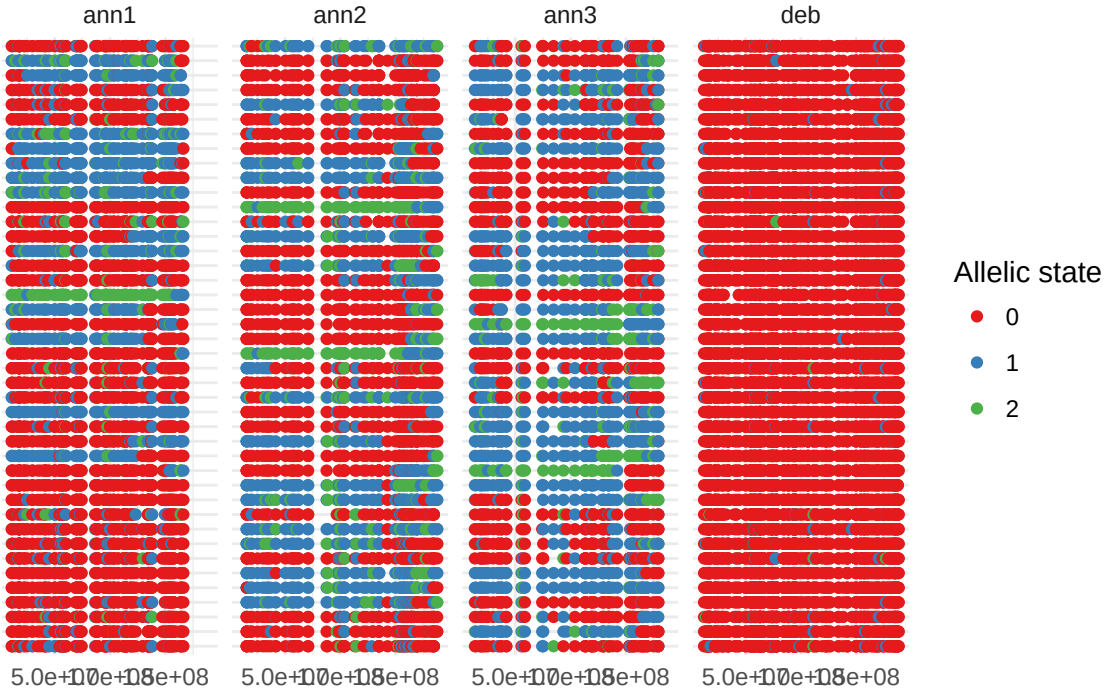
BFL 2.5 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 2.5 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08
2.0e+08
2.5e+08


BFL 2.5 HanXRQChr14
ann1
ann2
ann3
deb
Allelic state
0
1
2

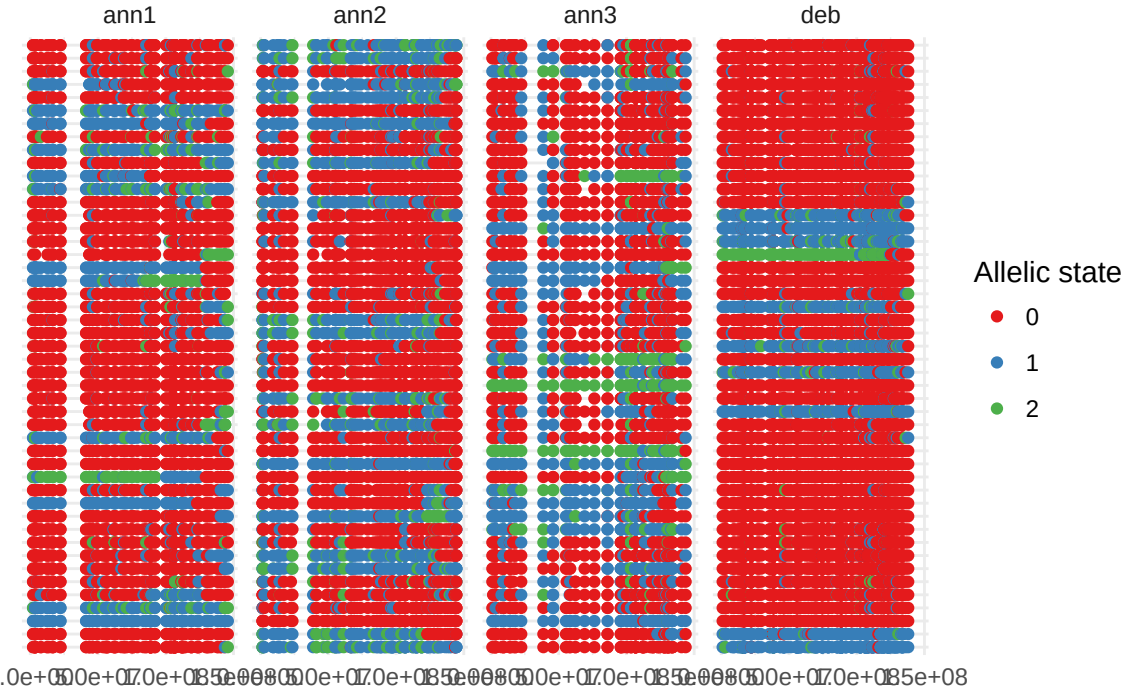

BFL 2.5 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 7.7e+1 1.5e+8 0.0e+5 0.0e+1 7.7e+1 1.5e+8 0.0e+5 0.0e+1 7.7e+1 1.5e+8 0.0e+5 0.0e+1 7.7e+1 1.5e+08

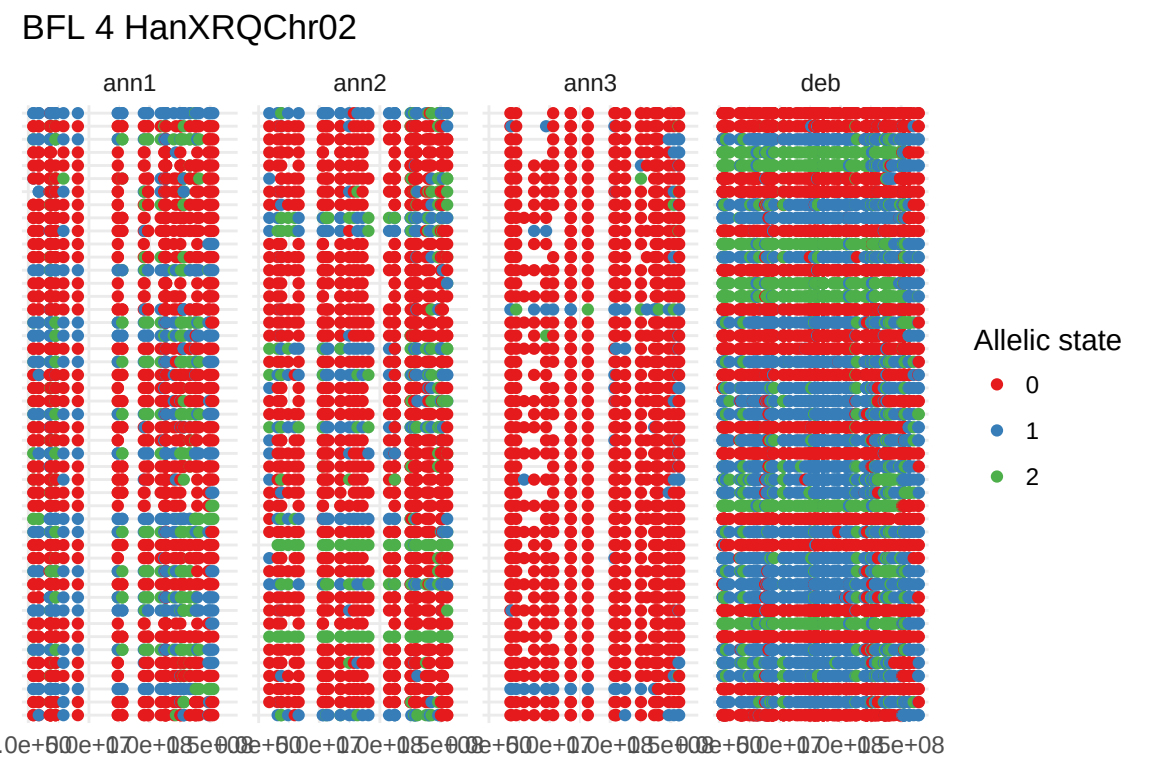
BFL 2.5 HanXRQChr16

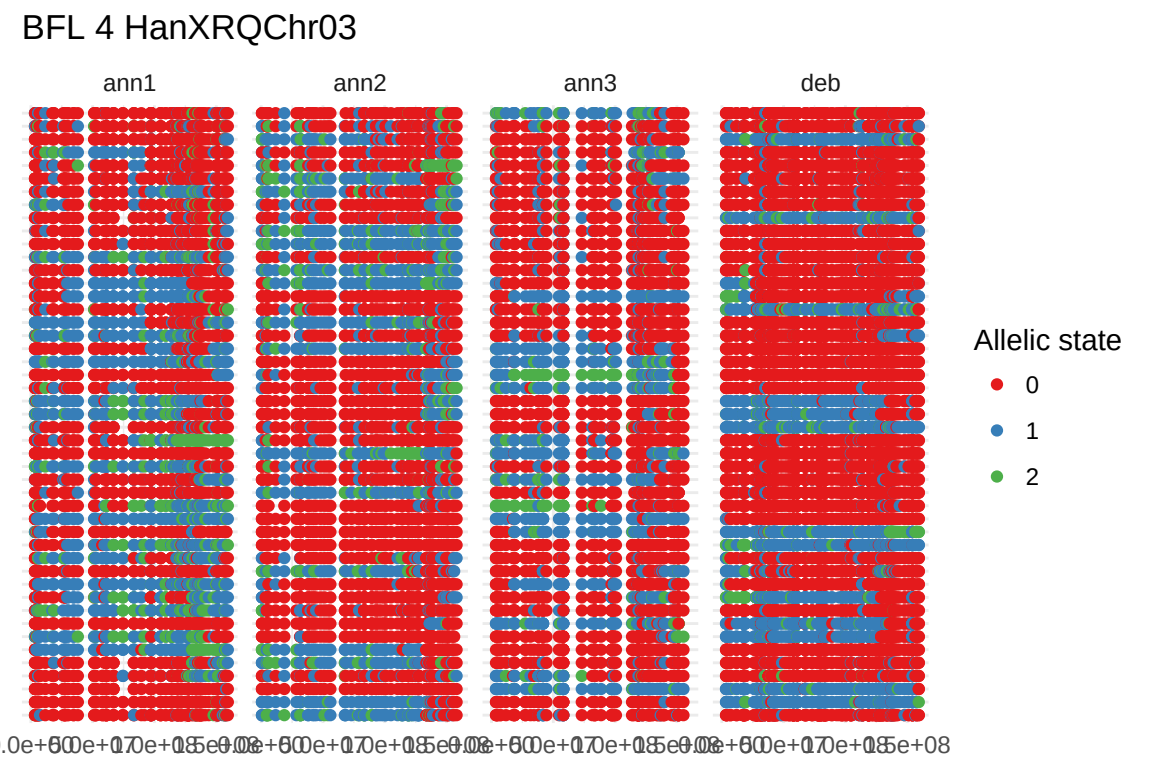


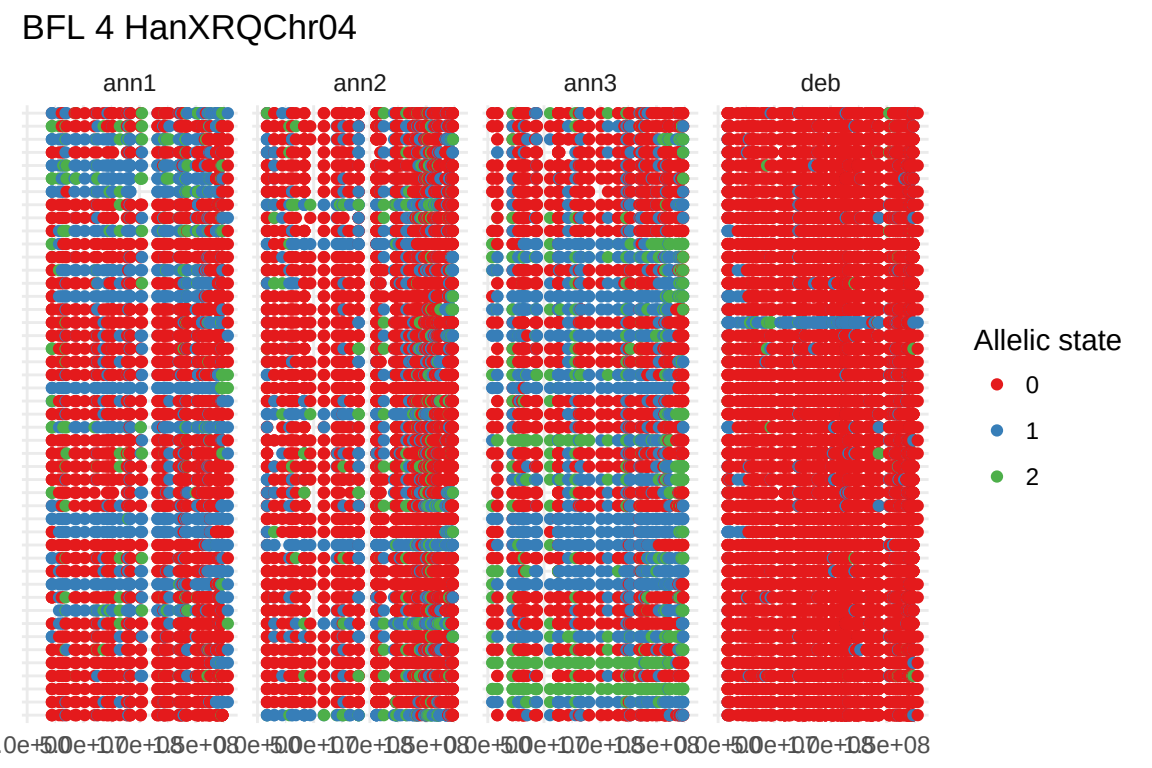
BFL 2.5 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 4 HanXRQChr01




BFL 4 HanXRQChr02
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 4 HanXRQChr03
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 4 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
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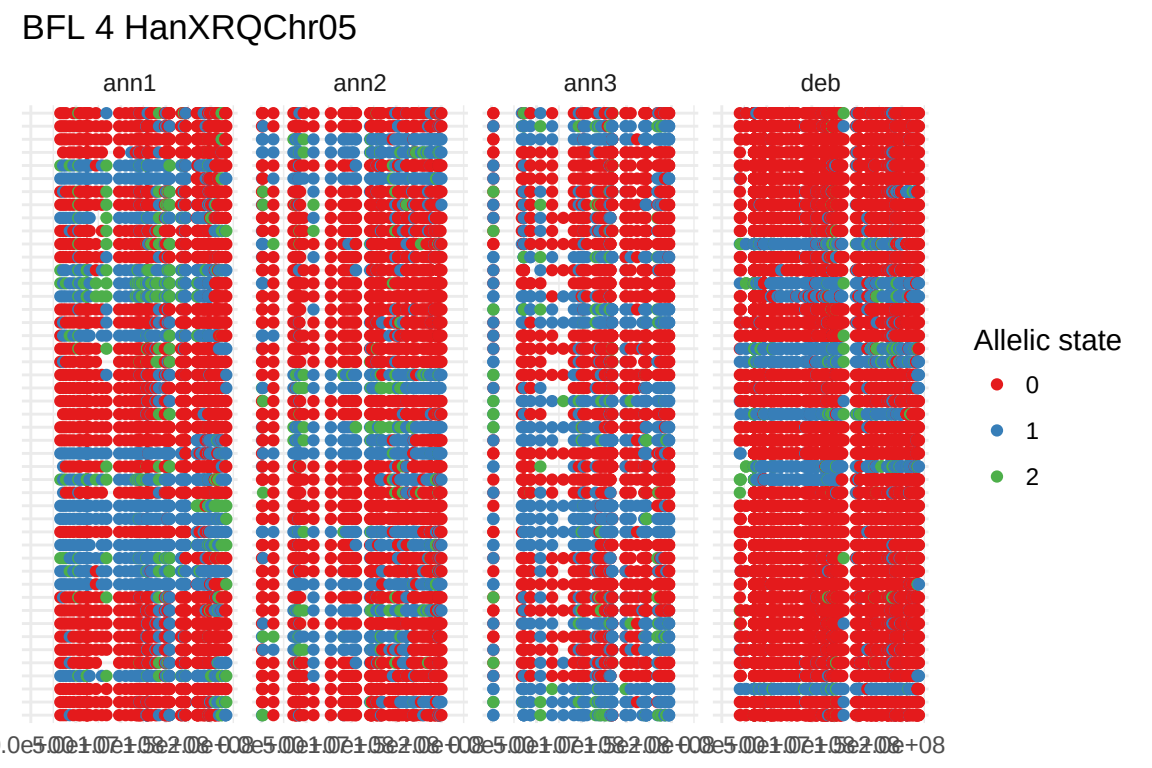
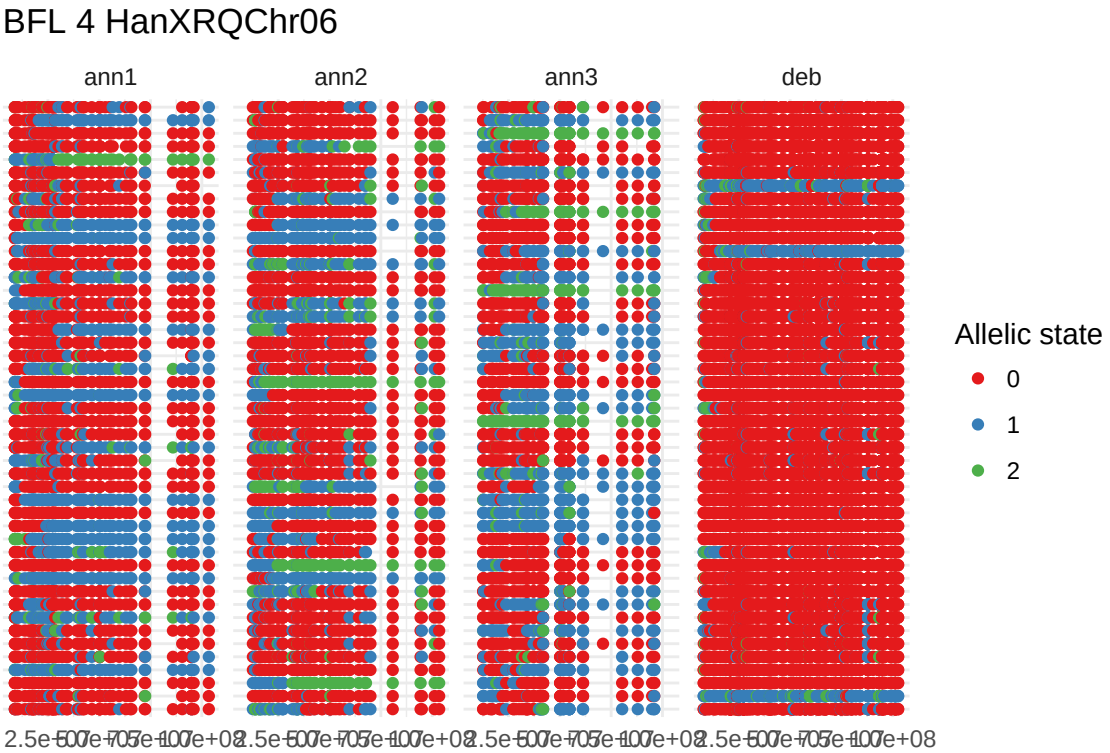
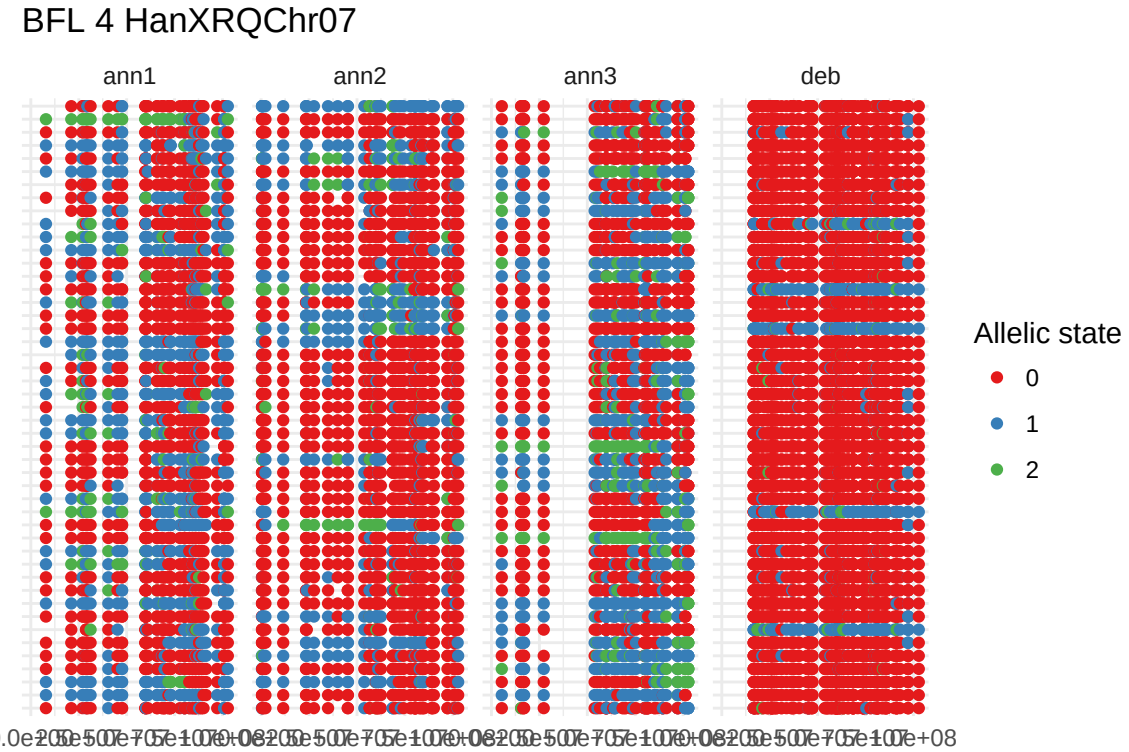
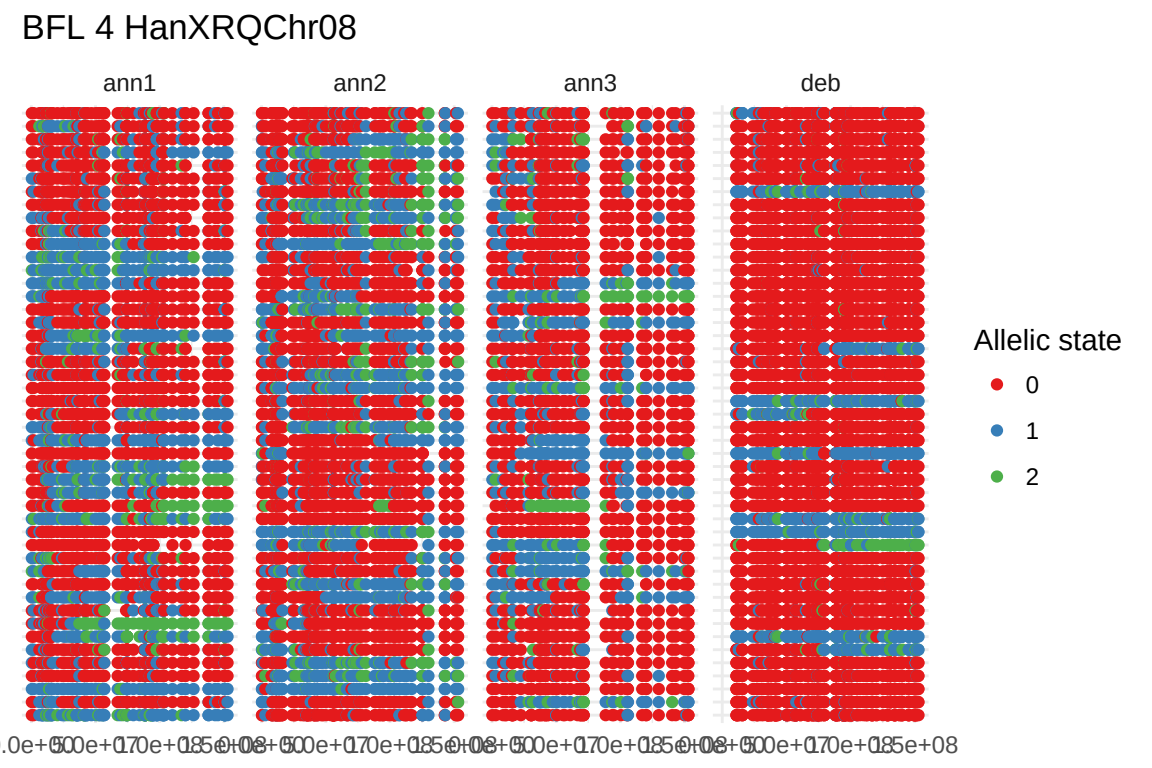
1
2


BFL 4 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 4 HanXRQChr06
ann1
ann2
ann3
deb
2.5e+08
5.0e+08
7.5e+08
1.0e+08
Allelic state
0
1
2


BFL 4 HanXRQChr07
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 4 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
5.0e+07
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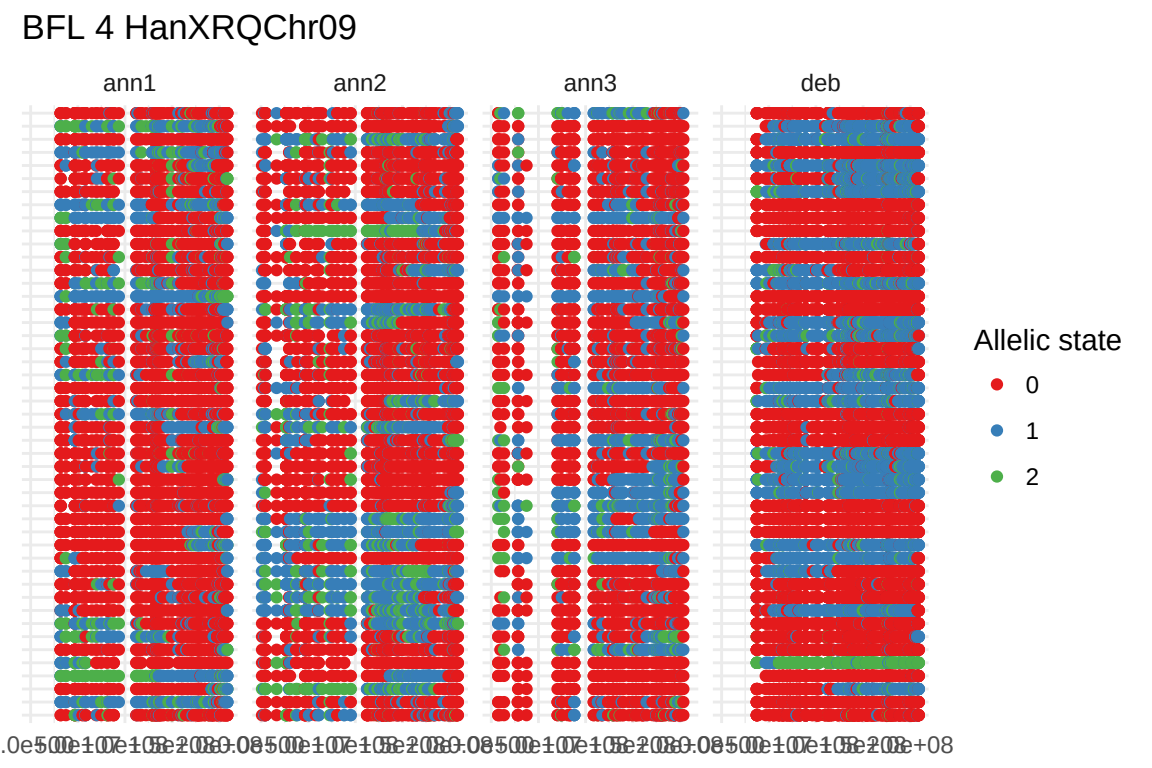
1.5e+08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ann1
ann2
ann3
deb
Allelic state
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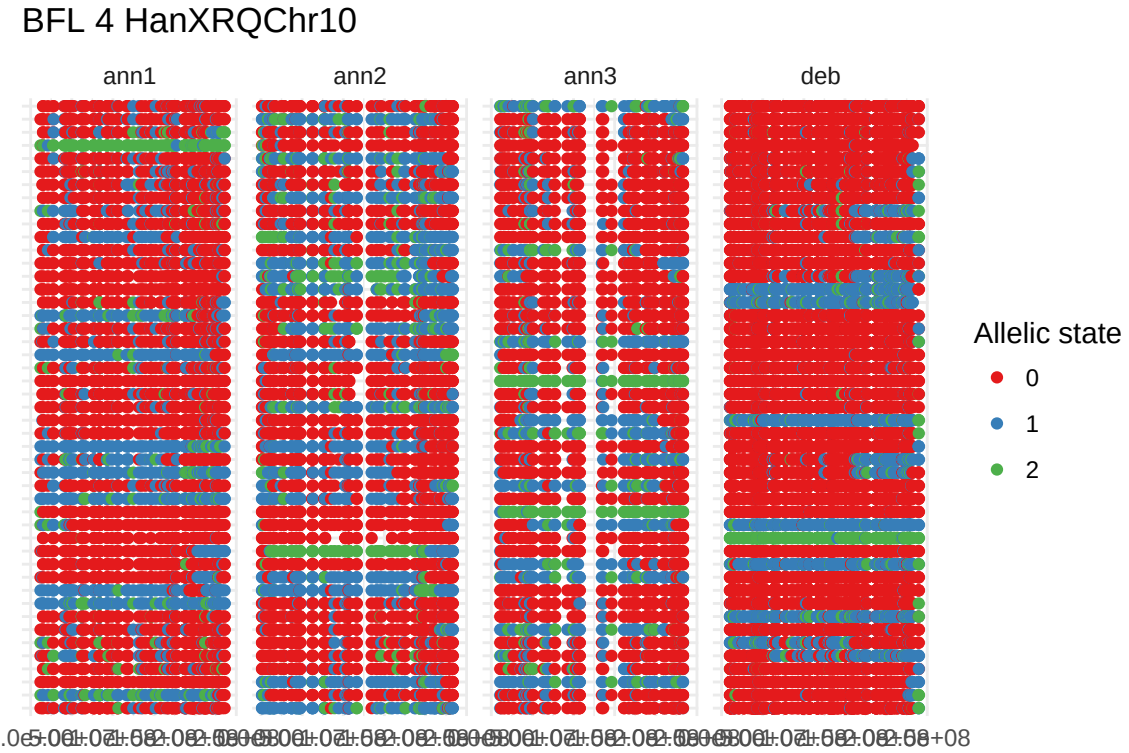
1
2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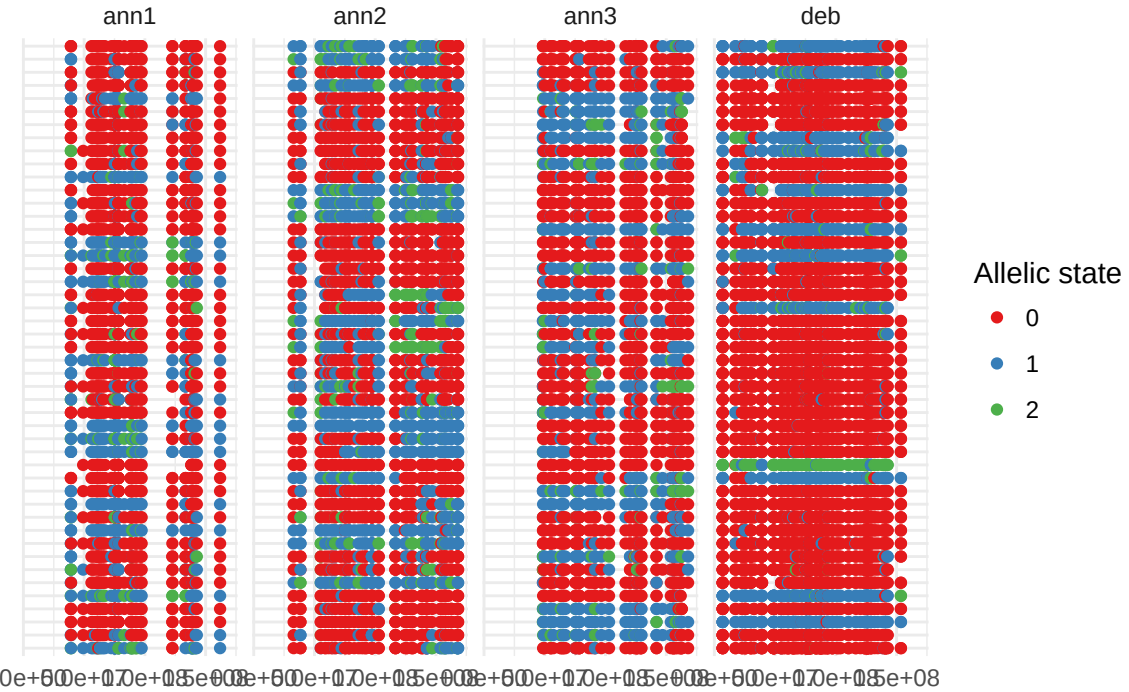
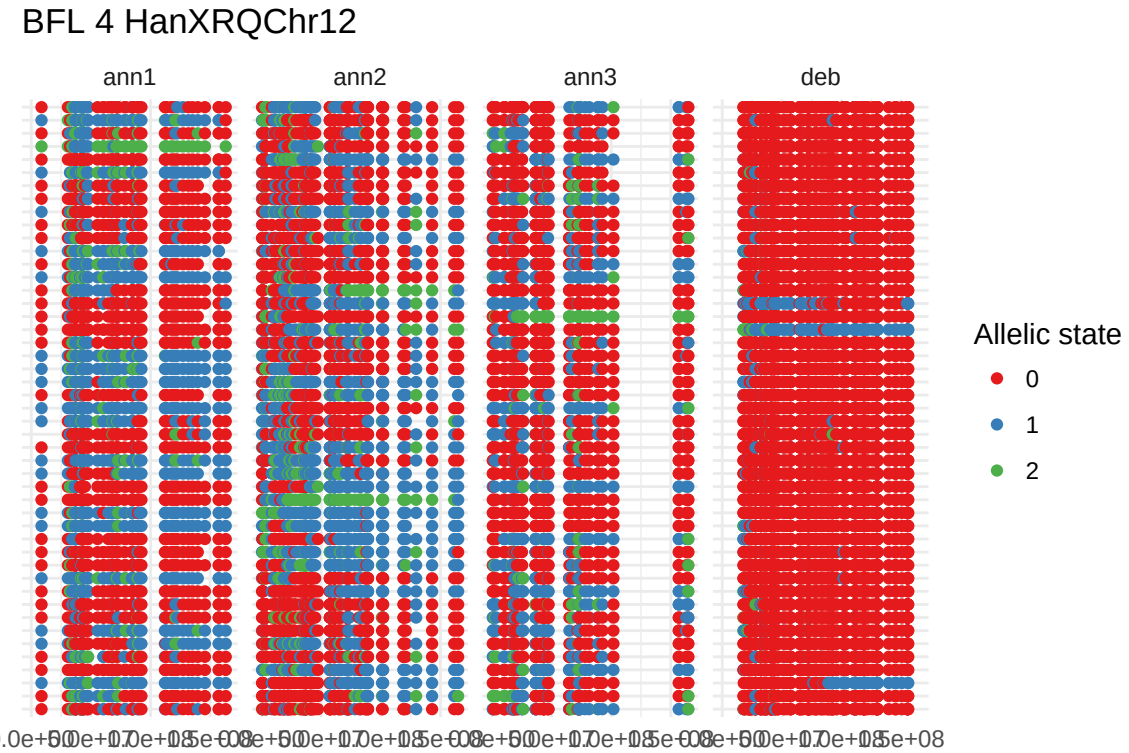
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 4 HanXRQChr11

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ann1
ann2
ann3
deb
Allelic state
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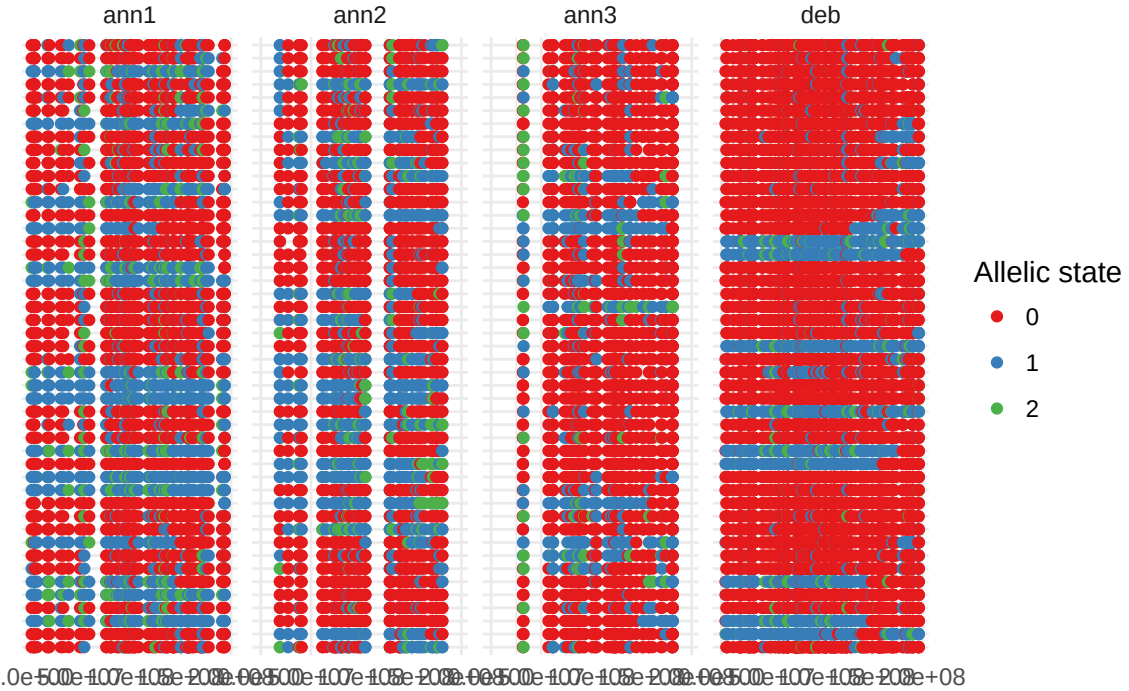
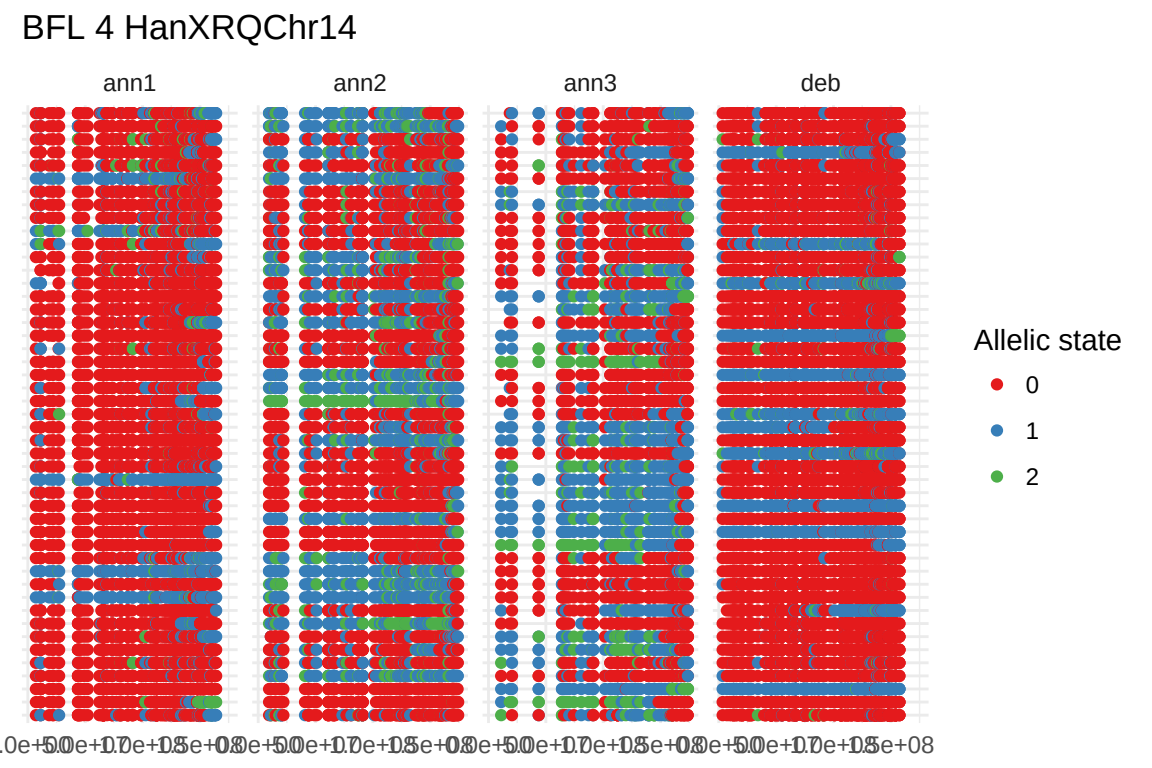
1
2

BFL 4 HanXRQChr13




BFL 4 HanXRQChr14
ann1
ann2
ann3
deb
Allelic state
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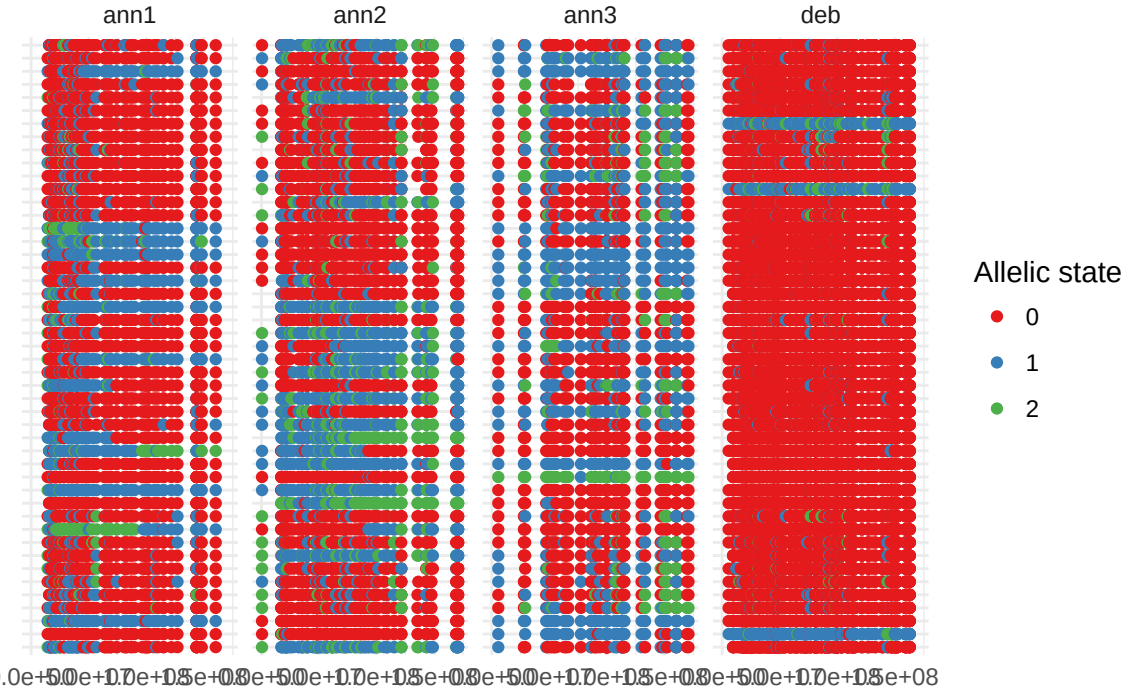
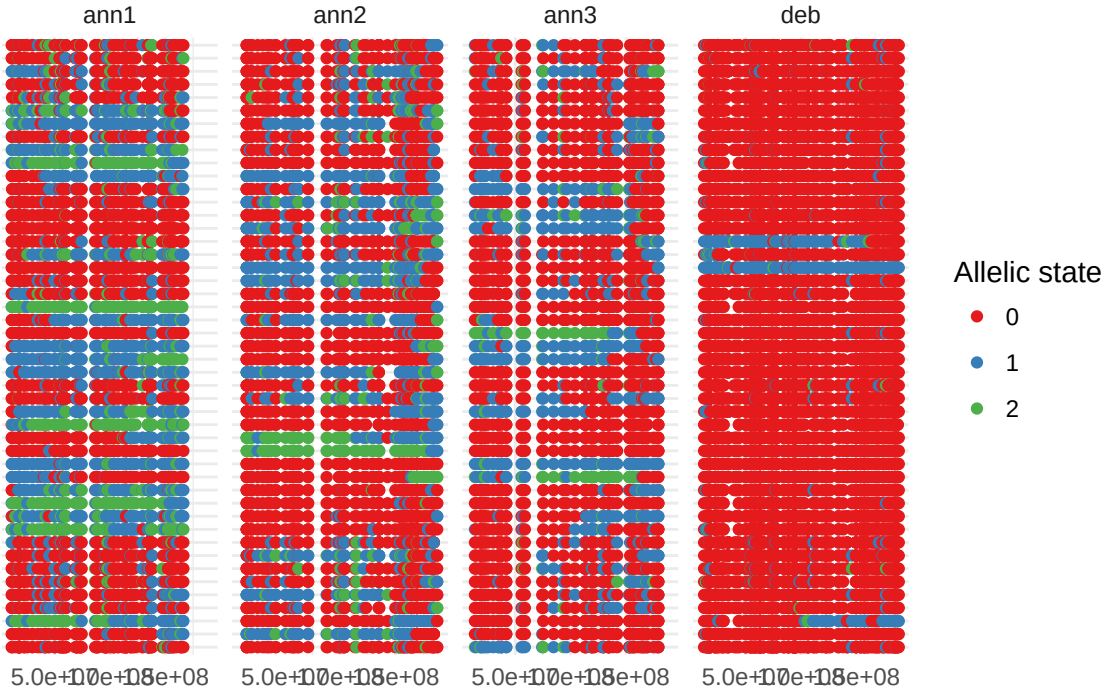
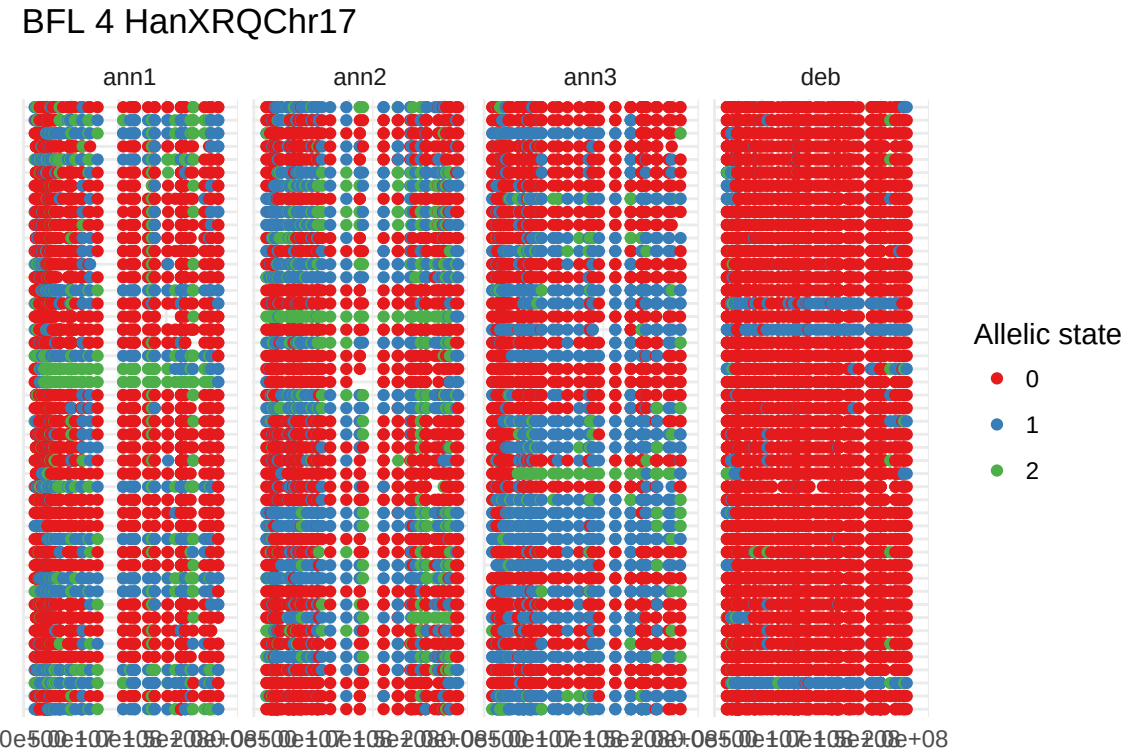
1
2

BFL 4 HanXRQChr15

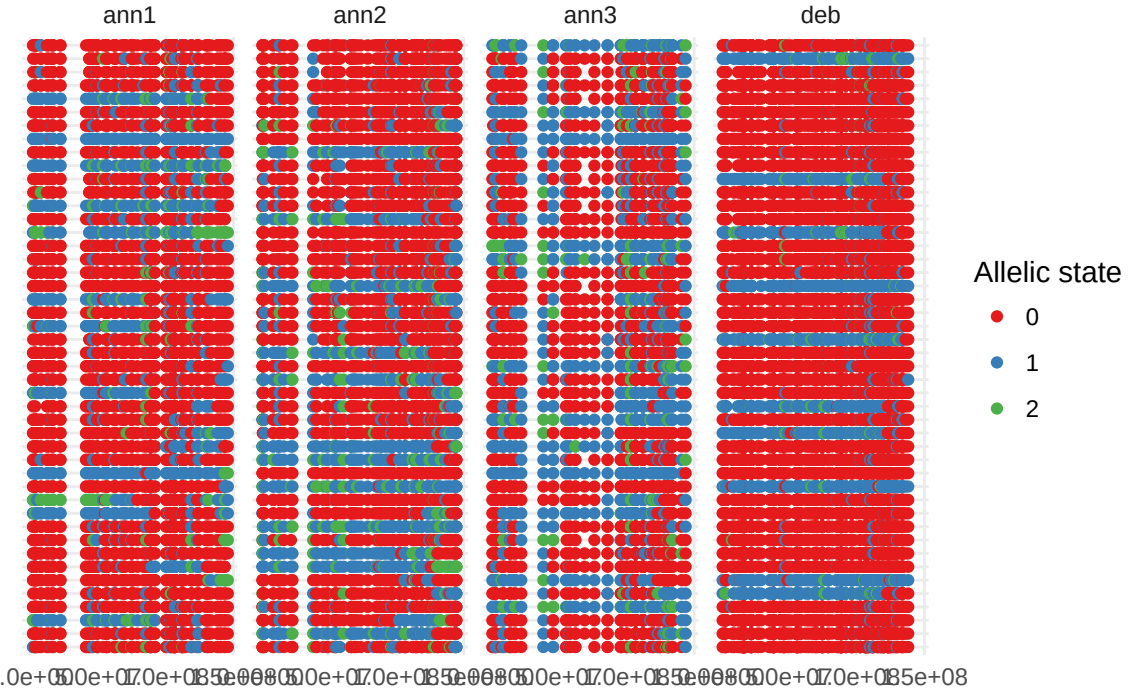


BFL 4 HanXRQChr16

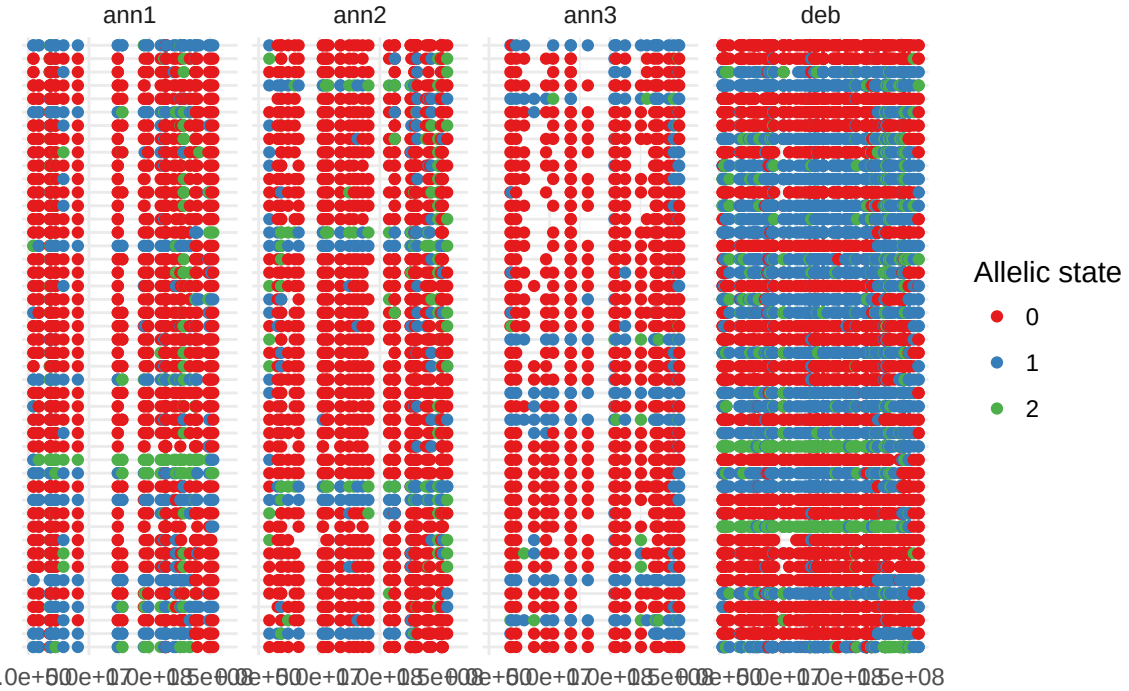



BFL 4 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 5 HanXRQChr01



BFL 5 HanXRQChr02



BFL 5 HanXRQChr03
ann1
ann2
ann3
deb
Allelic state
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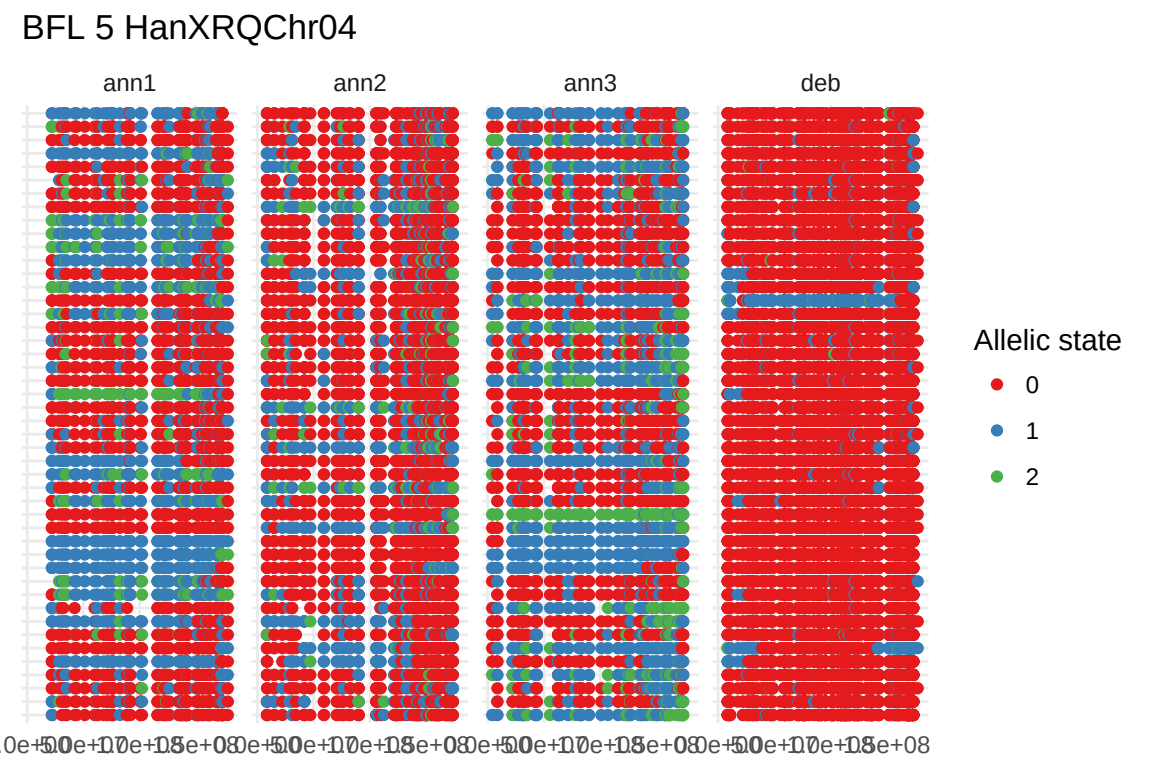
1
2


BFL 5 HanXRQChr04
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ann2
ann3
deb
Allelic state
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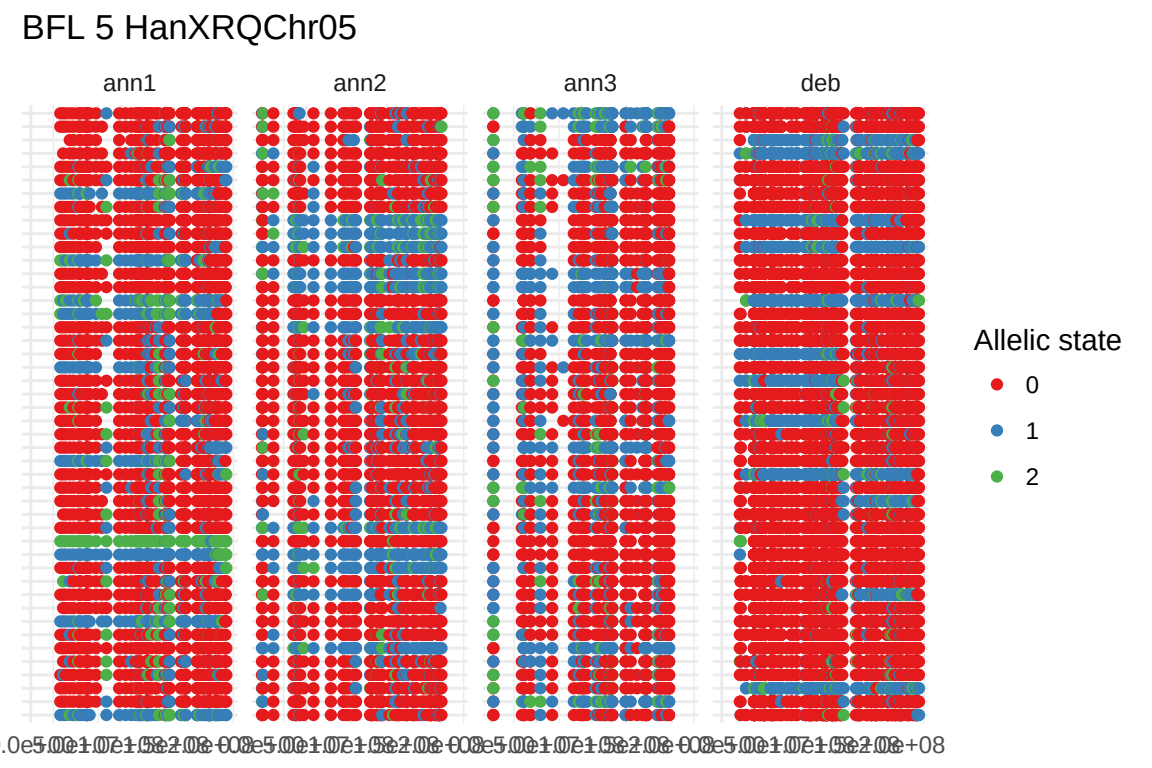
1
2


BFL 5 HanXRQChr05
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ann2
ann3
deb
Allelic state
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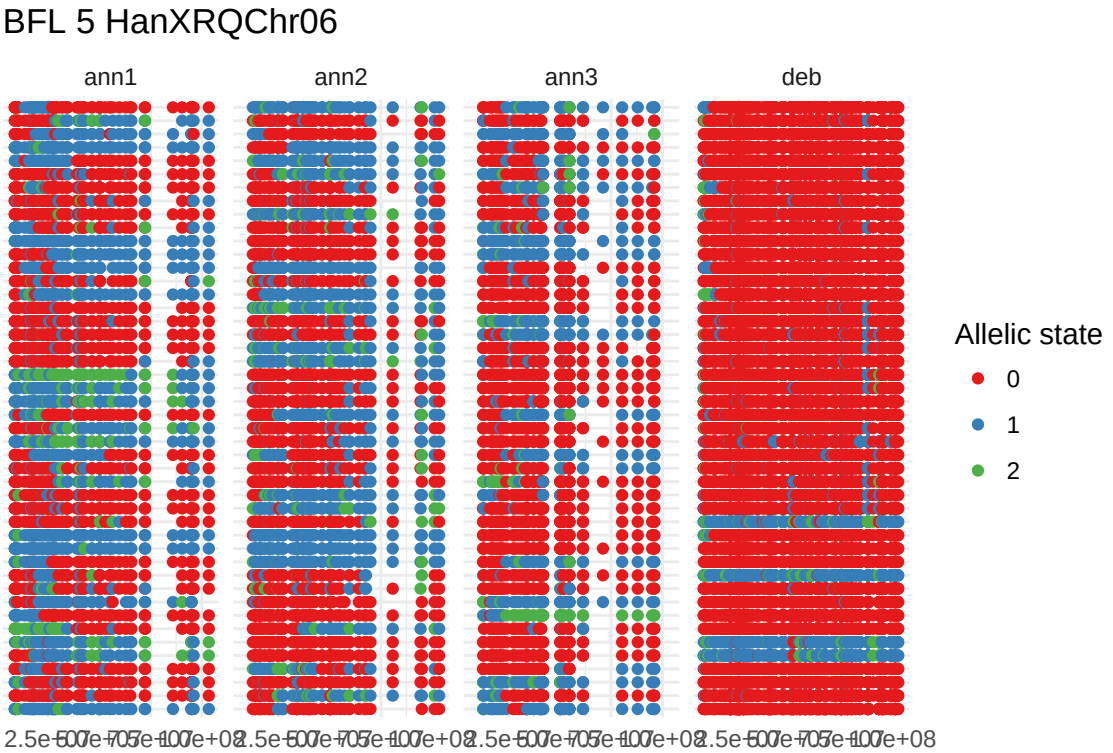
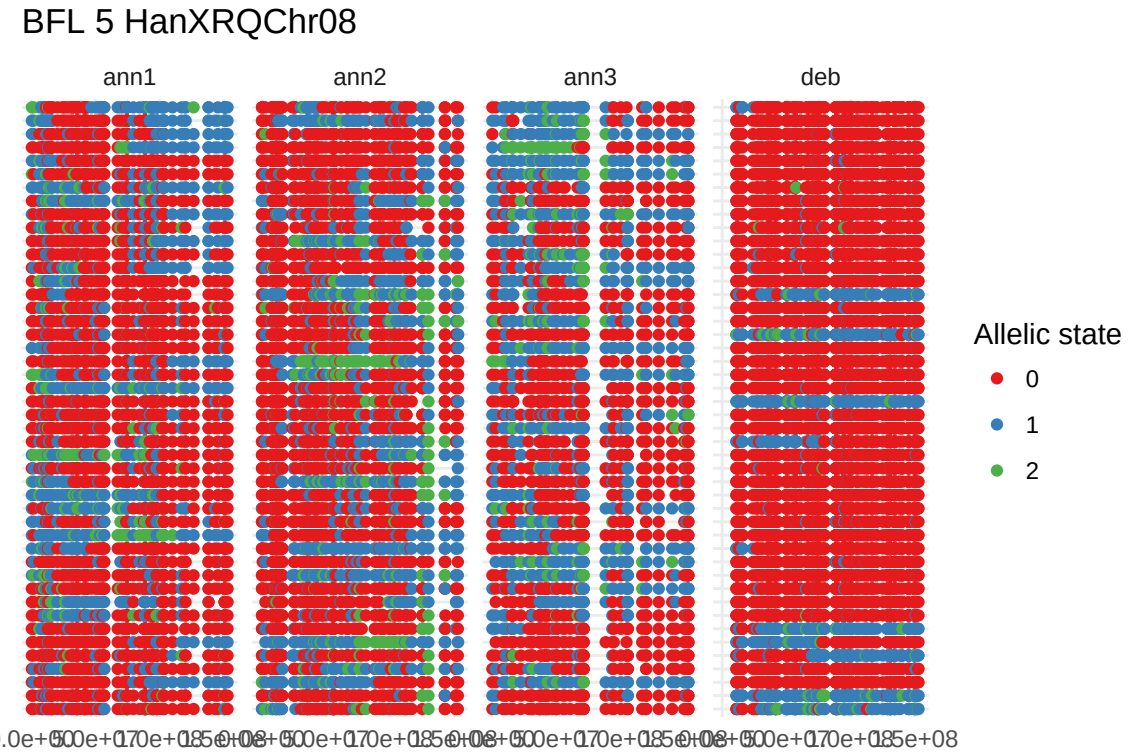
1
2


BFL 5 HanXRQChr06
ann1
ann2
ann3
deb
2.5e+08
5.0e+08
7.5e+08
1.0e+08
Allelic state
0
1
2

BFL 5 HanXRQChr07
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 5 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
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1
2
.0e+00
5.0e+07
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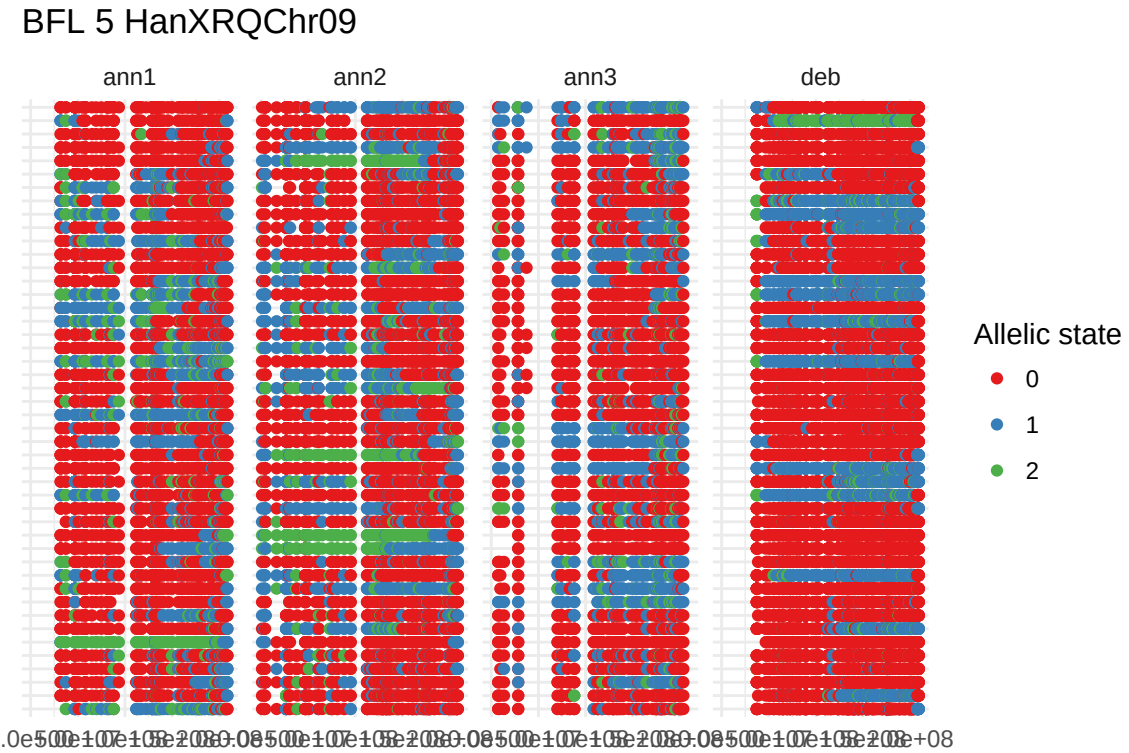
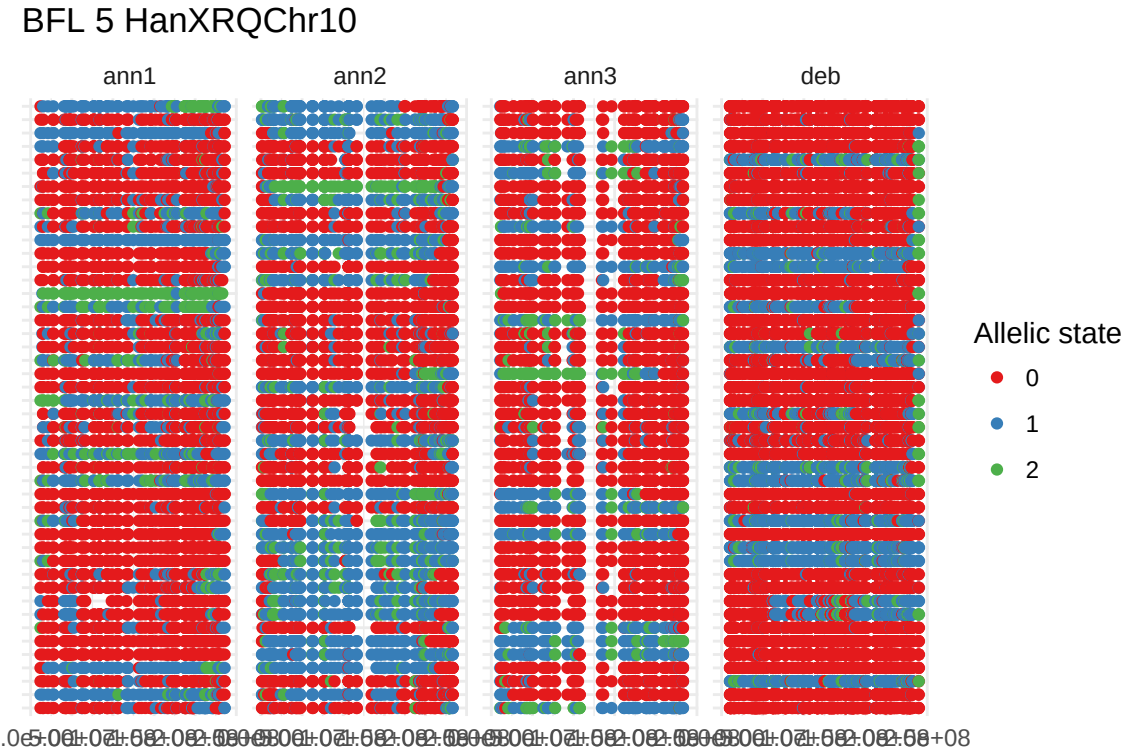
1.5e+08


BFL 5 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 5 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
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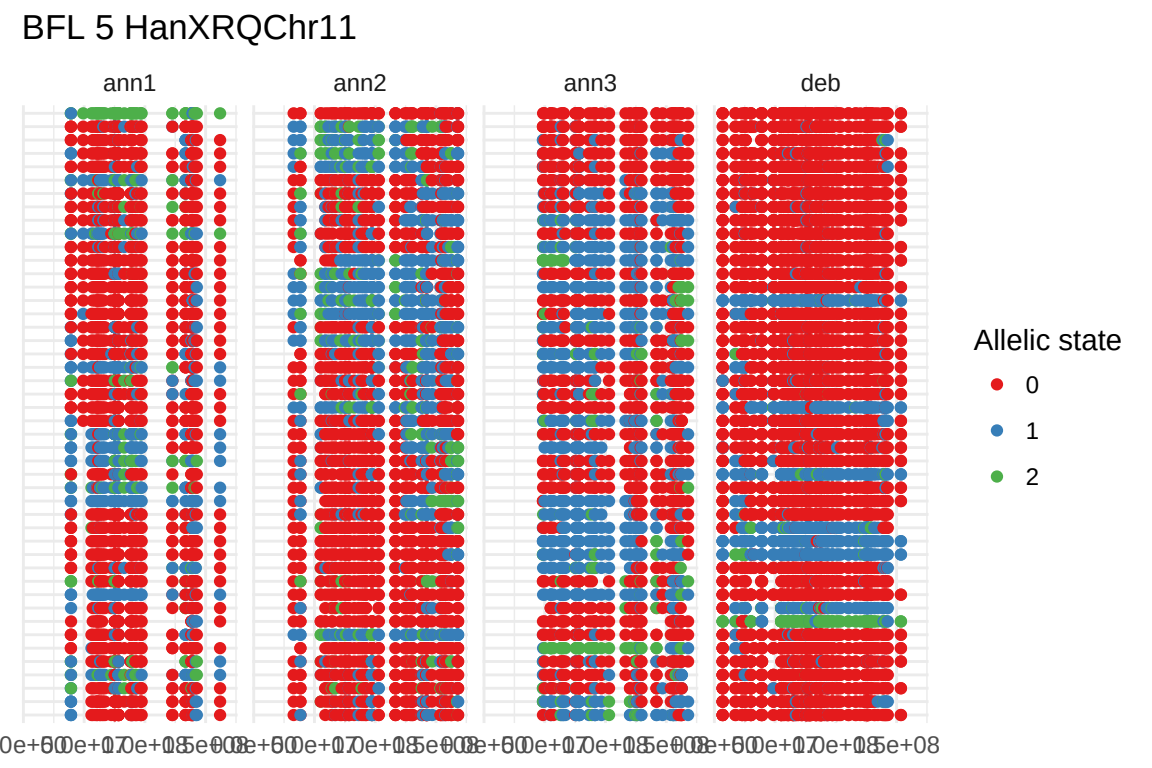
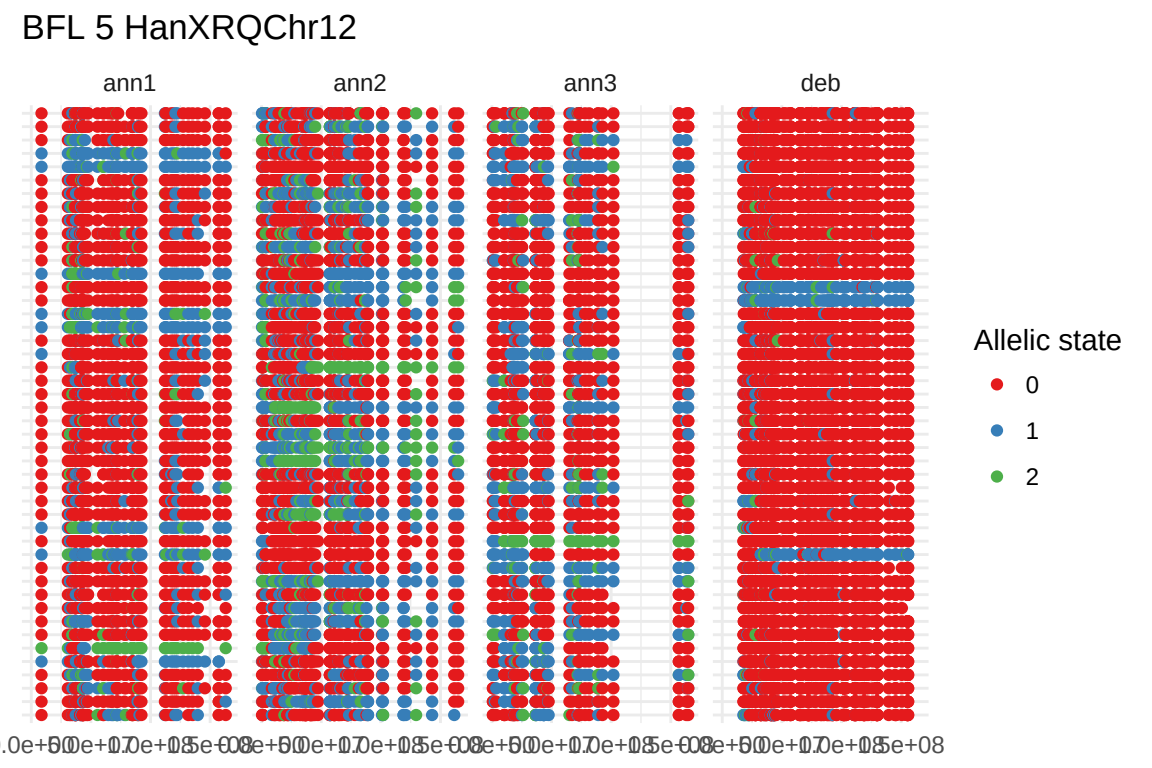
1
2


BFL 5 HanXRQChr11
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 5 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
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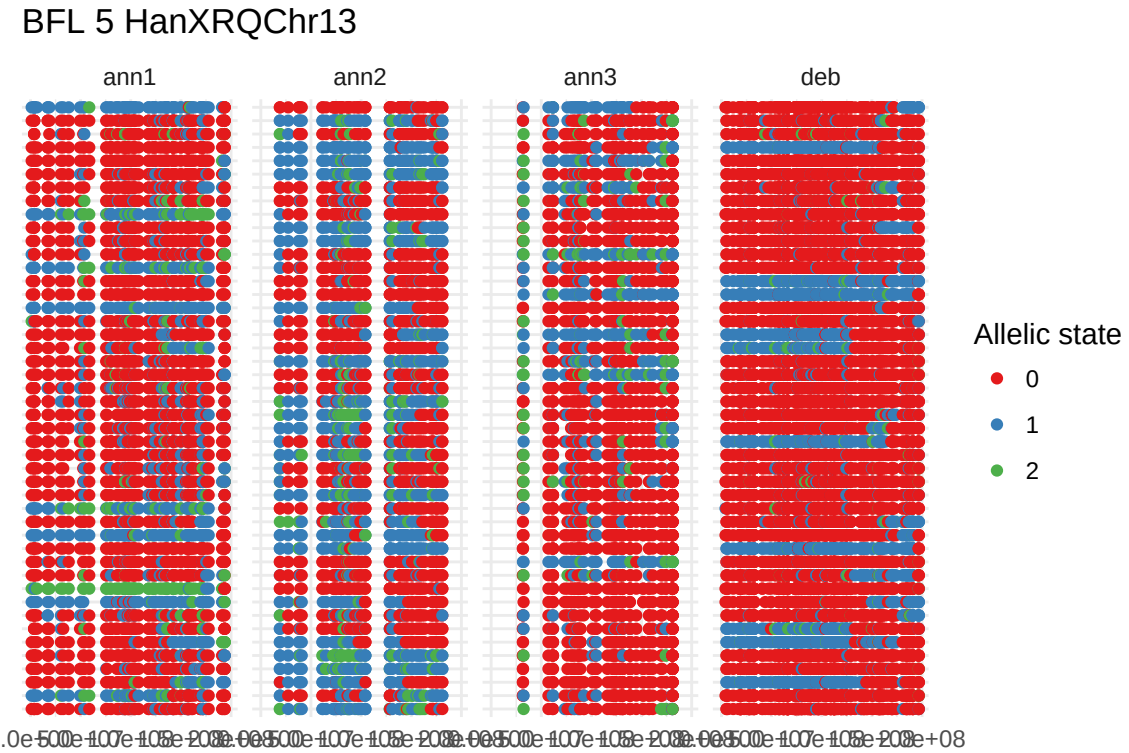
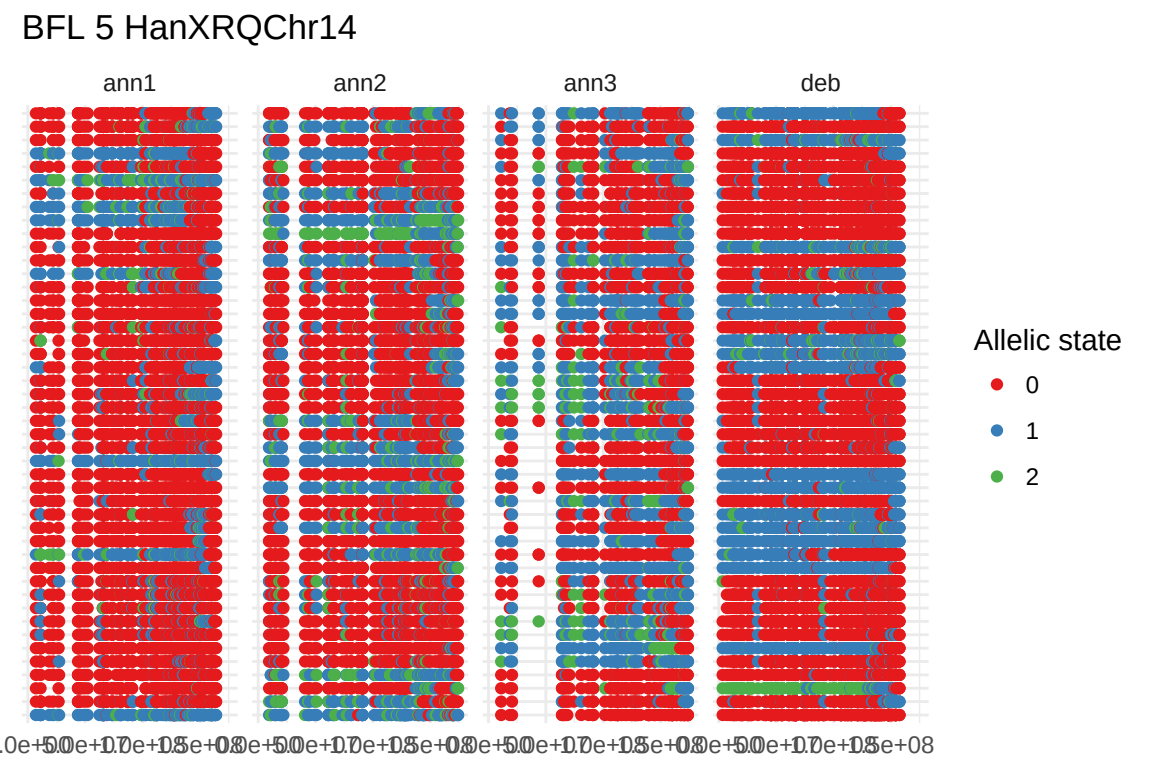
1
2


BFL 5 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 5 HanXRQChr14
ann1
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ann3
deb
Allelic state
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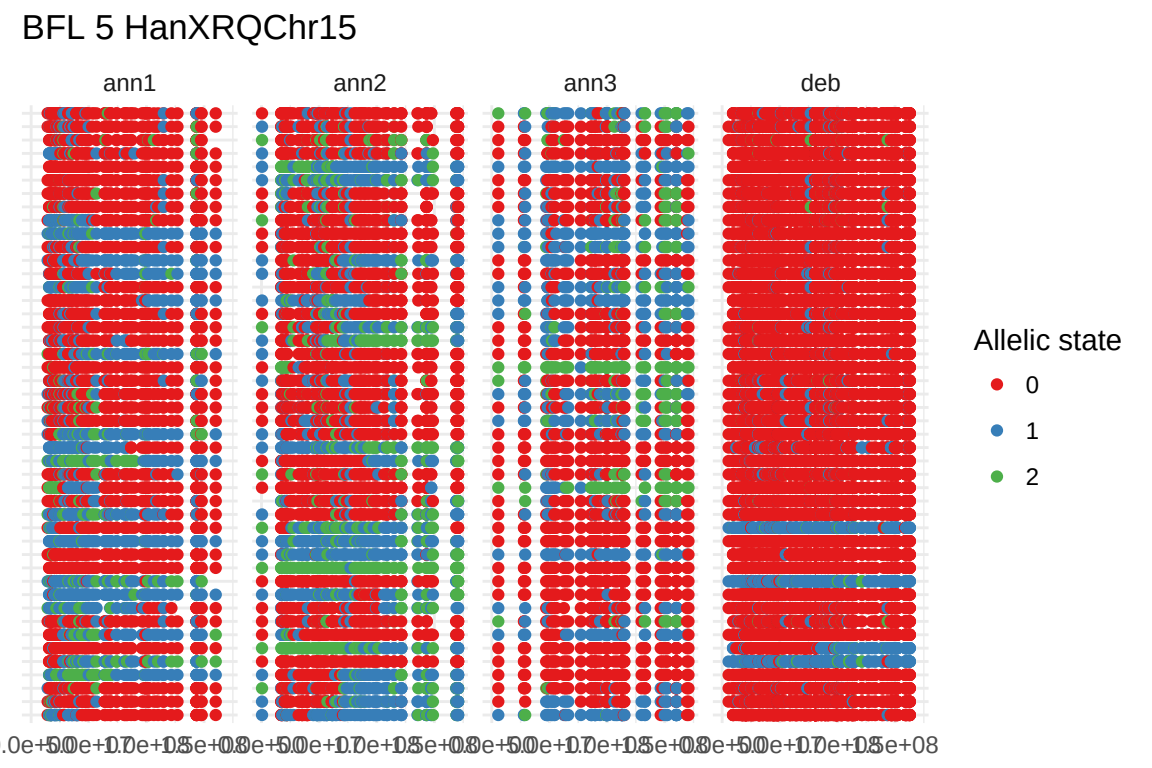
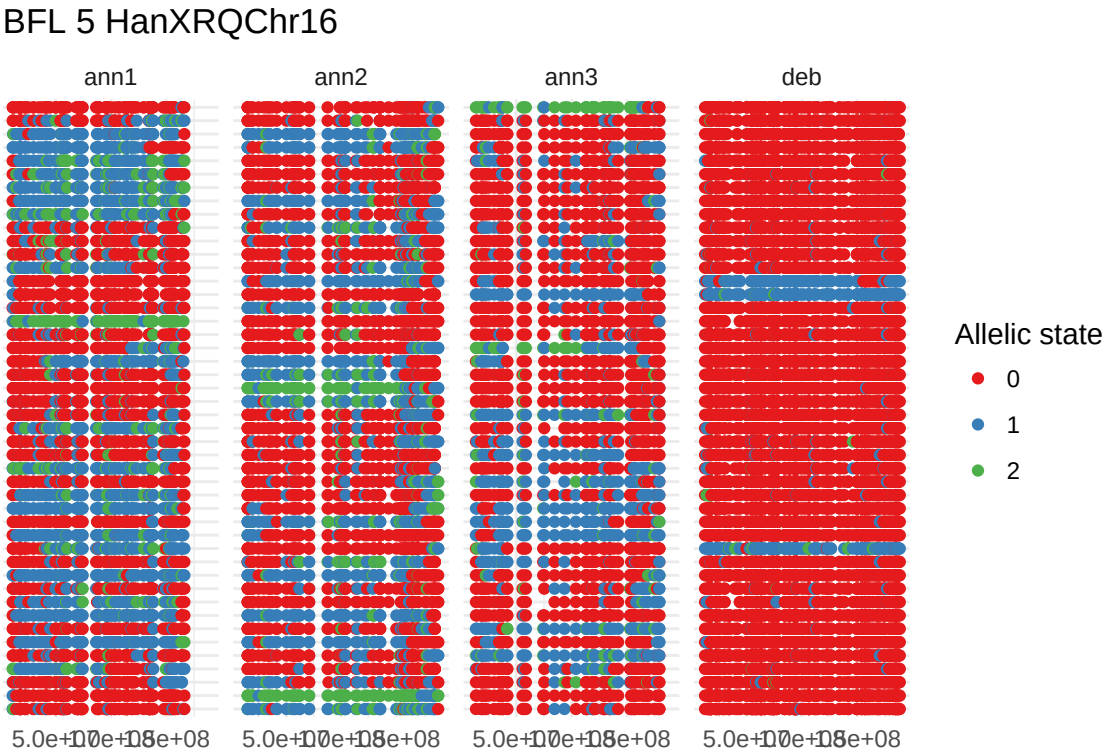
1
2


BFL 5 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8


BFL 5 HanXRQChr16
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ann2
ann3
deb
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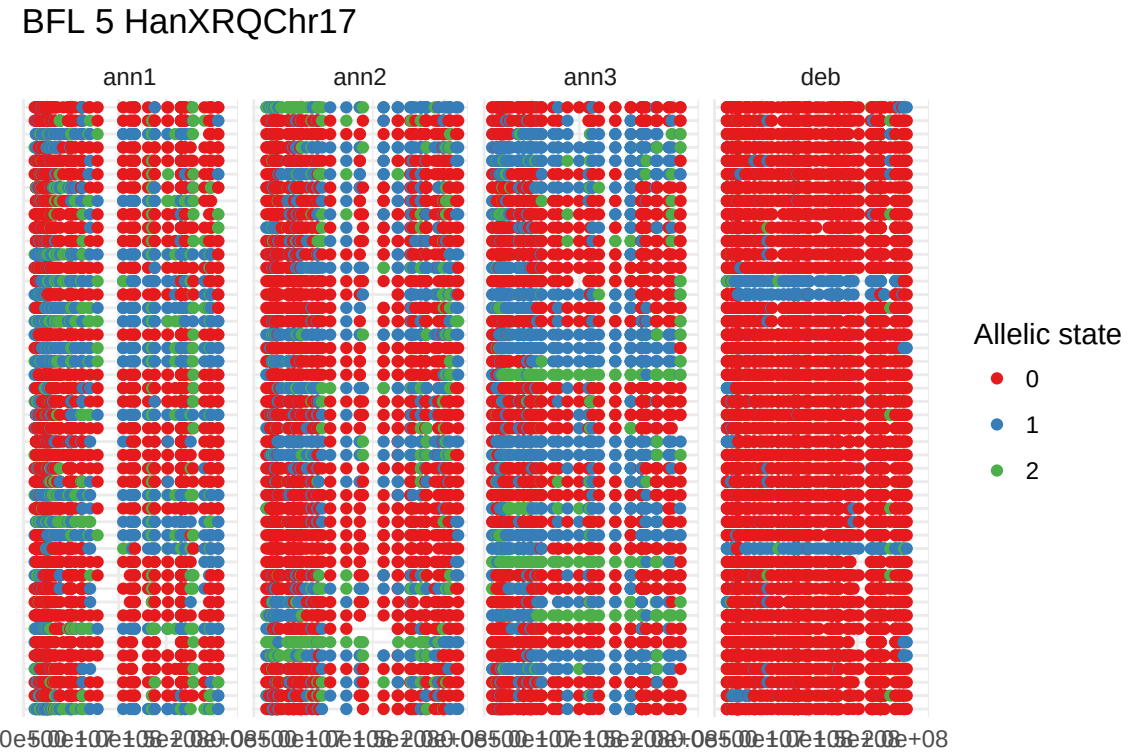
1.0e+08
1.5e+08
Allelic state
0
1
2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ann2
ann3
deb
Allelic state
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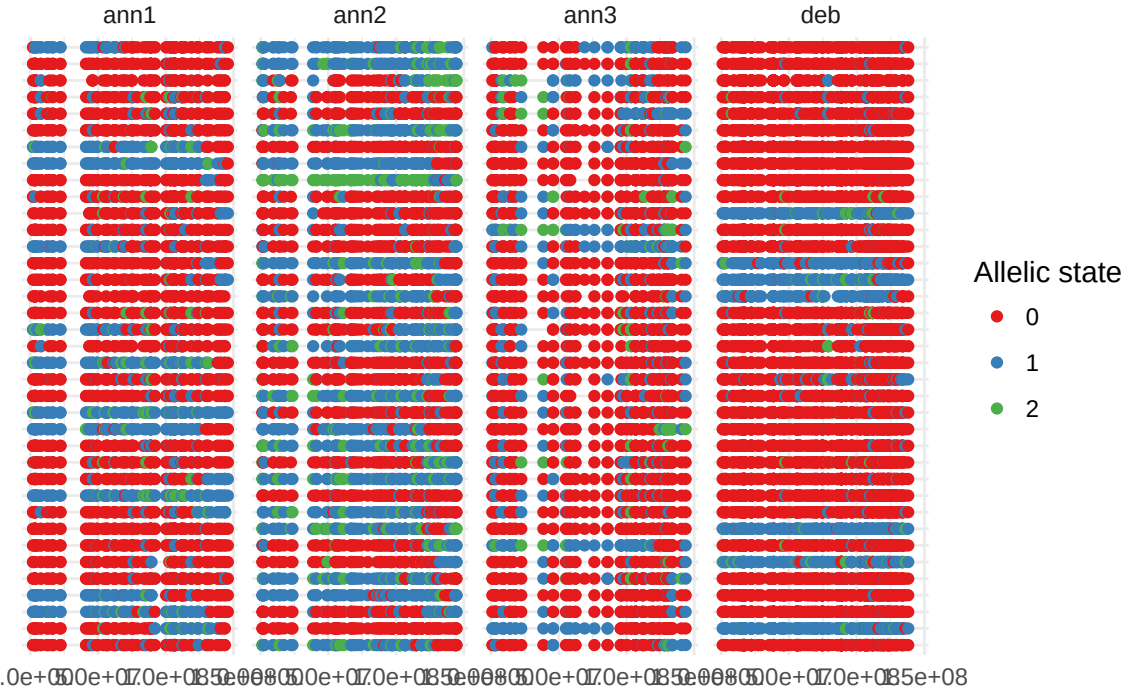
1
2

BFL 6 HanXRQChr01



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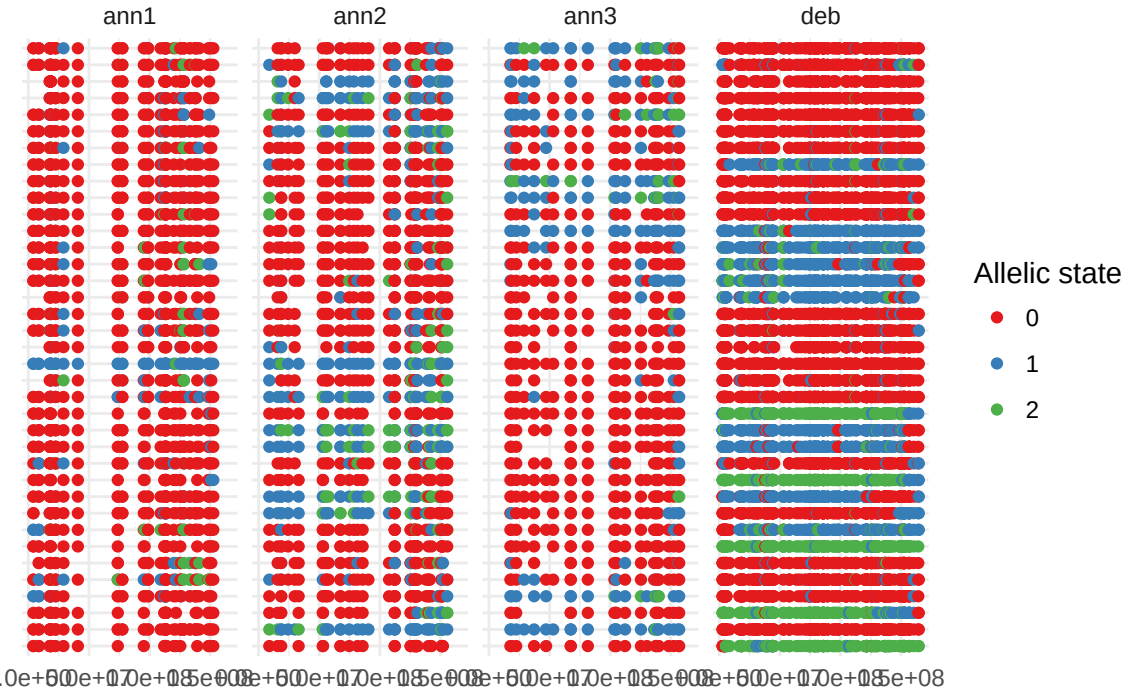

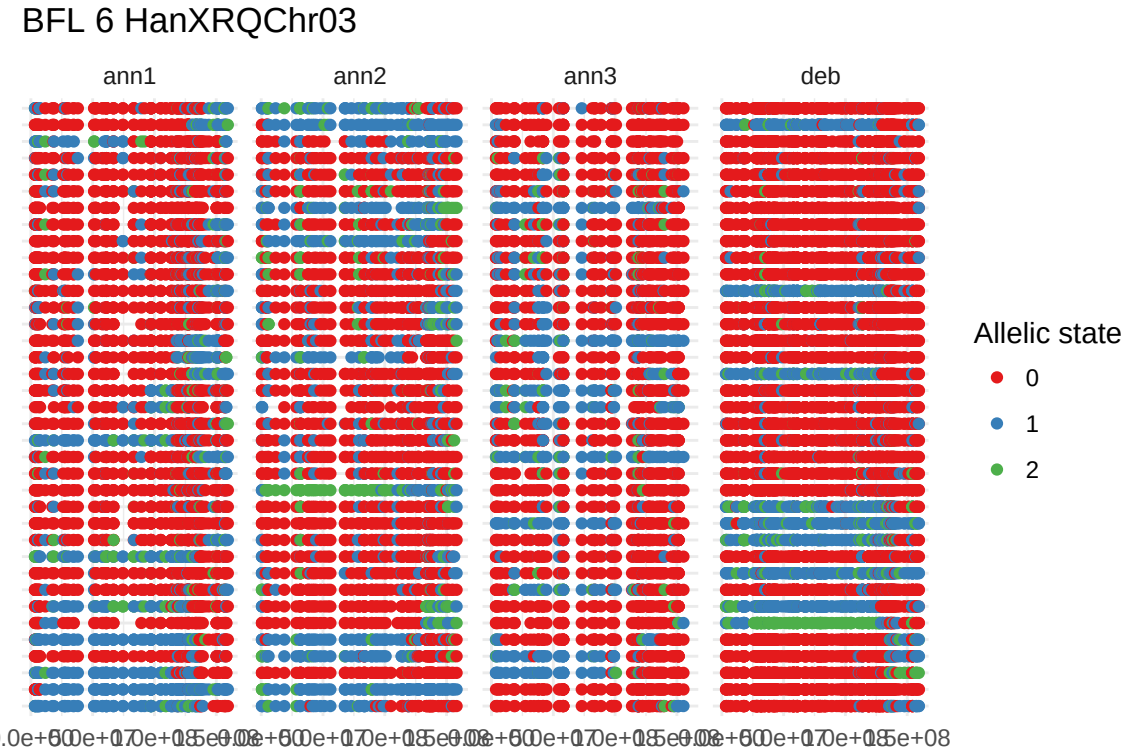
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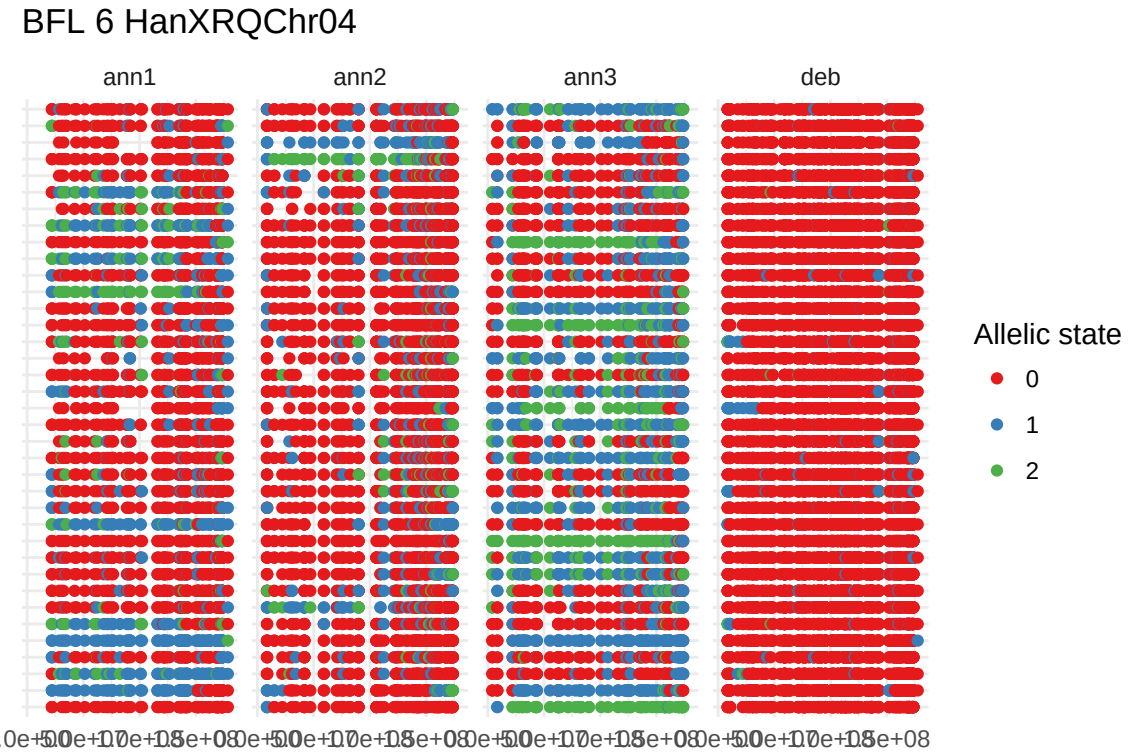
ann1
ann2
ann3
deb
Allelic state
0
1
2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ann3
deb
Allelic state
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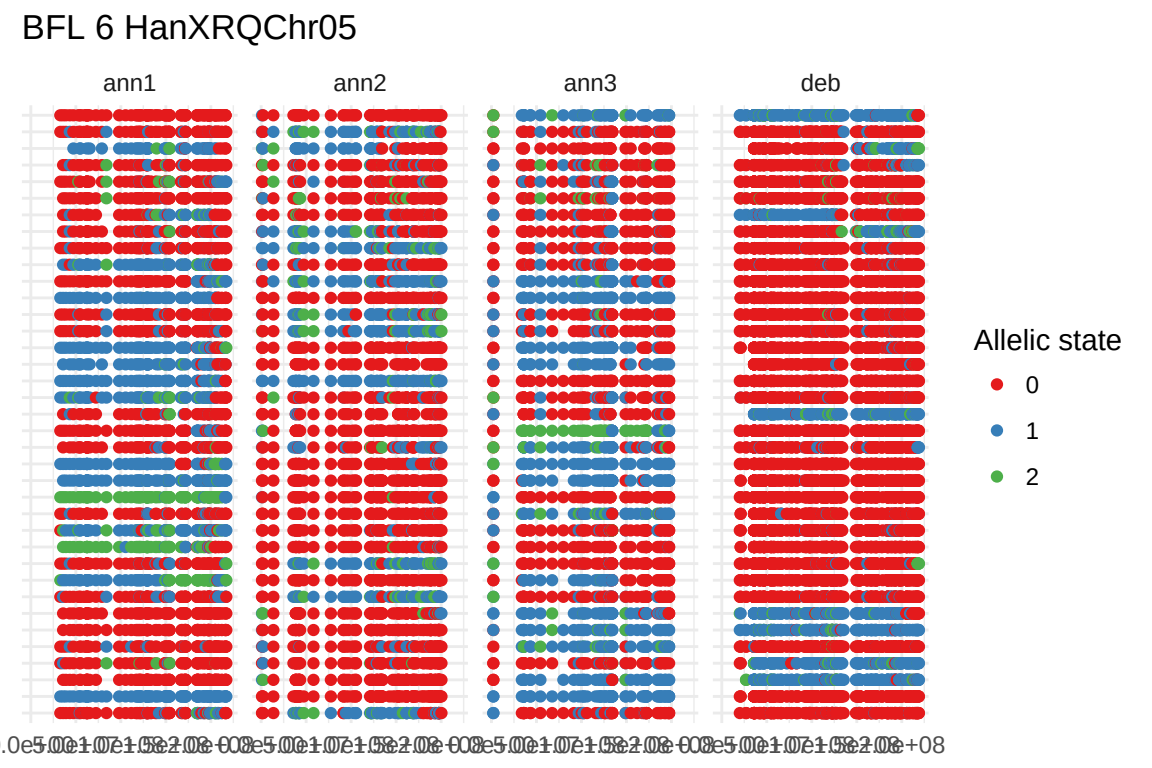
1
2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ann1
ann2
ann3
deb
Allelic state
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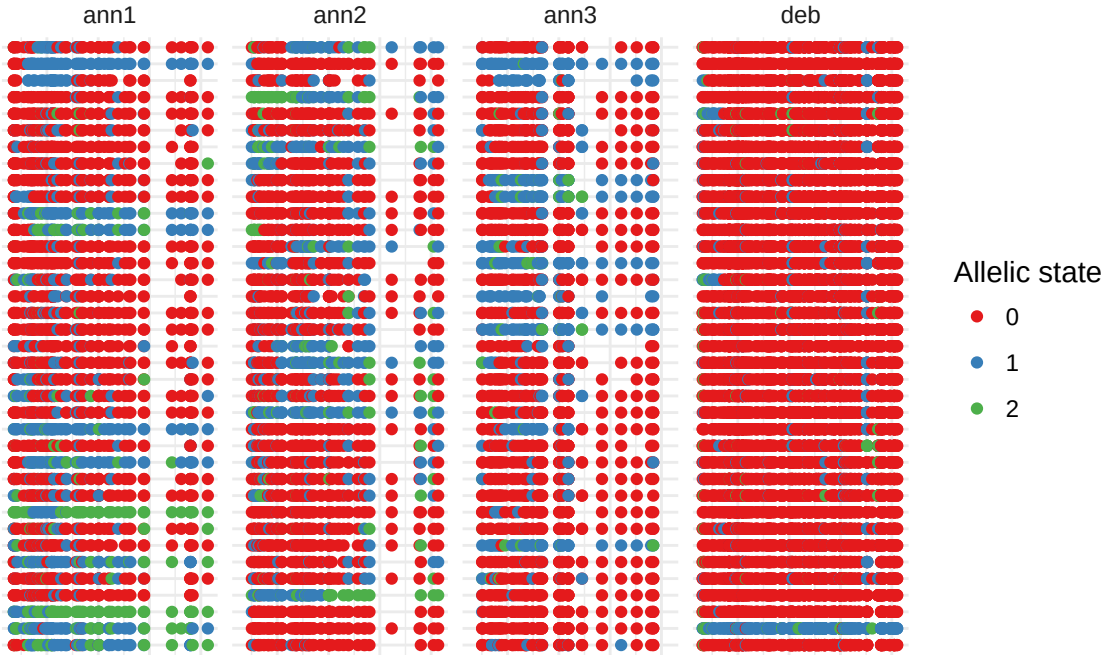
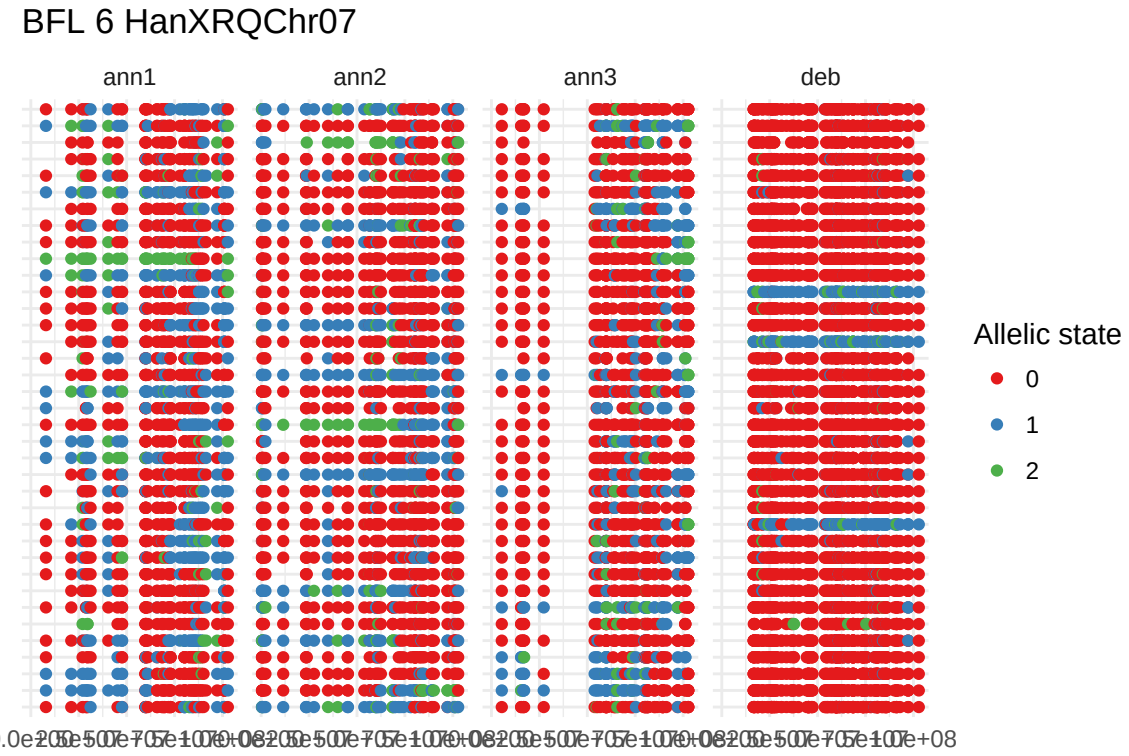
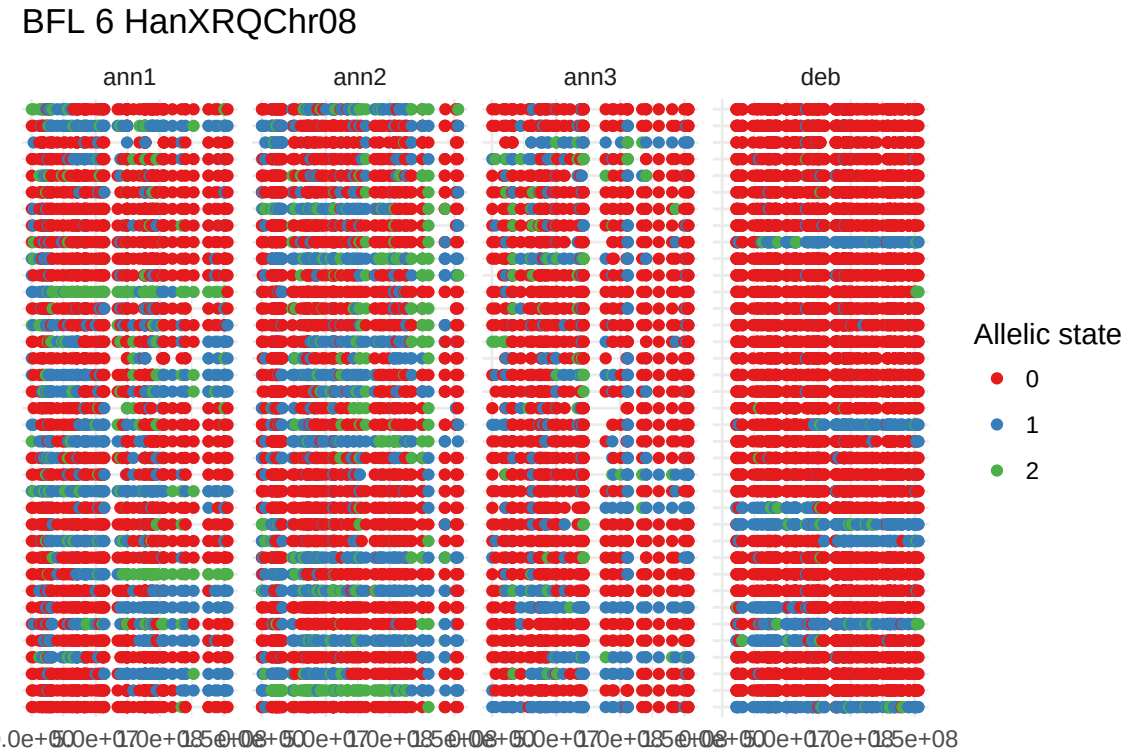
1
2

BFL 6 HanXRQChr06




BFL 6 HanXRQChr07
ann1
ann2
ann3
deb
Allelic state
0
1
2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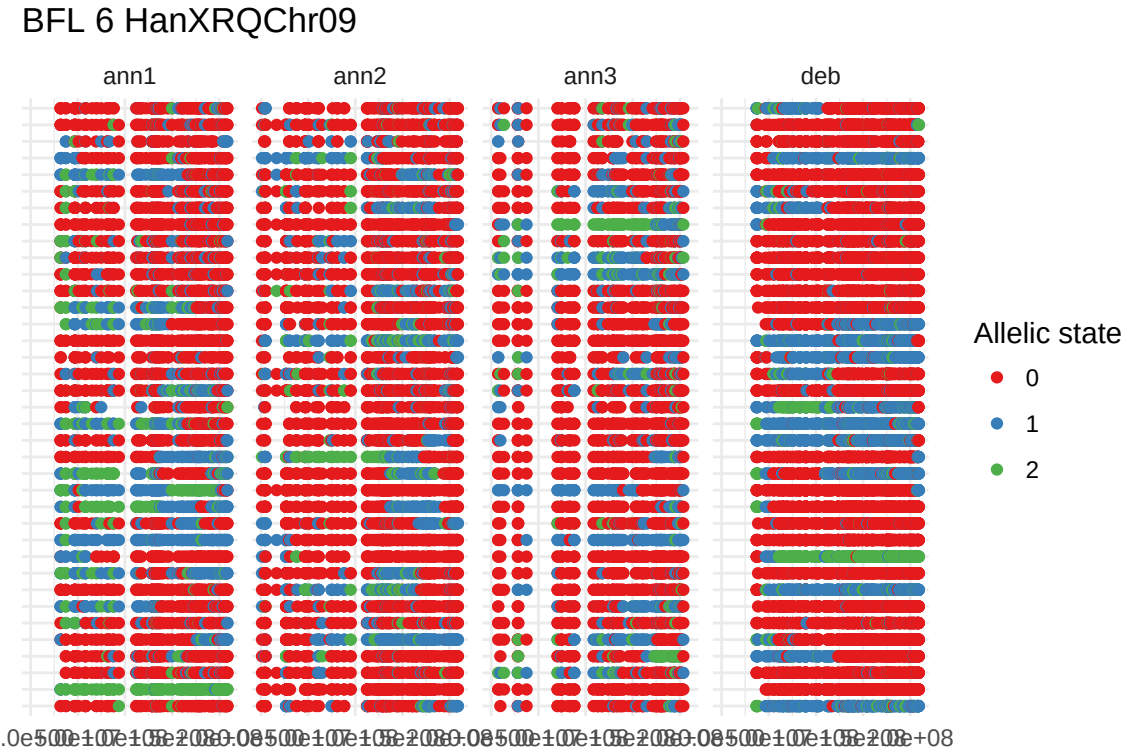
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08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ann1
ann2
ann3
deb
Allelic state
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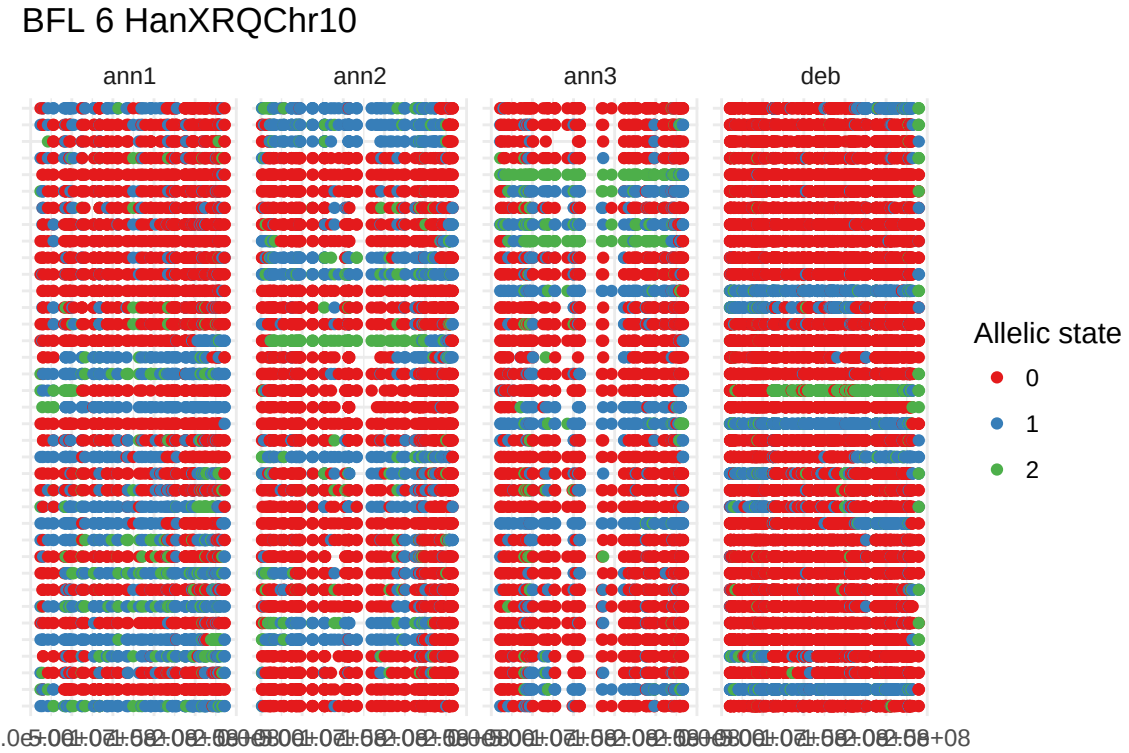
1
2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ann2
ann3
deb
Allelic state
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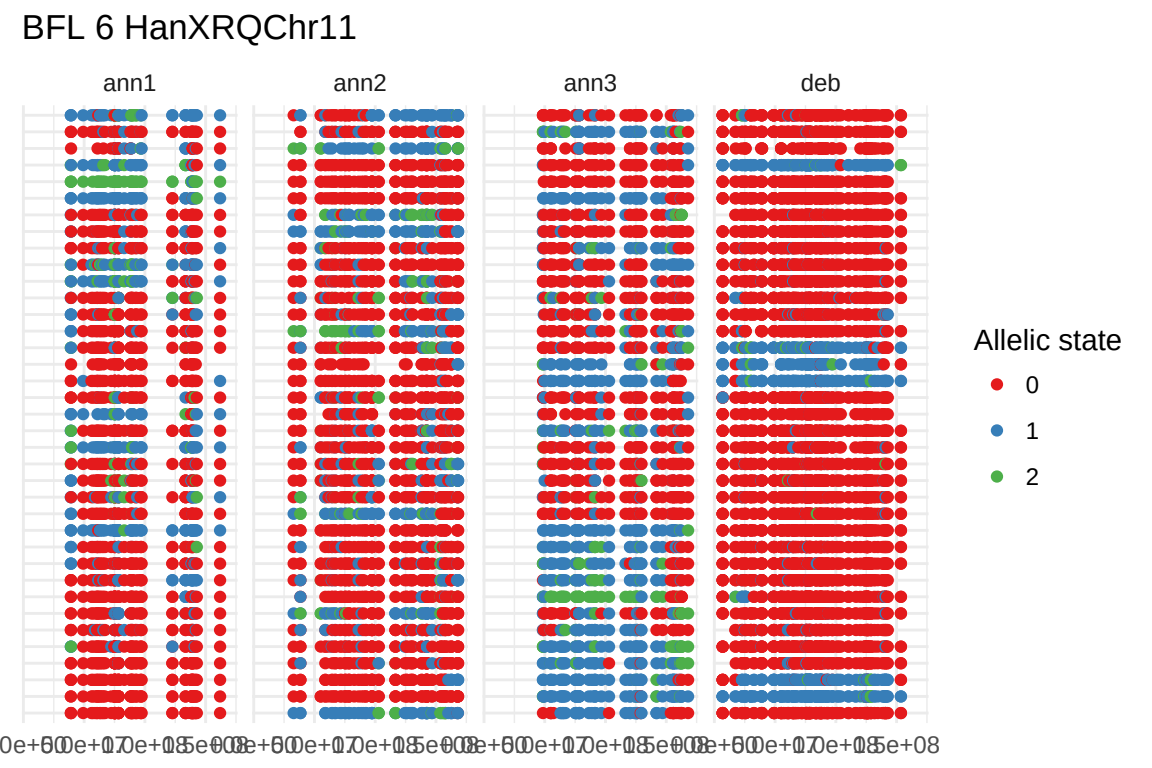
1
2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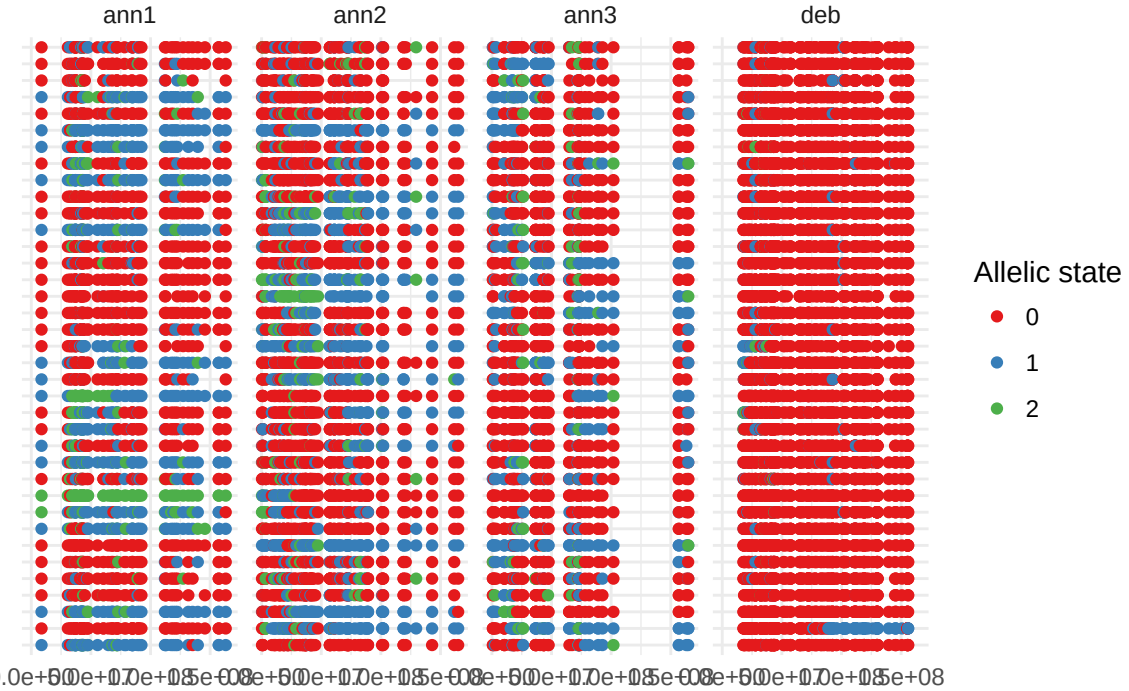
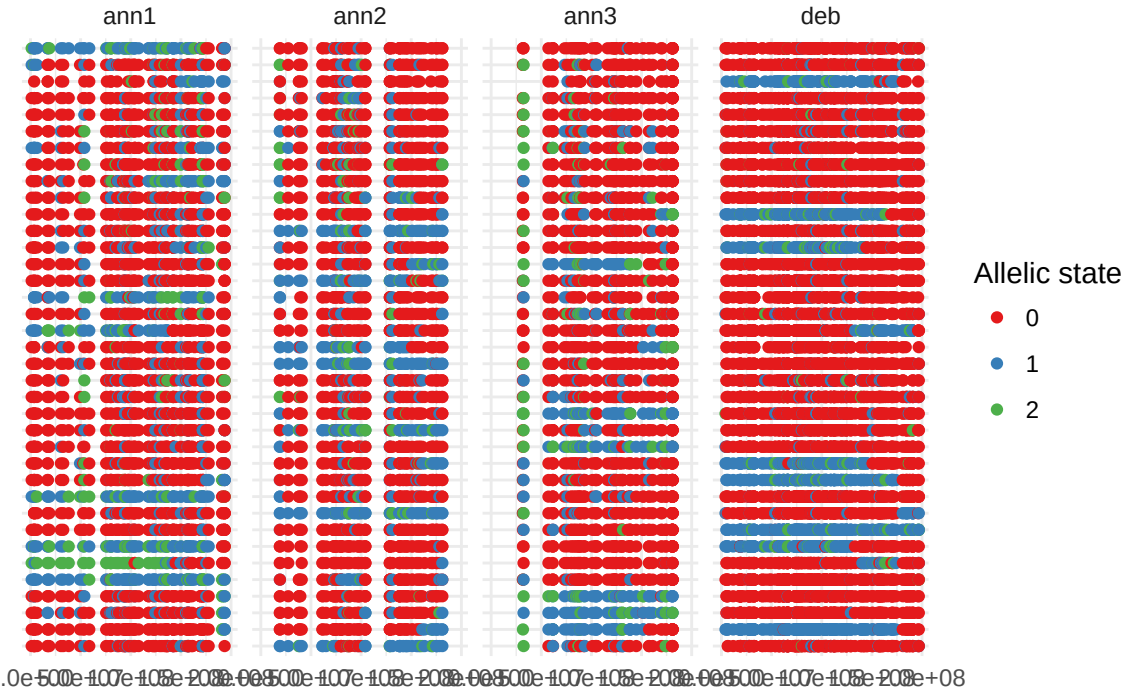
ann1
ann2
ann3
deb
Allelic state
0
1
2

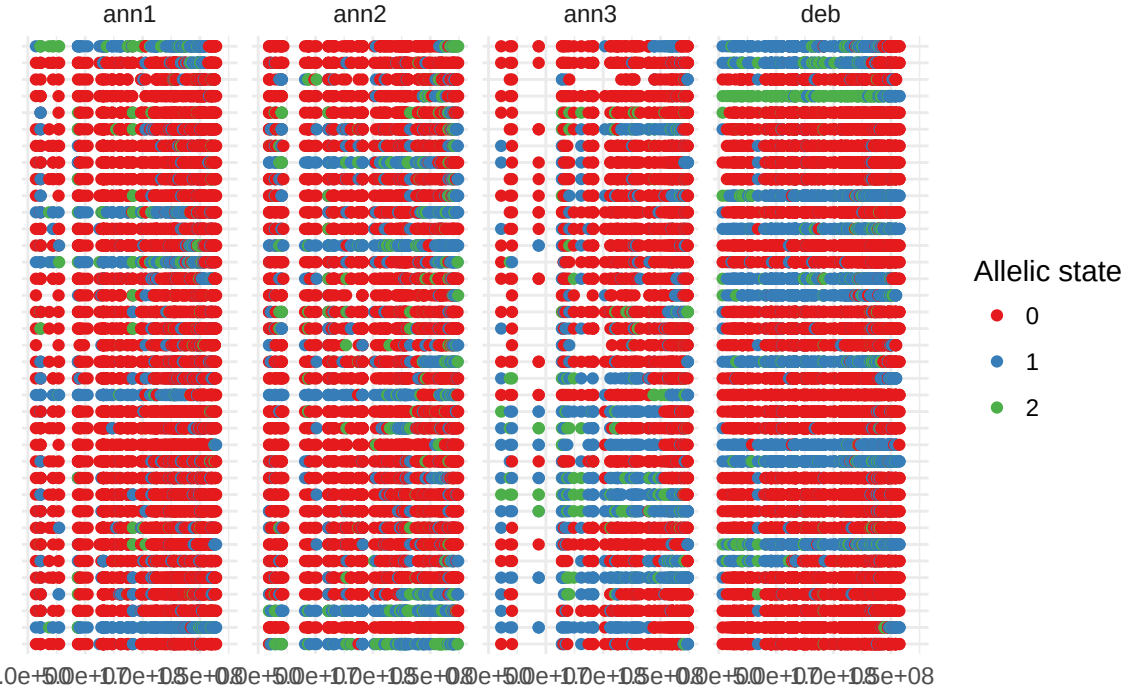
BFL 6 HanXRQChr12



BFL 6 HanXRQChr13

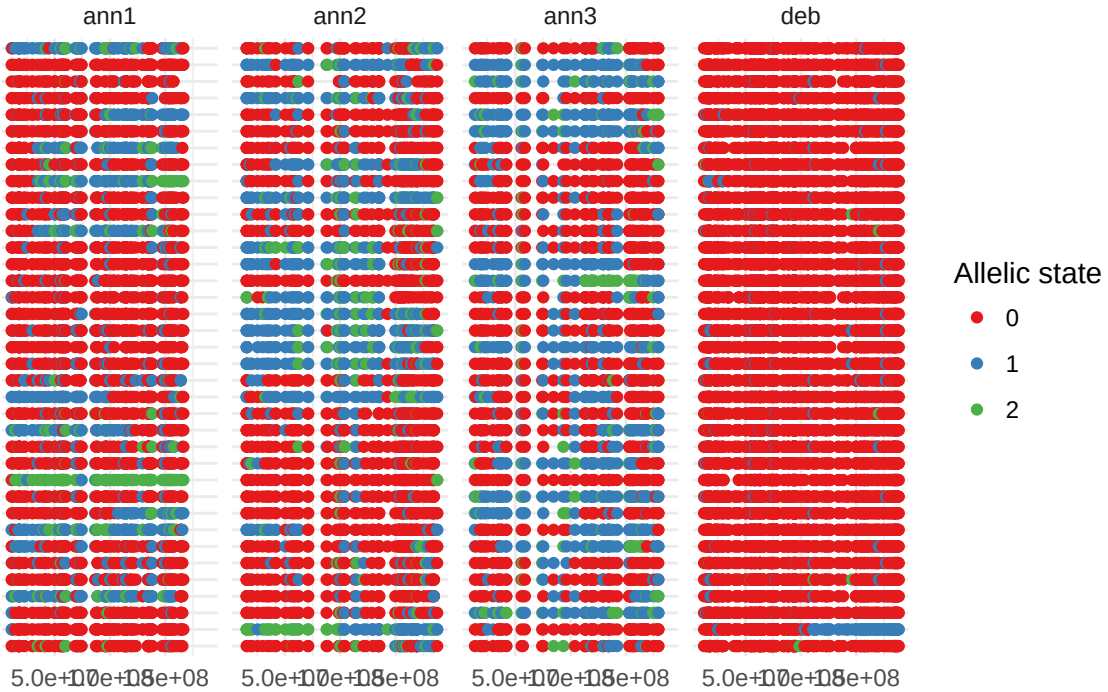


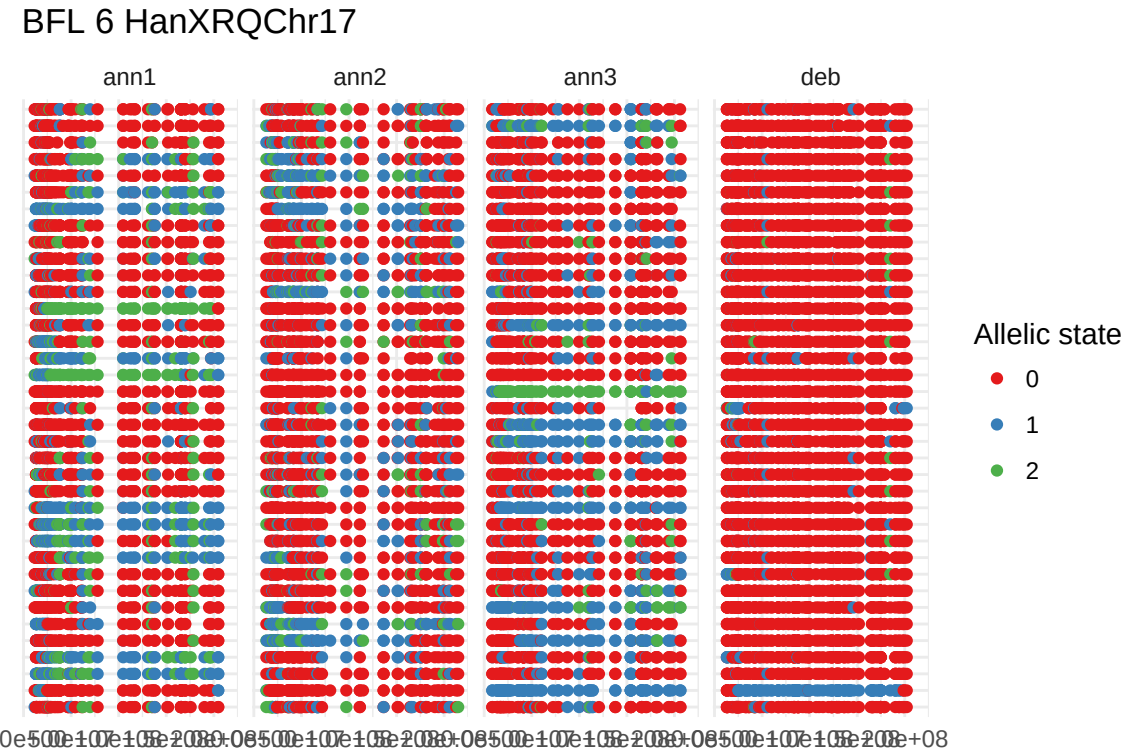
BFL 6 HanXRQChr14



BFL 6 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+08

BFL 6 HanXRQChr16

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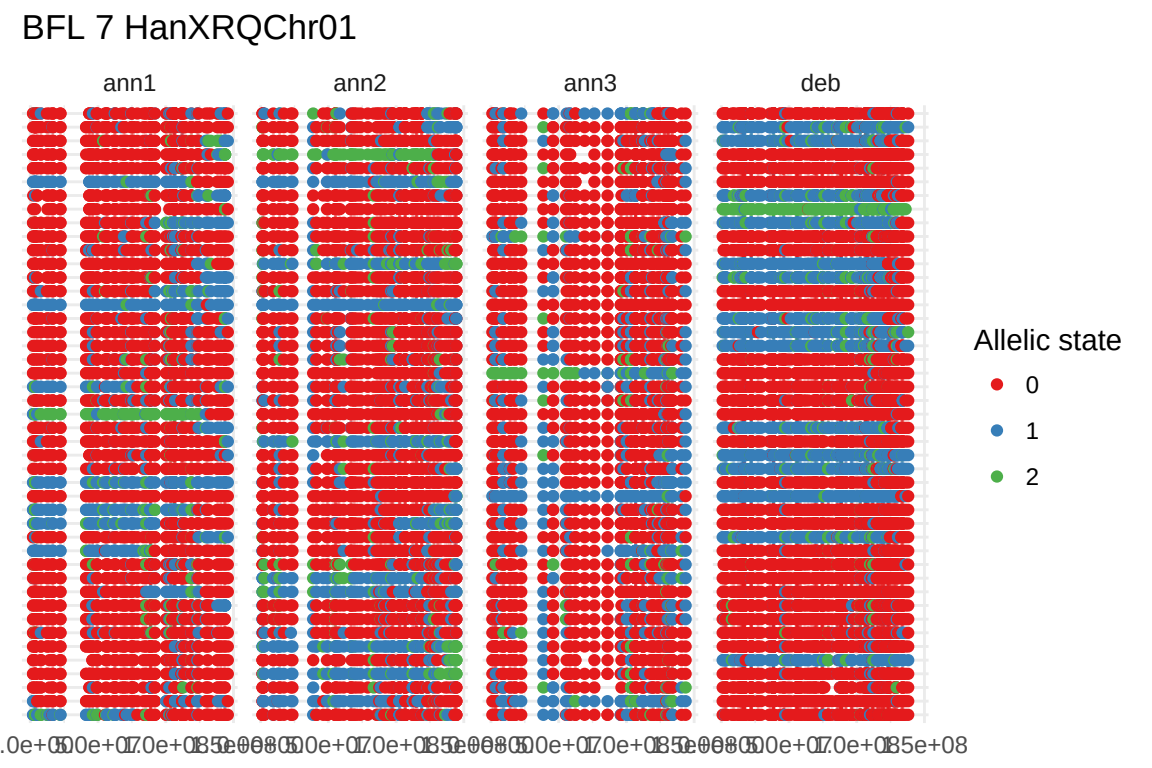
ann1
ann2
ann3
deb
Allelic state
0
1
2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ann3
deb
Allelic state
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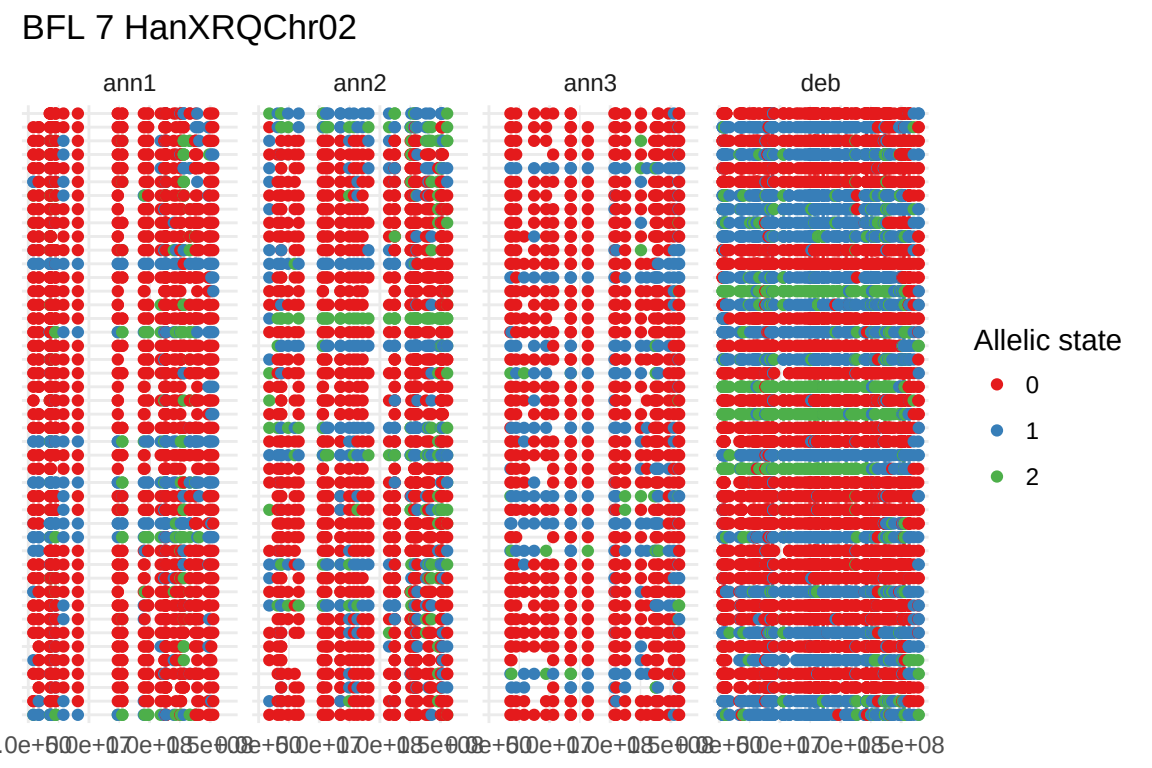
1
2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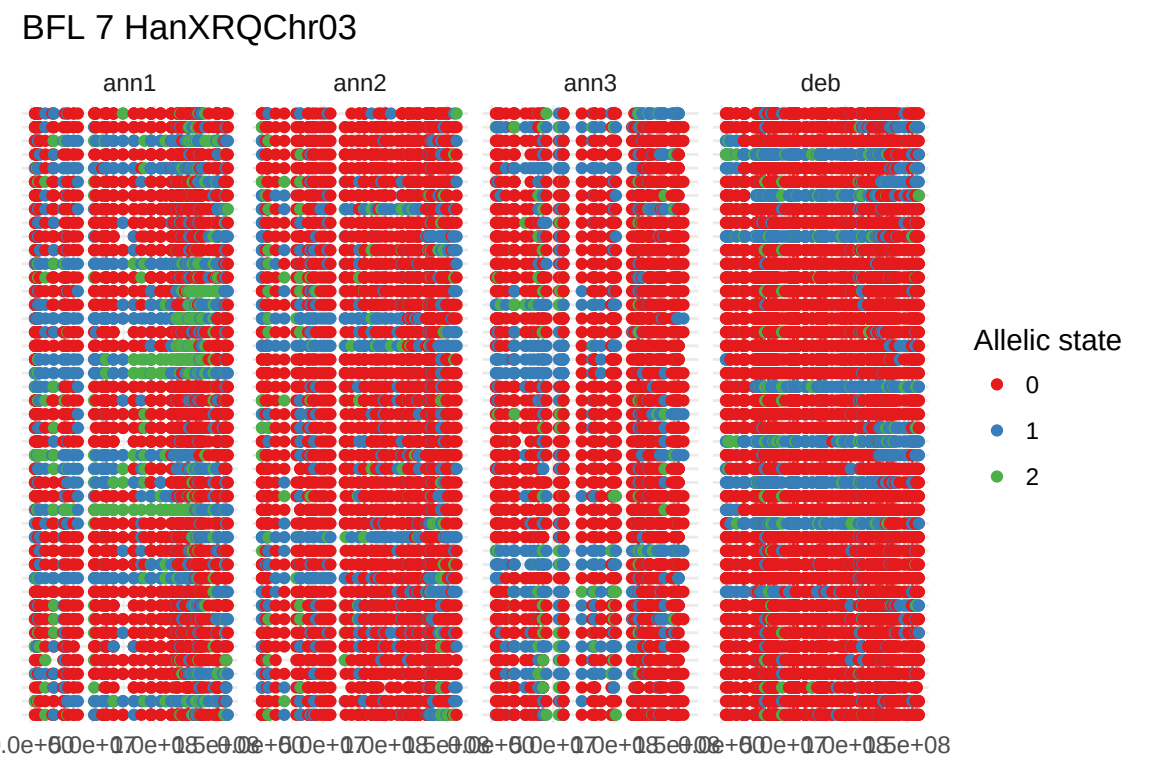
ann3
deb
Allelic state
0
1
2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ann1
ann2
ann3
deb
Allelic state
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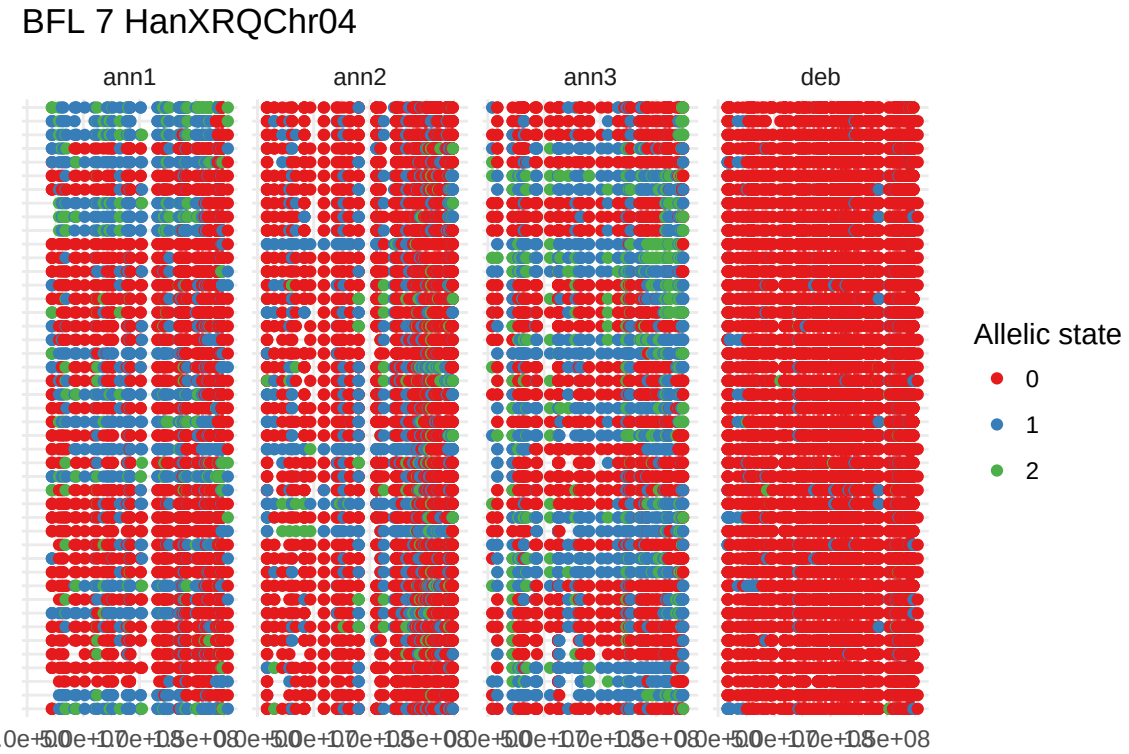
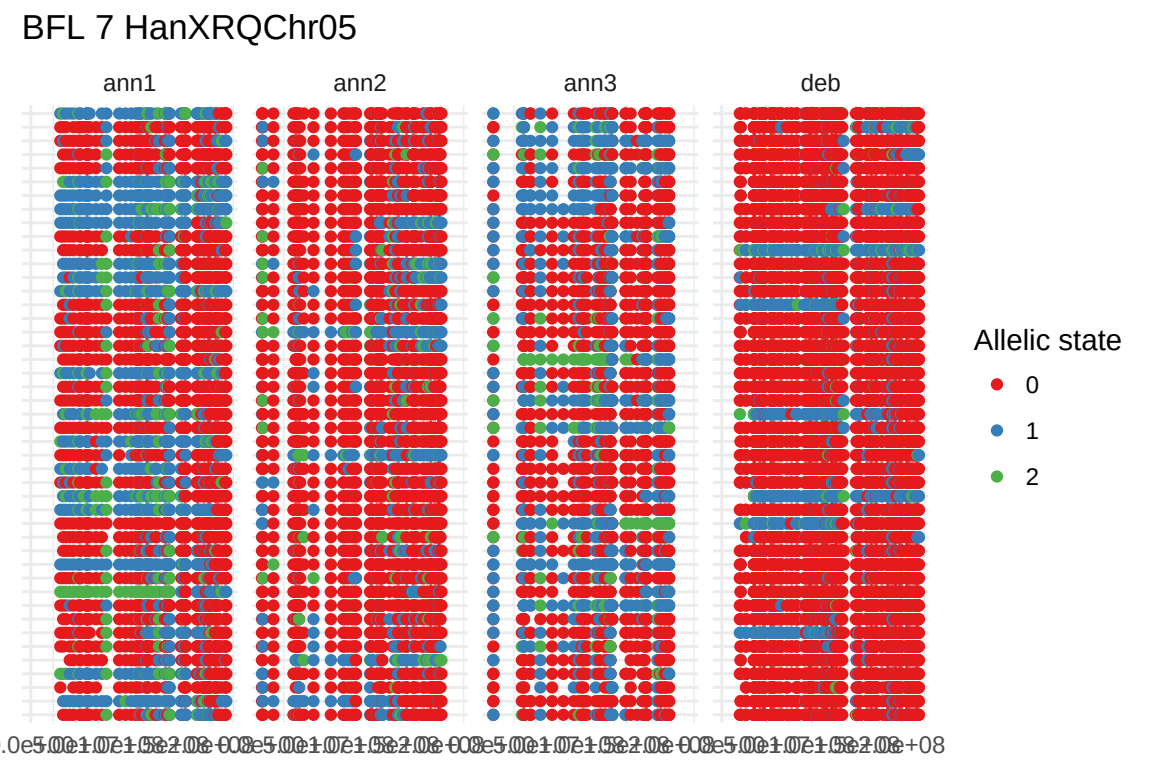
1
2


BFL 7 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2
0e+00
7e+08
5e+08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ann1
ann2
ann3
deb
Allelic state
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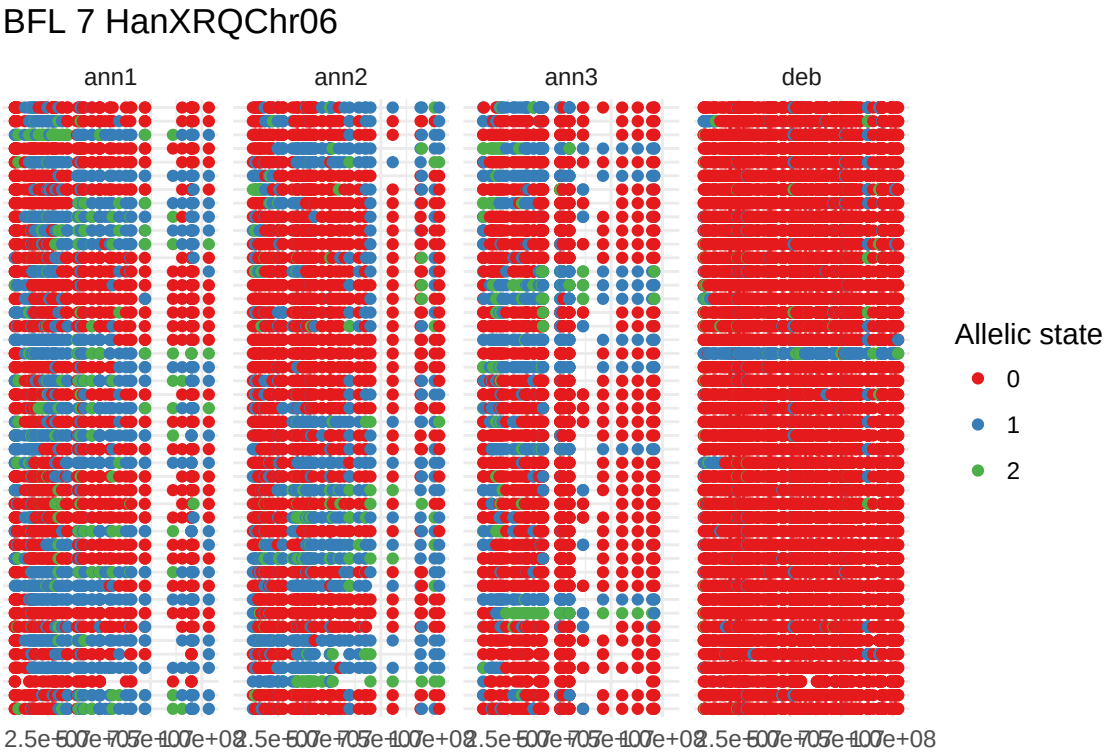
1
2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ann2
ann3
deb
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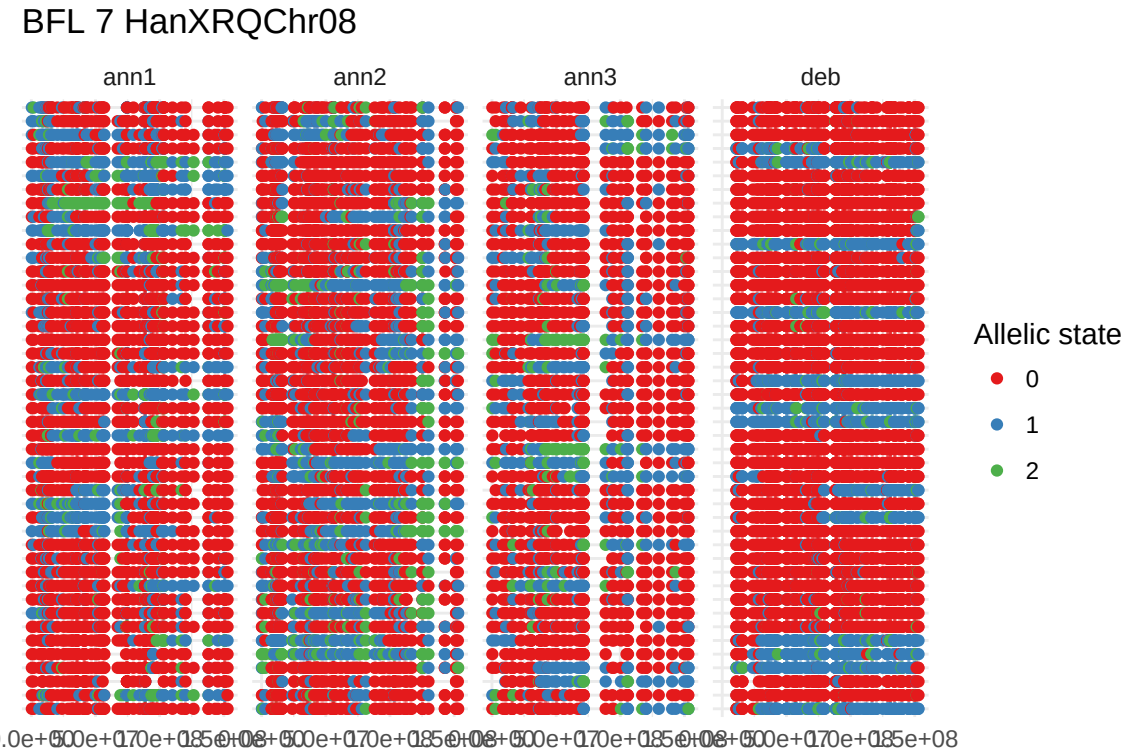
5.0e+08
7.5e+08
1.0e+08
Allelic state
0
1
2

BFL 7 HanXRQChr07
ann1
ann2
ann3
deb
Allelic state
0
1
2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ann2
ann3
deb
Allelic state
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1
2
.0e+00
5.0e+07
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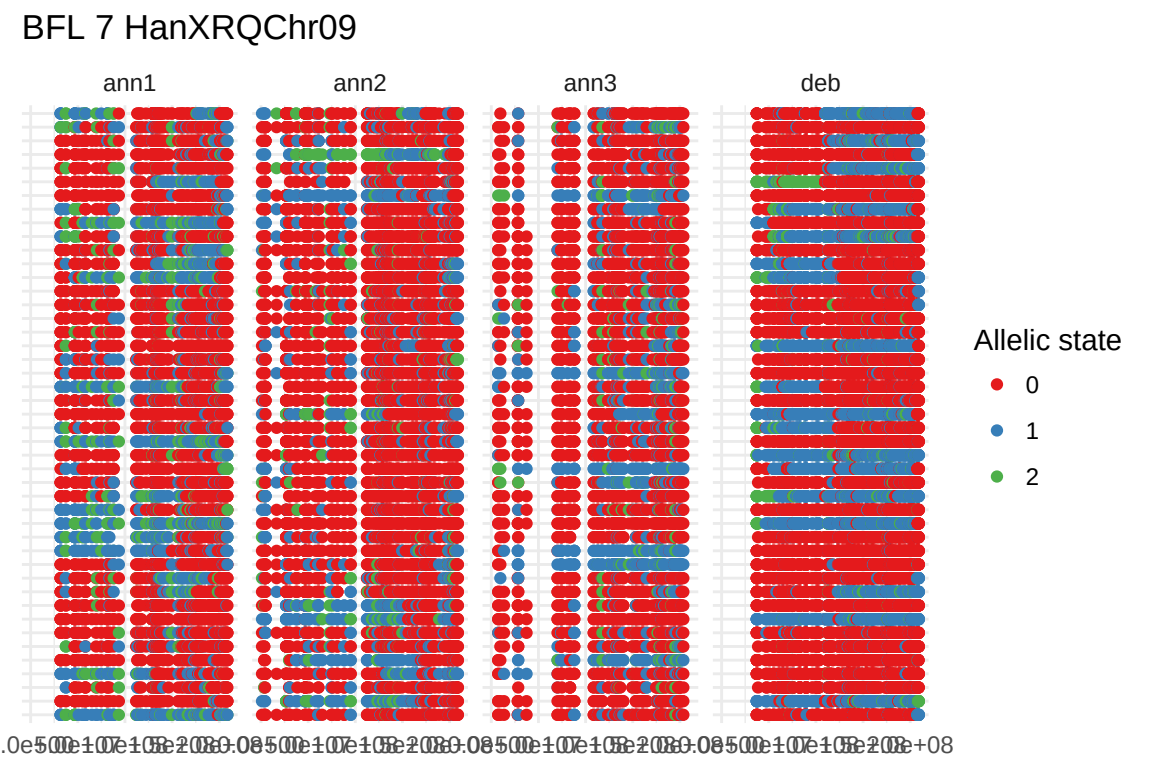
1.5e+08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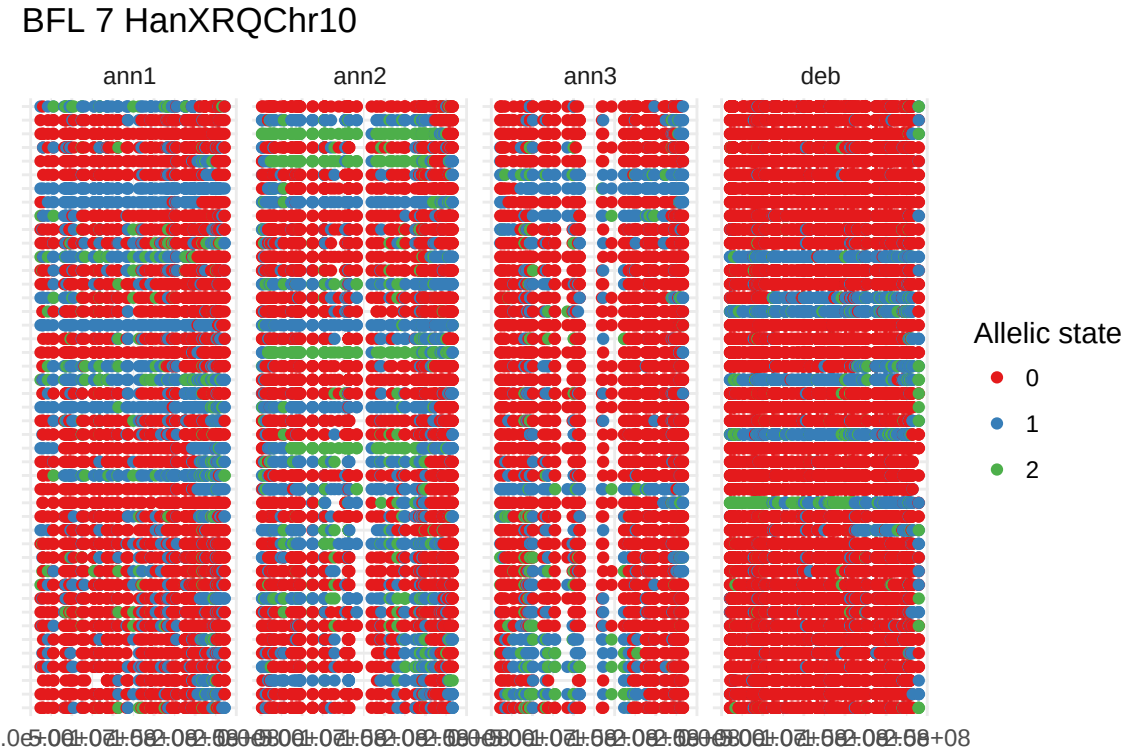
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ann3
deb
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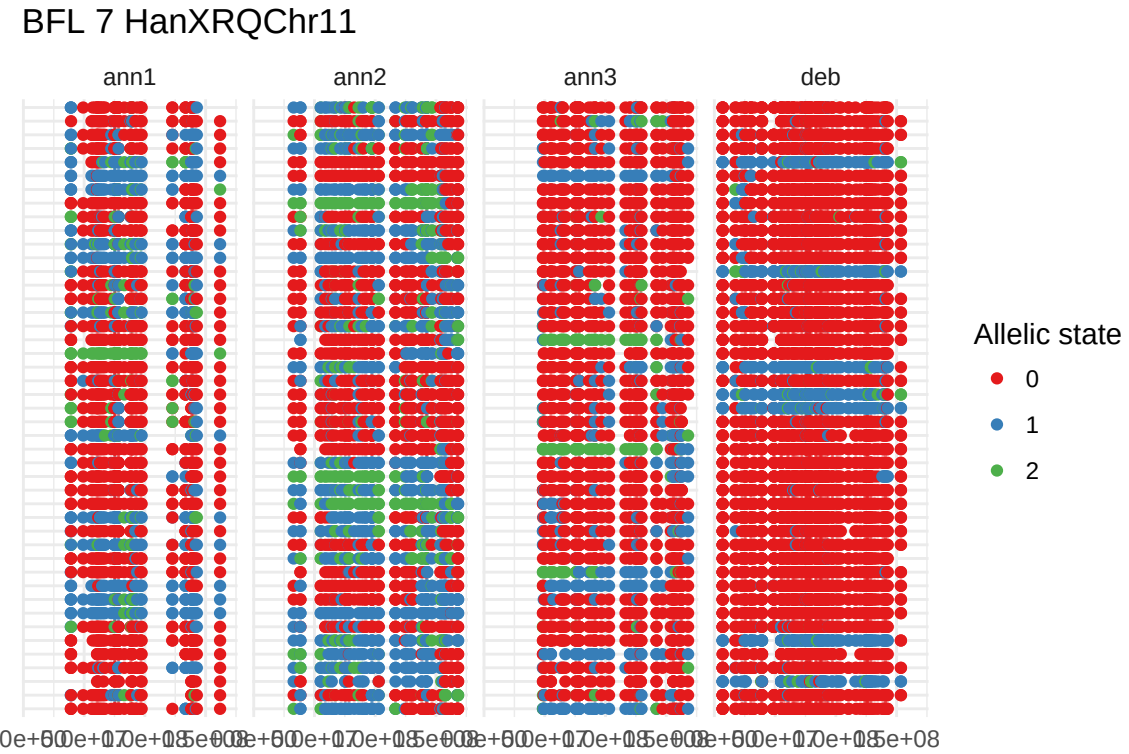
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ann1
ann2
ann3
deb
Allelic state
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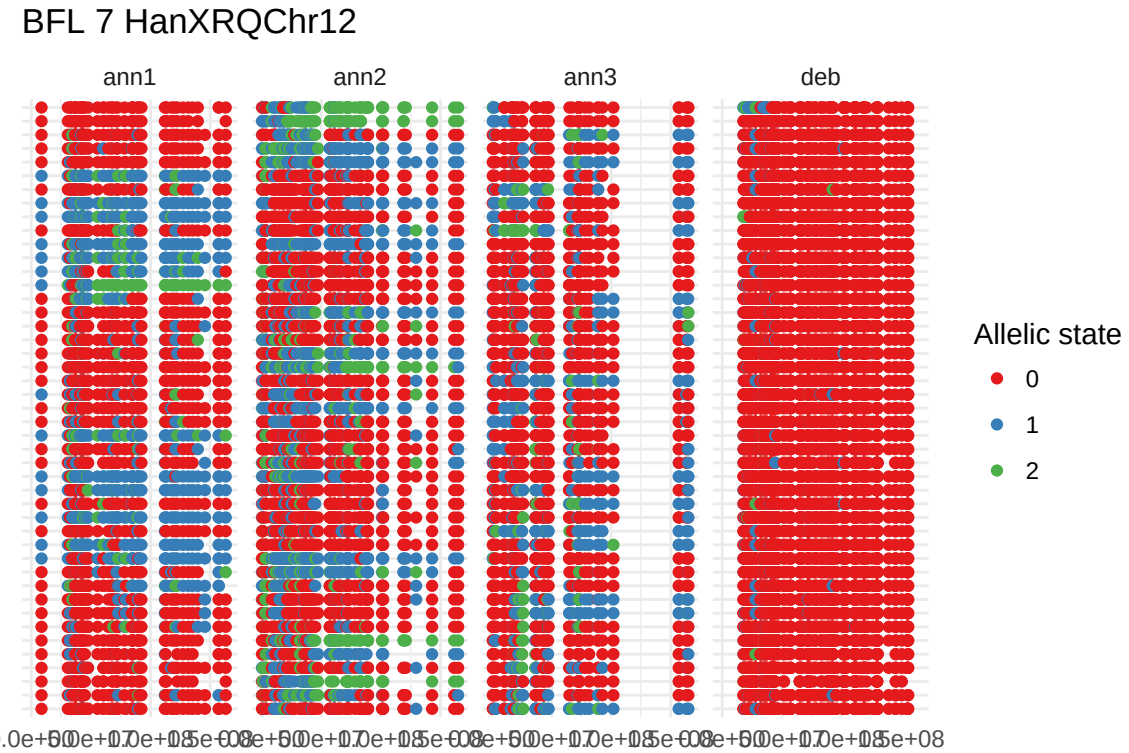
2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ann2
ann3
deb
Allelic state
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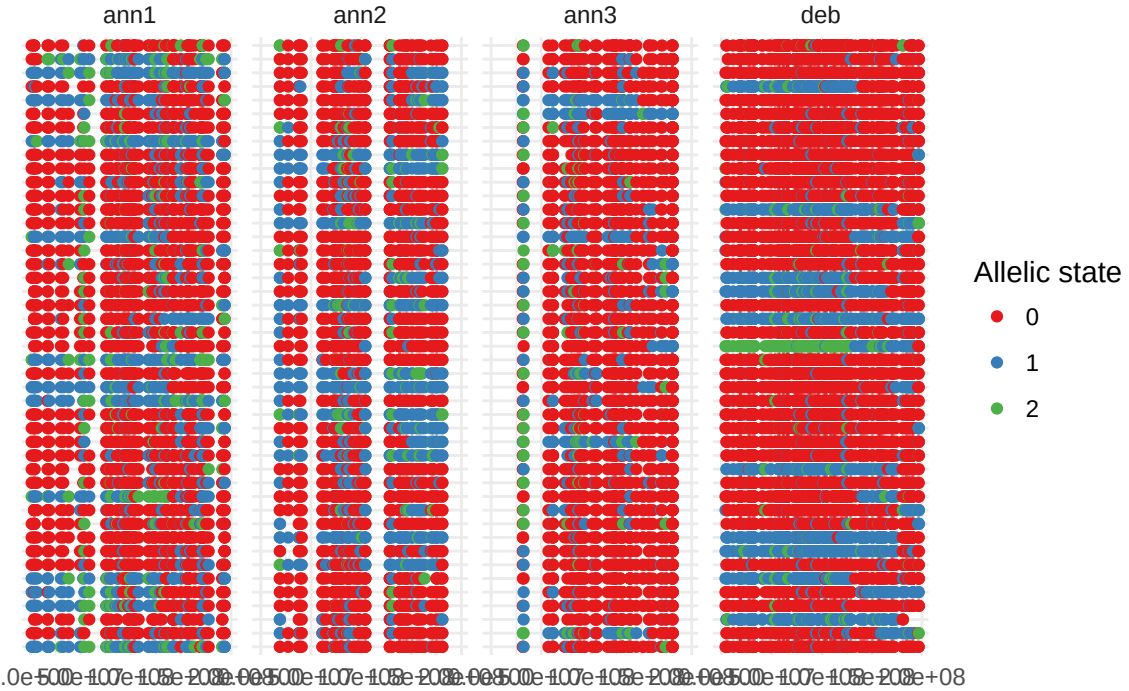
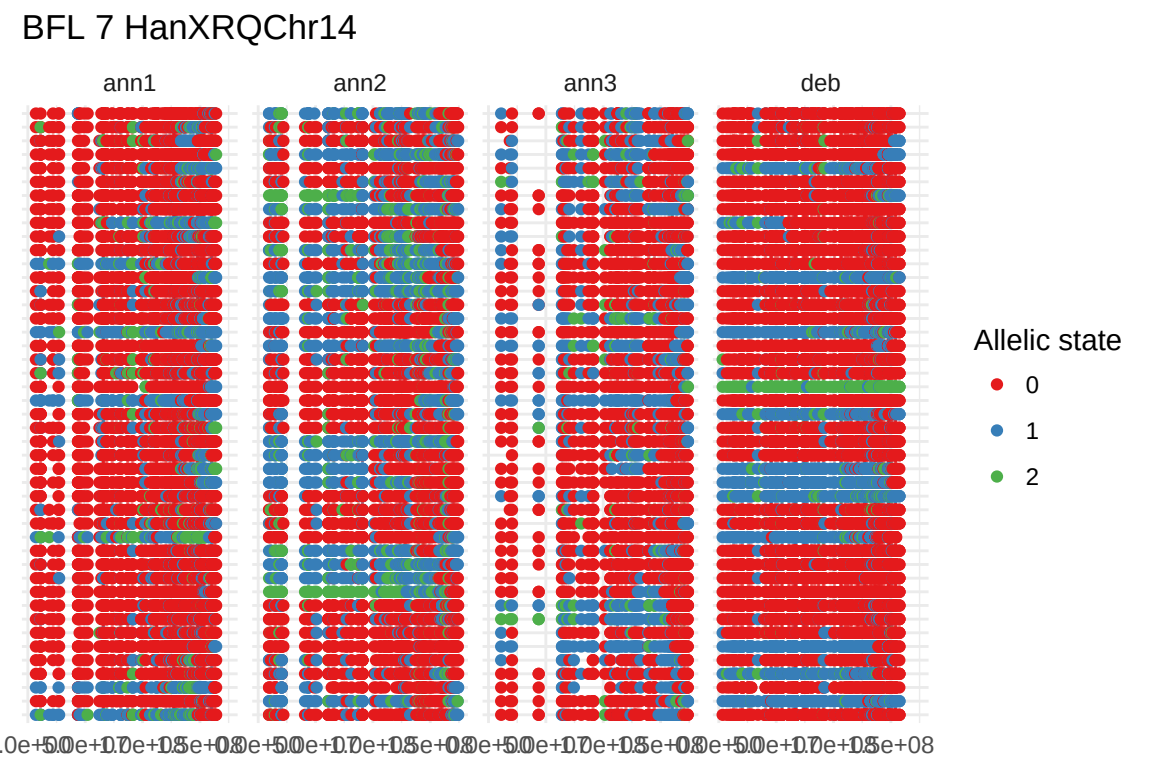
1
2

BFL 7 HanXRQChr13

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ann3
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1
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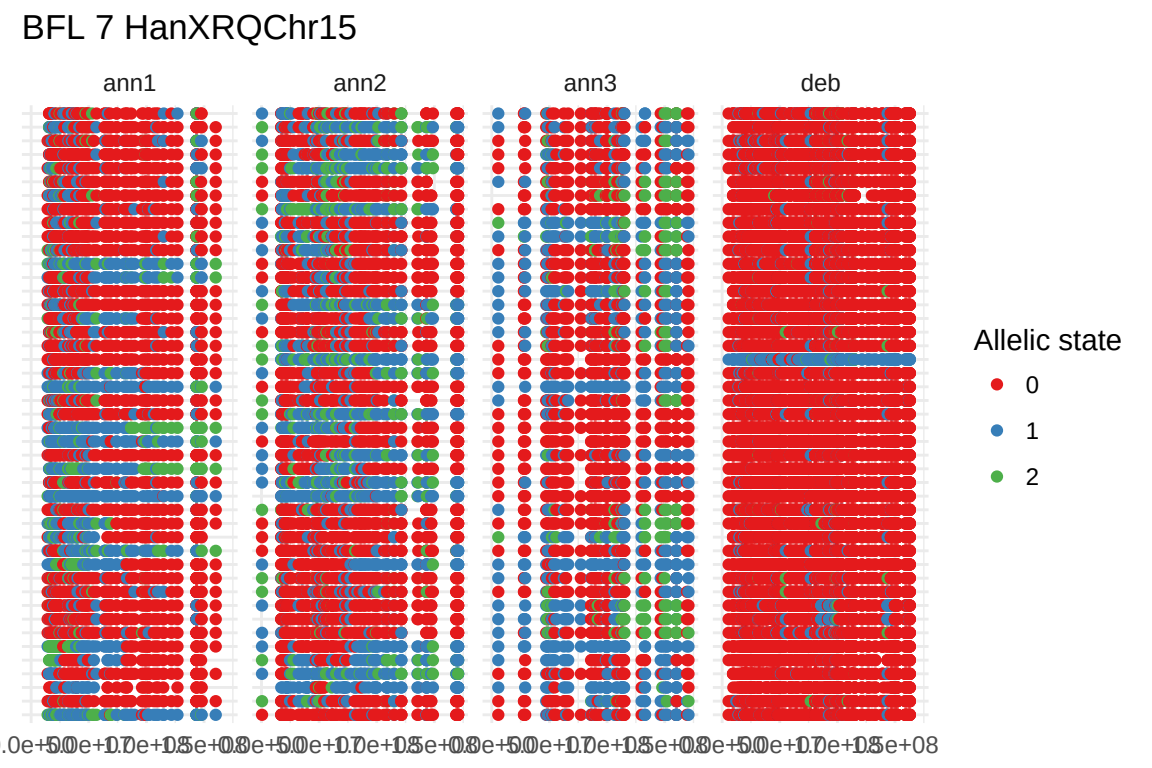
BFL 7 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
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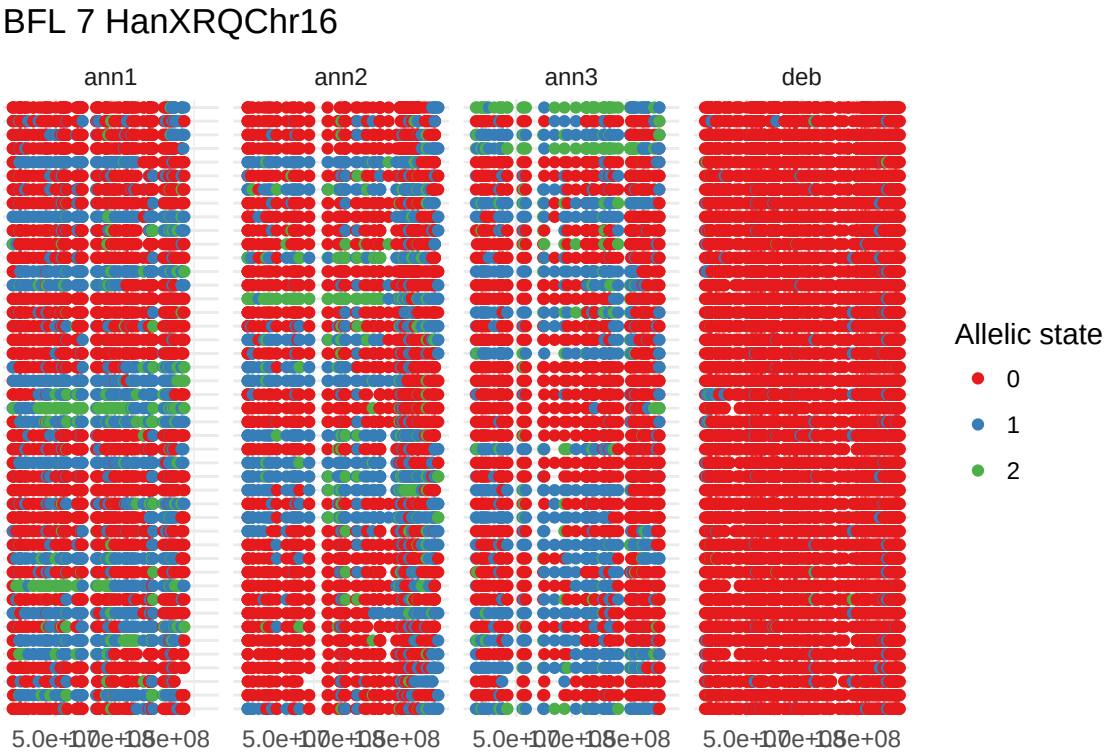
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+08


BFL 7 HanXRQChr16
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ann3
deb
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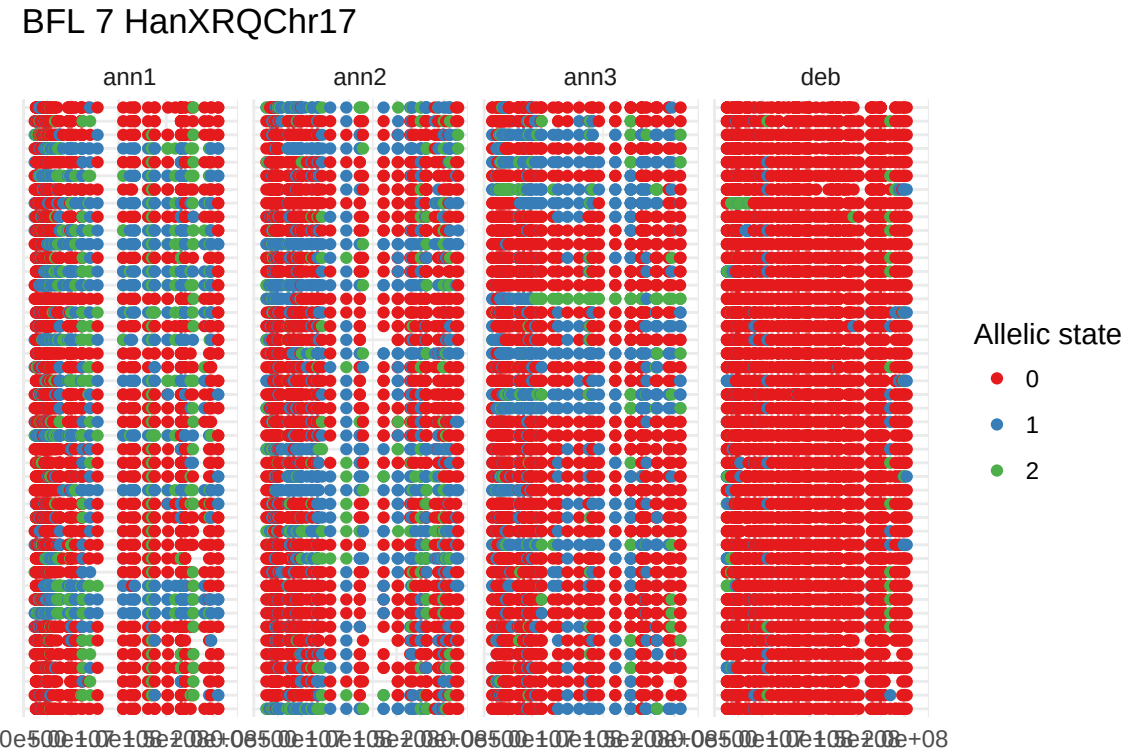
1.0e+08
1.5e+08
Allelic state
0
1
2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ann2
ann3
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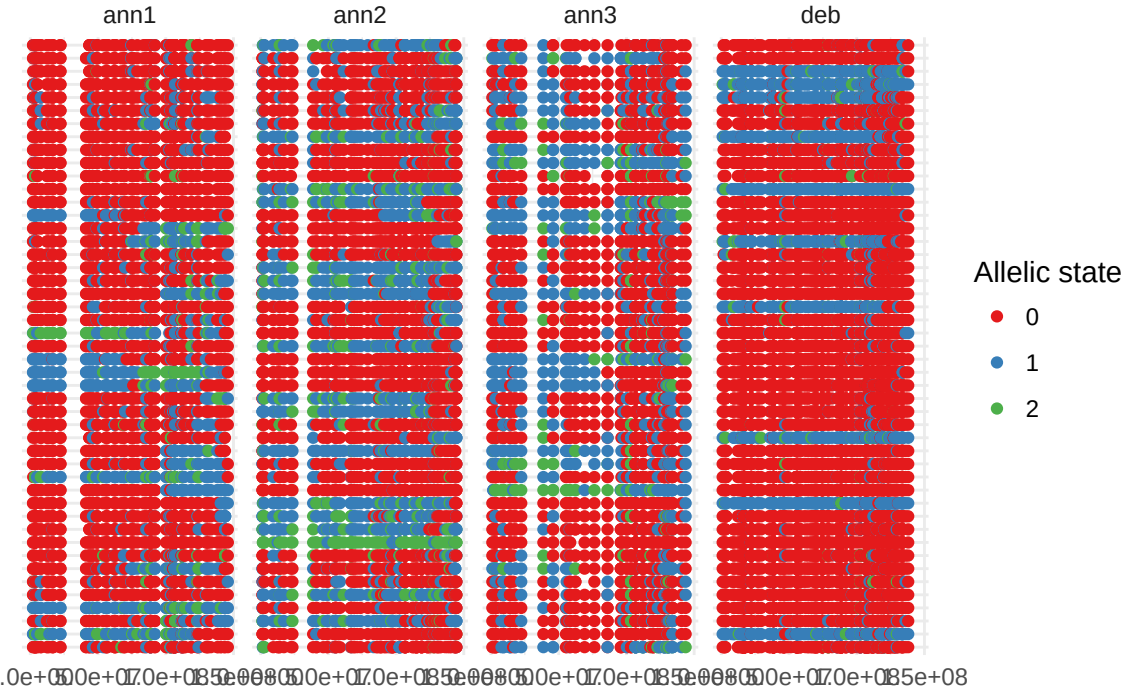
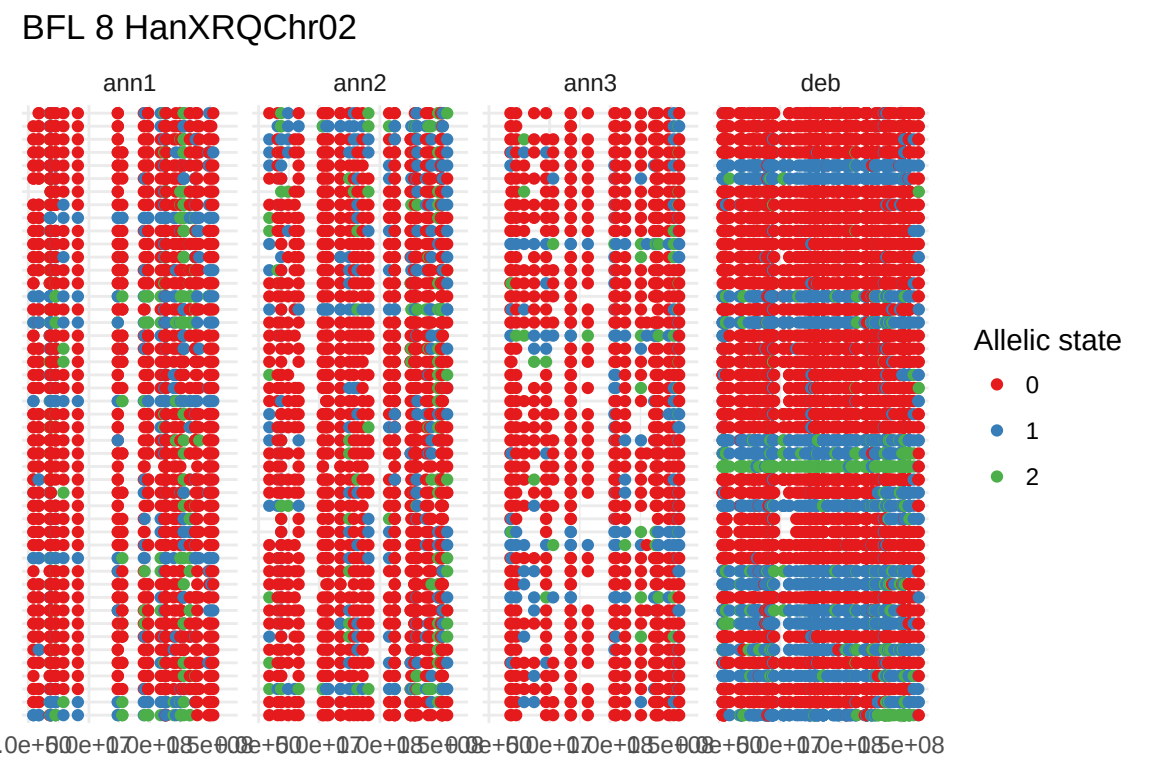
BFL 8 HanXRQChr01

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ann3
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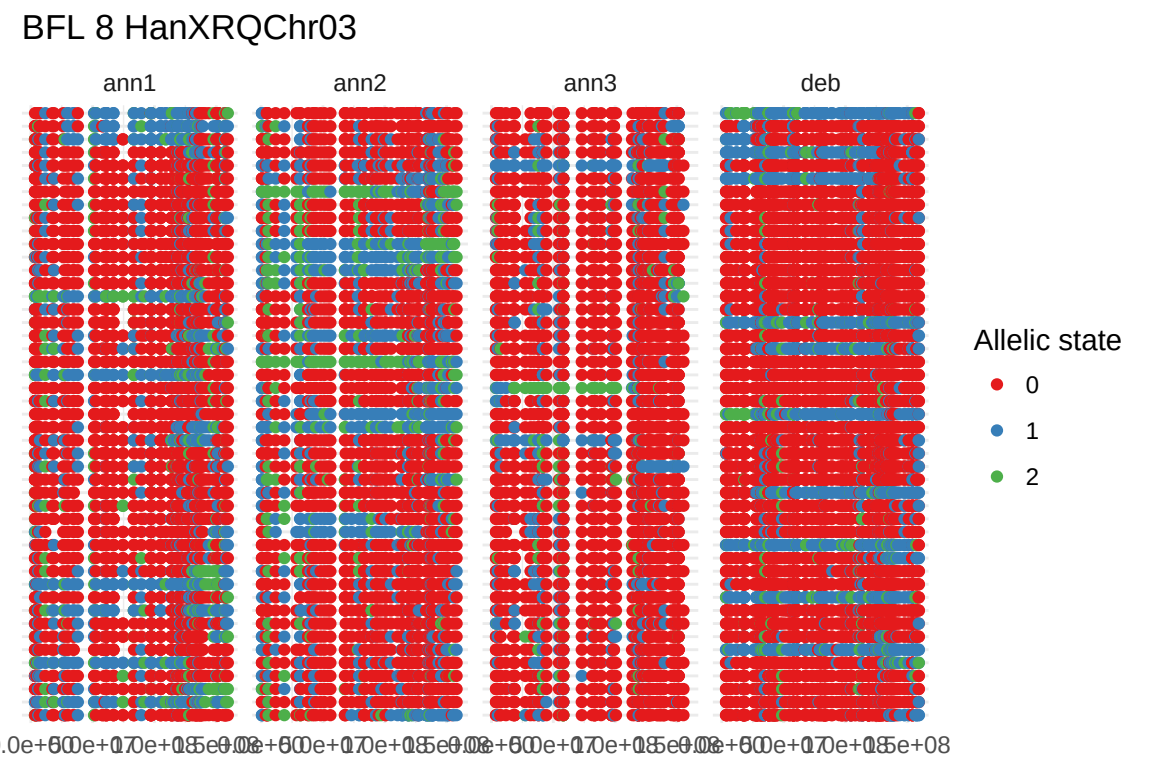
1
2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ann1
ann2
ann3
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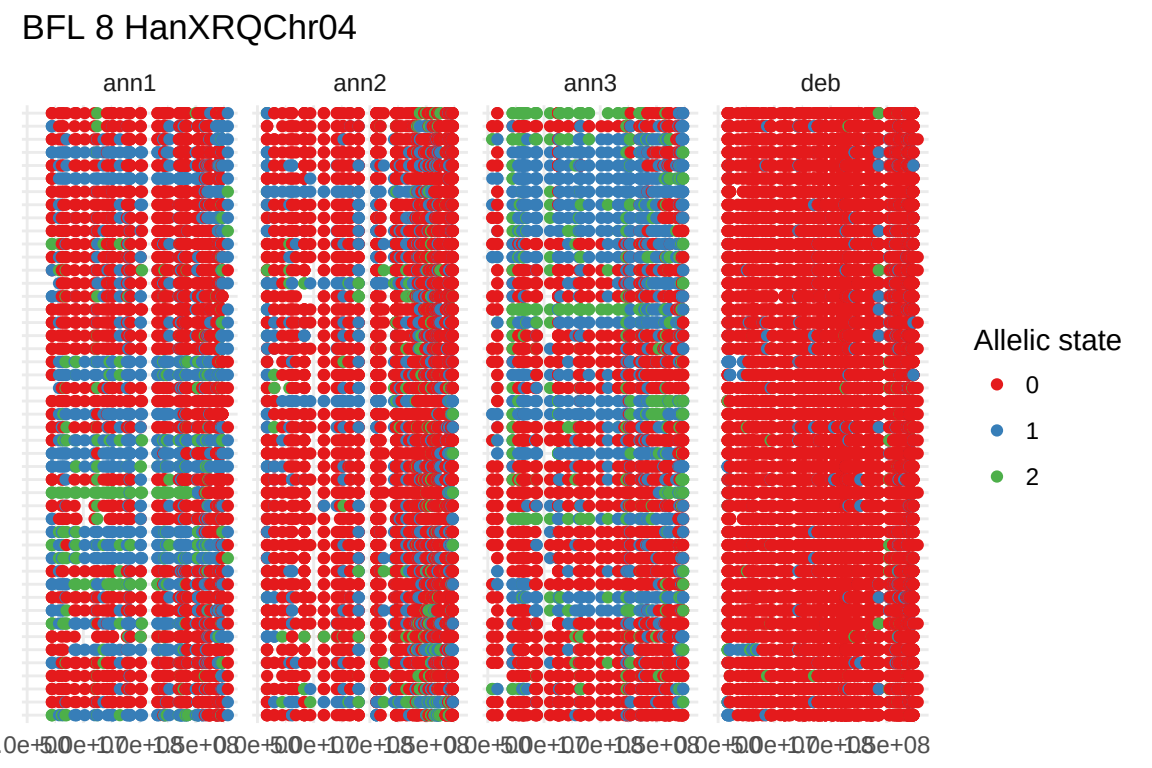
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ann3
deb
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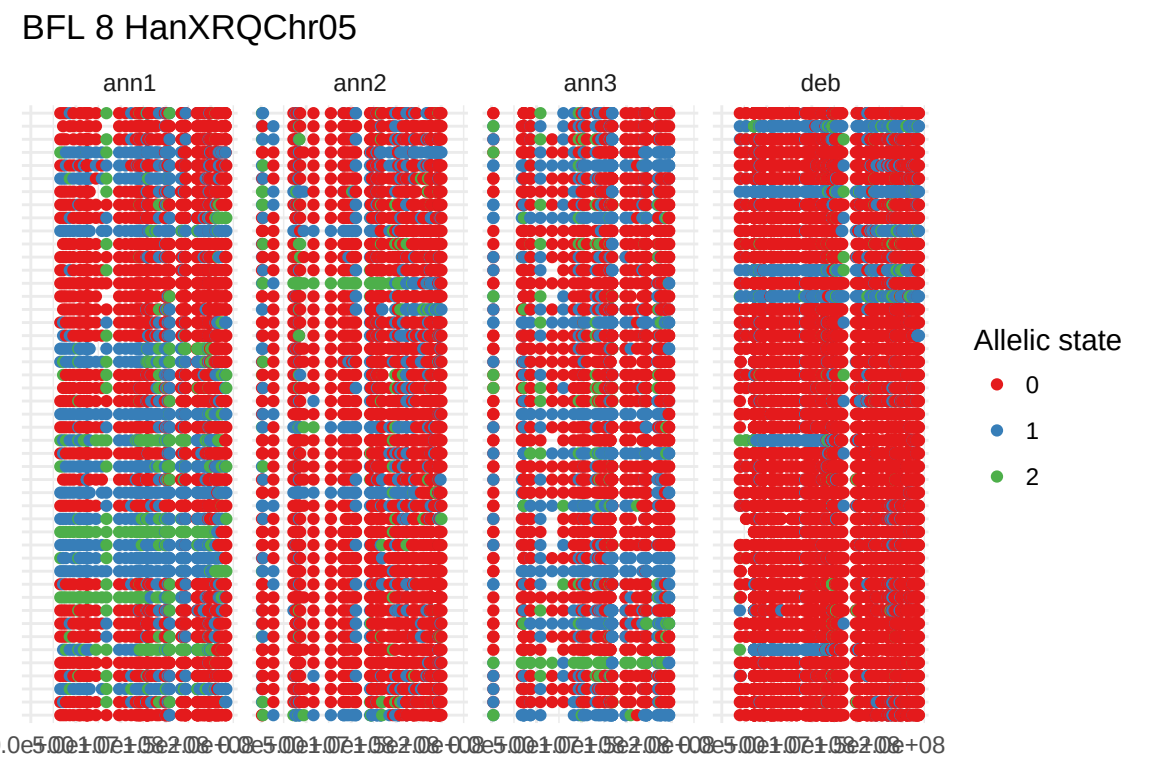
1
2


BFL 8 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
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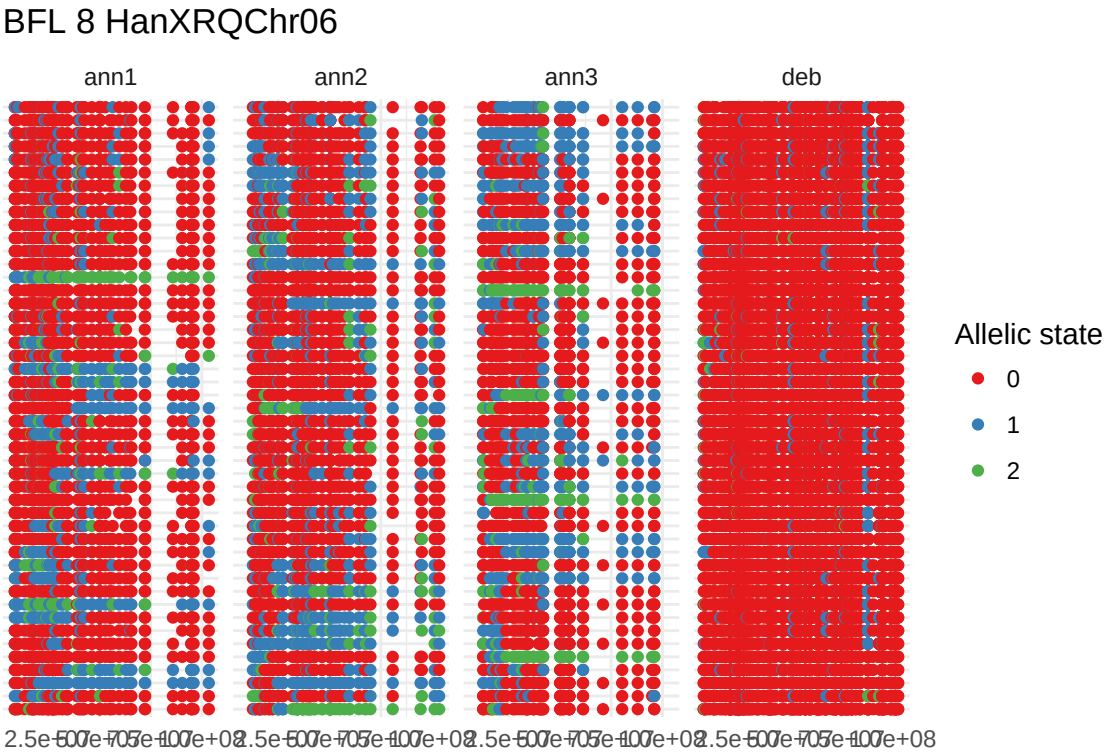
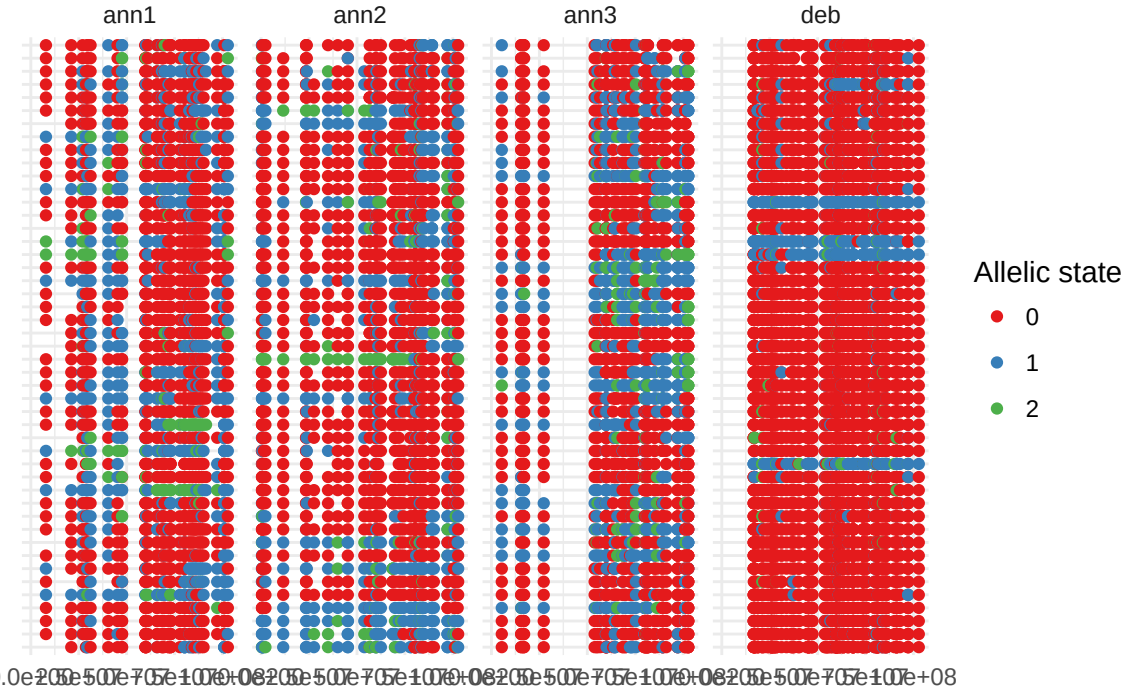
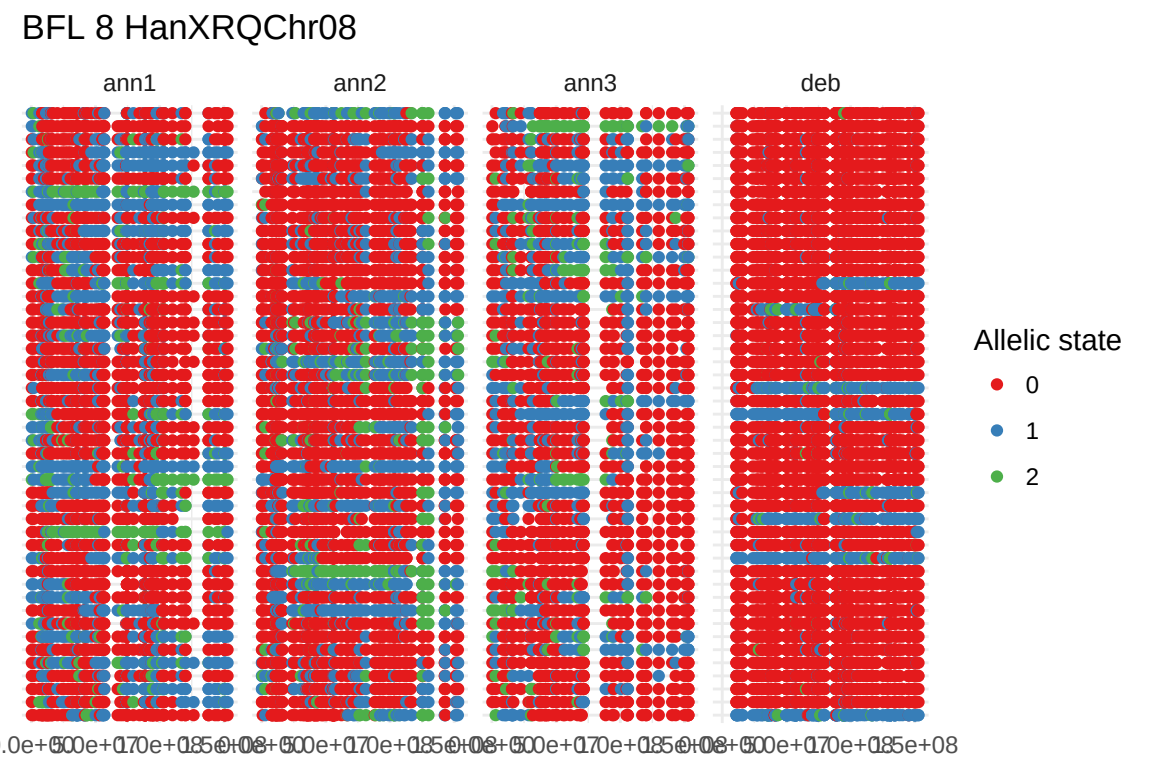
1
2


BFL 8 HanXRQChr06
ann1
ann2
ann3
deb
2.5e+07
5e+07
7.5e+07
1e+08
Allelic state
0
1
2

BFL 8 HanXRQChr07




BFL 8 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
0
1
2
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5.0e+0
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8.5e+0
8.0e+0
5.0e+0
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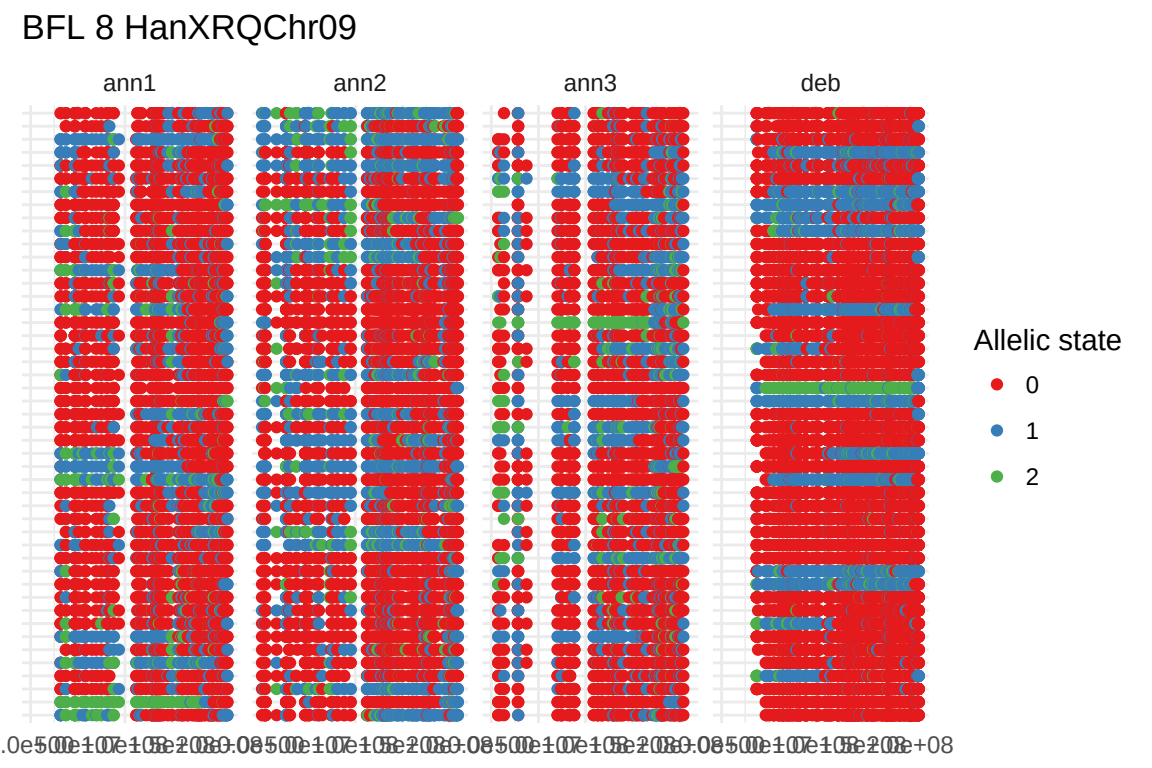
5.0e+0
7.0e+0
8.5e+08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ann1
ann2
ann3
deb
Allelic state
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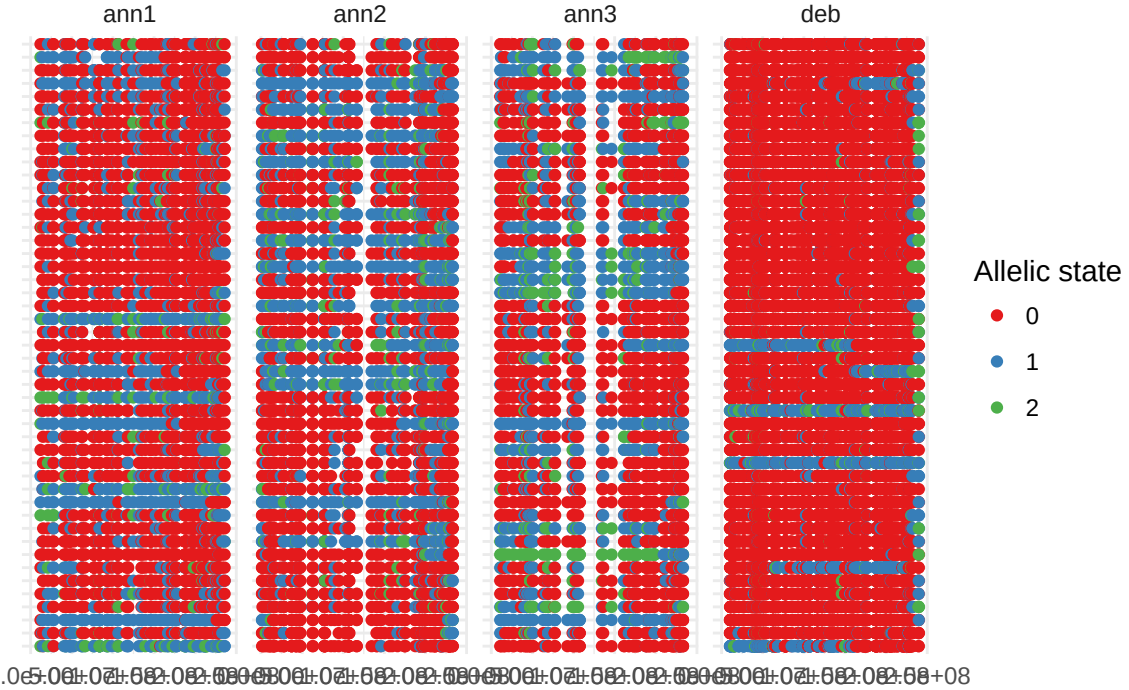
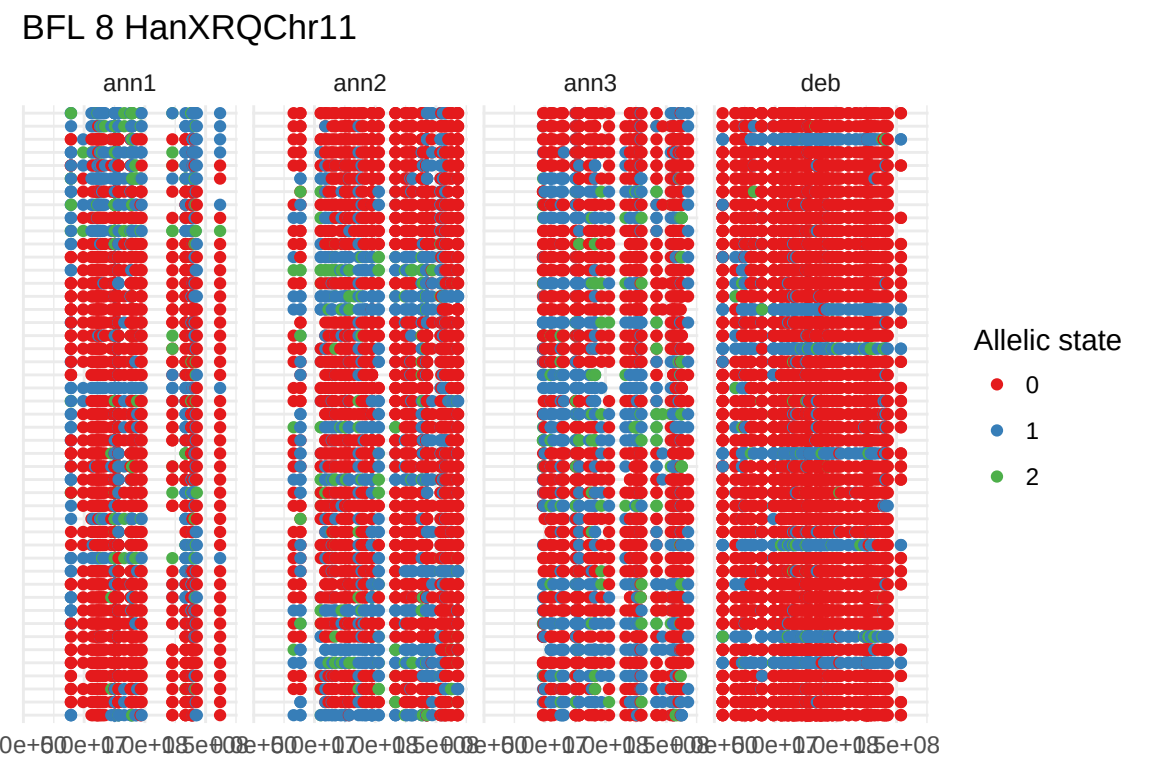
1
2

BFL 8 HanXRQChr10

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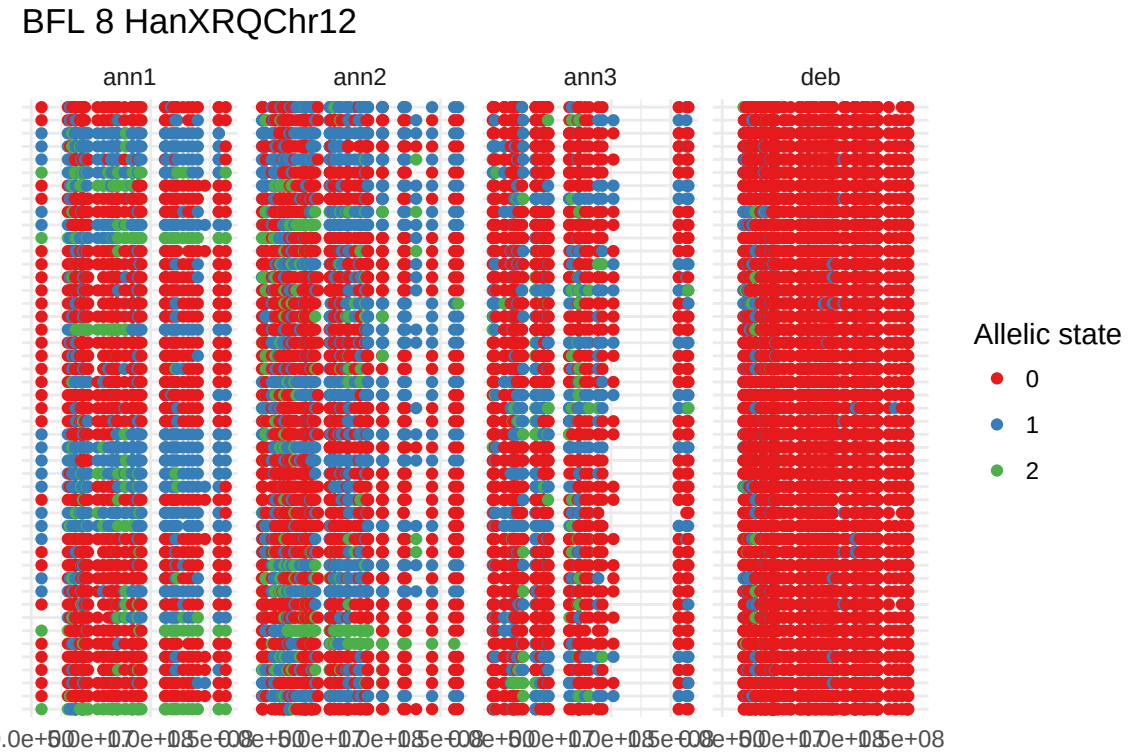
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Allelic state
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7.0e+07
1.5e+08
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7.0e+07
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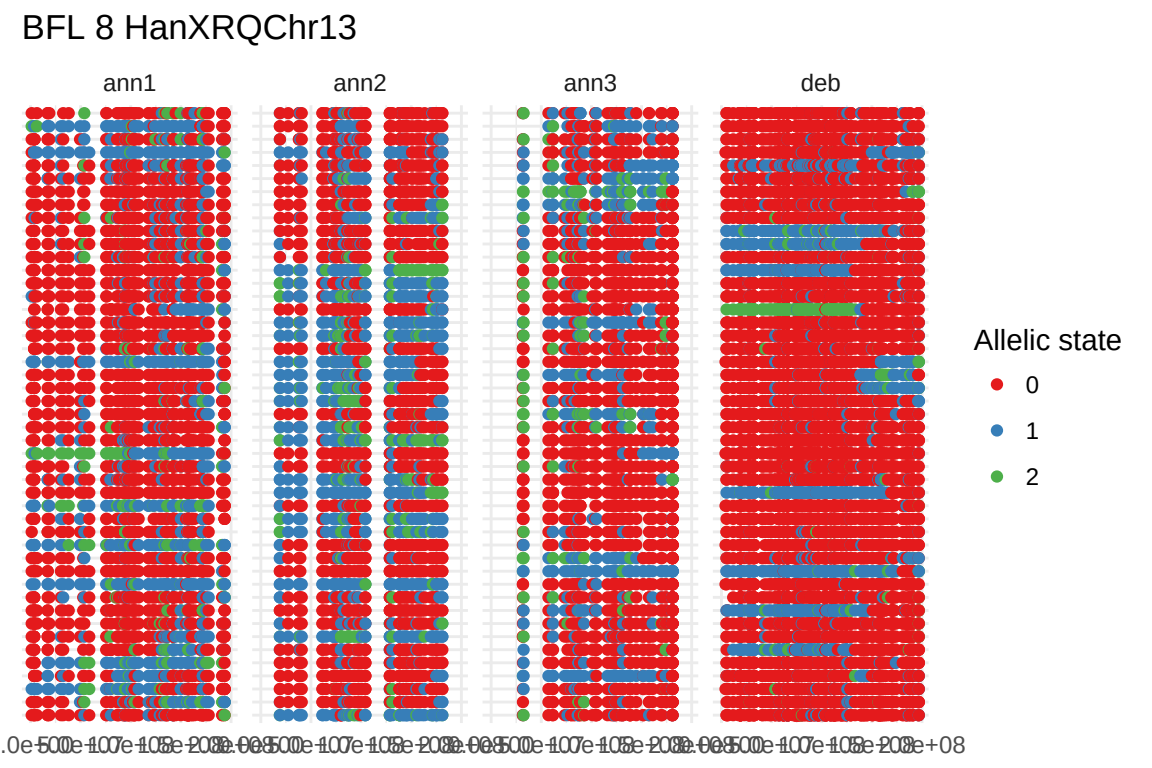
1.5e+08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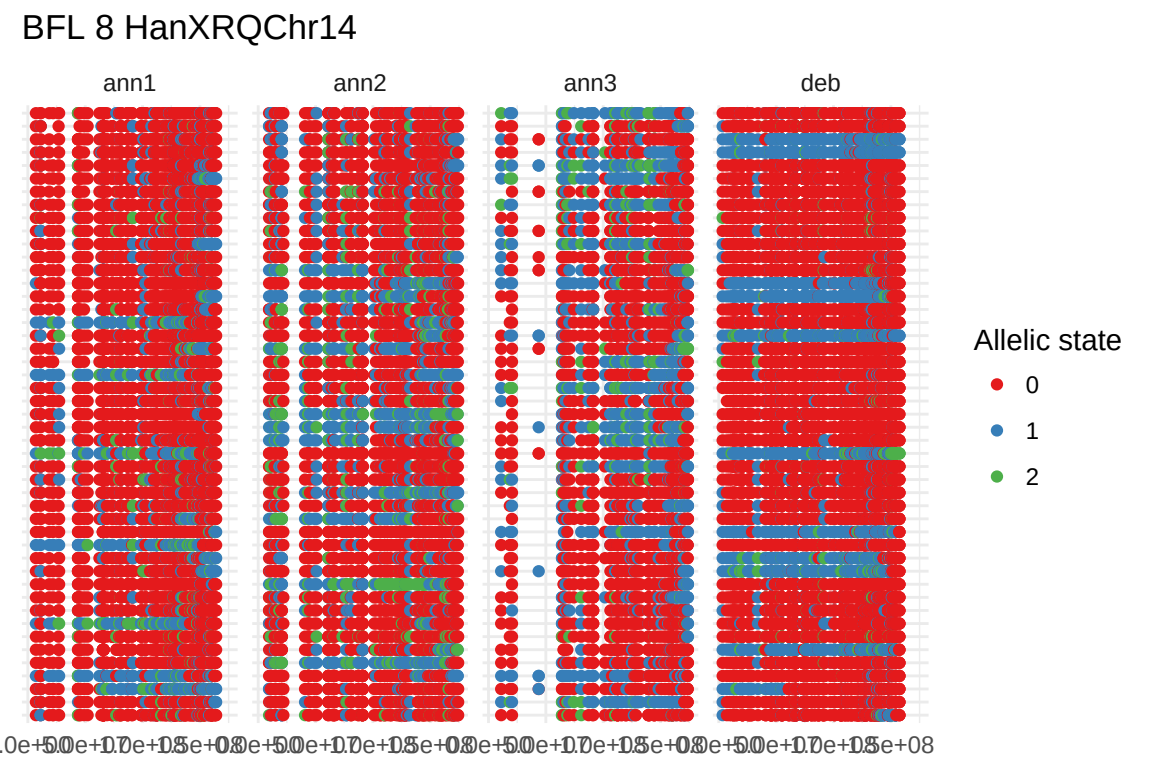
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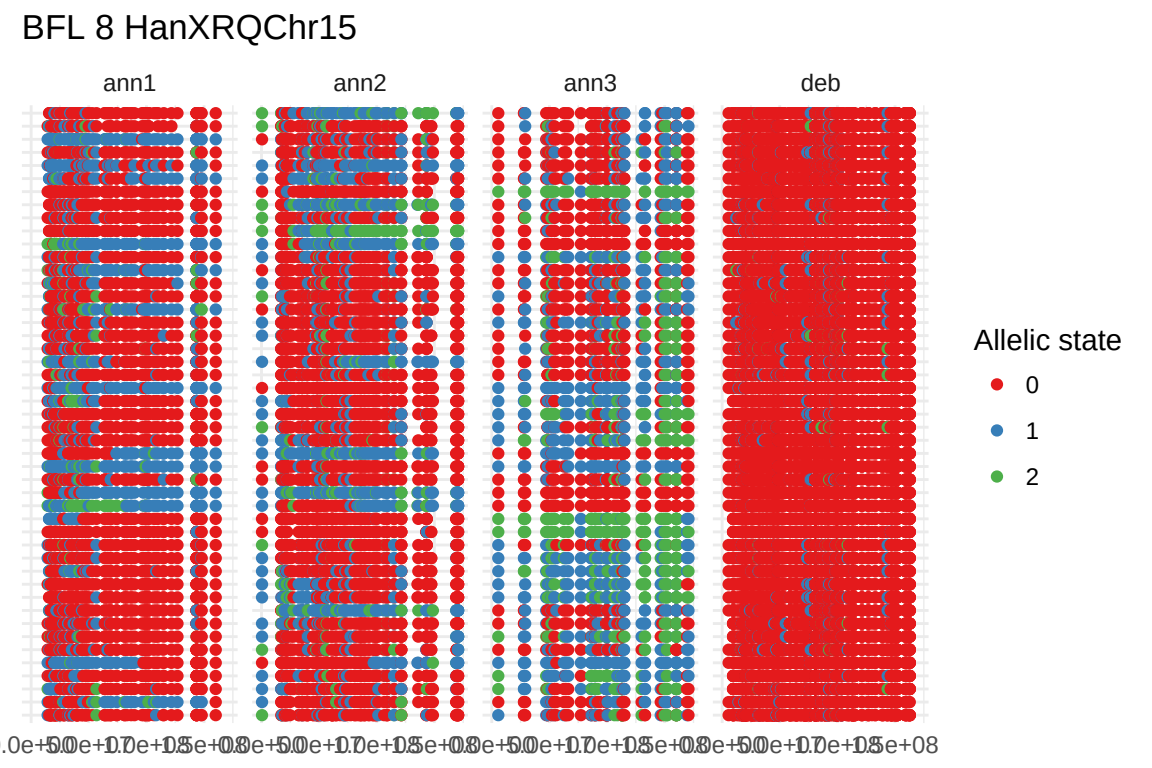
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Allelic state
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1
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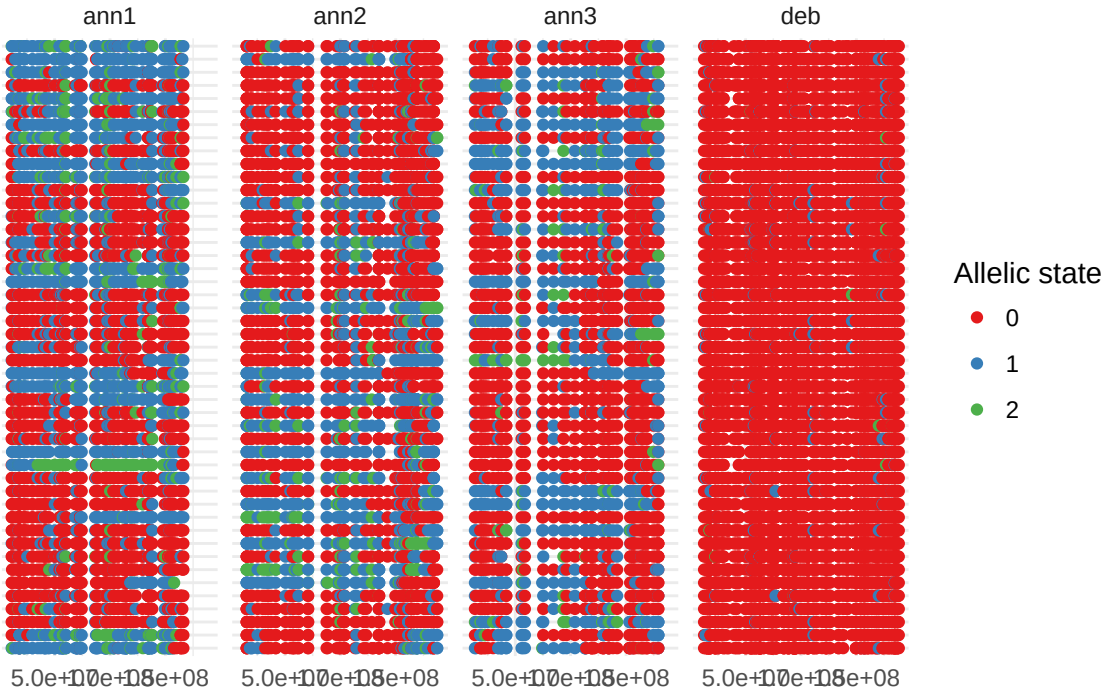
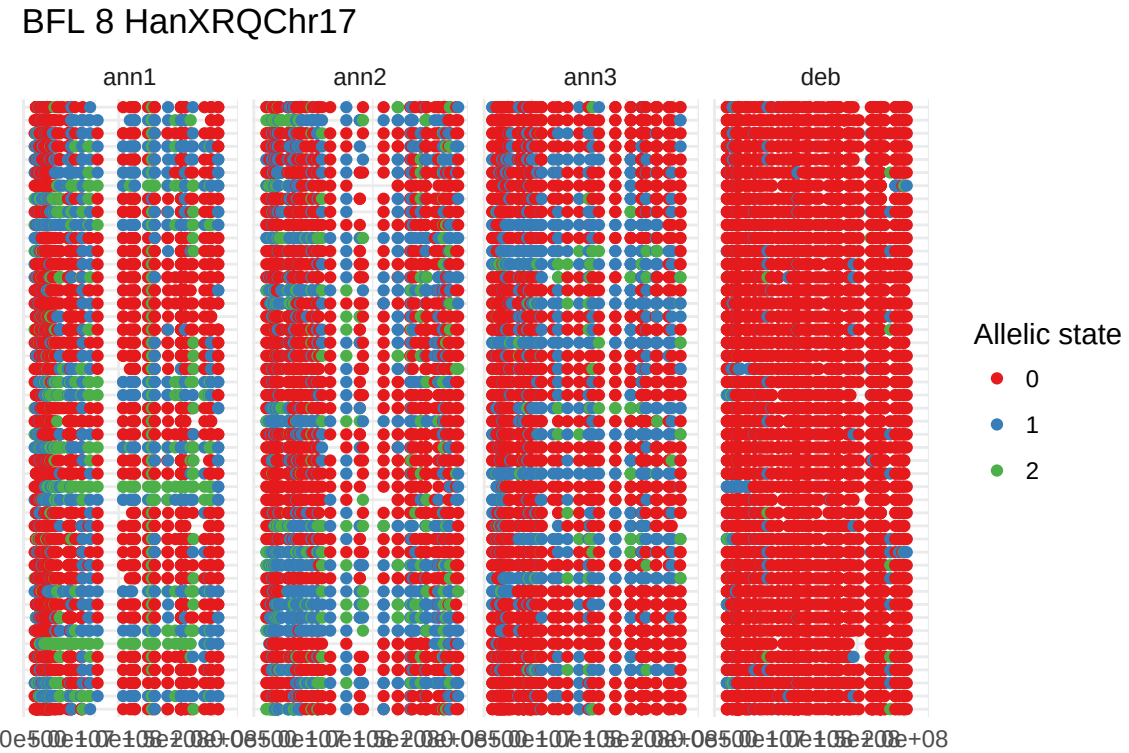
BFL 8 HanXRQChr16

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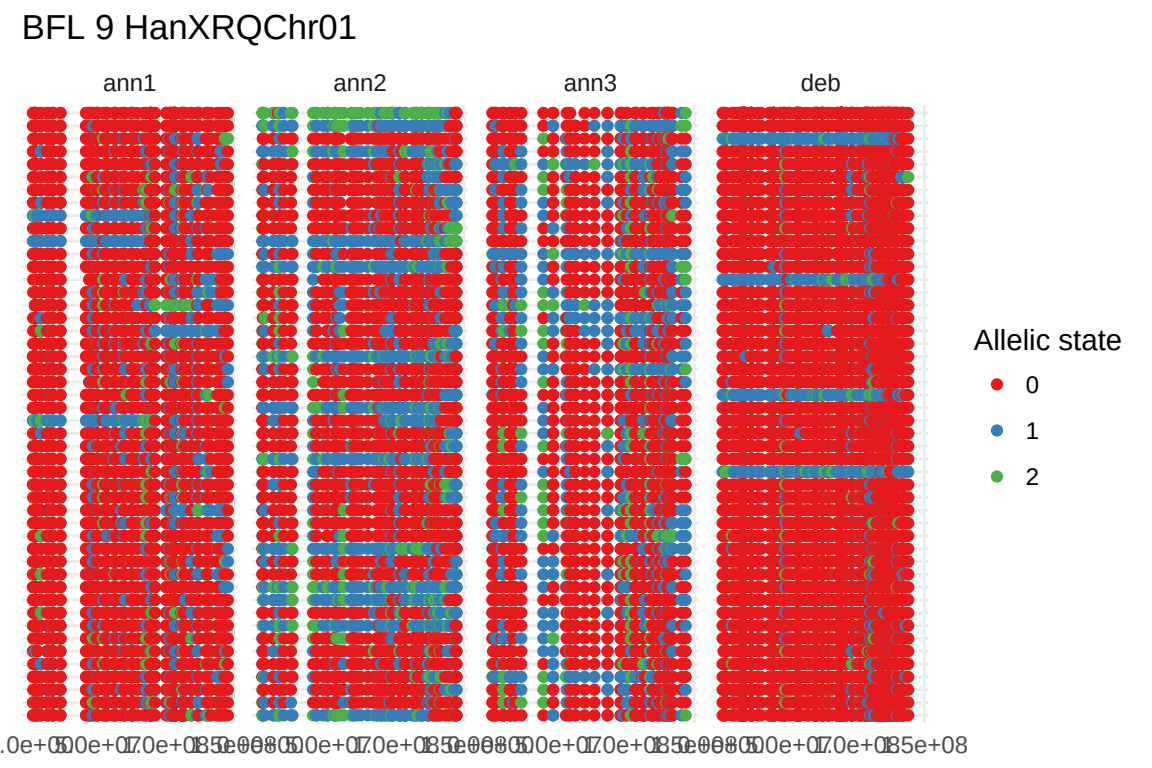
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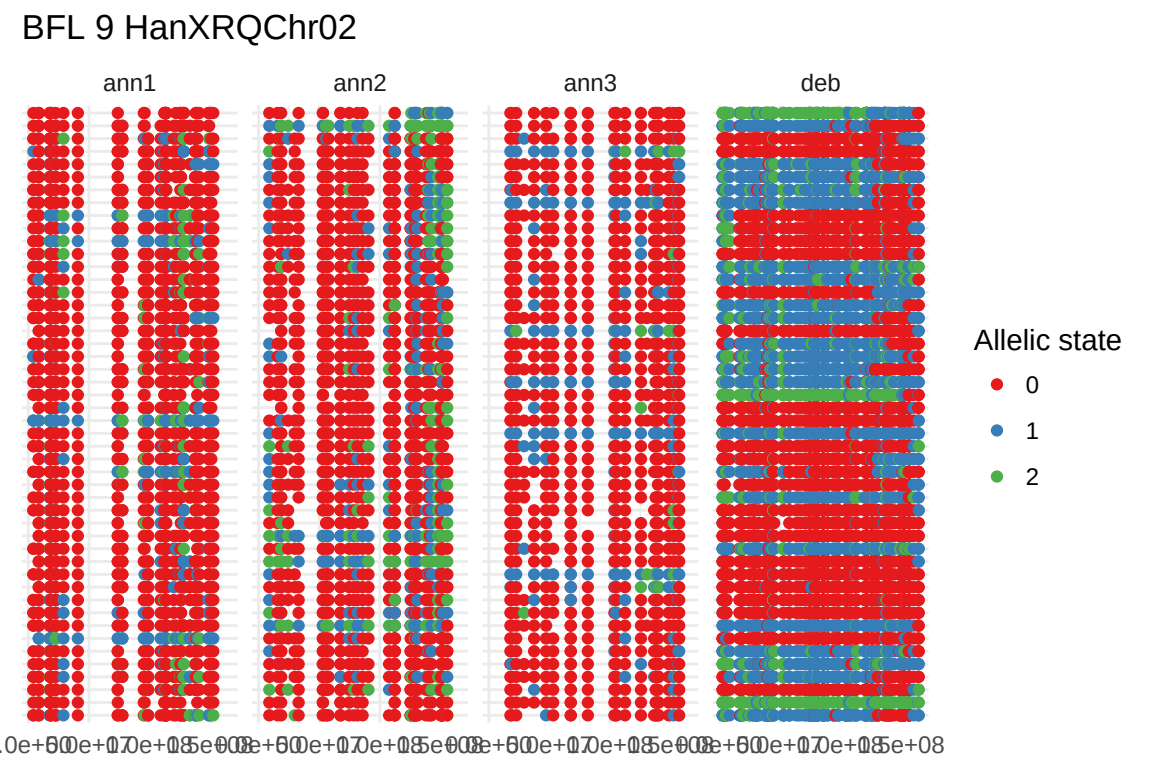
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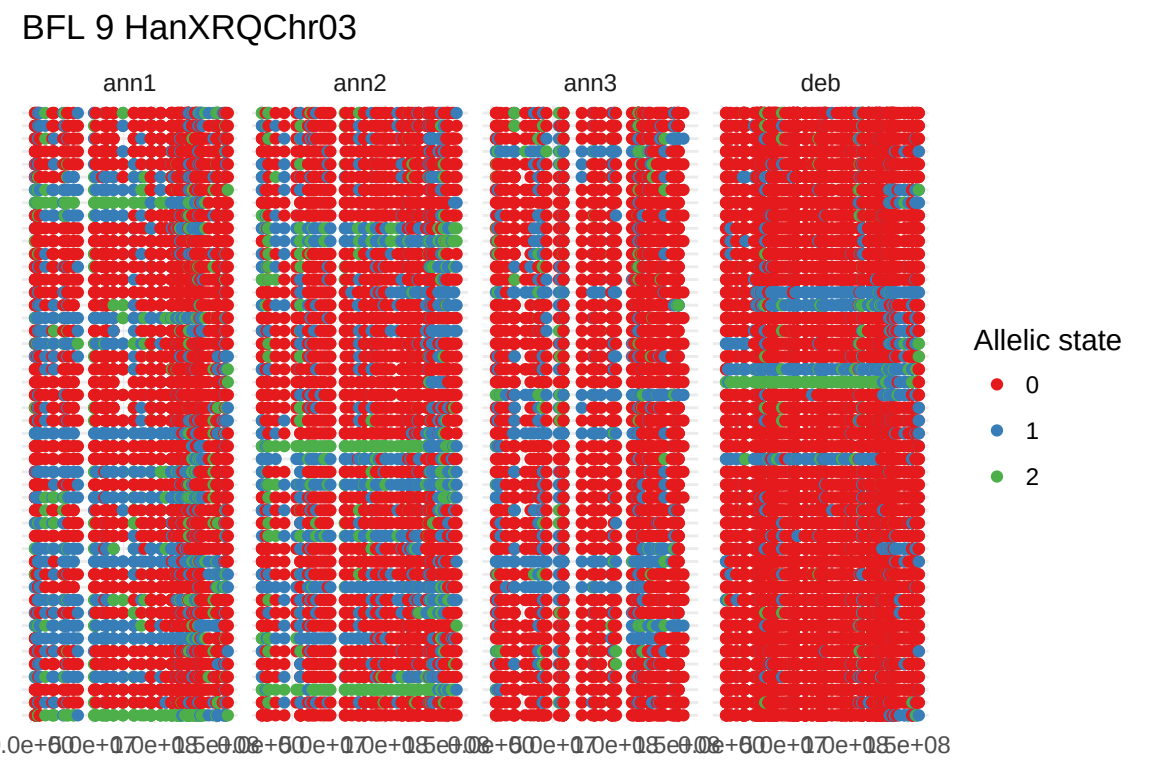
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Allelic state
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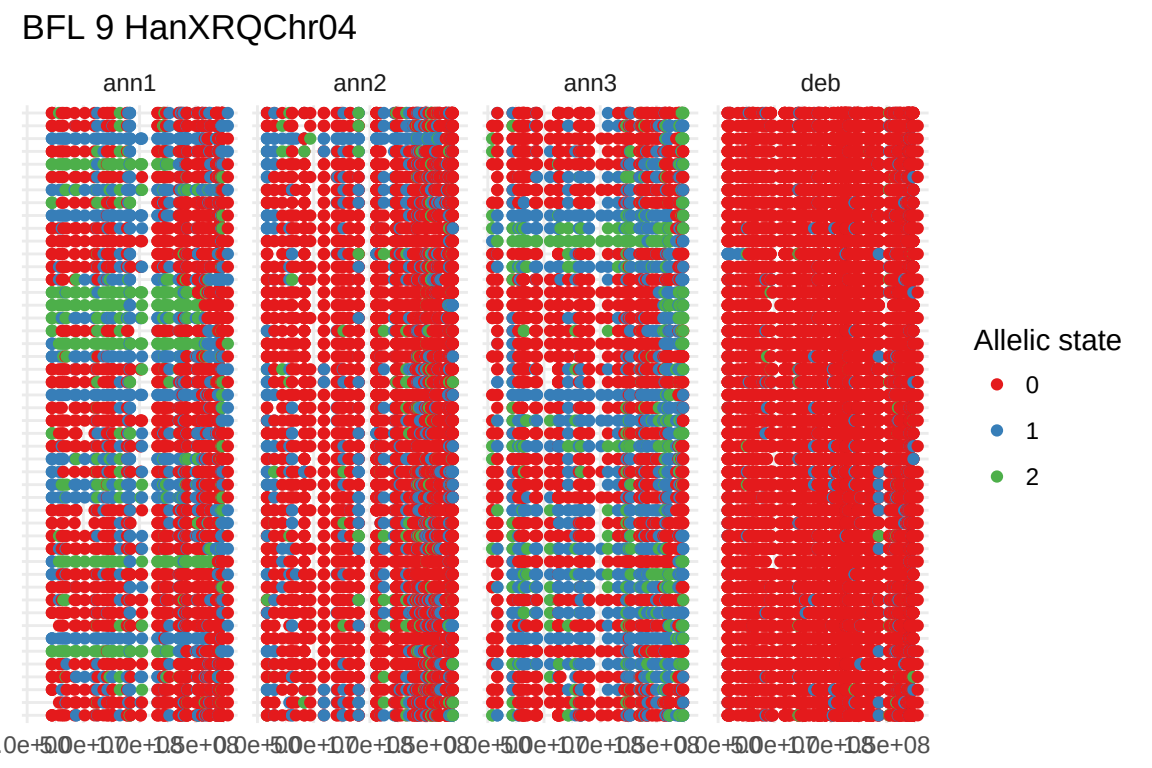
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1
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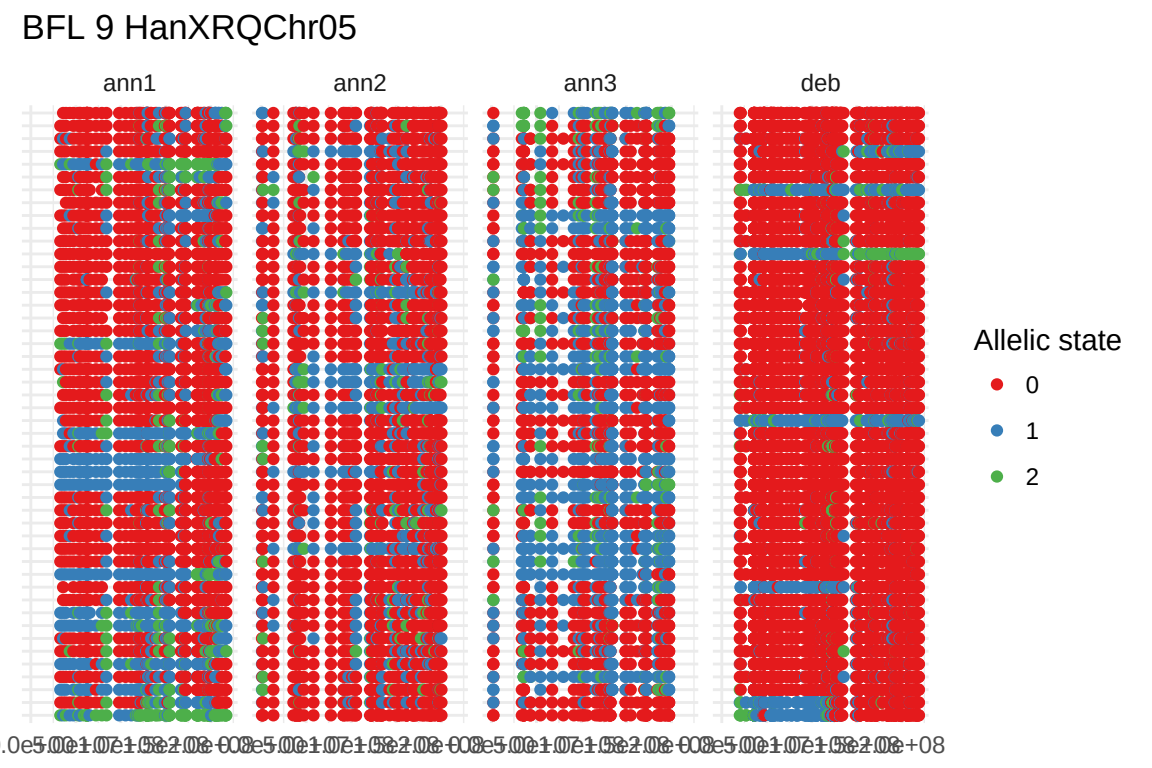
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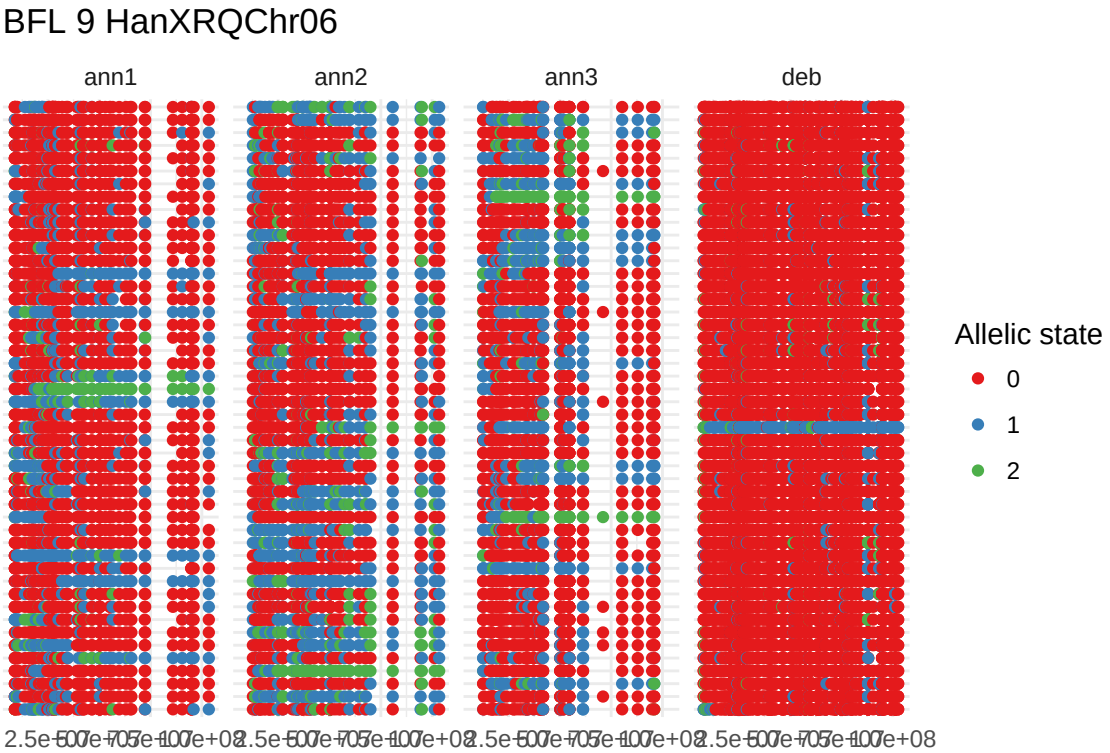
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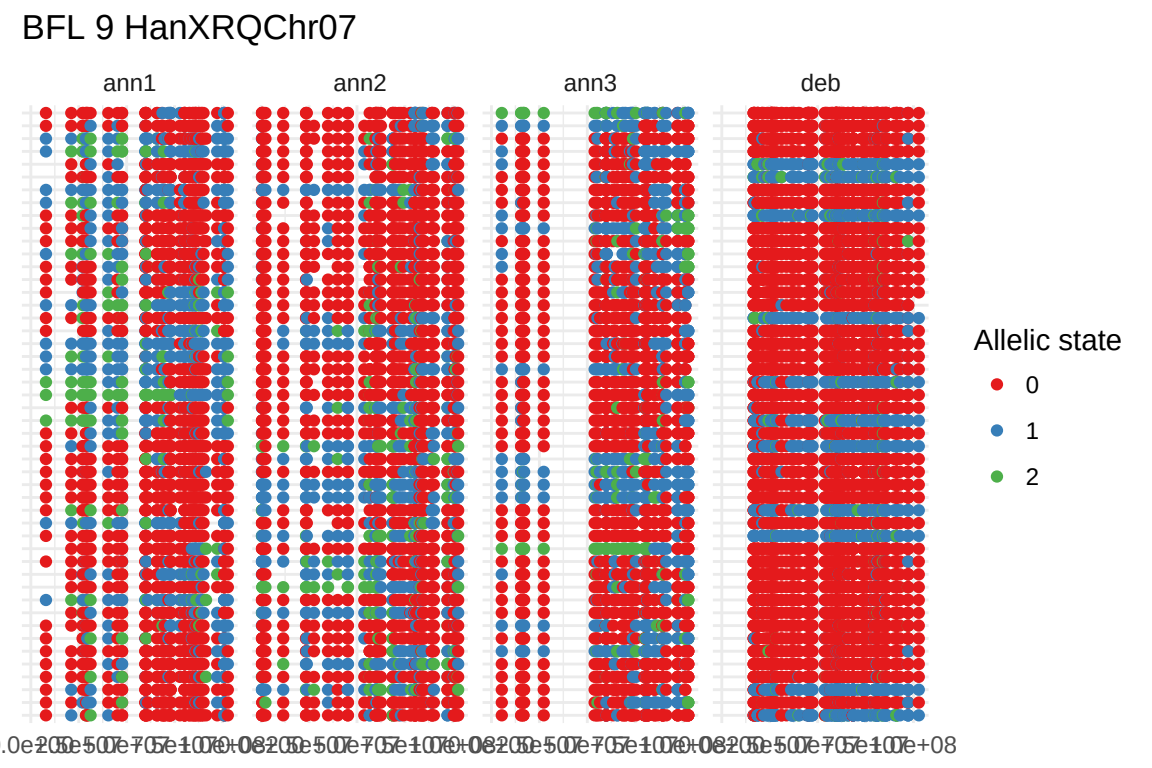
7.5e-07
1.0e+08
Allelic state
0
1
2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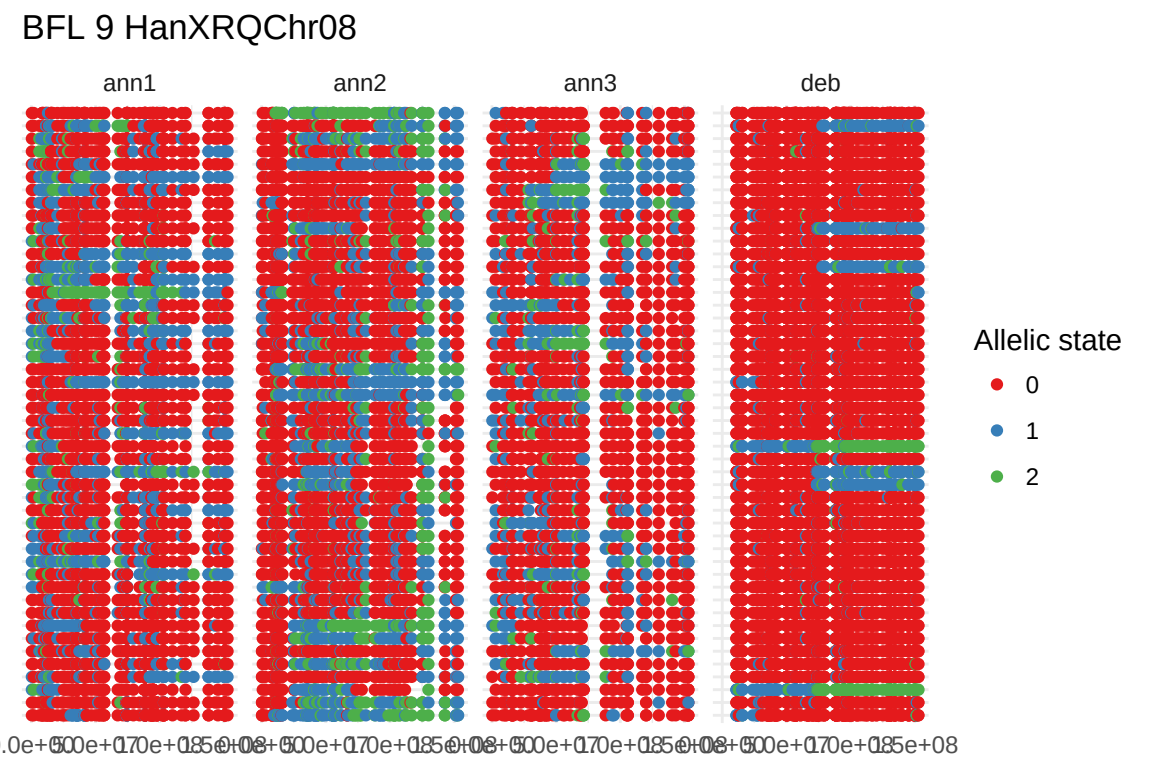
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deb
Allelic state
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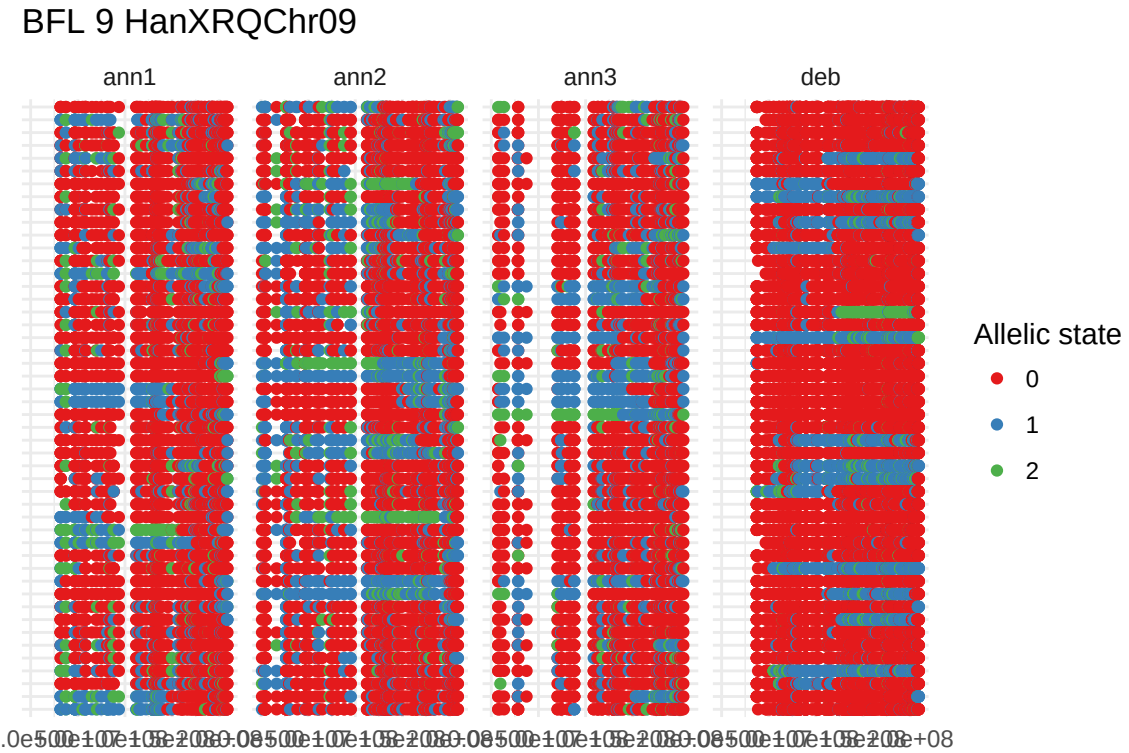
1
2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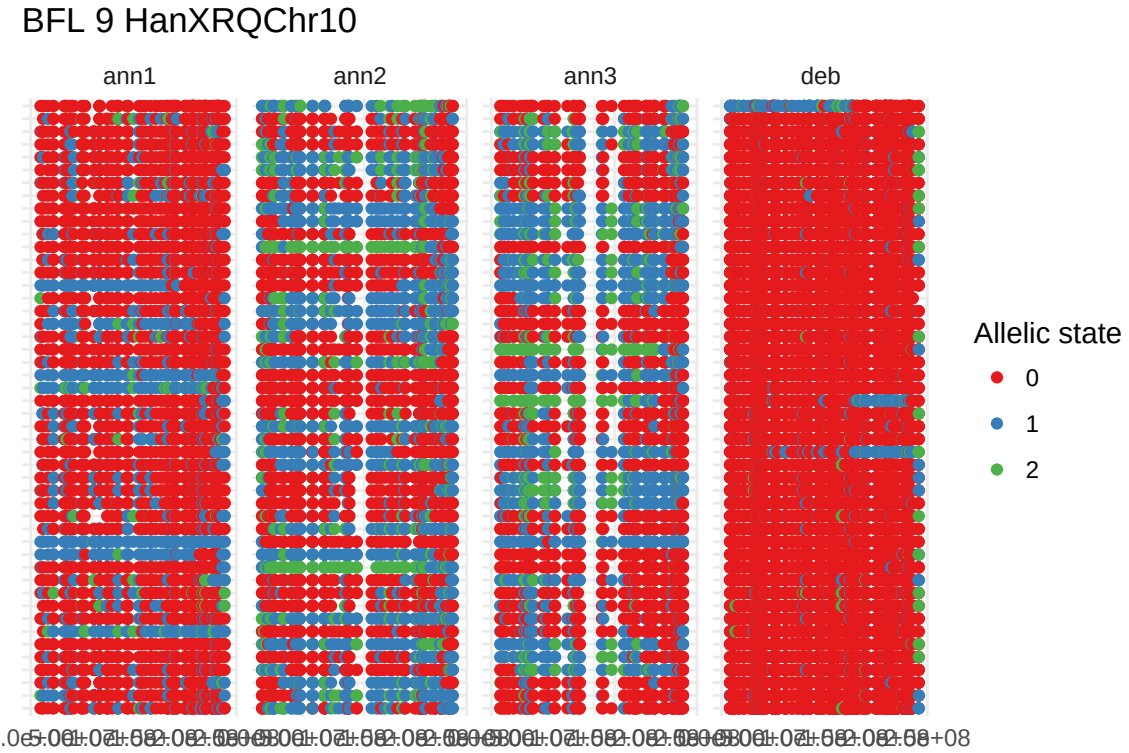
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deb
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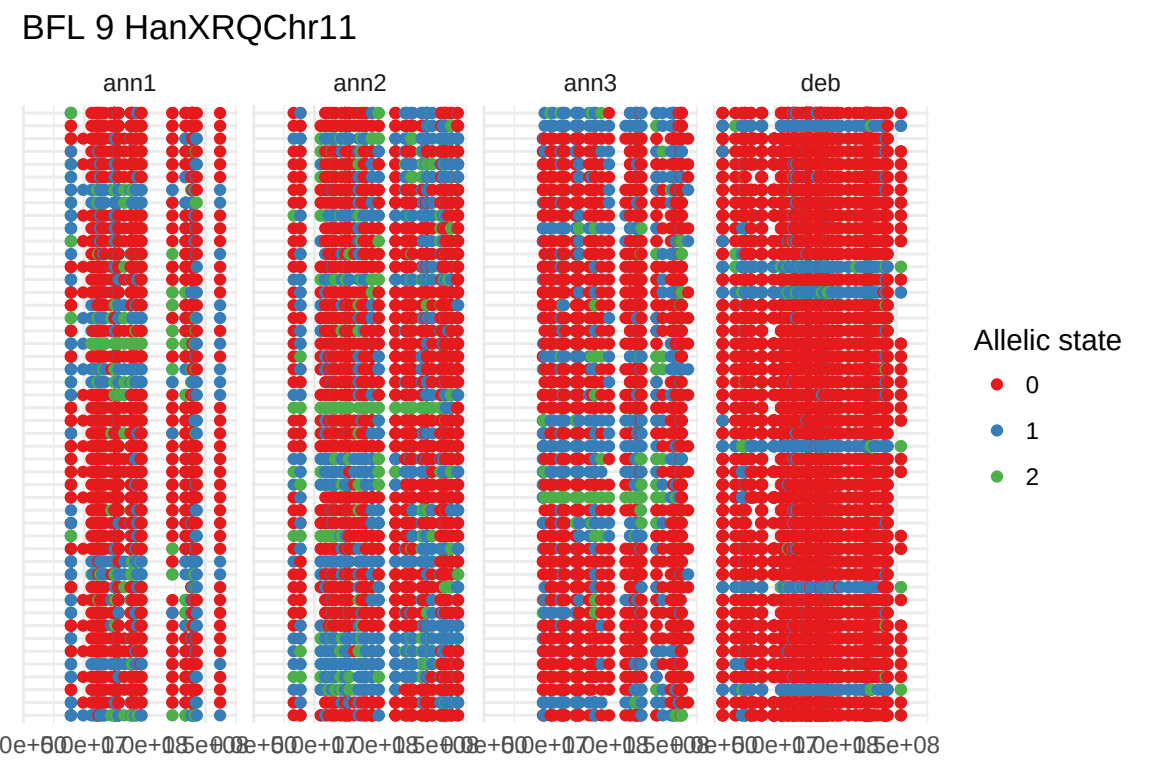
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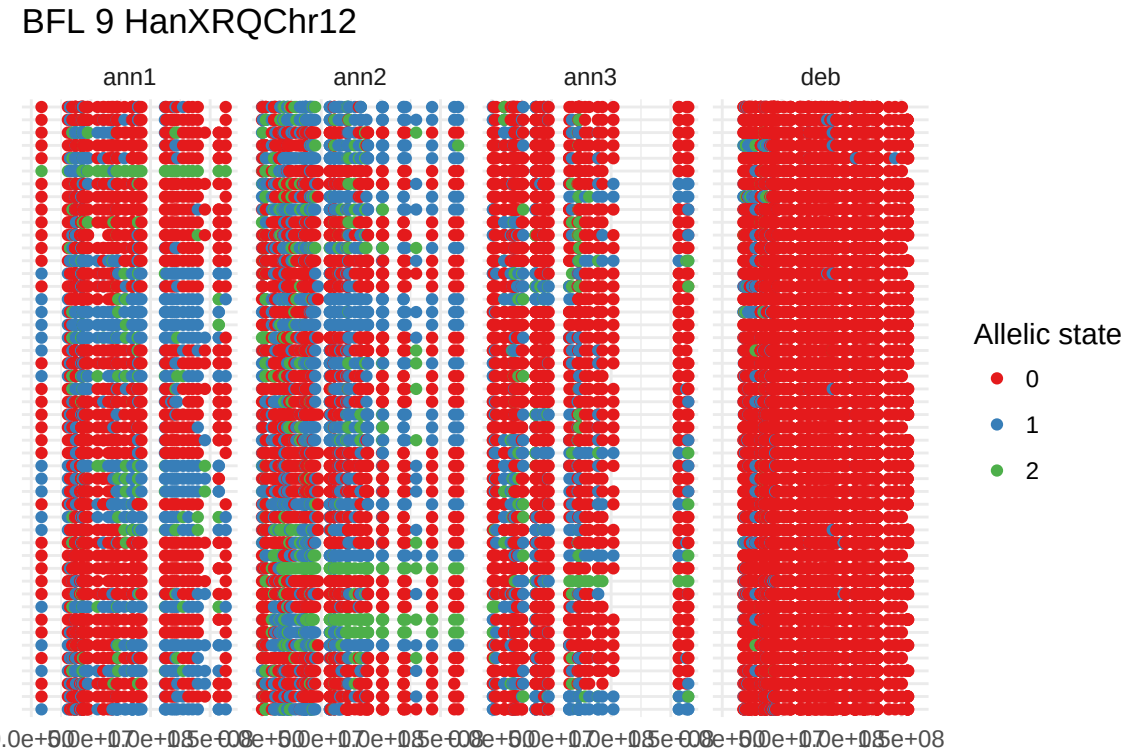
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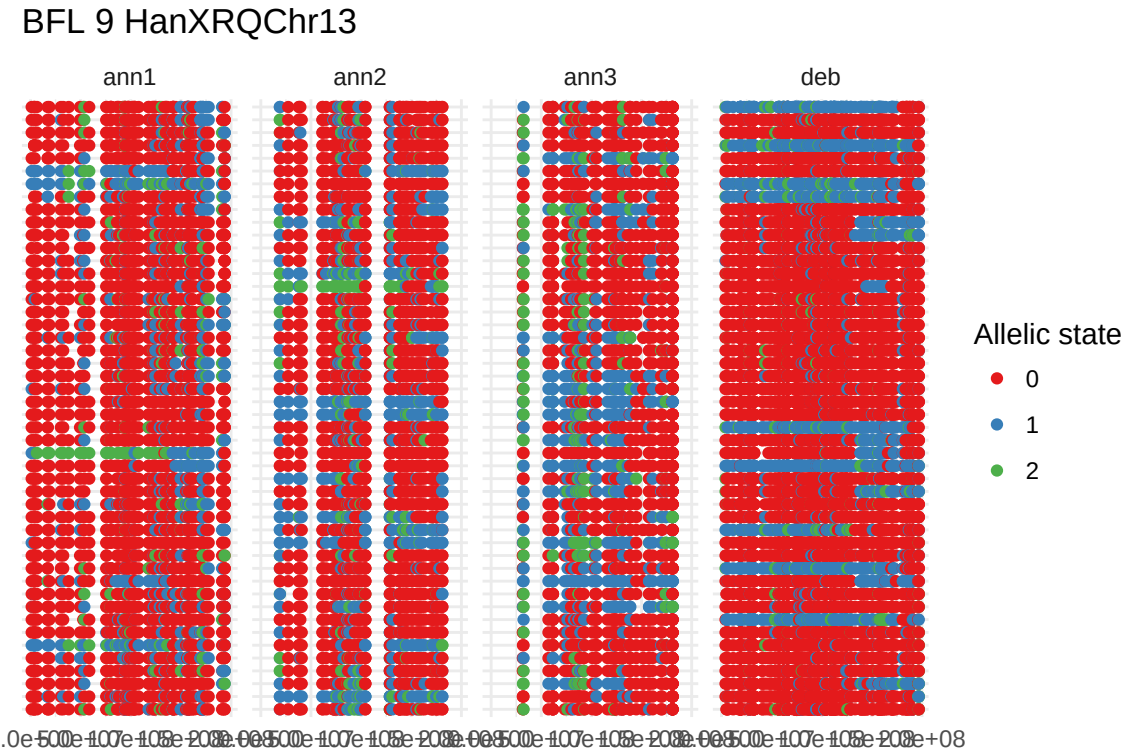
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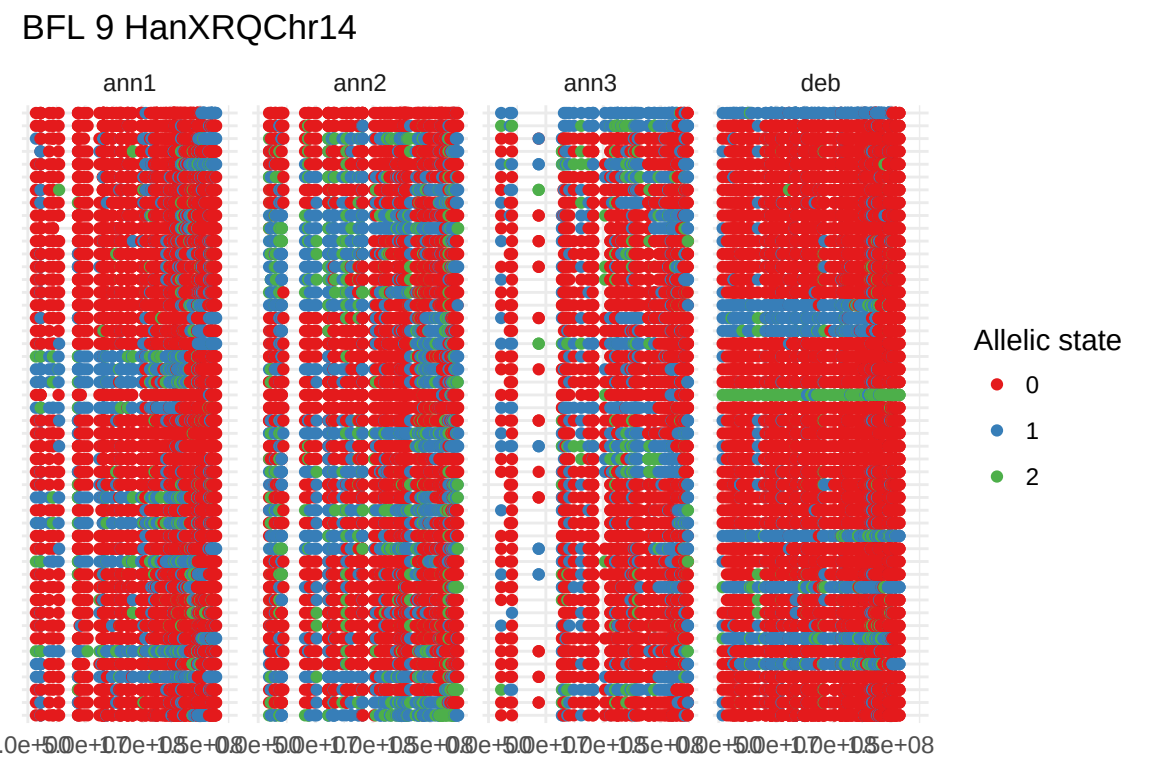
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ann3
deb
Allelic state
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1
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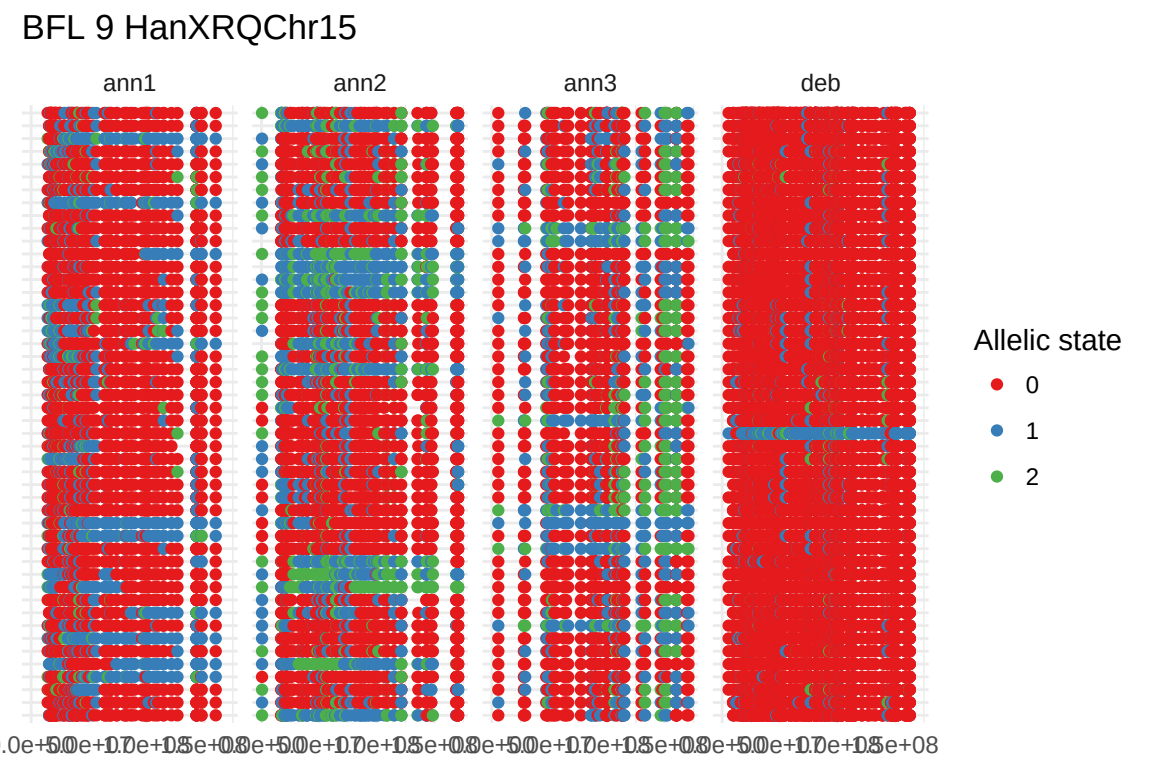
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ann3
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1
2
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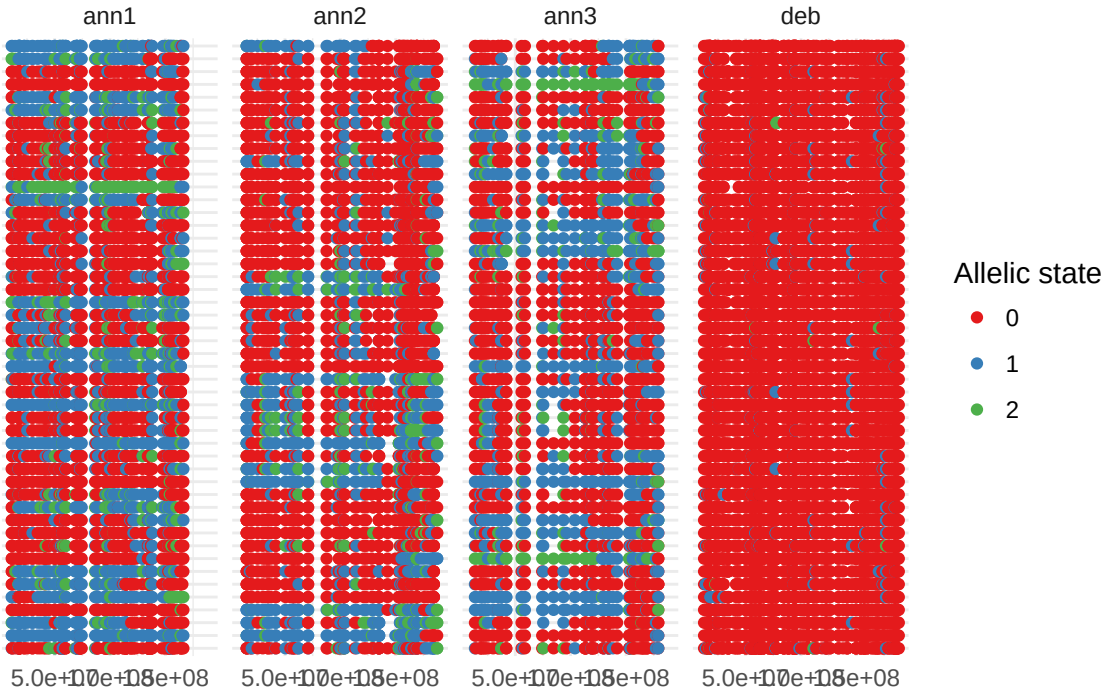
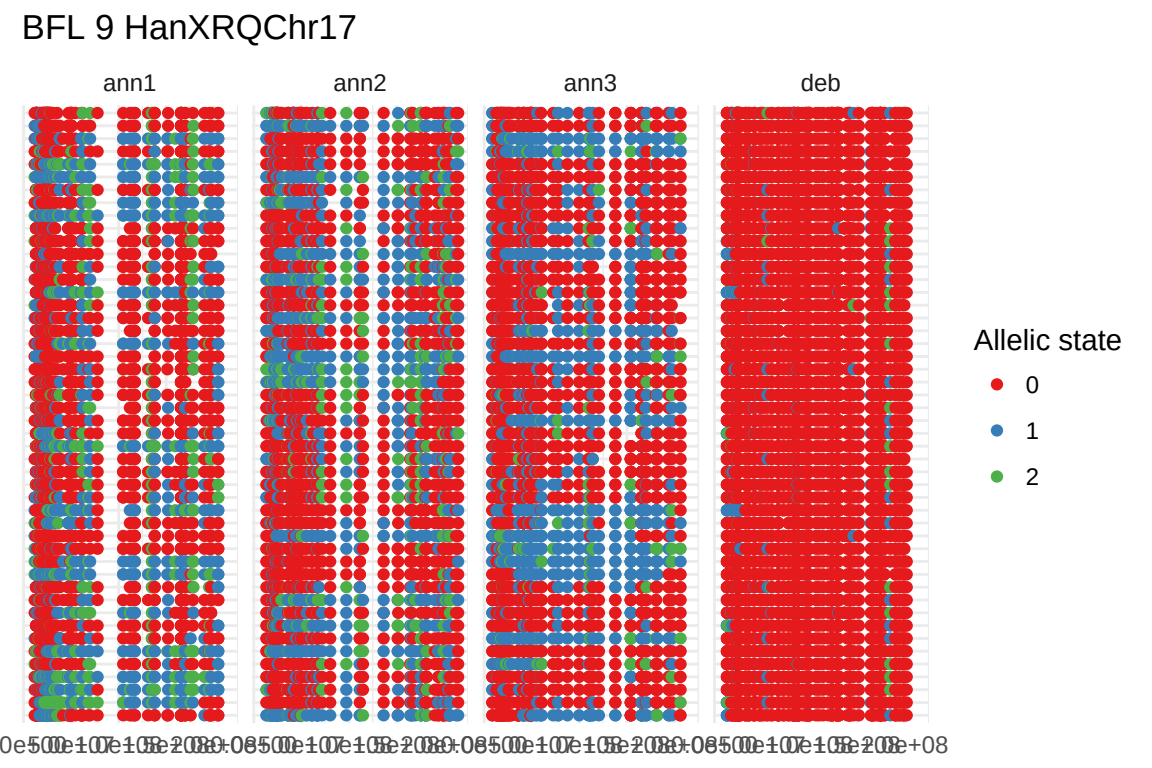
BFL 9 HanXRQChr16

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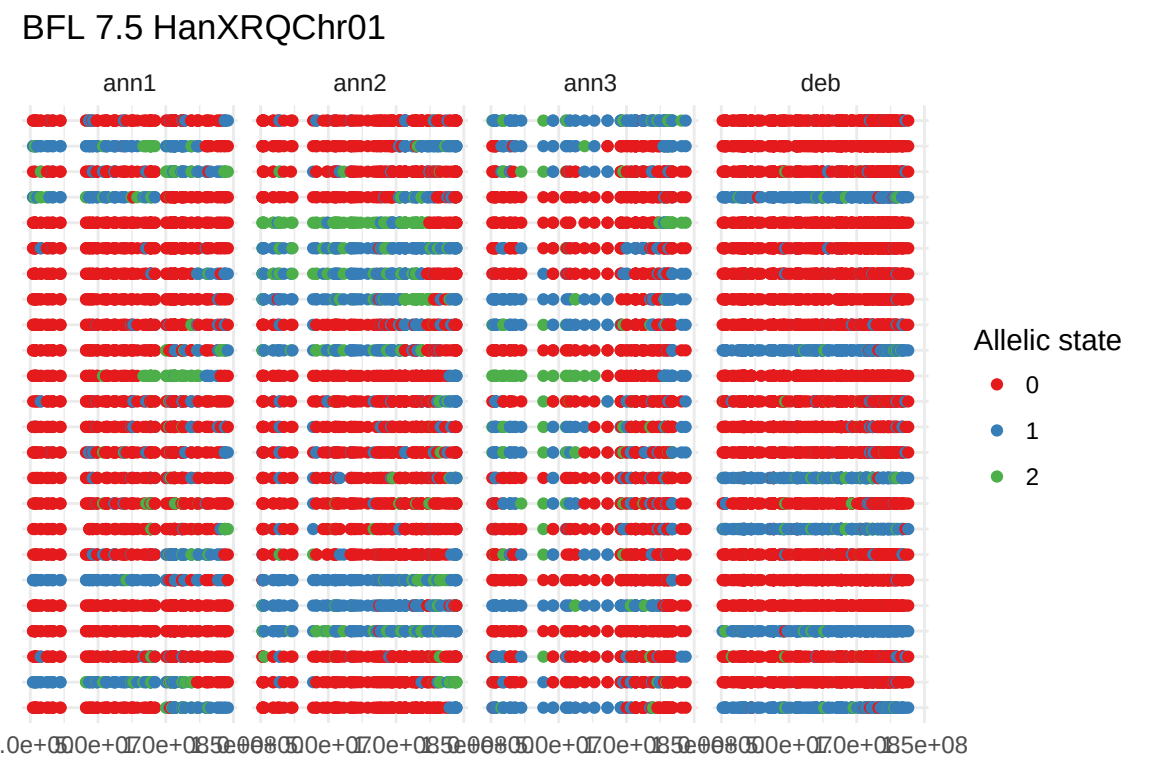
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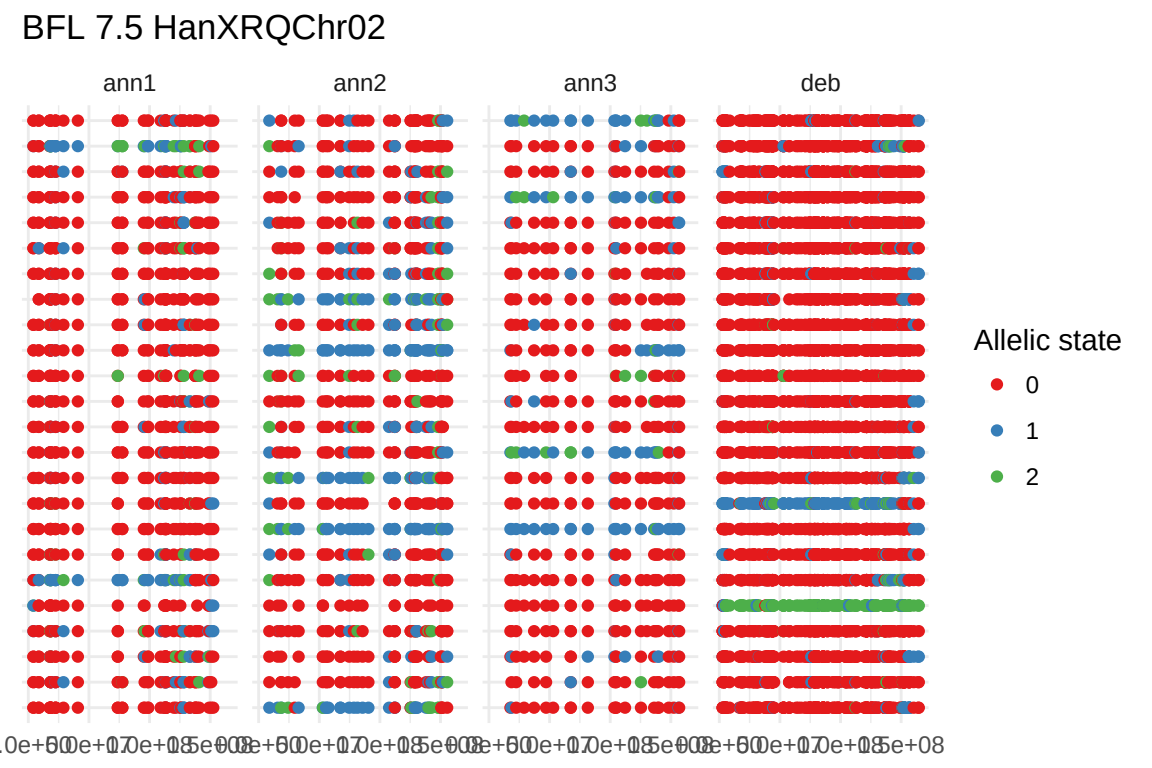
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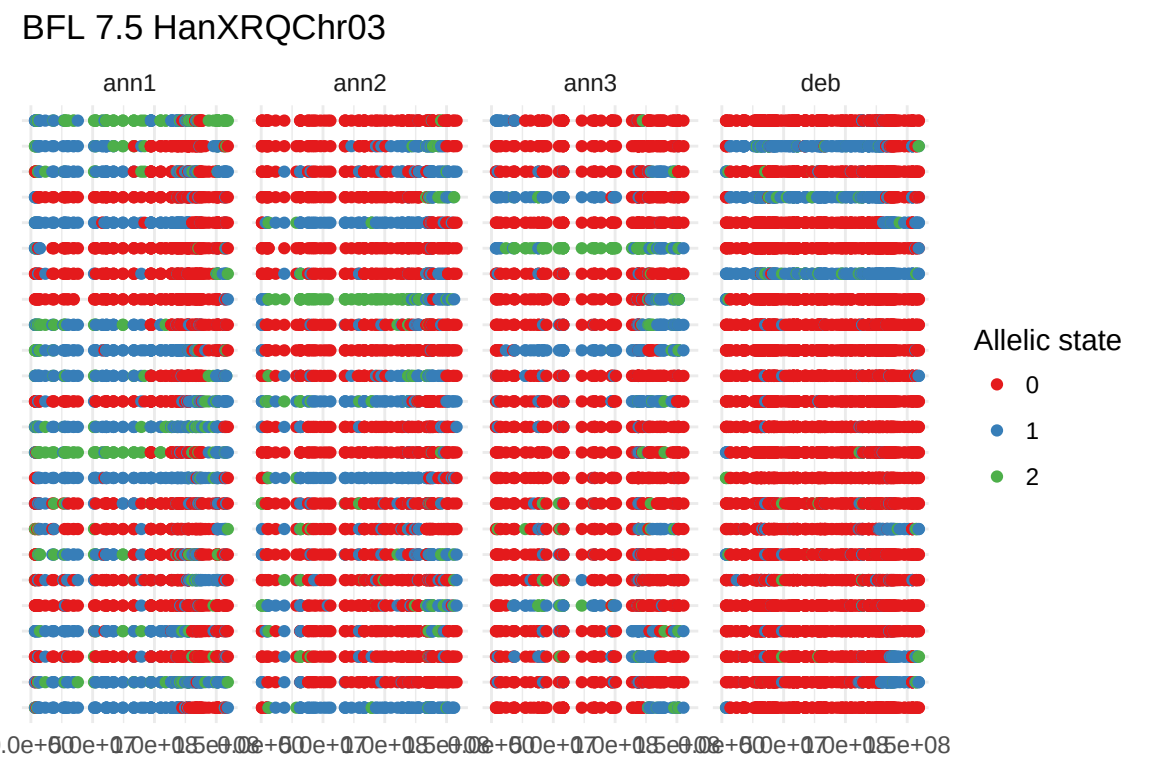
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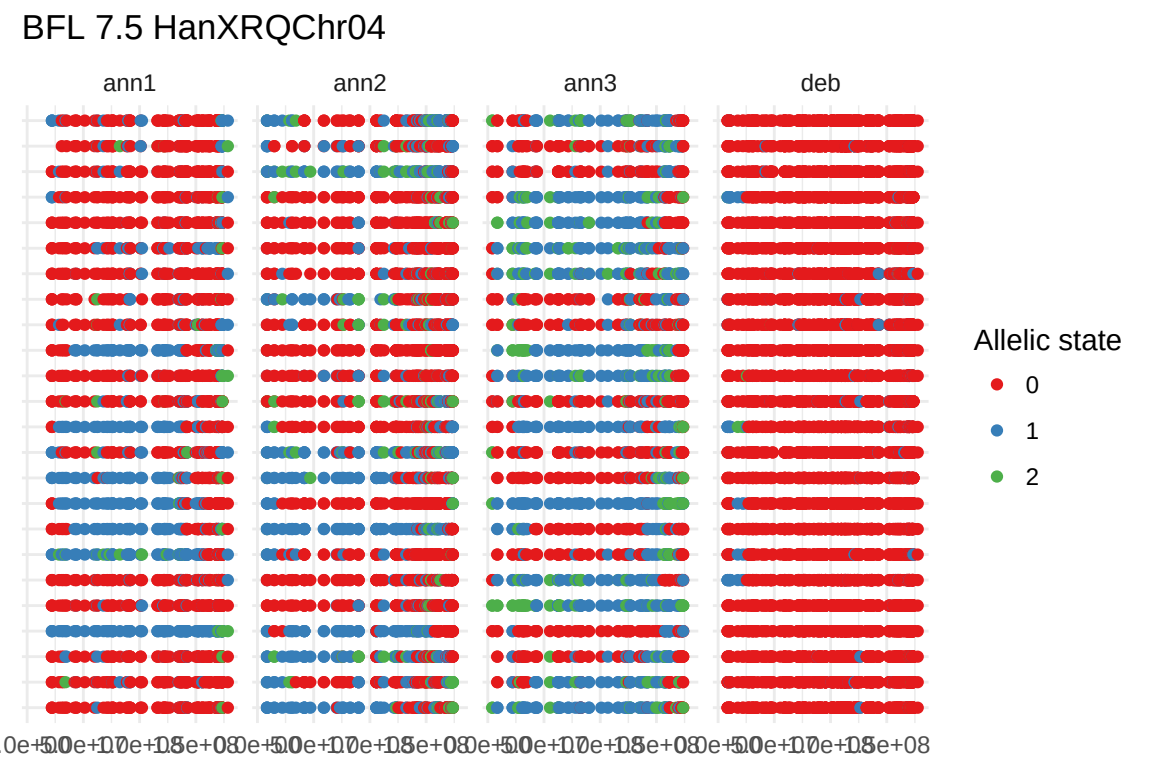
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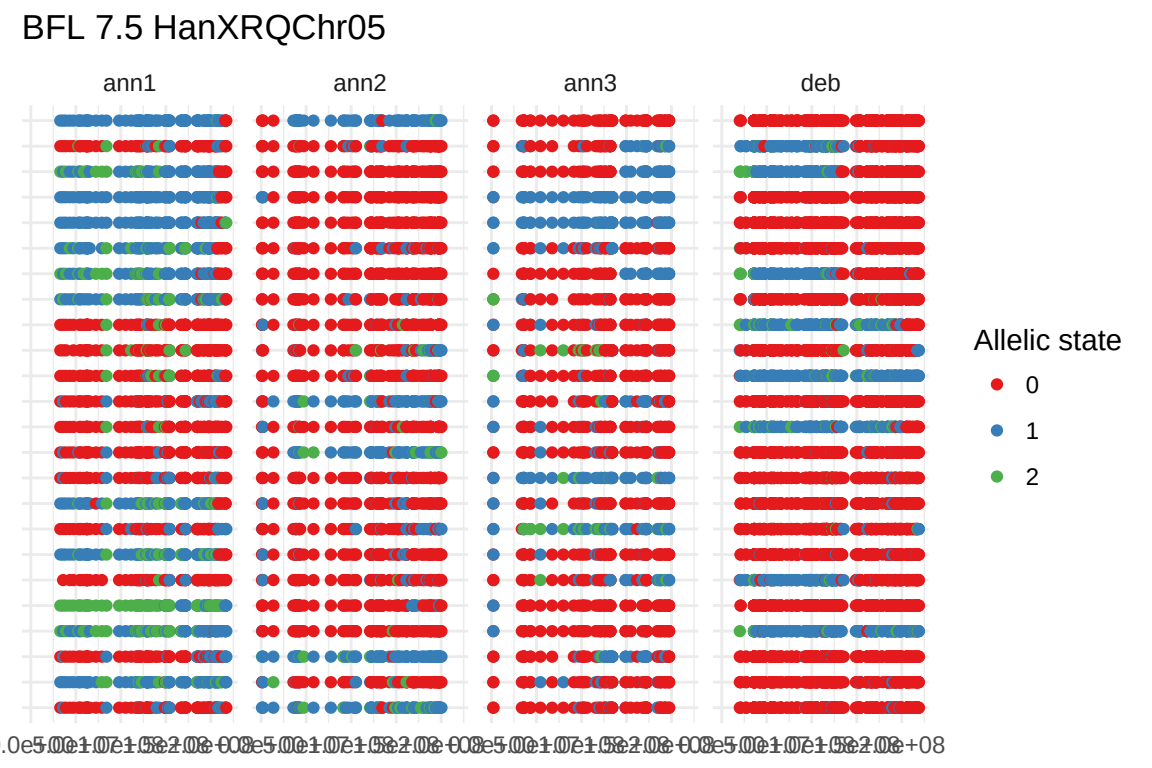
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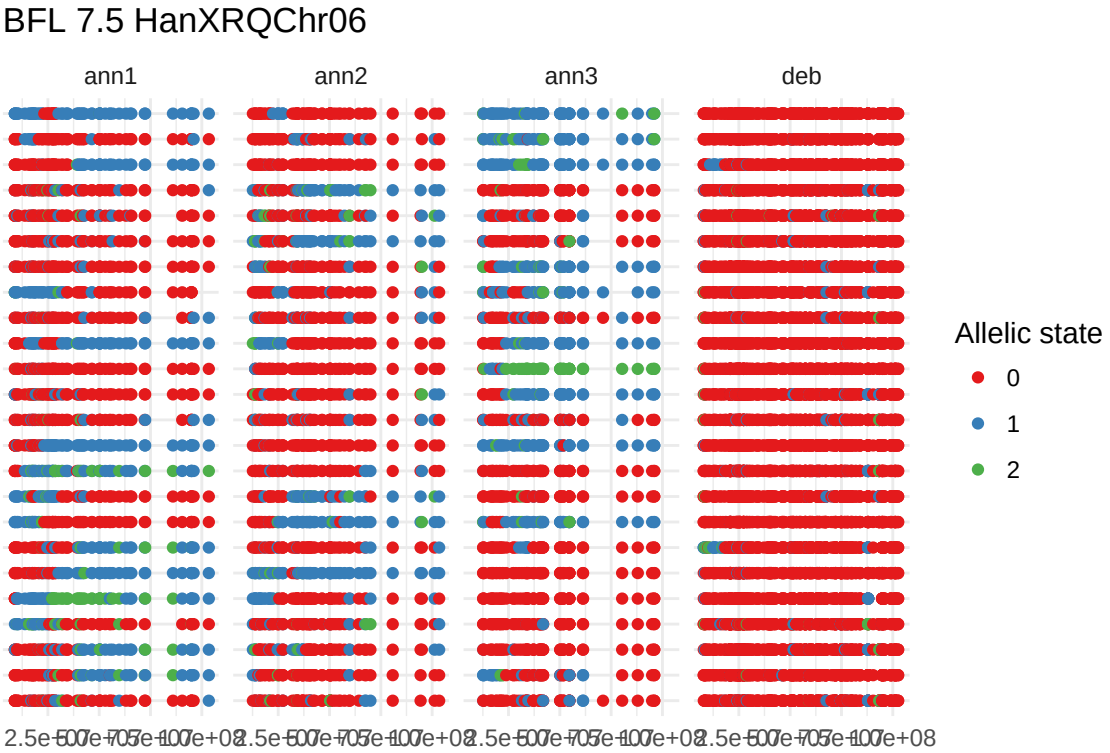
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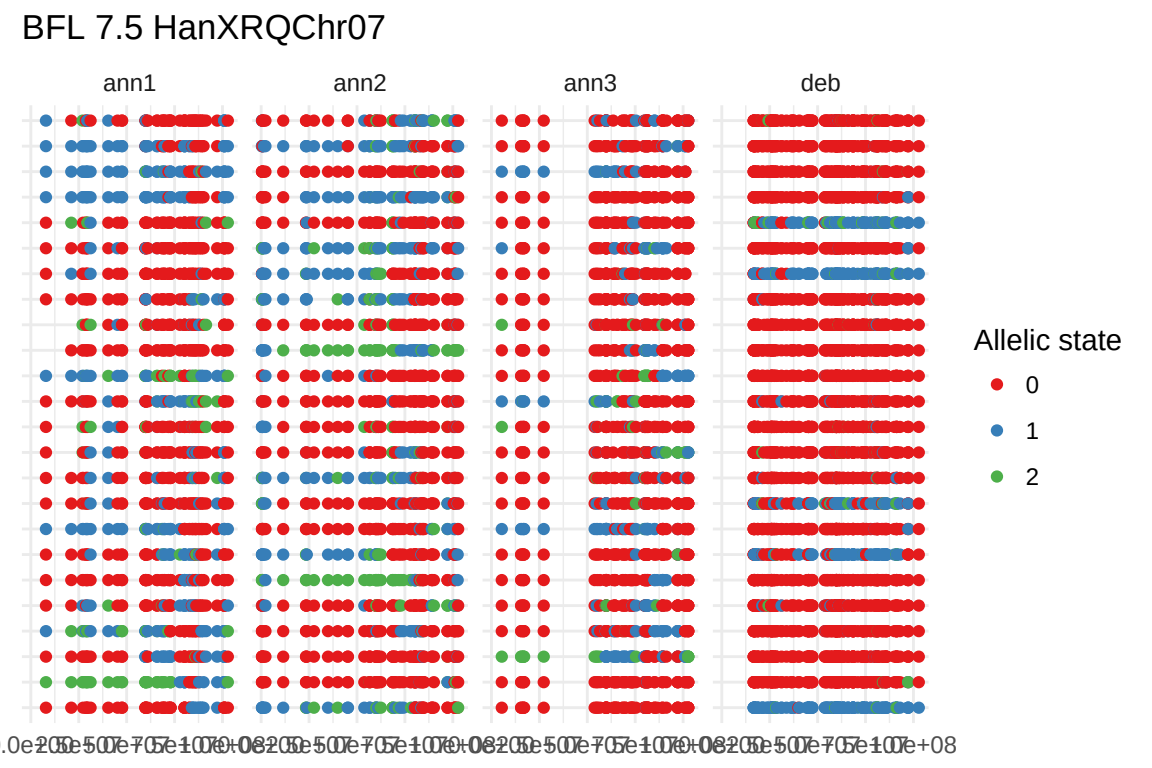
7.5e-08
1.0e+08
Allelic state
0
1
2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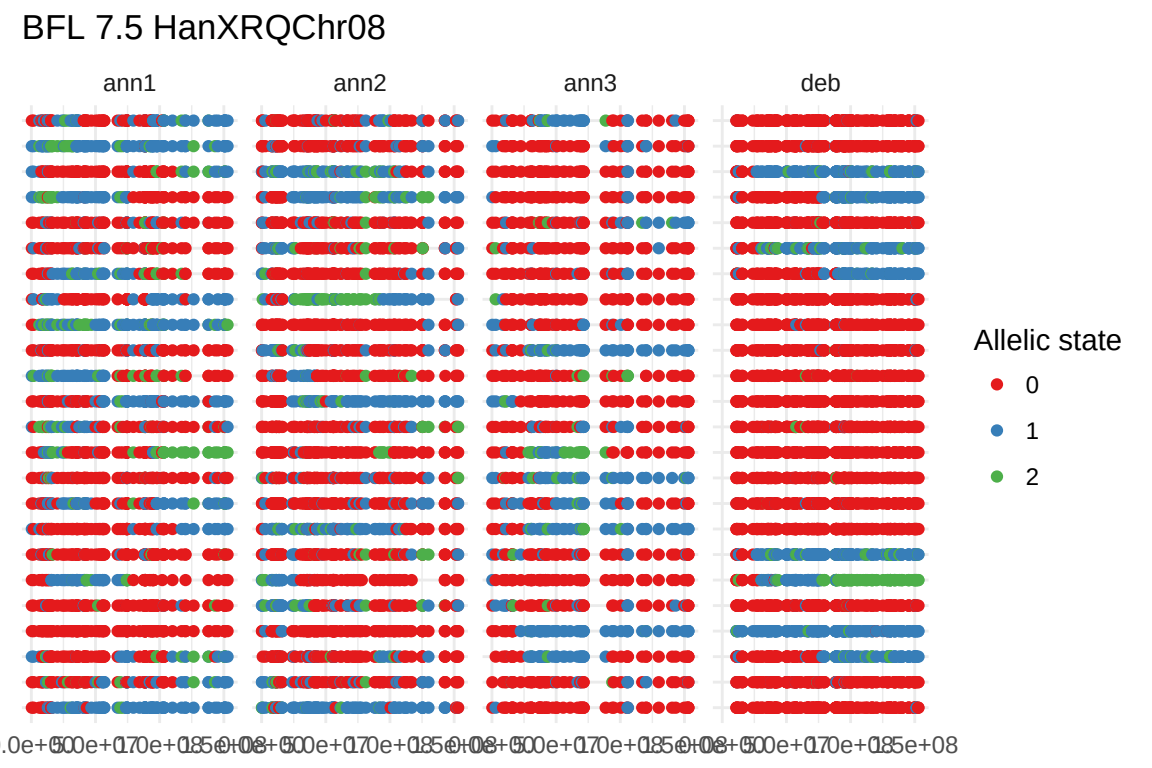
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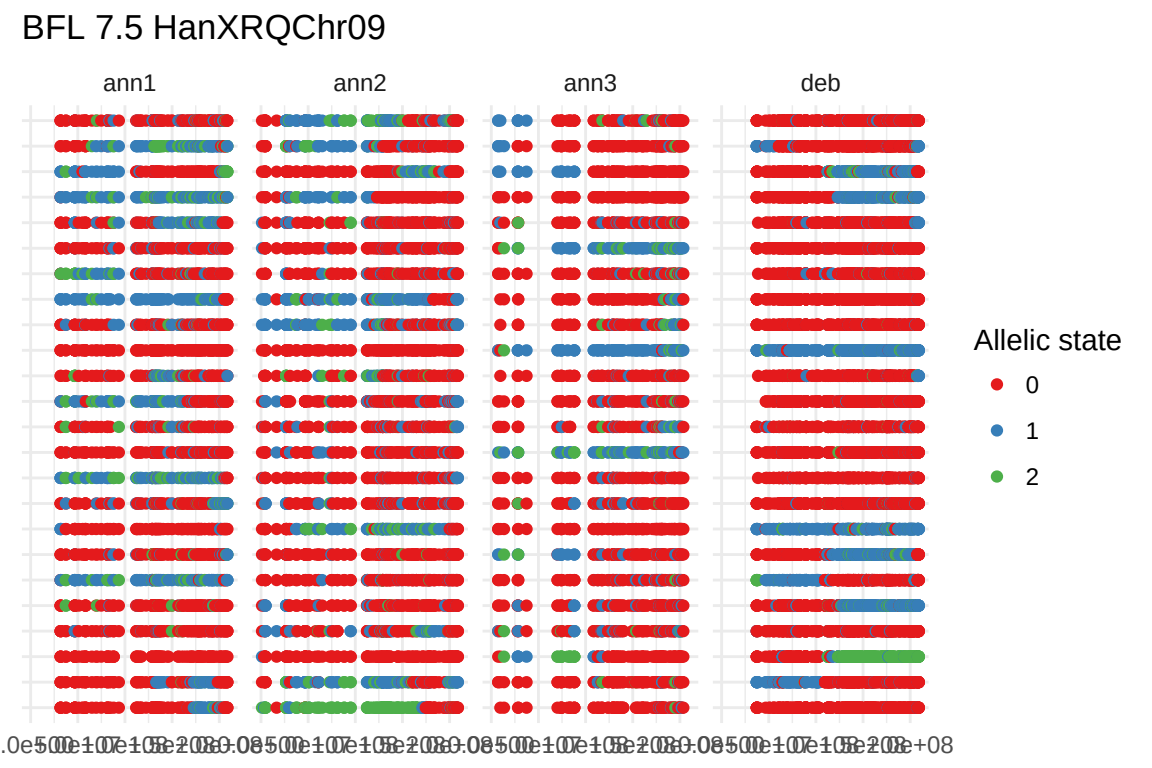
1.5e+08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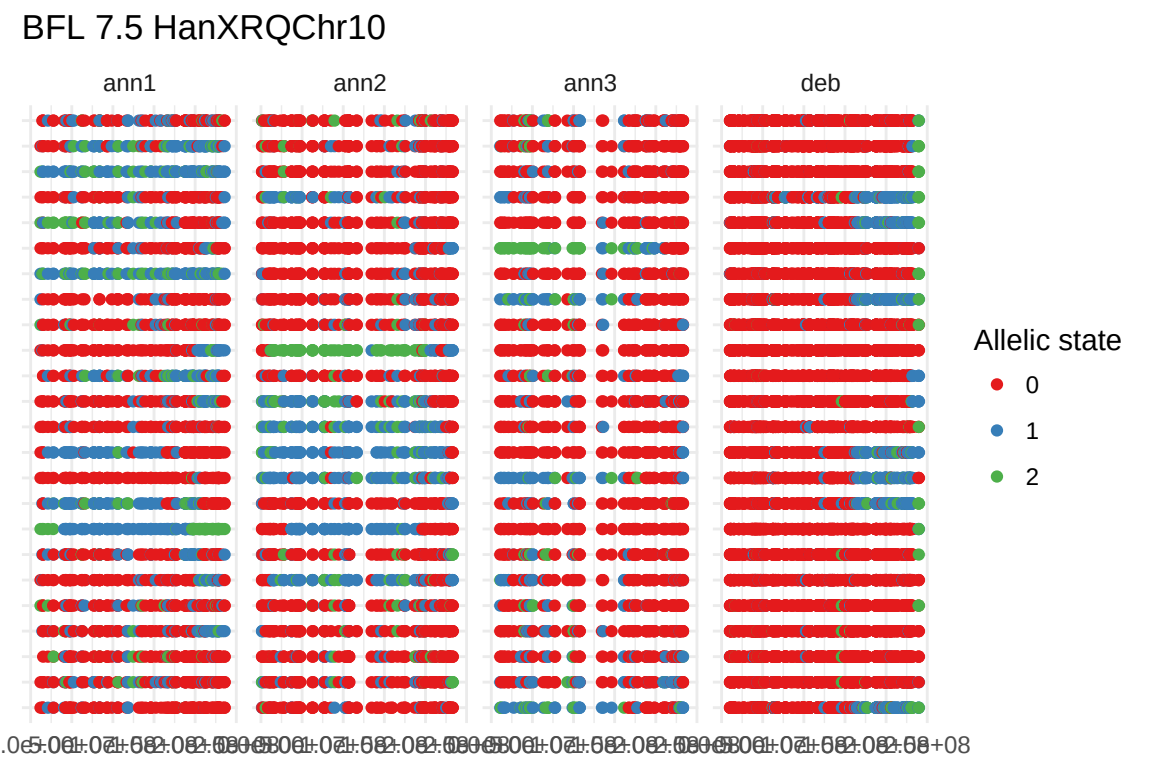
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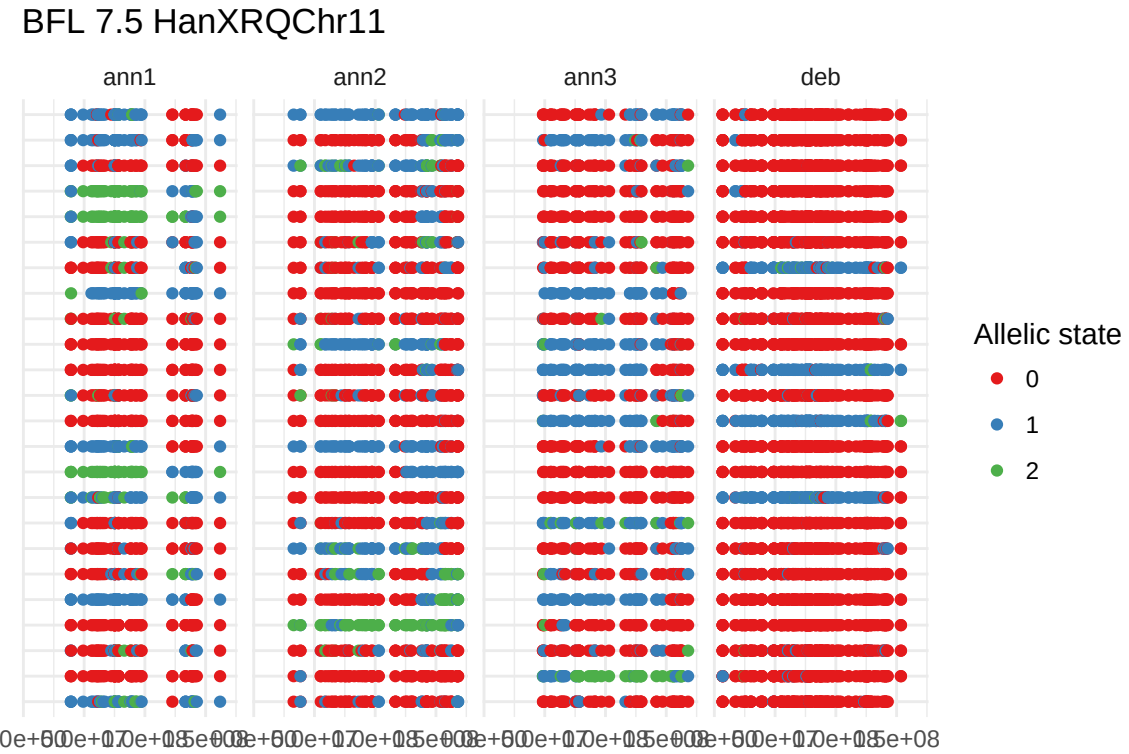
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deb
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1
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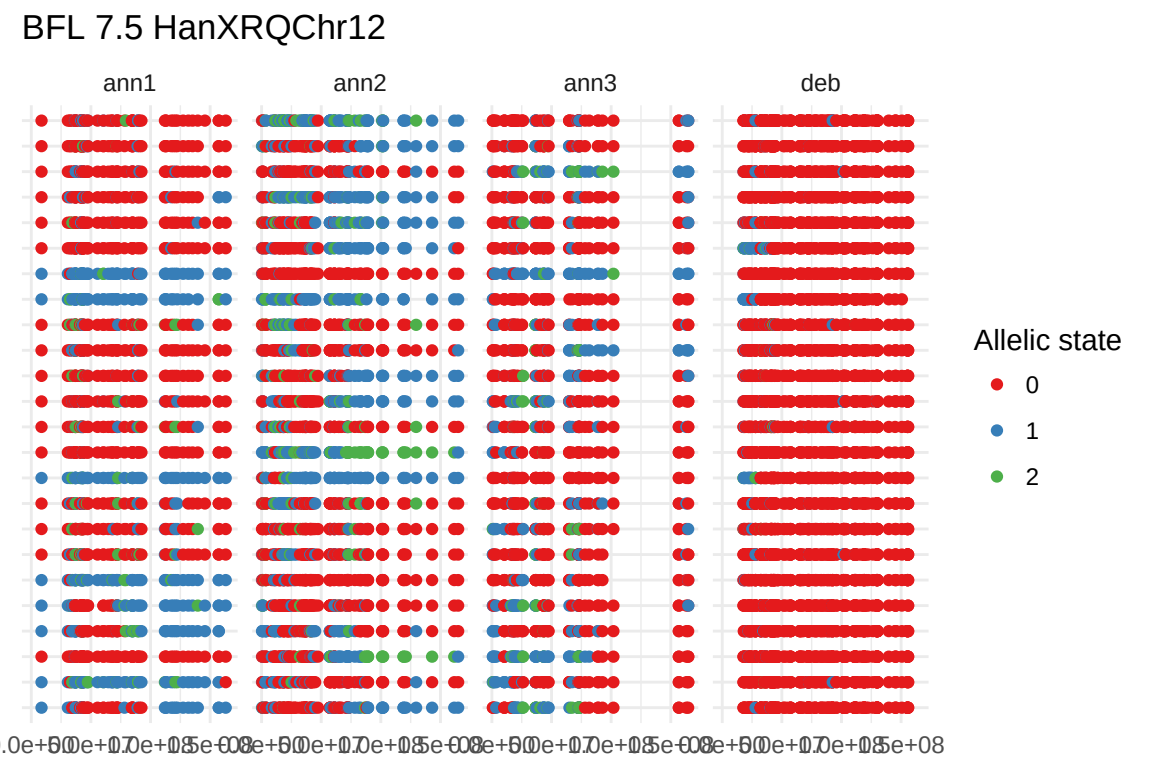
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deb
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1
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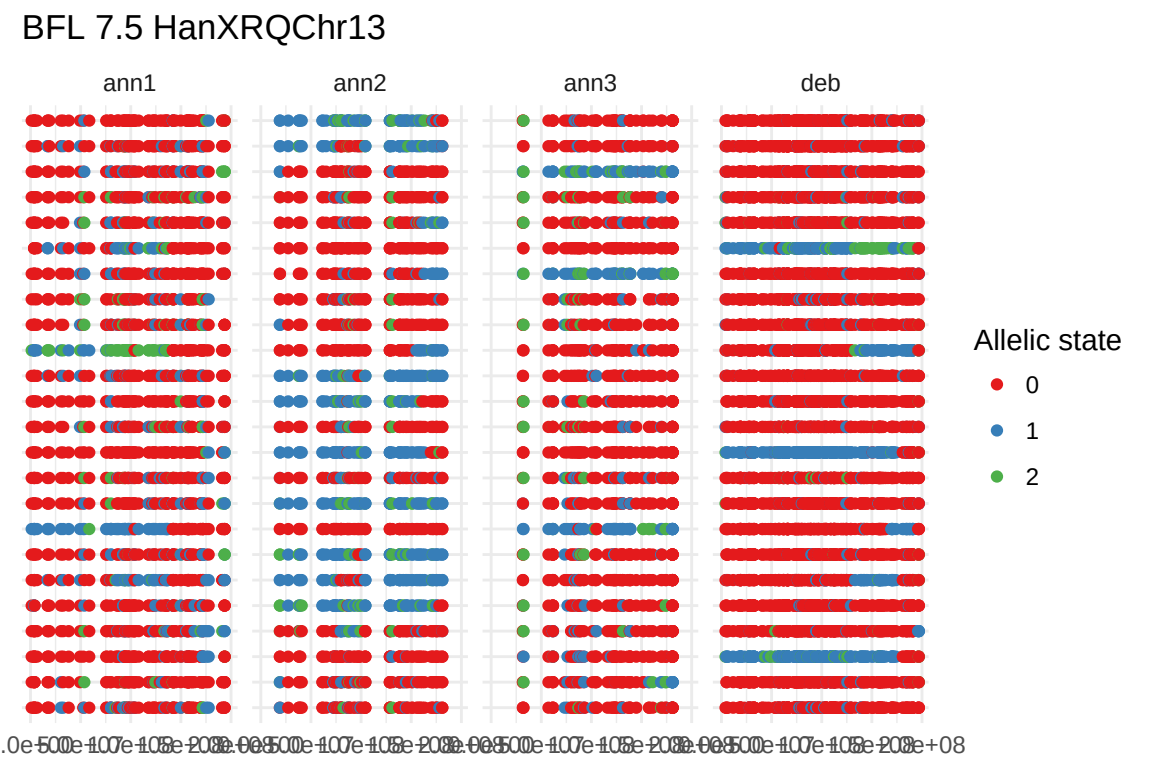
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deb
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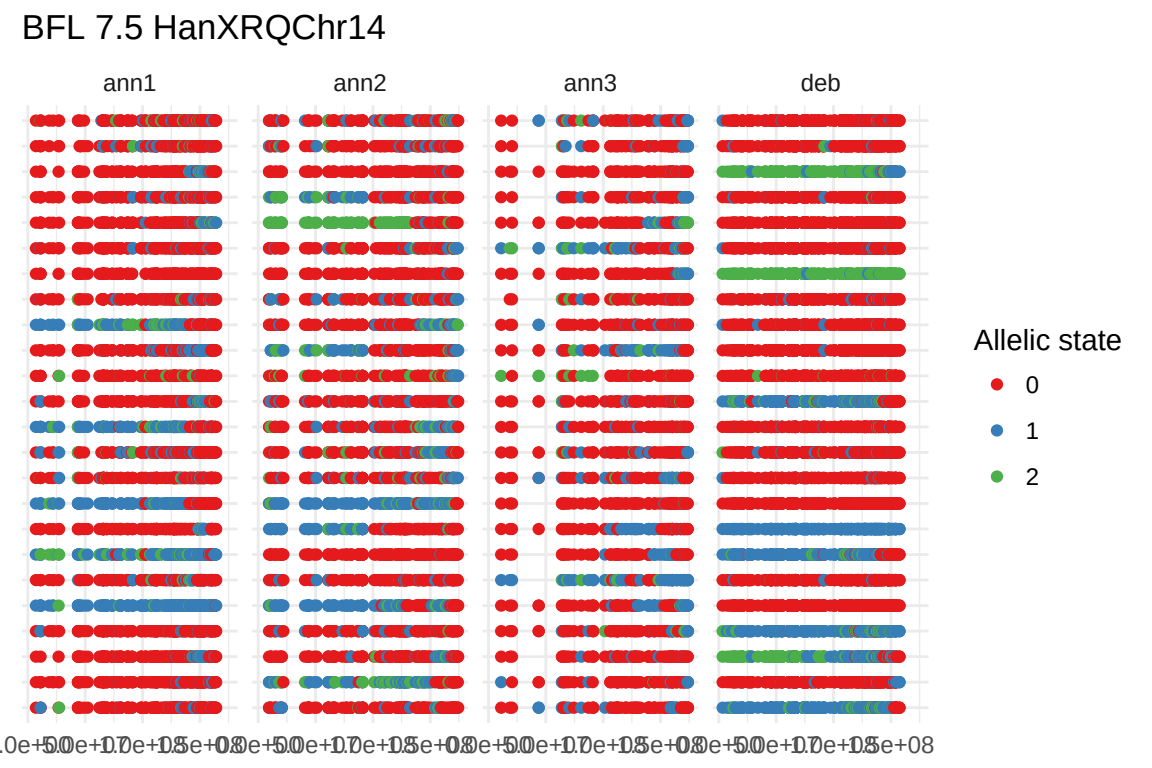
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ann2
ann3
deb
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1
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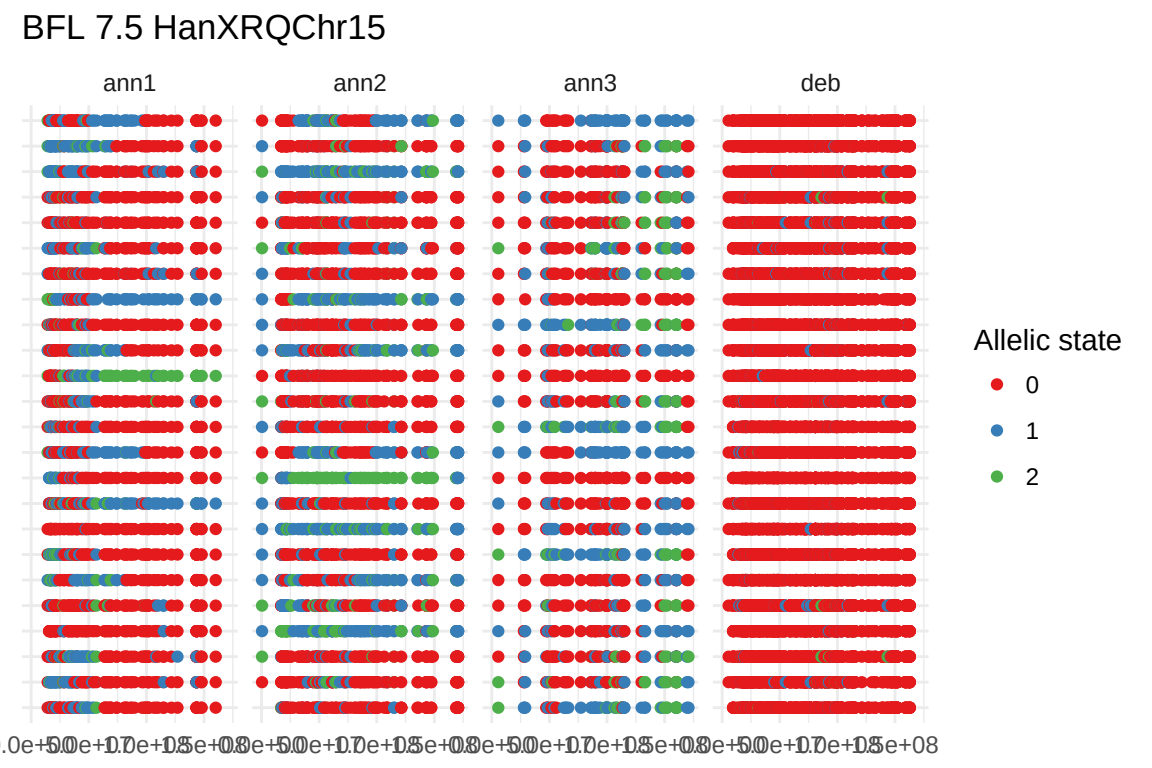
BFL 7.5 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
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2
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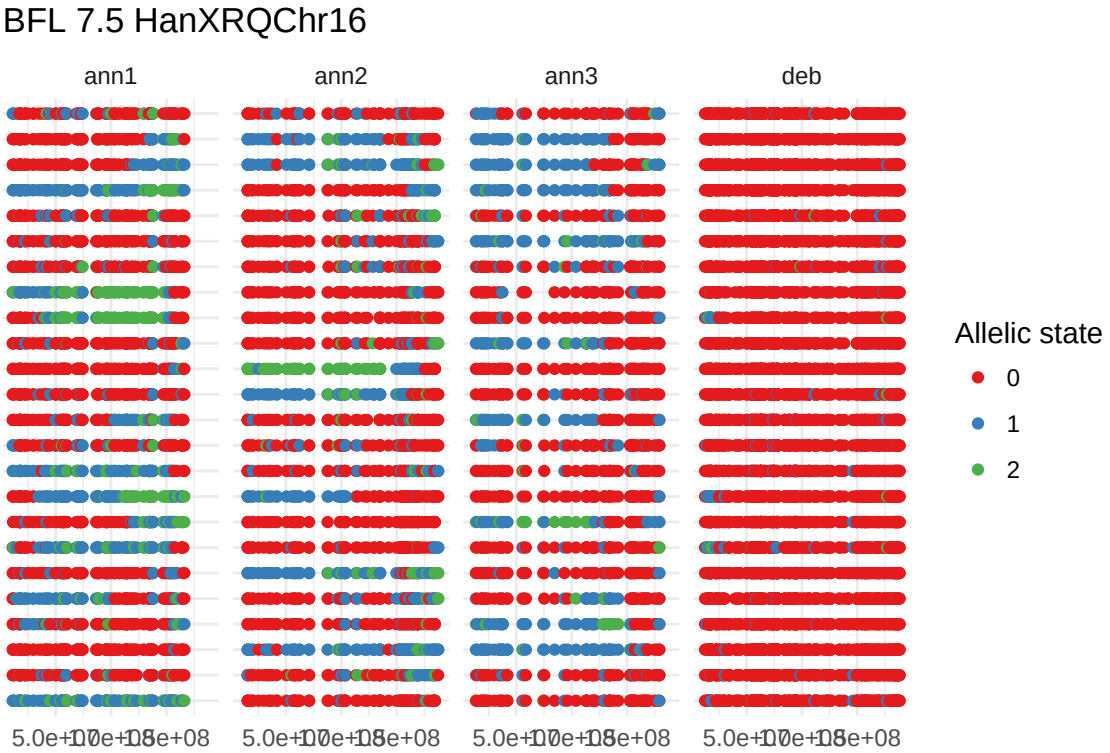
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ann2
ann3
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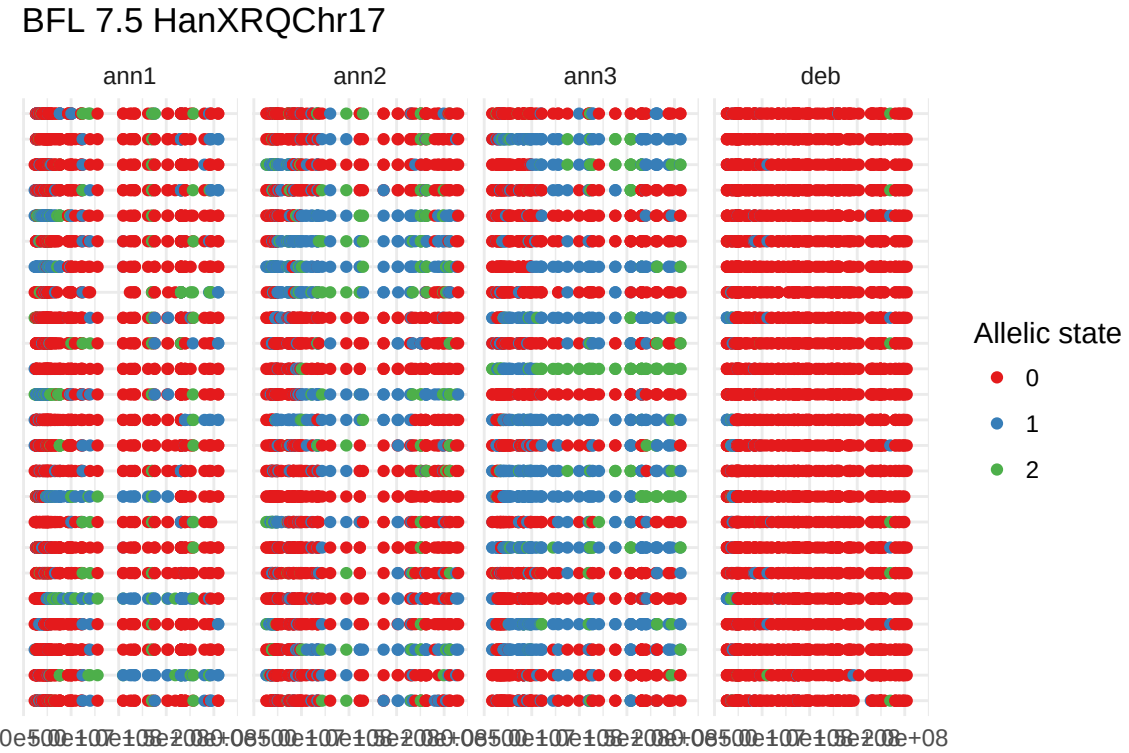
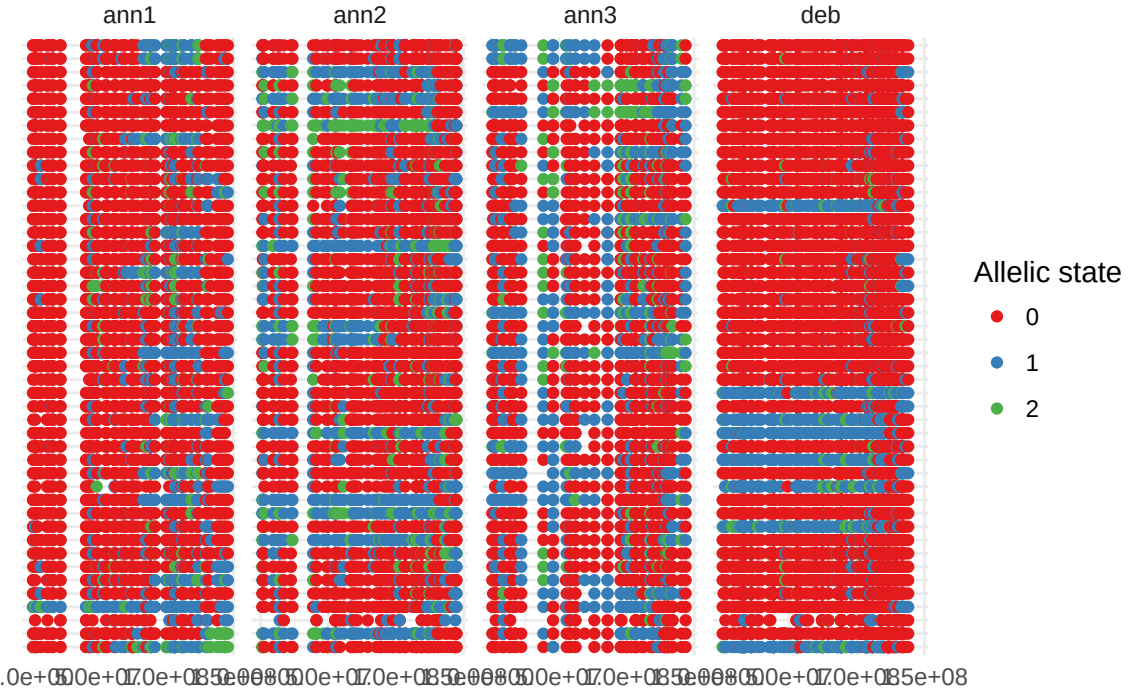
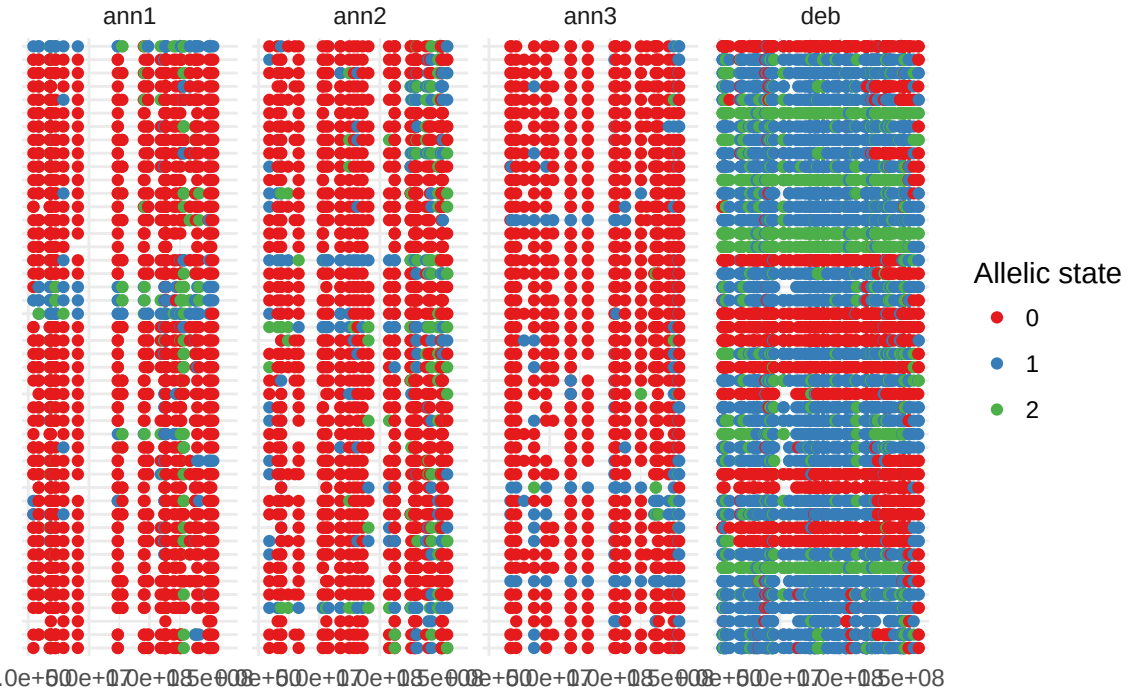
7.0e+08
5.0e+07
7.0e+08
5.0e+07
7.0e+08
5.0e+07
7.0e+08
Allelic state
0
1
2

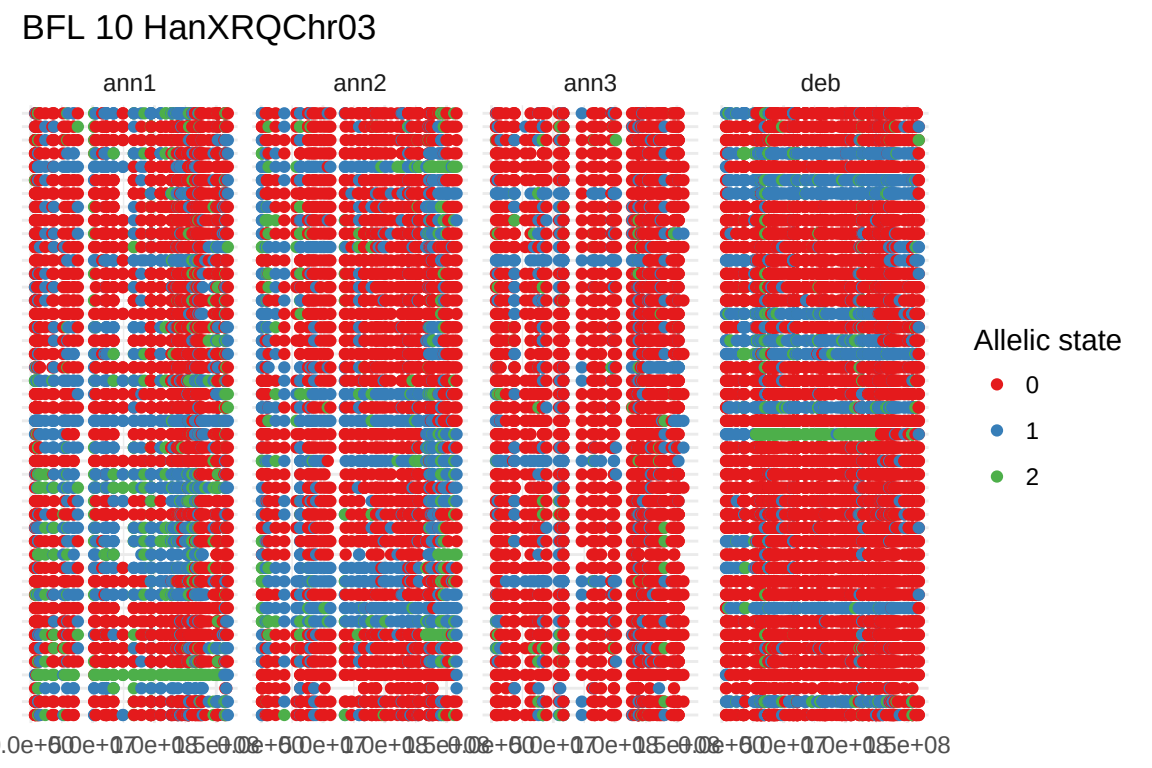

BFL 7.5 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 10 HanXRQChr01



BFL 10 HanXRQChr02

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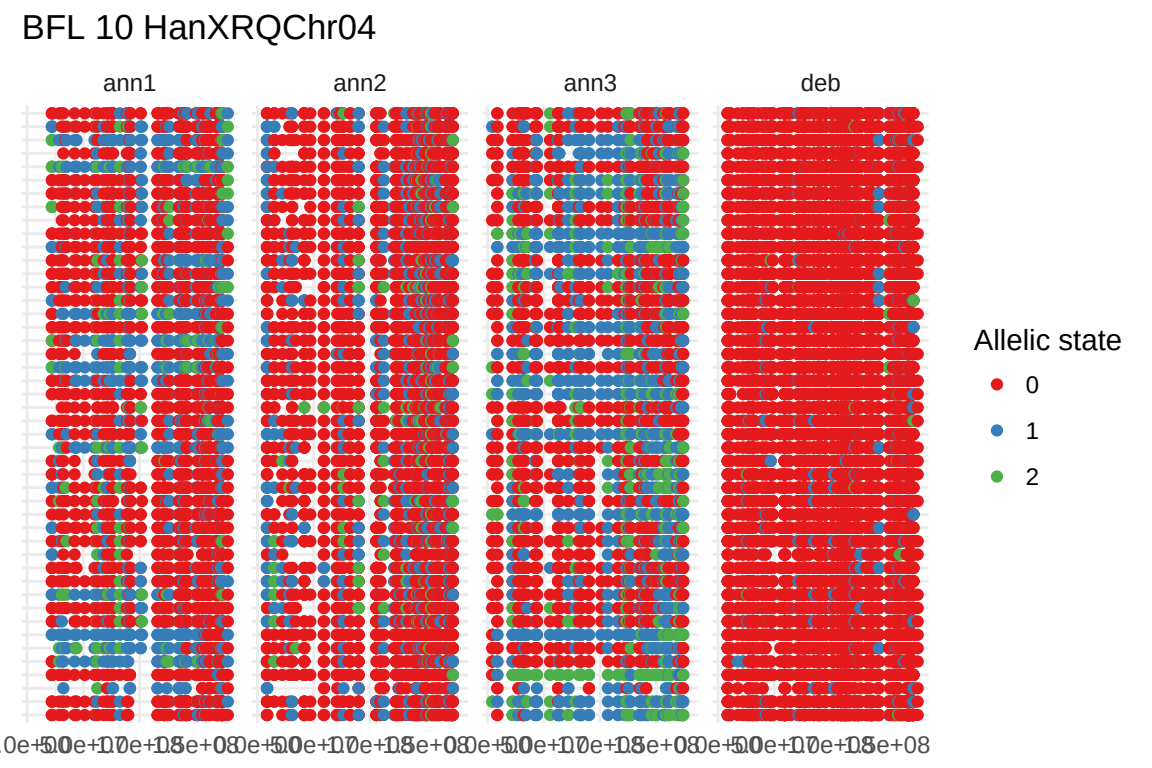
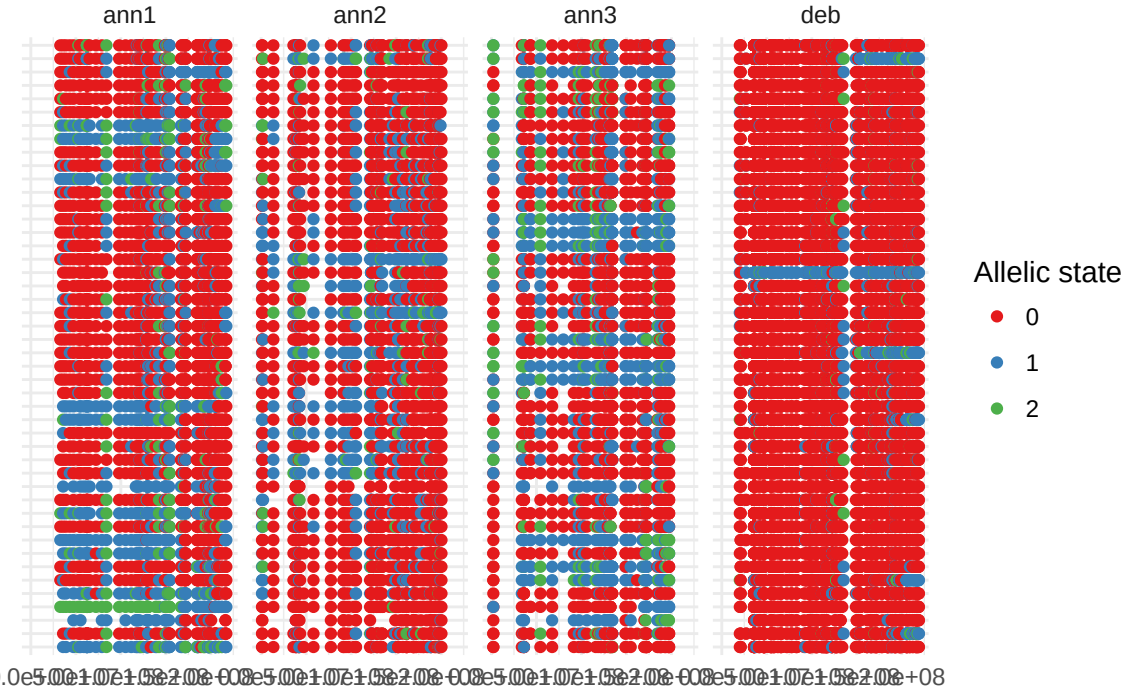
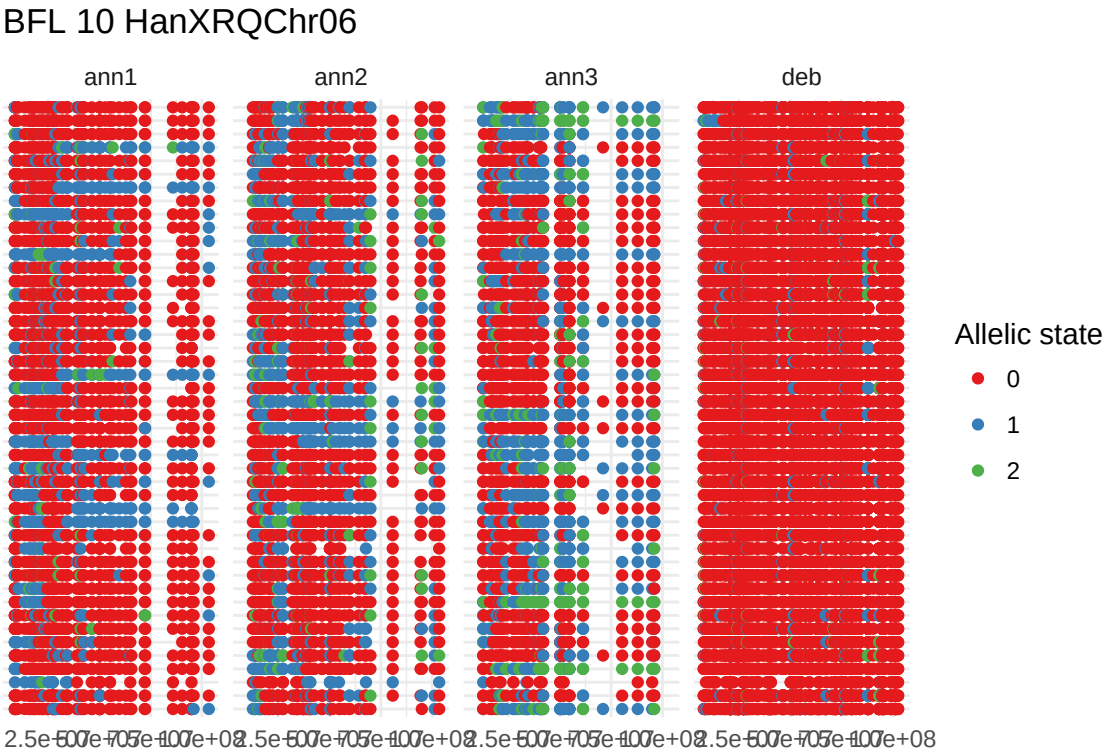
ann1
ann2
ann3
deb
Allelic state
0
1
2

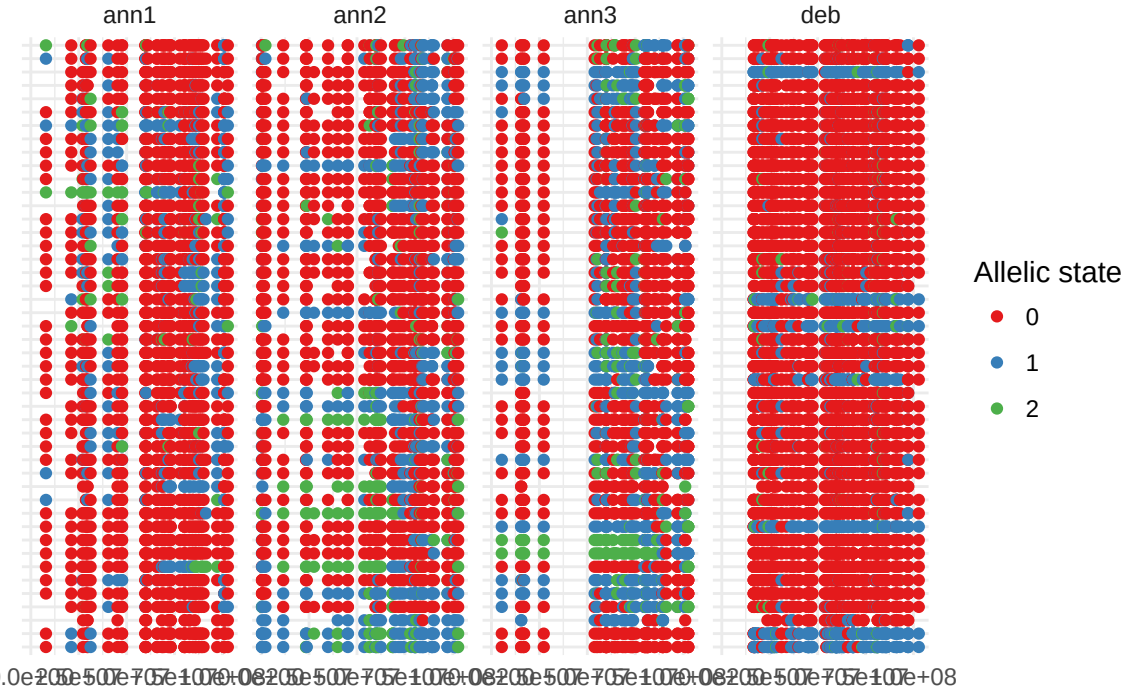

BFL 10 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 10 HanXRQChr05




BFL 10 HanXRQChr06
ann1
ann2
ann3
deb
2.5e-50
7.5e-50
7.5e-10
7.5e-10
7.5e-10

BFL 10 HanXRQChr07



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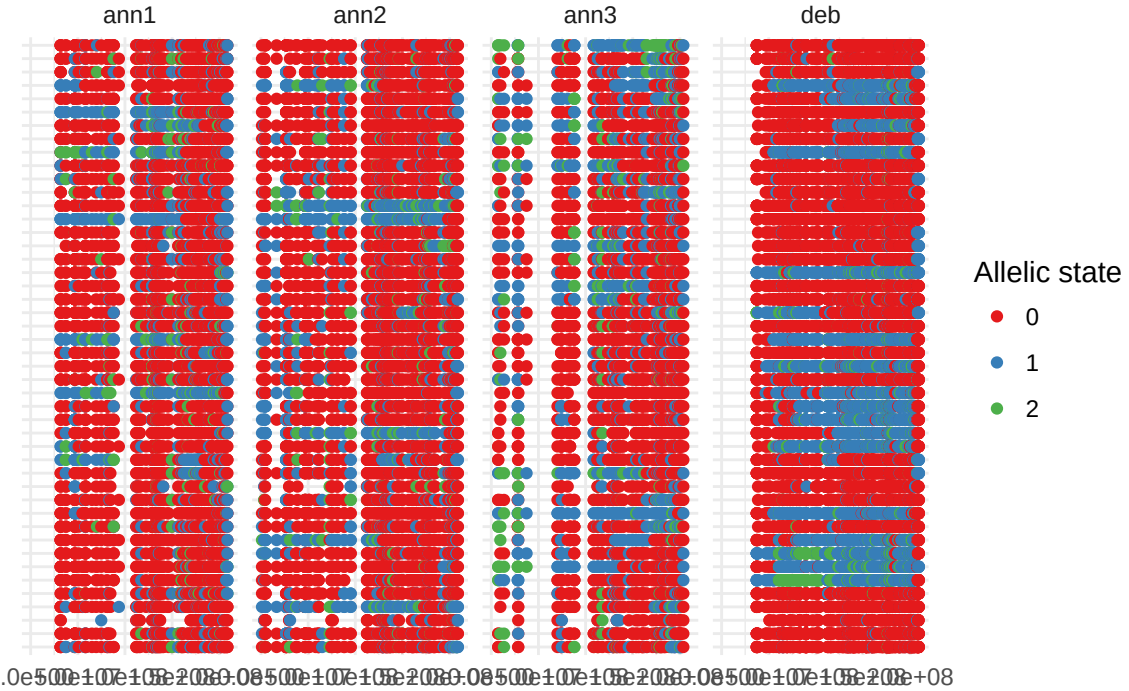
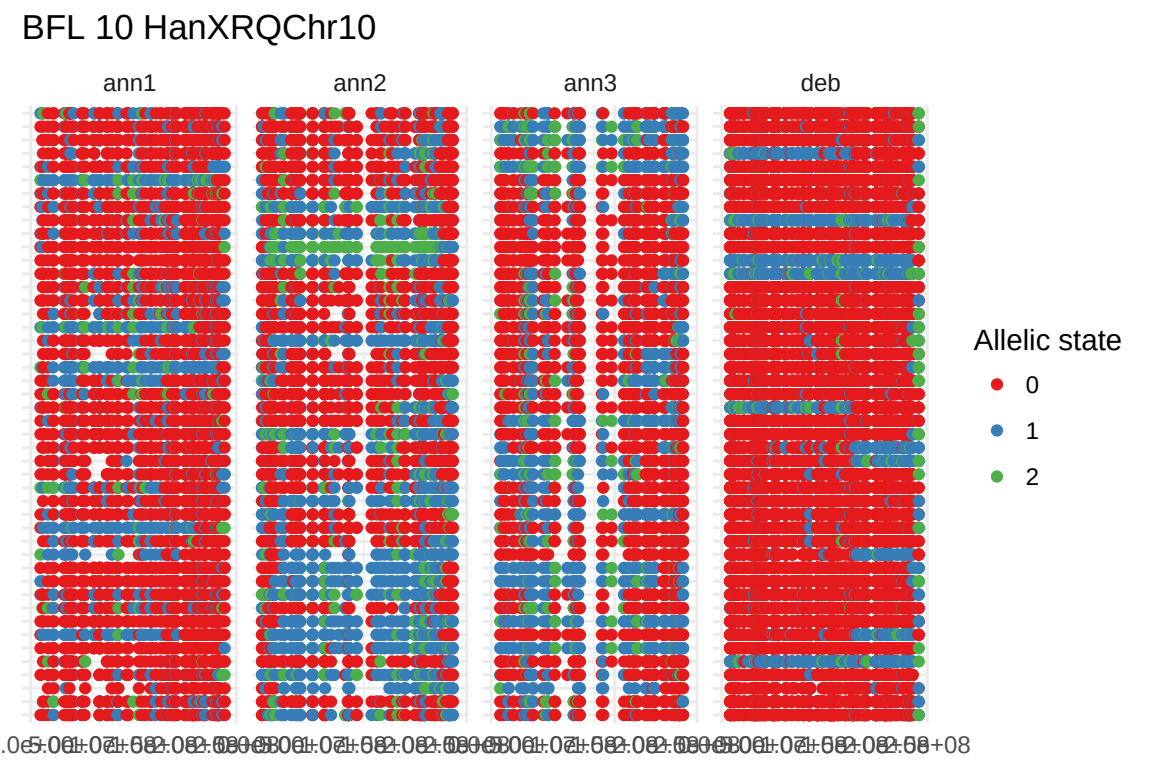
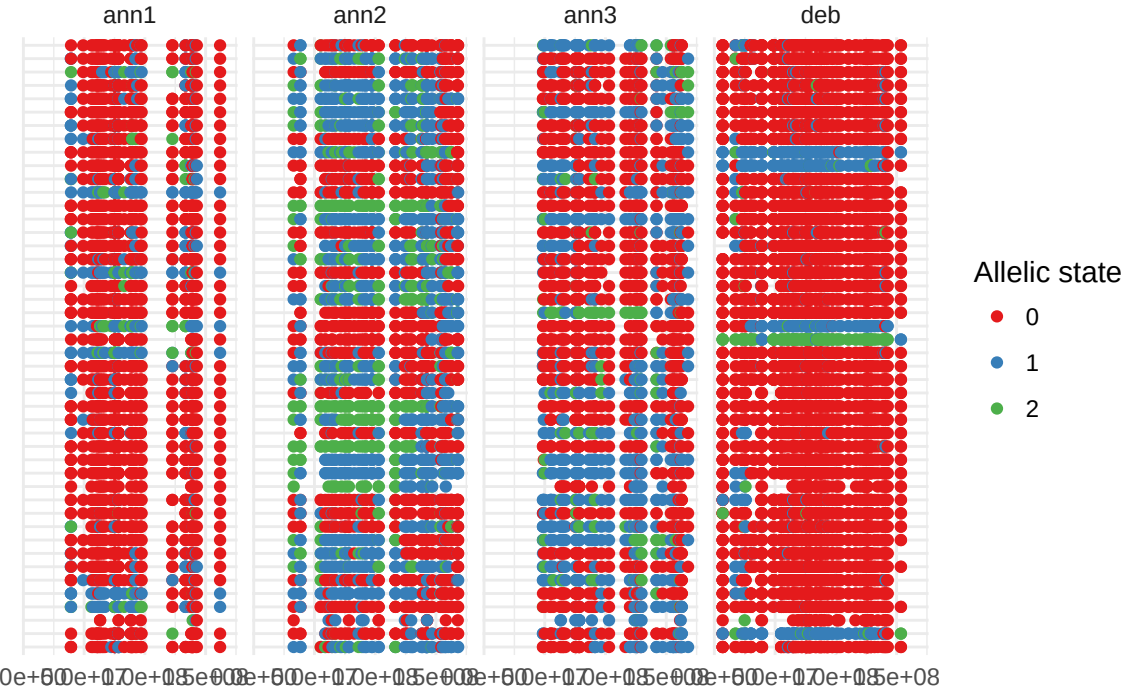
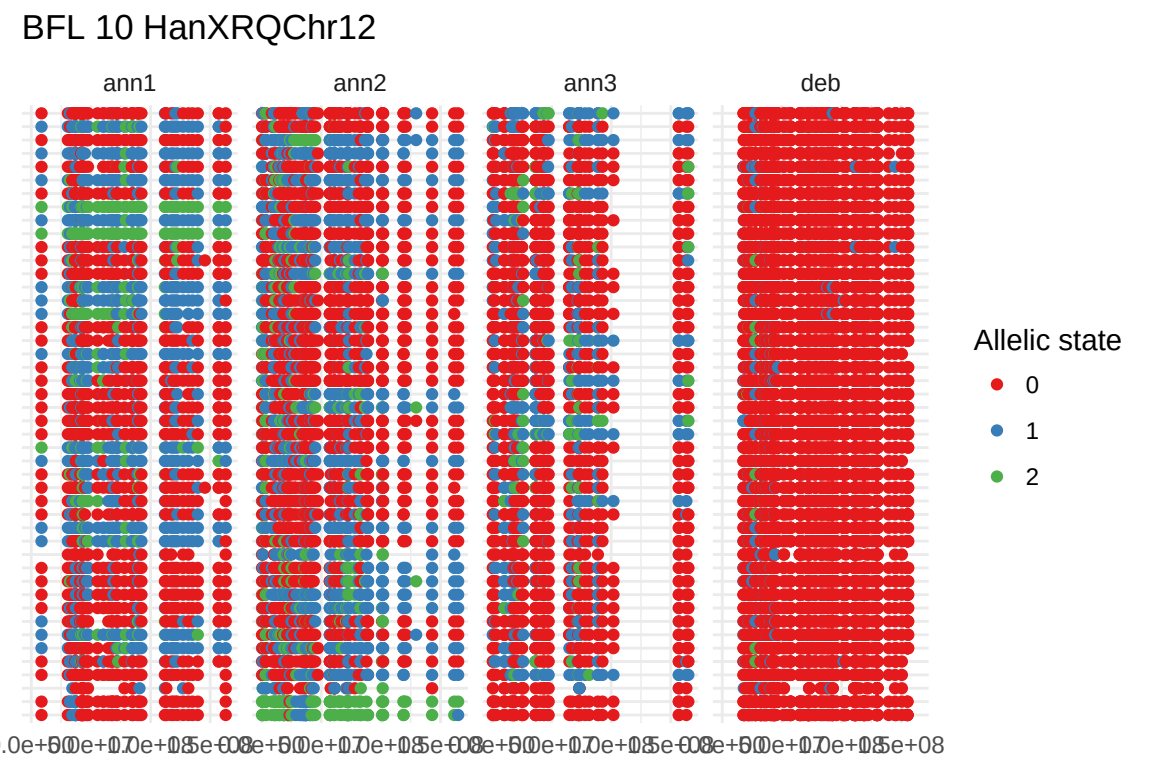
BFL 10 HanXRQChr09



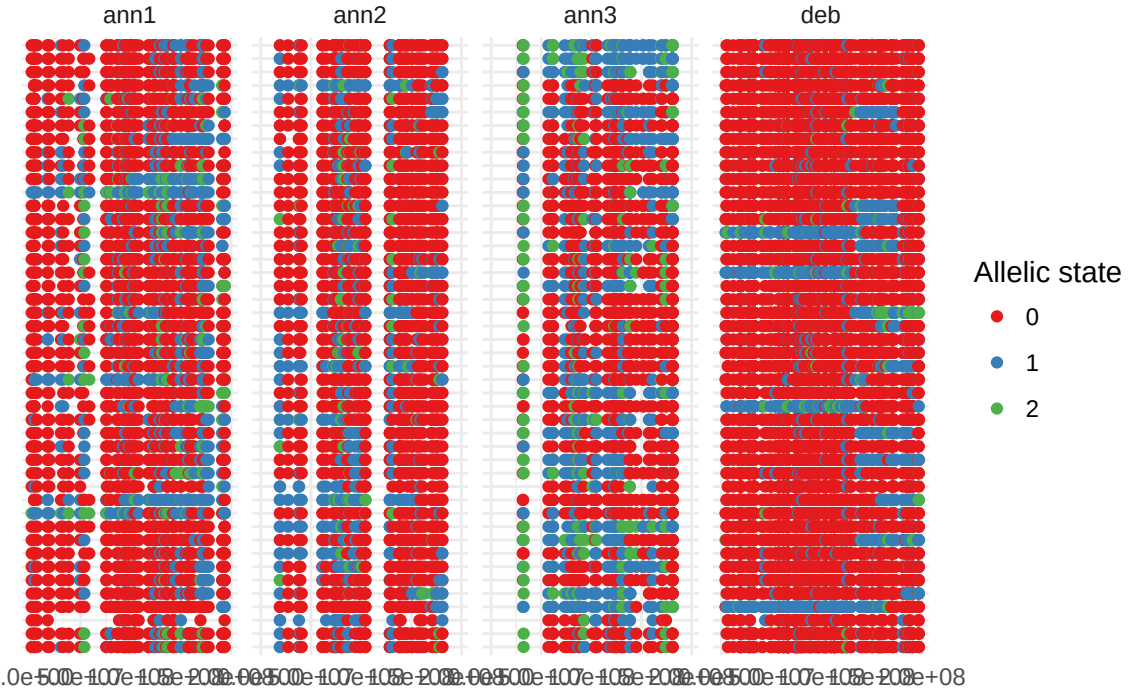

BFL 10 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 10 HanXRQChr11

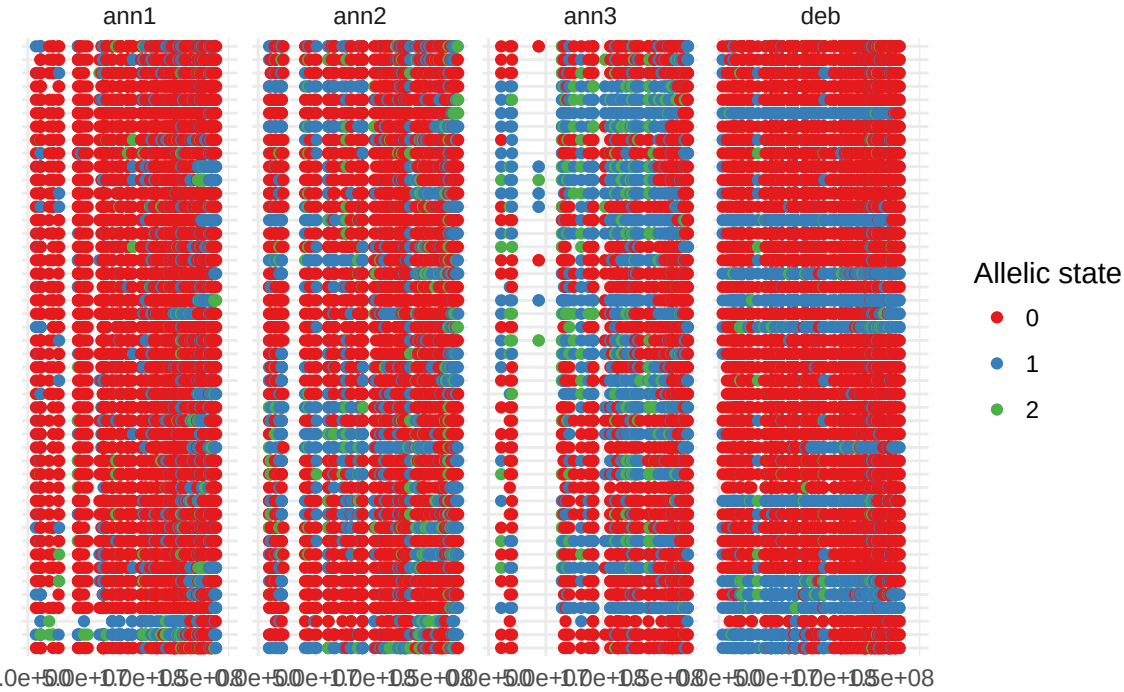


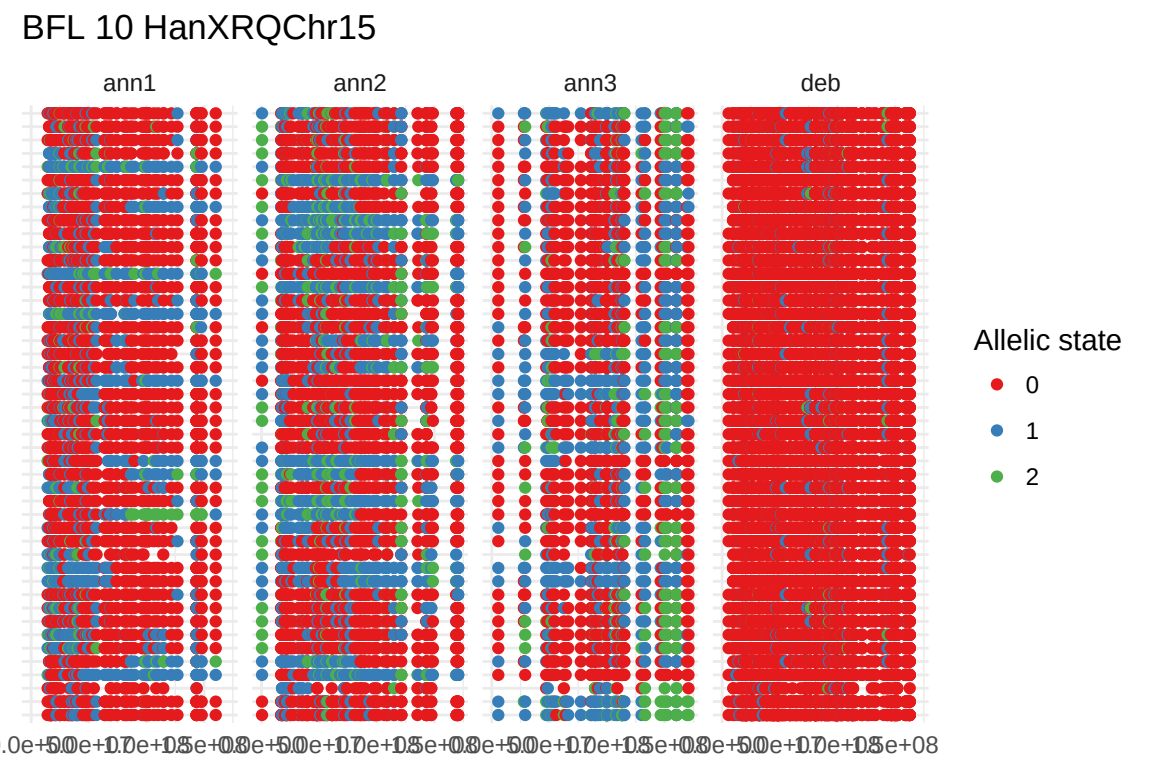

BFL 10 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
0e+07
7e+08
5e-08
8e+00
0e+07
7e+08
5e-08
8e+00
0e+07
7e+08
5e-08
8e+00
0e+07
7e+08
5e+08

BFL 10 HanXRQChr13

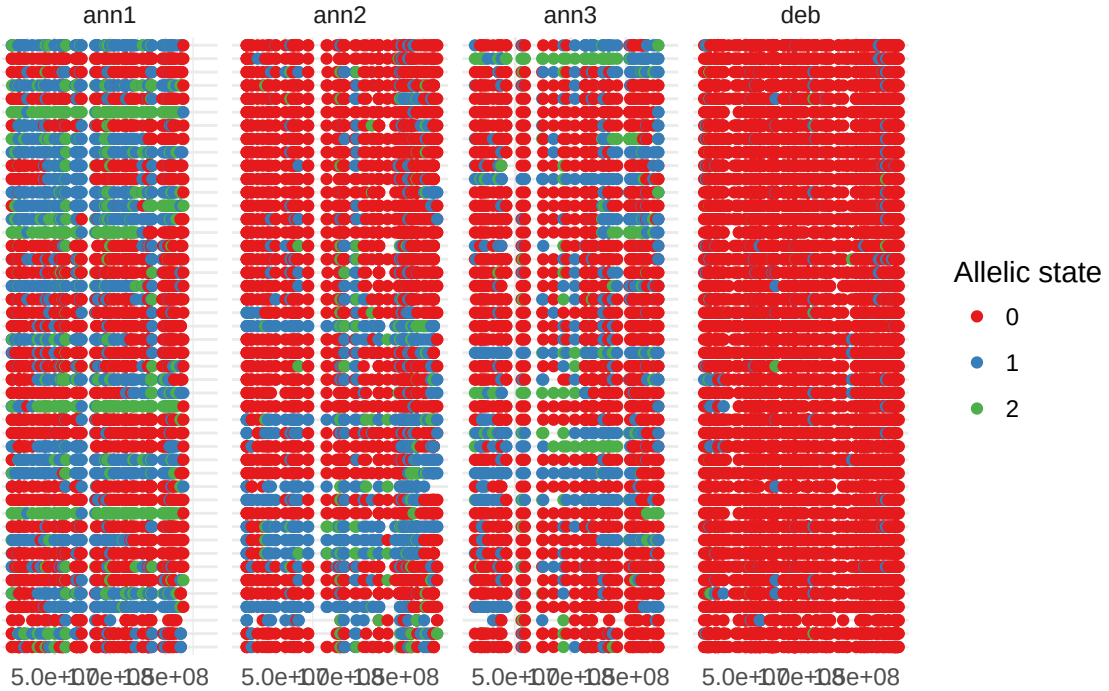


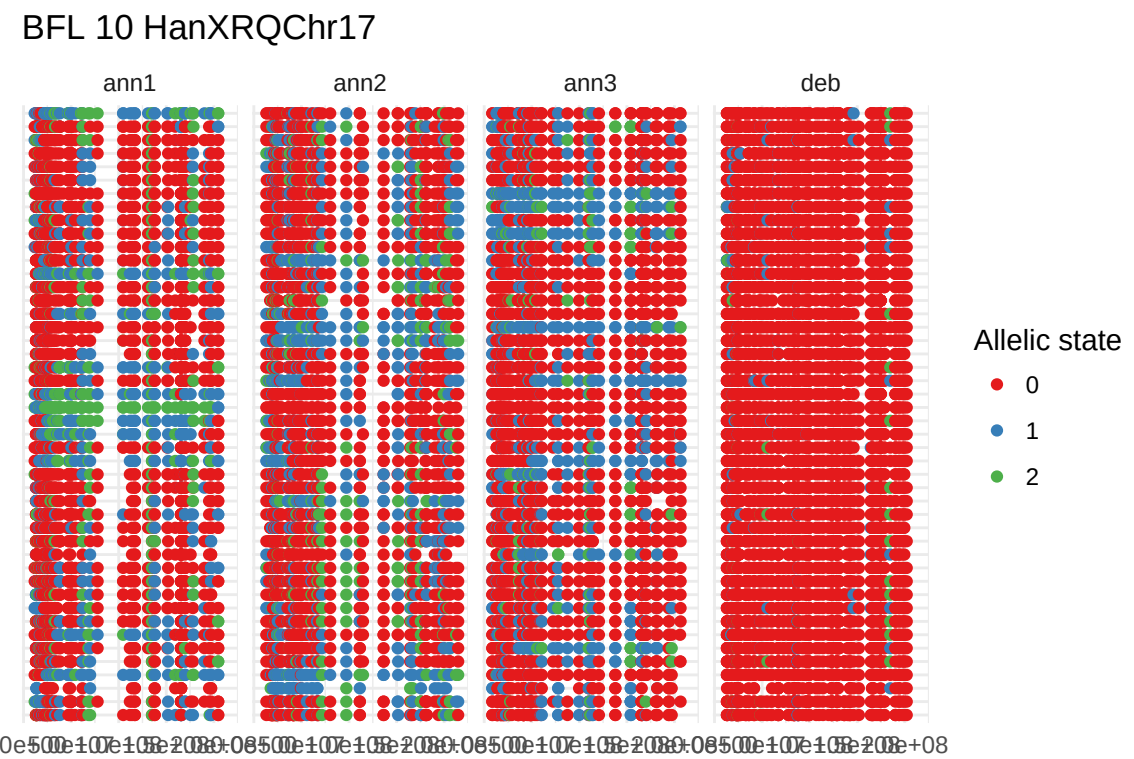
BFL 10 HanXRQChr14



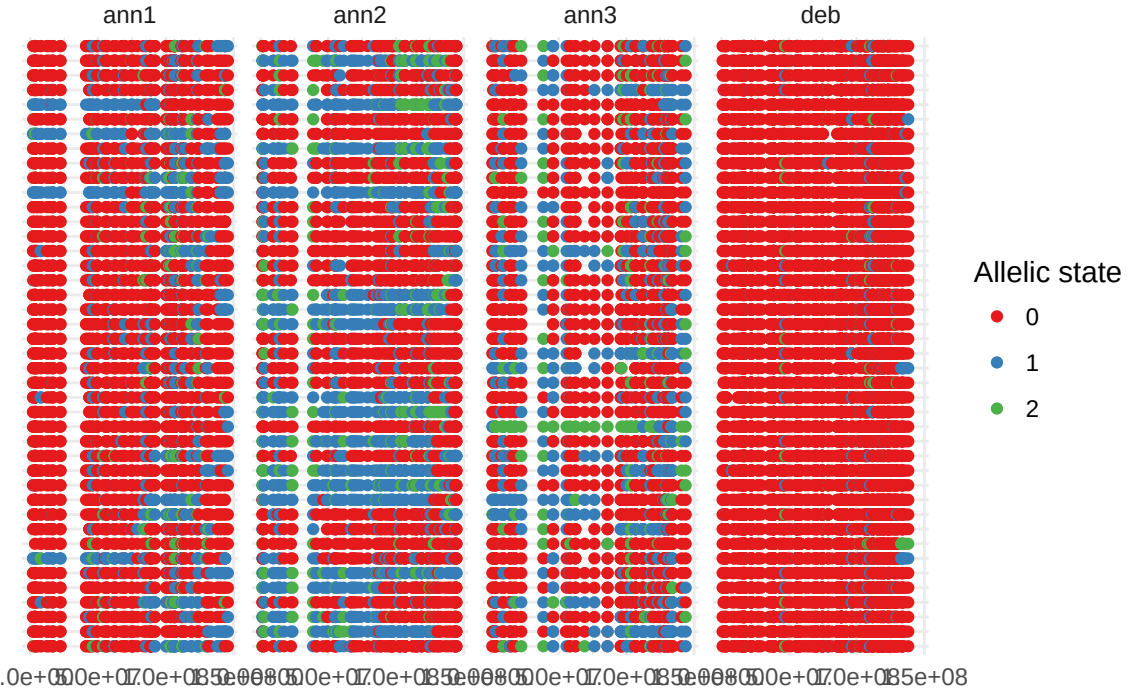

BFL 10 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8

BFL 10 HanXRQChr16

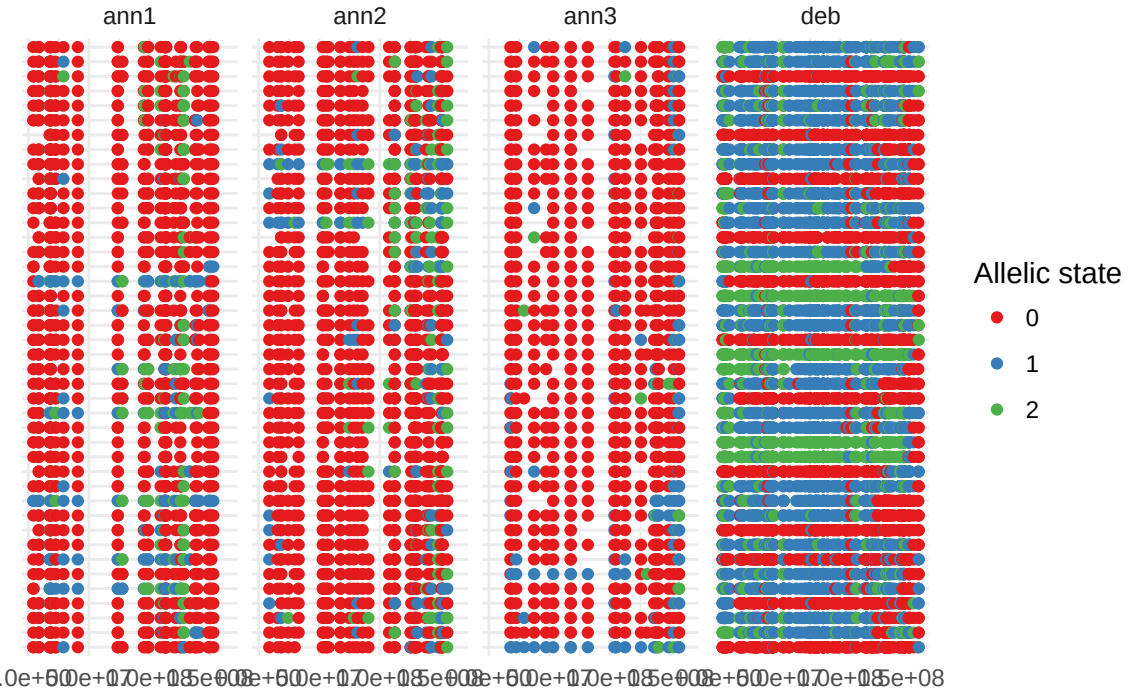



BFL 10 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

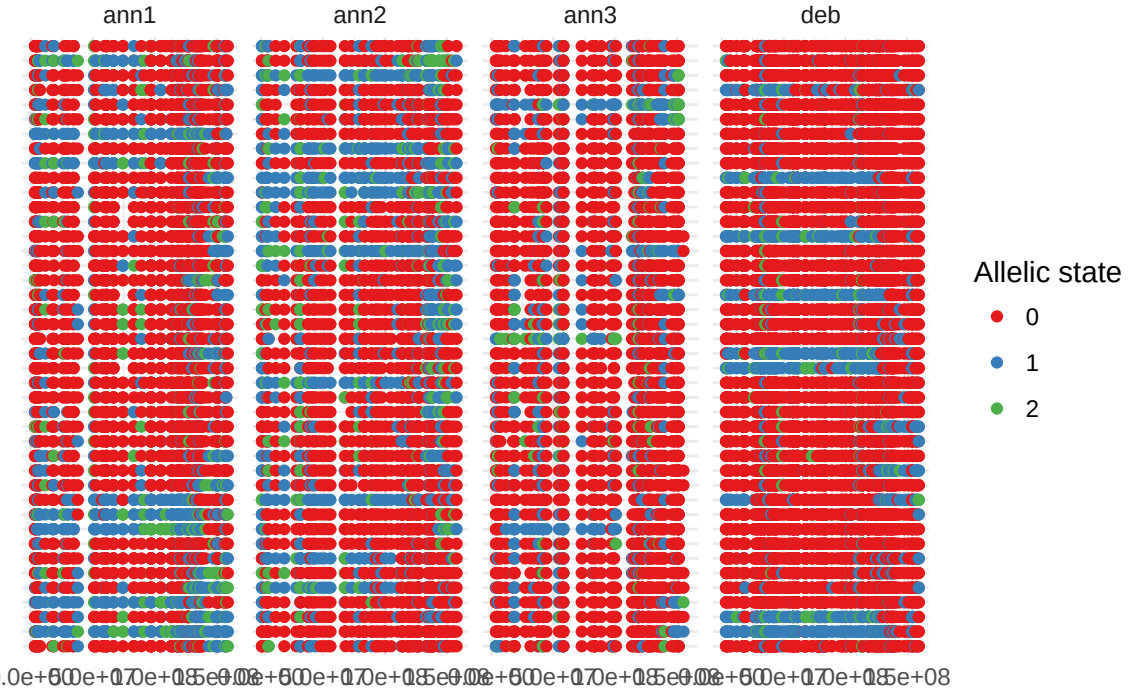
BFL 11 HanXRQChr01



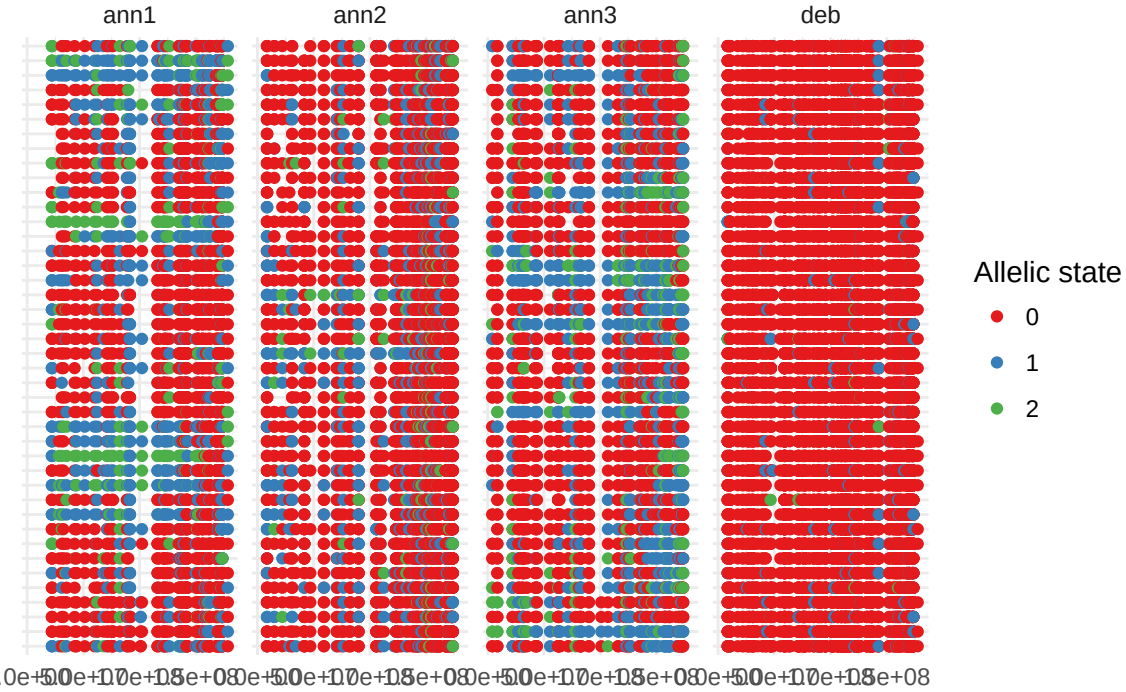
BFL 11 HanXRQChr02



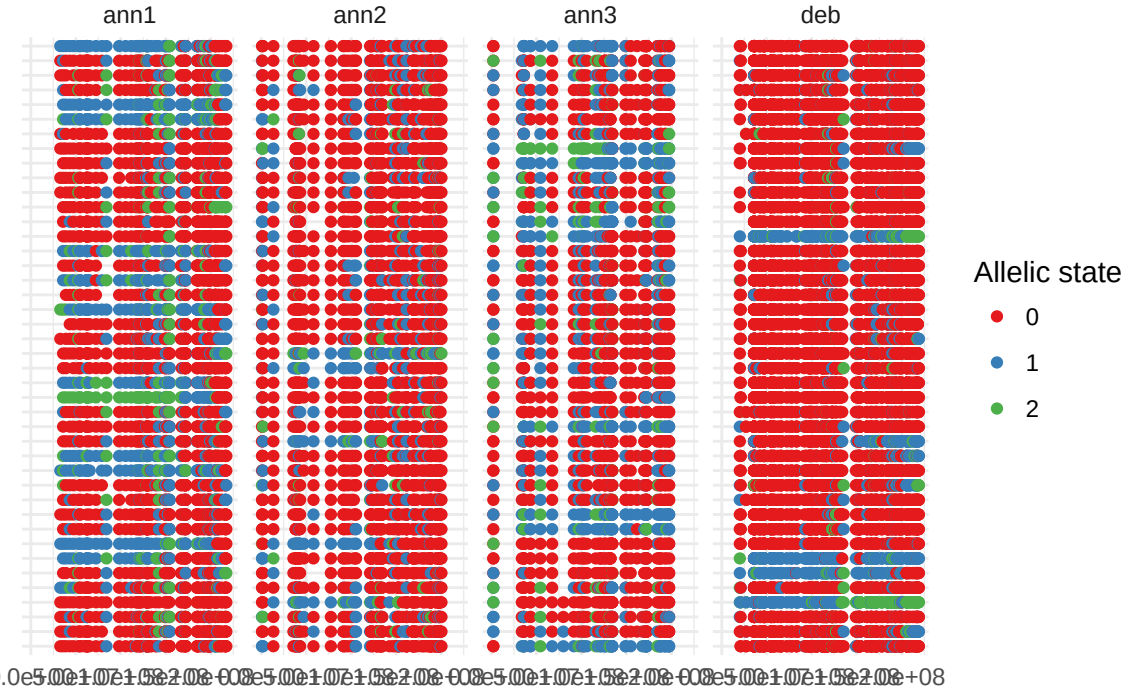
BFL 11 HanXRQChr03



BFL 11 HanXRQChr04



BFL 11 HanXRQChr05



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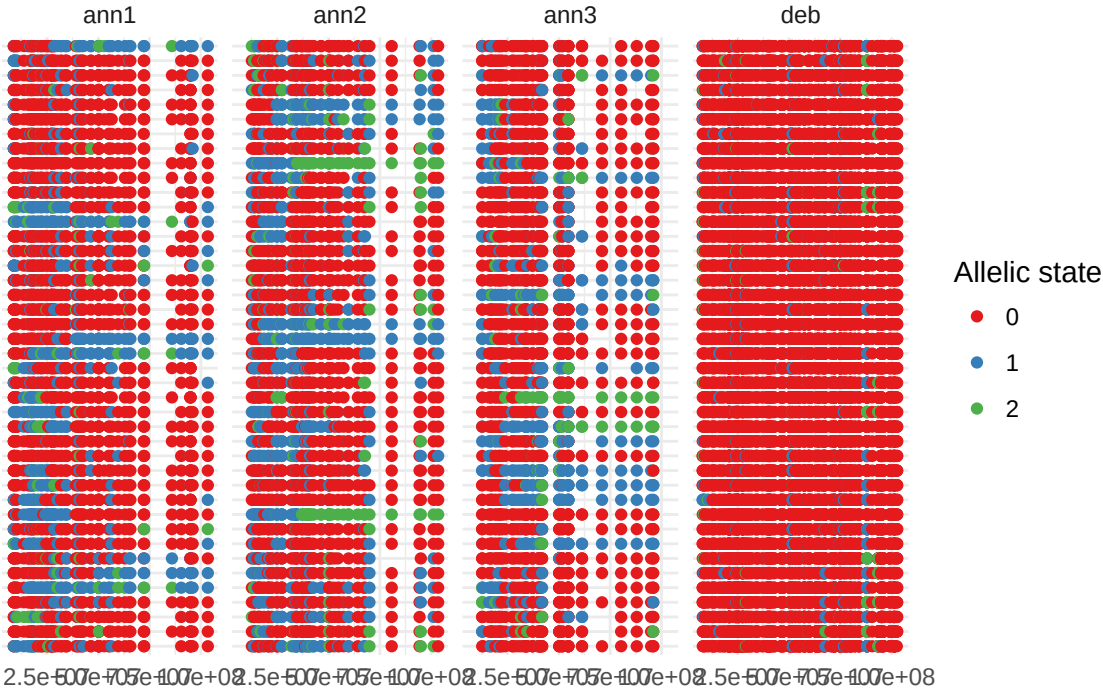

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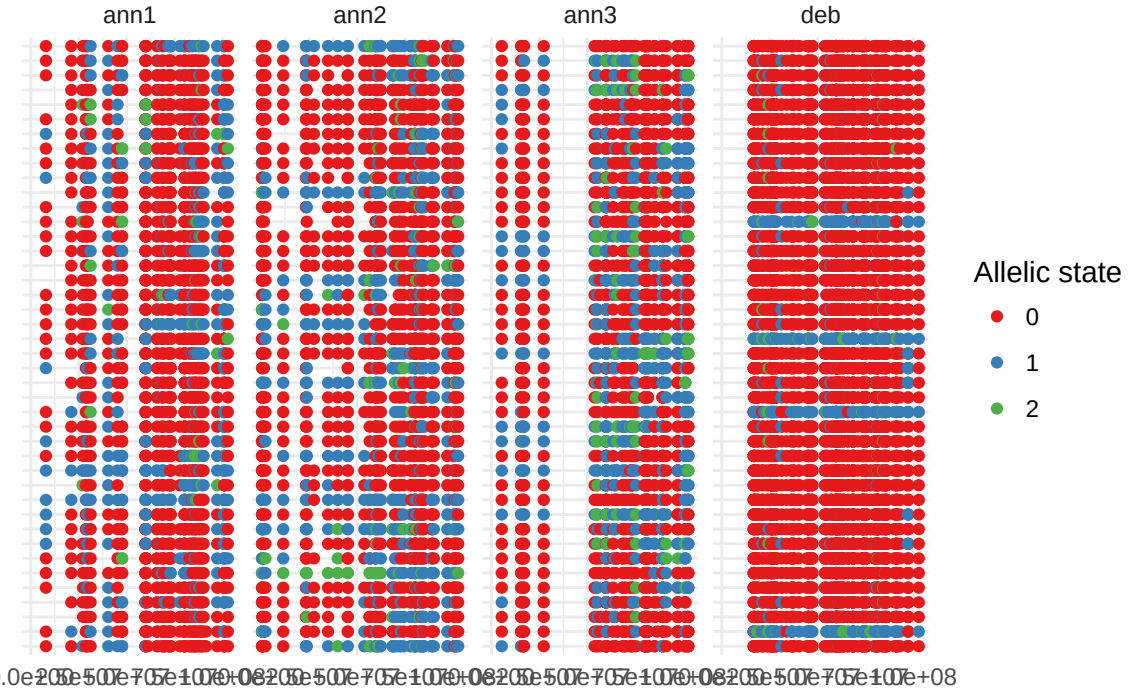
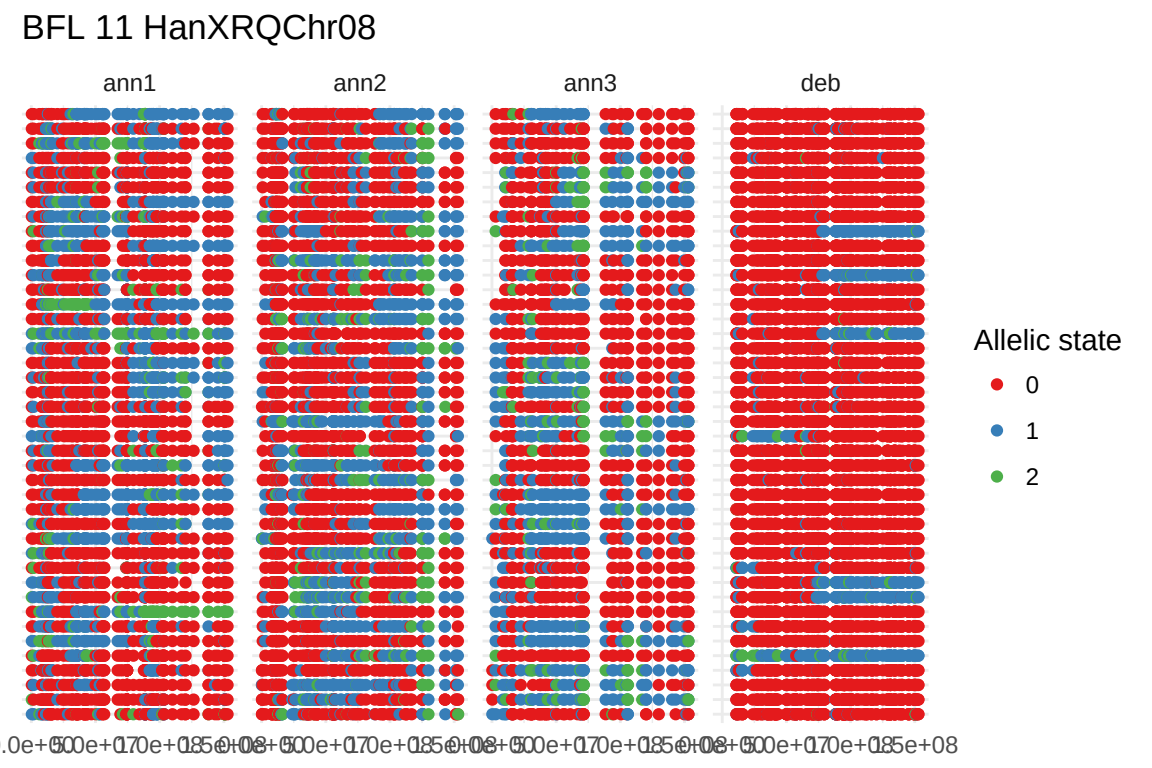
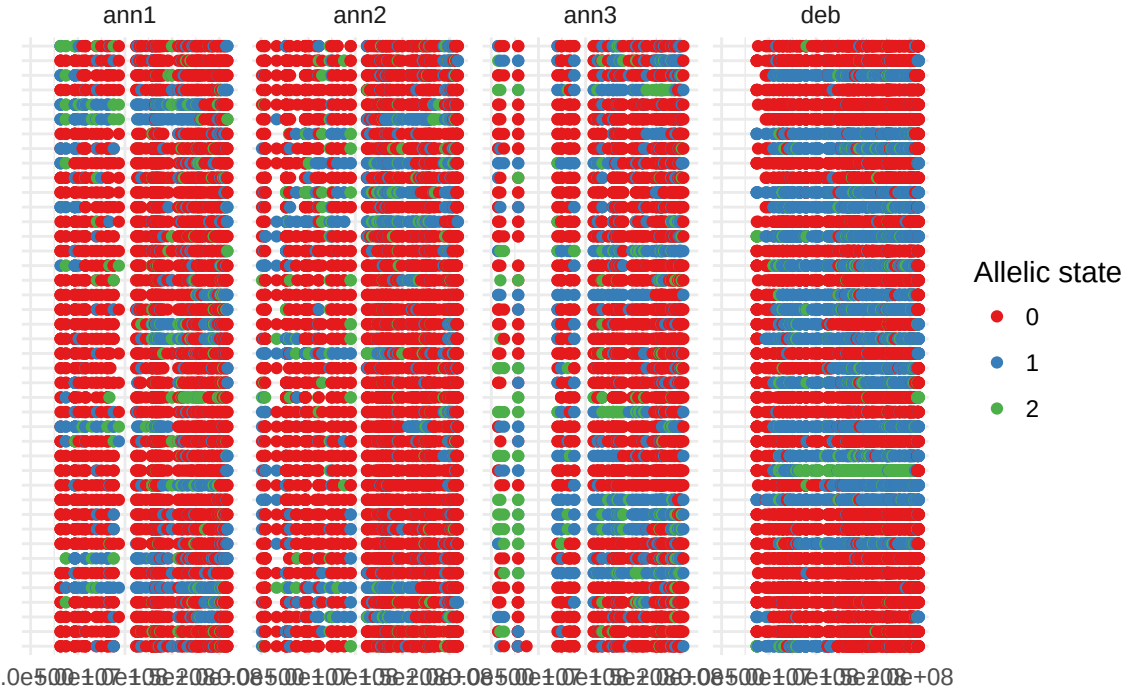
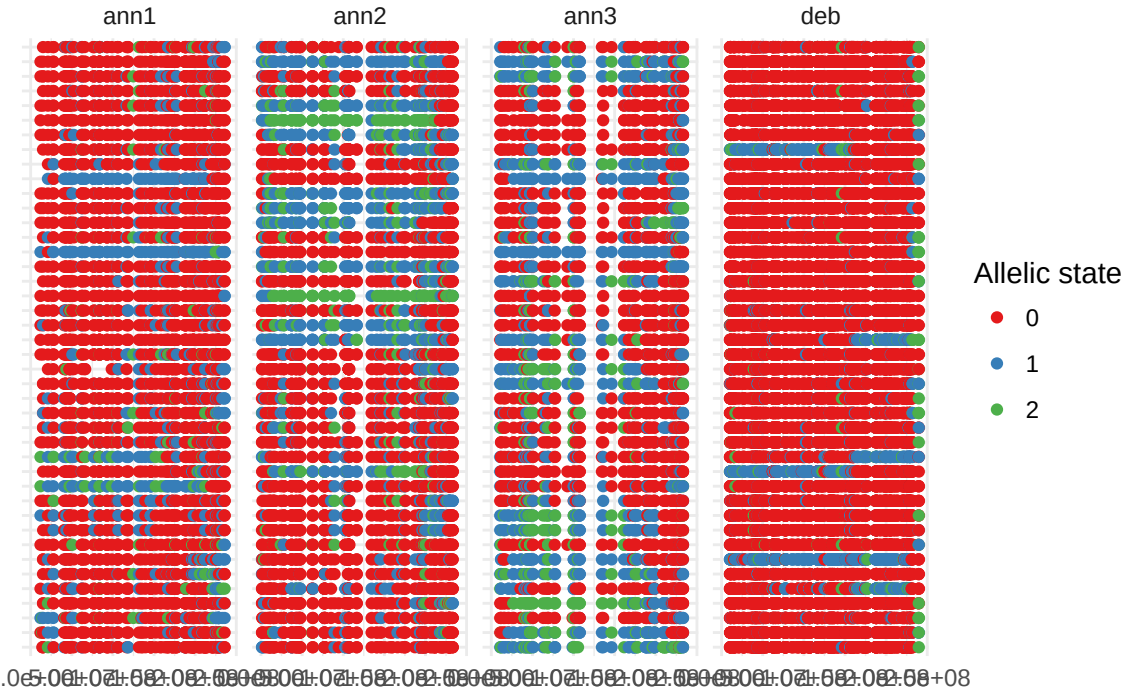



BFL 11 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
0
1
2

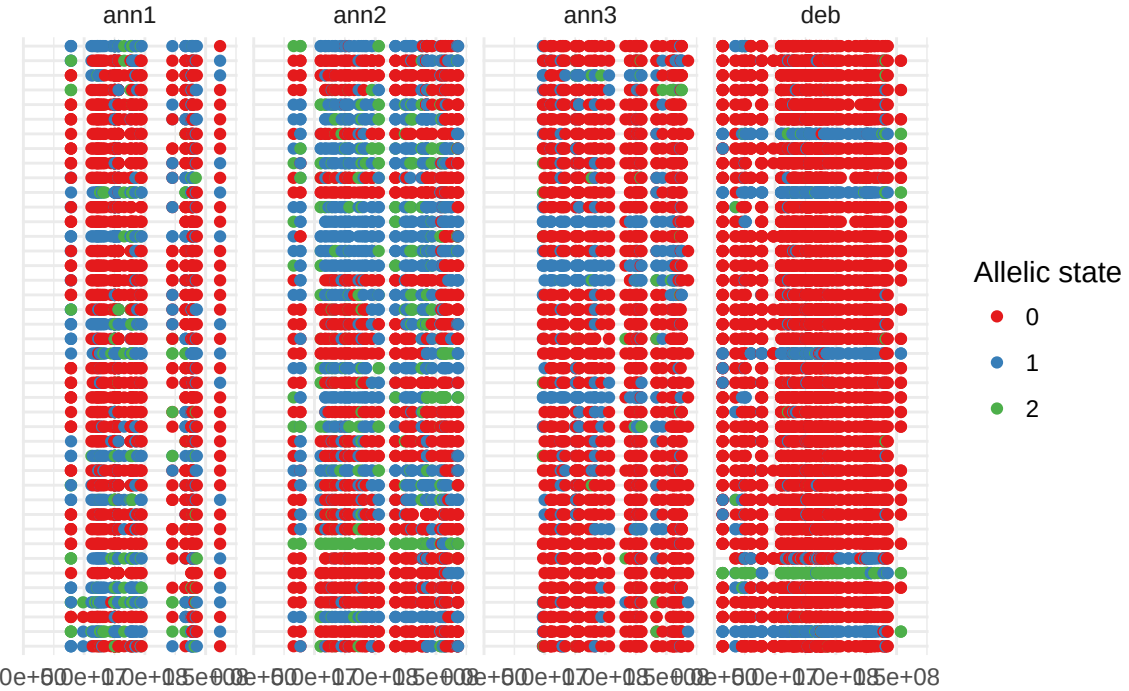
BFL 11 HanXRQChr09



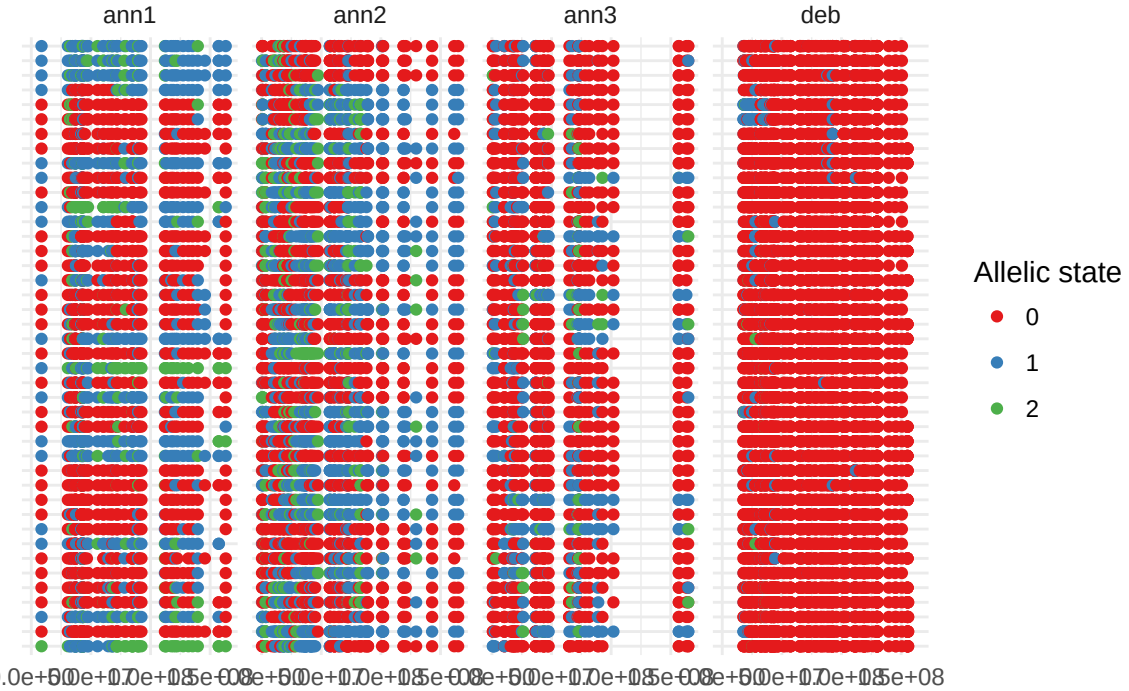
BFL 11 HanXRQChr10

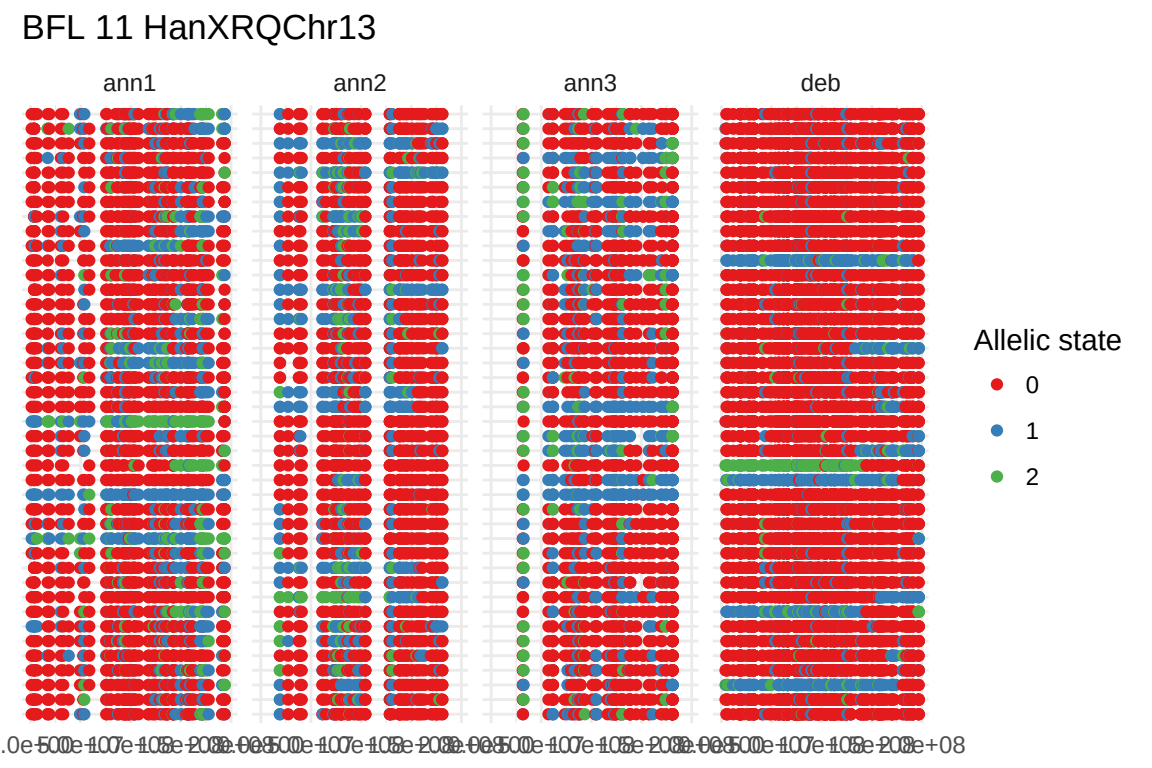


BFL 11 HanXRQChr11

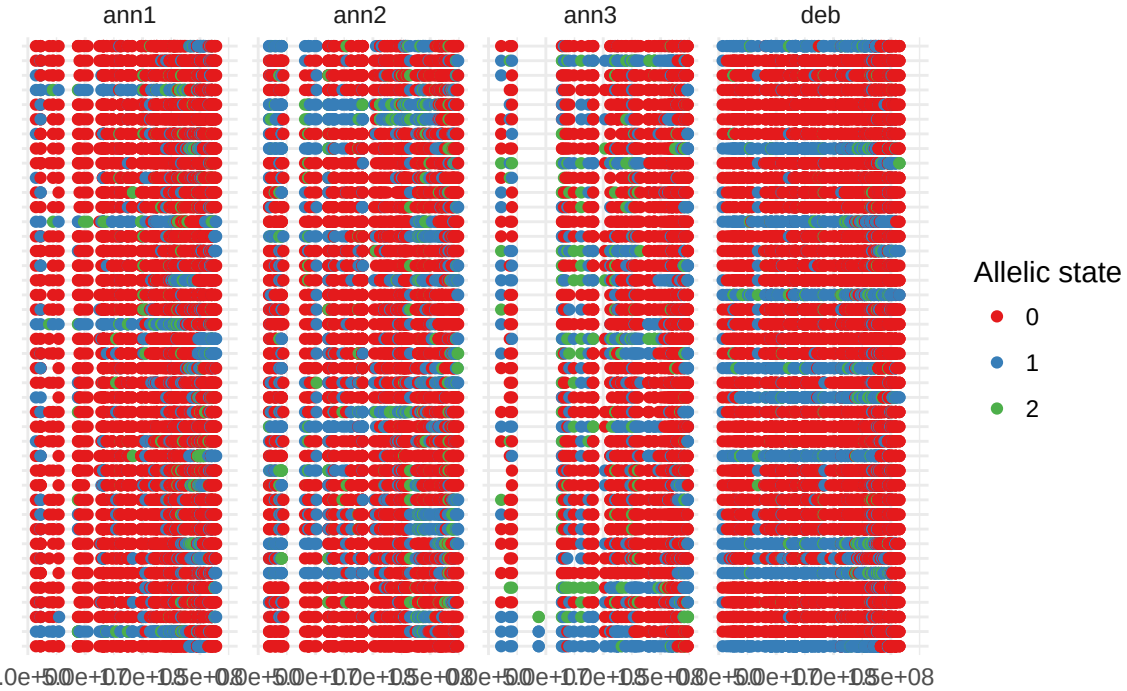


BFL 11 HanXRQChr12

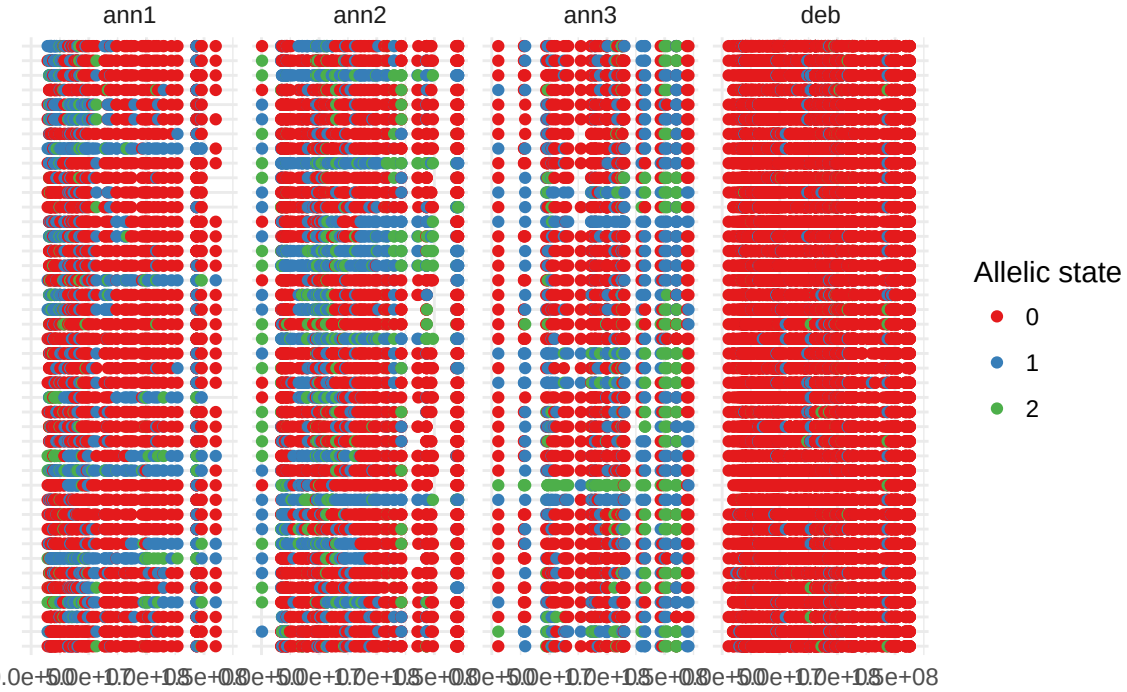



BFL 11 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2

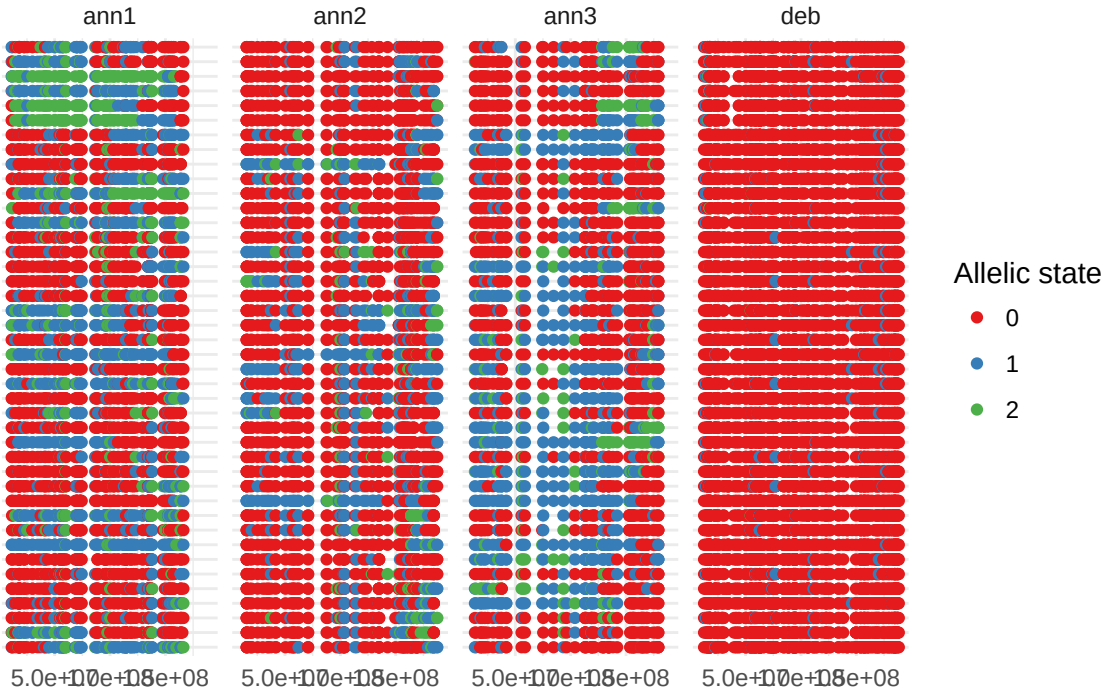
BFL 11 HanXRQChr14

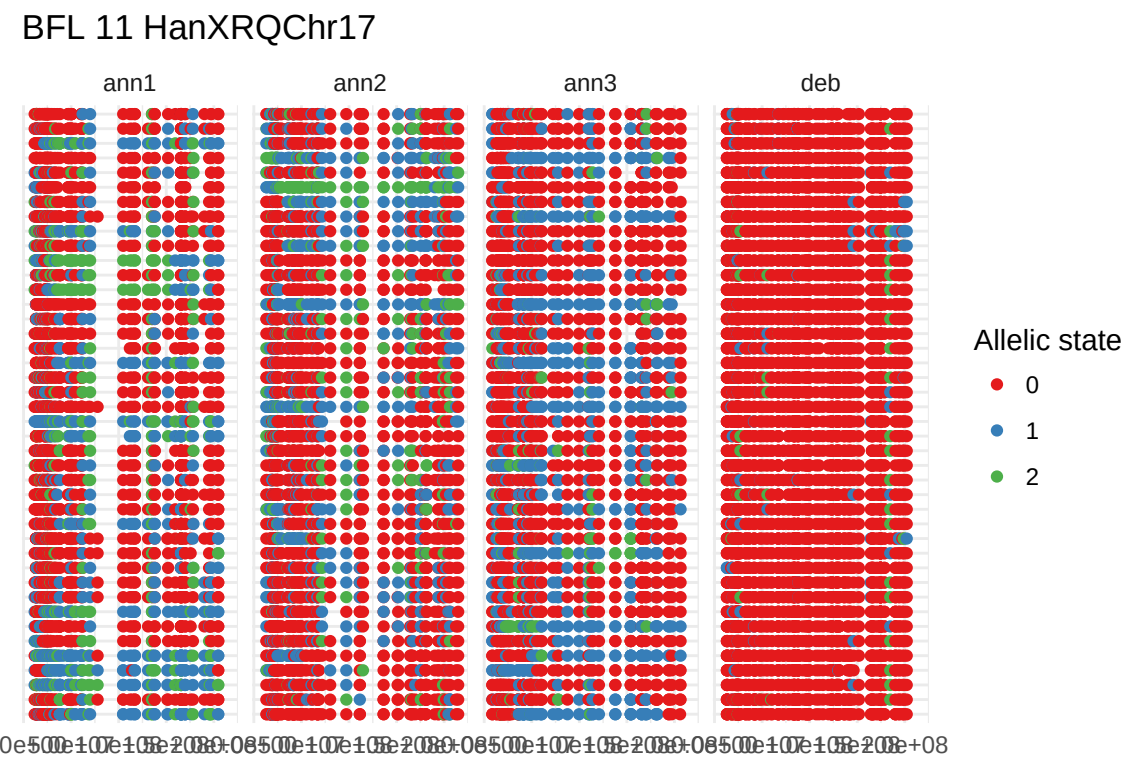


BFL 11 HanXRQChr15

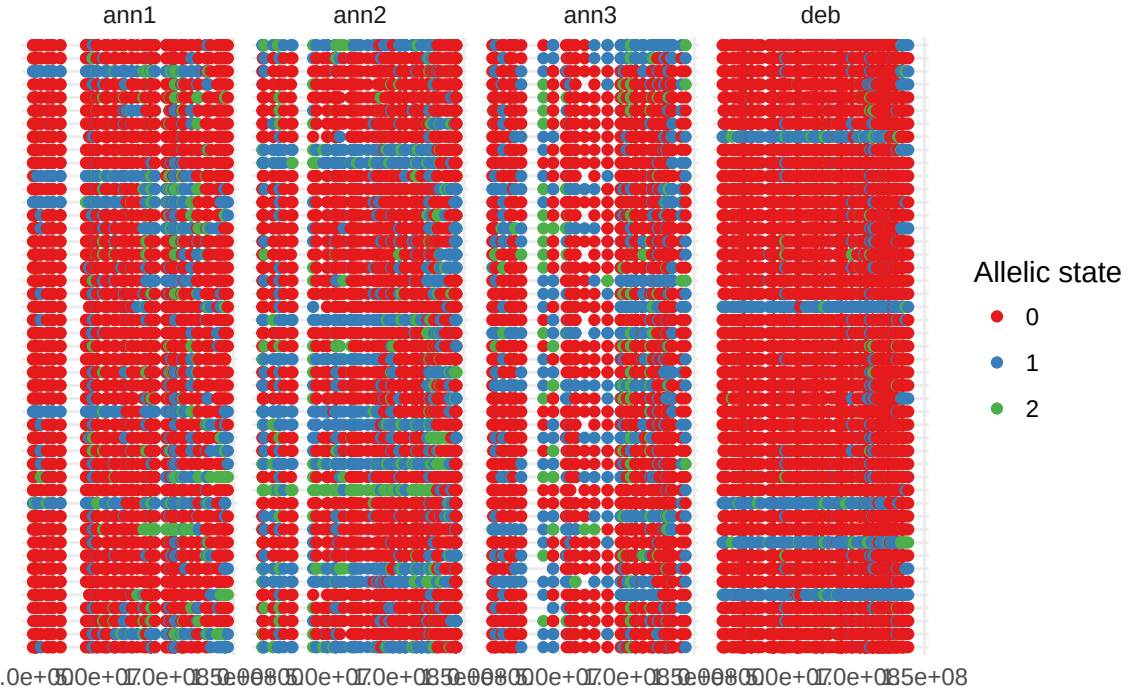


BFL 11 HanXRQChr16

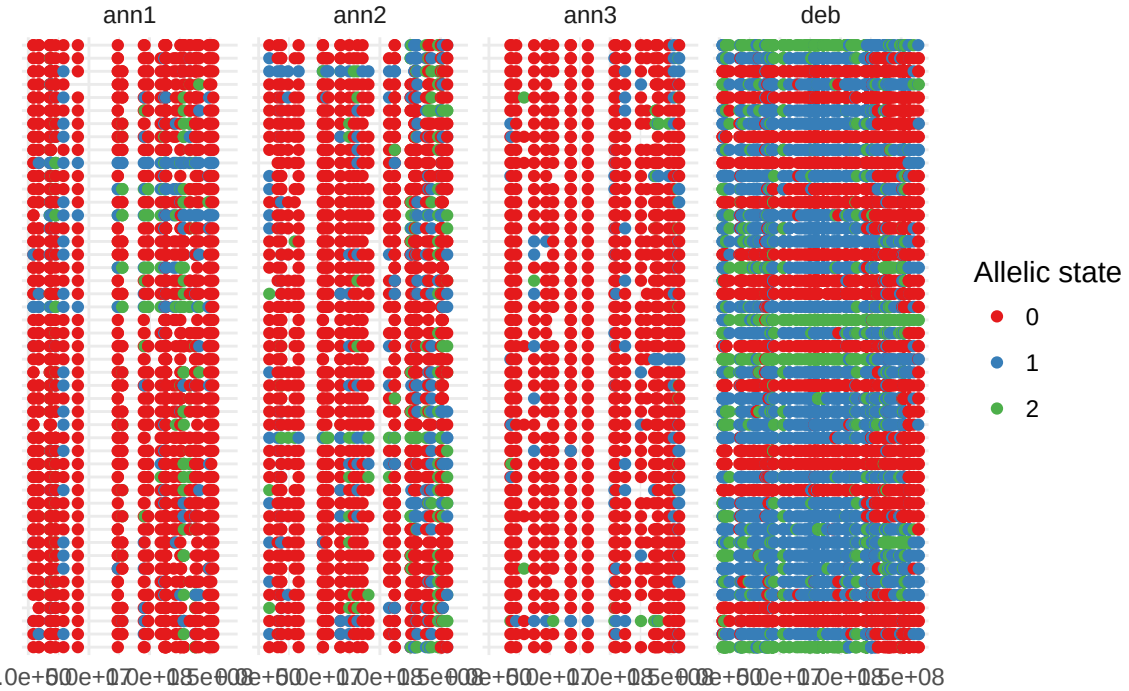


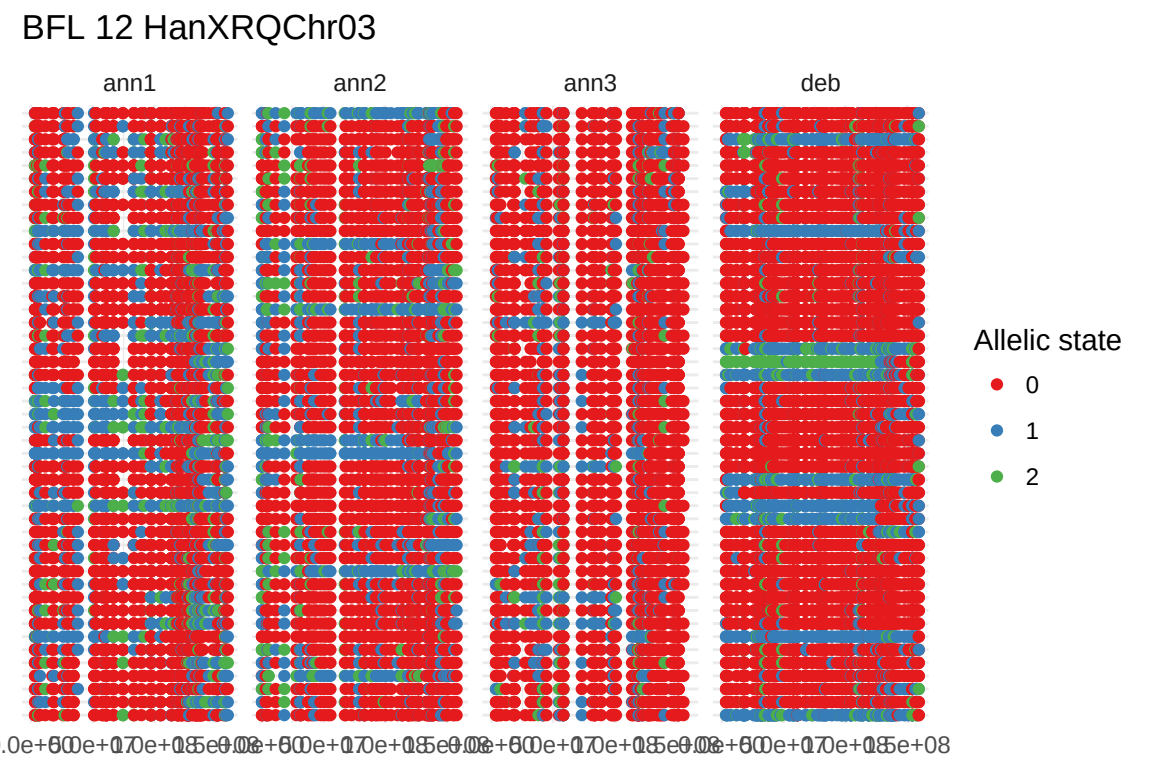

BFL 11 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

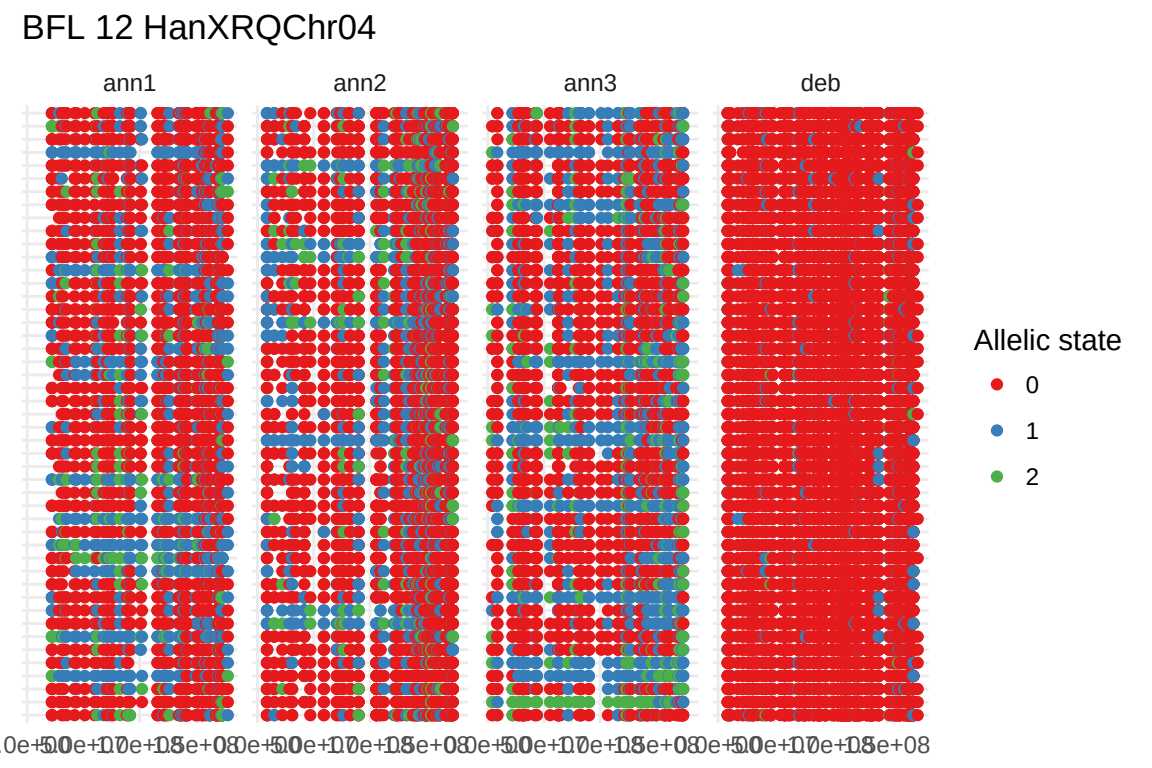
BFL 12 HanXRQChr01



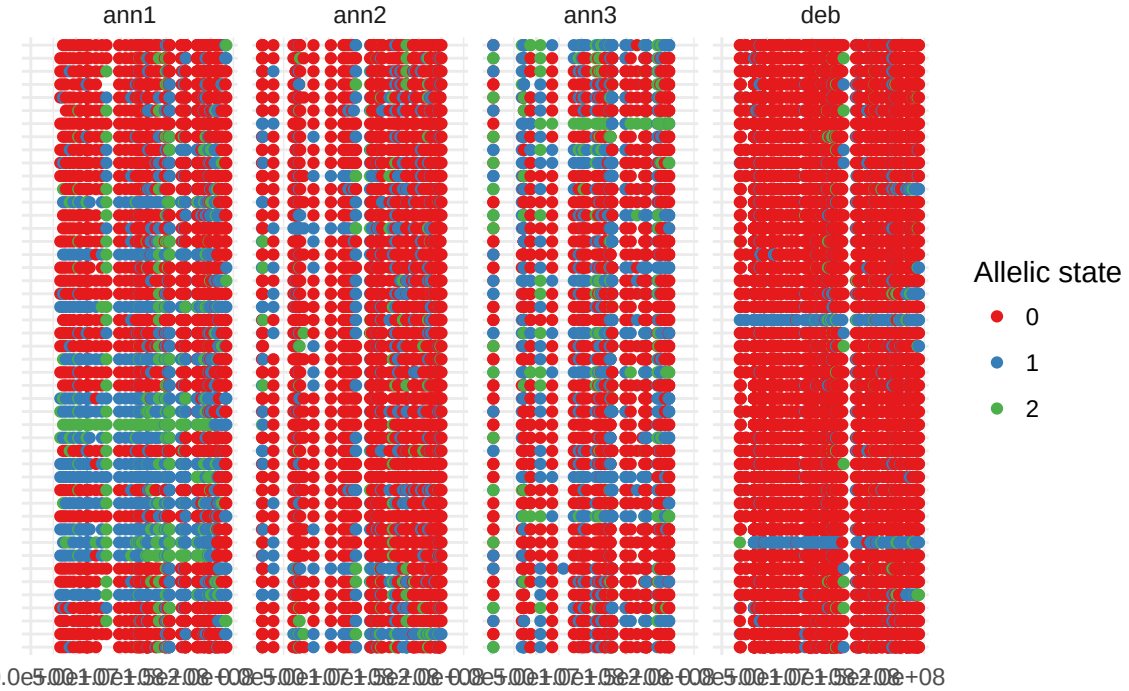
BFL 12 HanXRQChr02



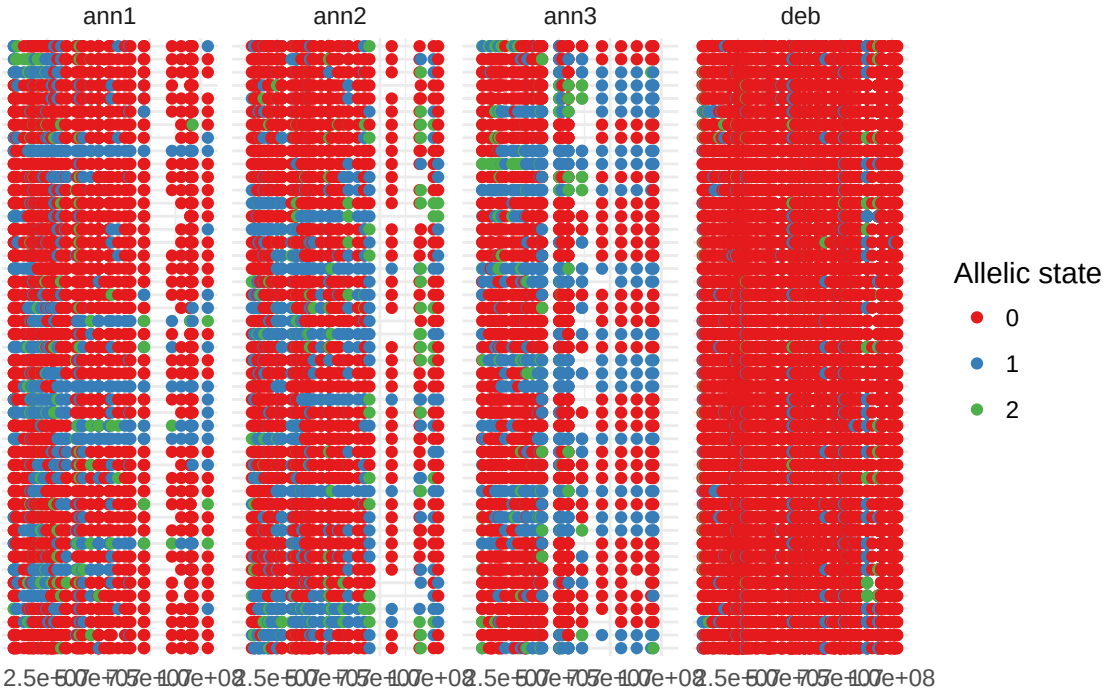

BFL 12 HanXRQChr03
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 12 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2

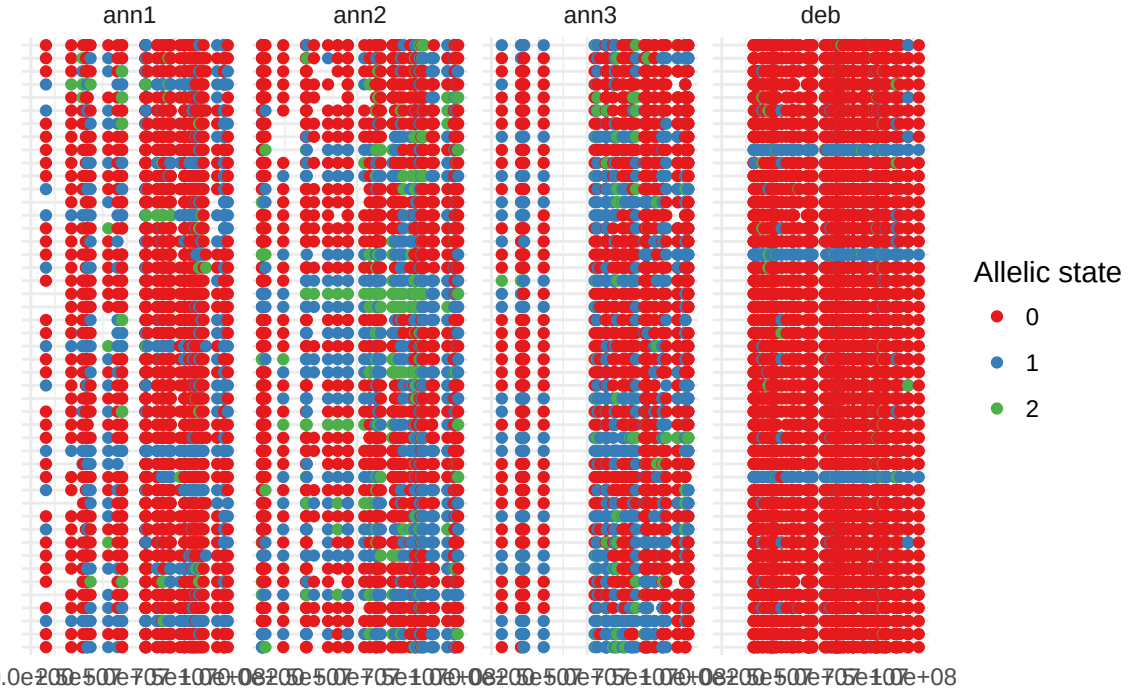
BFL 12 HanXRQChr05



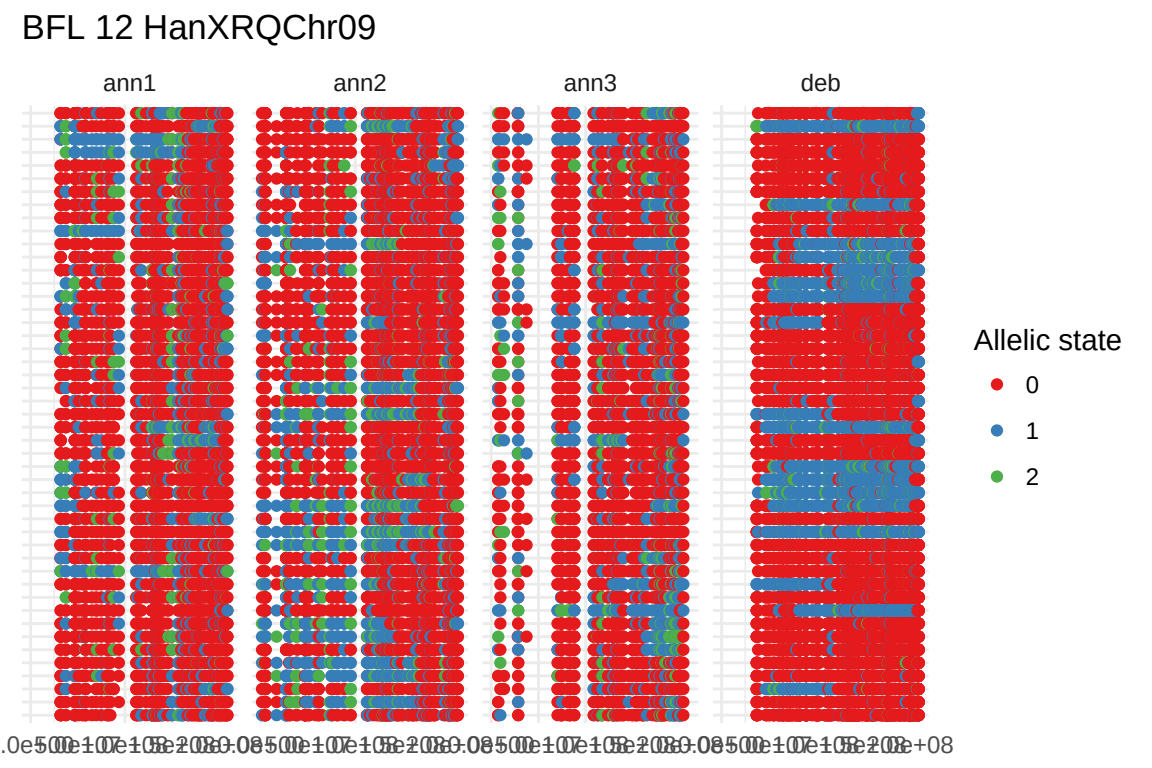
BFL 12 HanXRQChr06



BFL 12 HanXRQChr07



BFL 12 HanXRQChr08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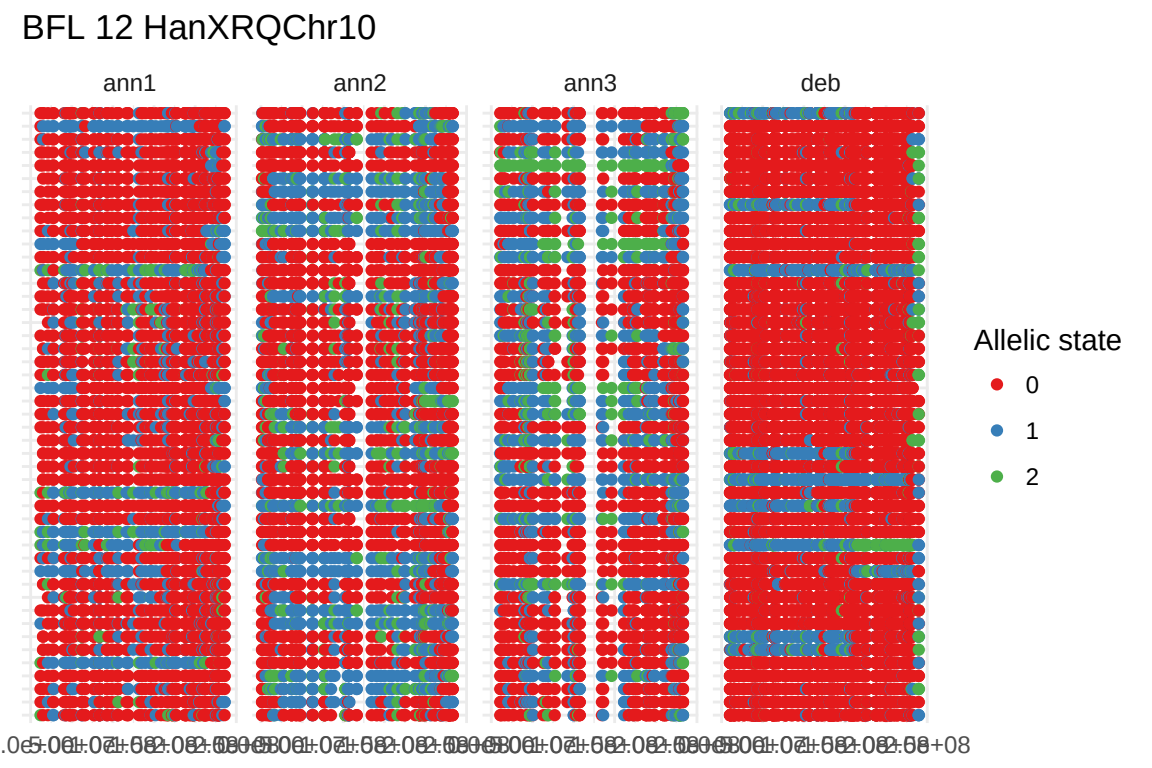
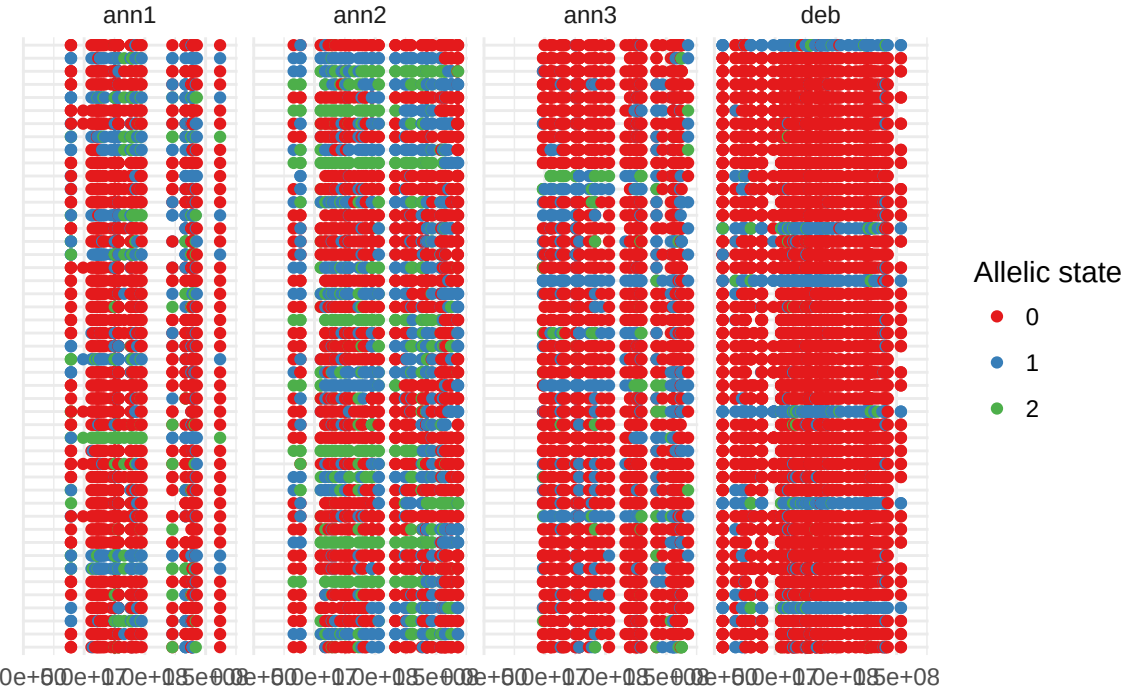
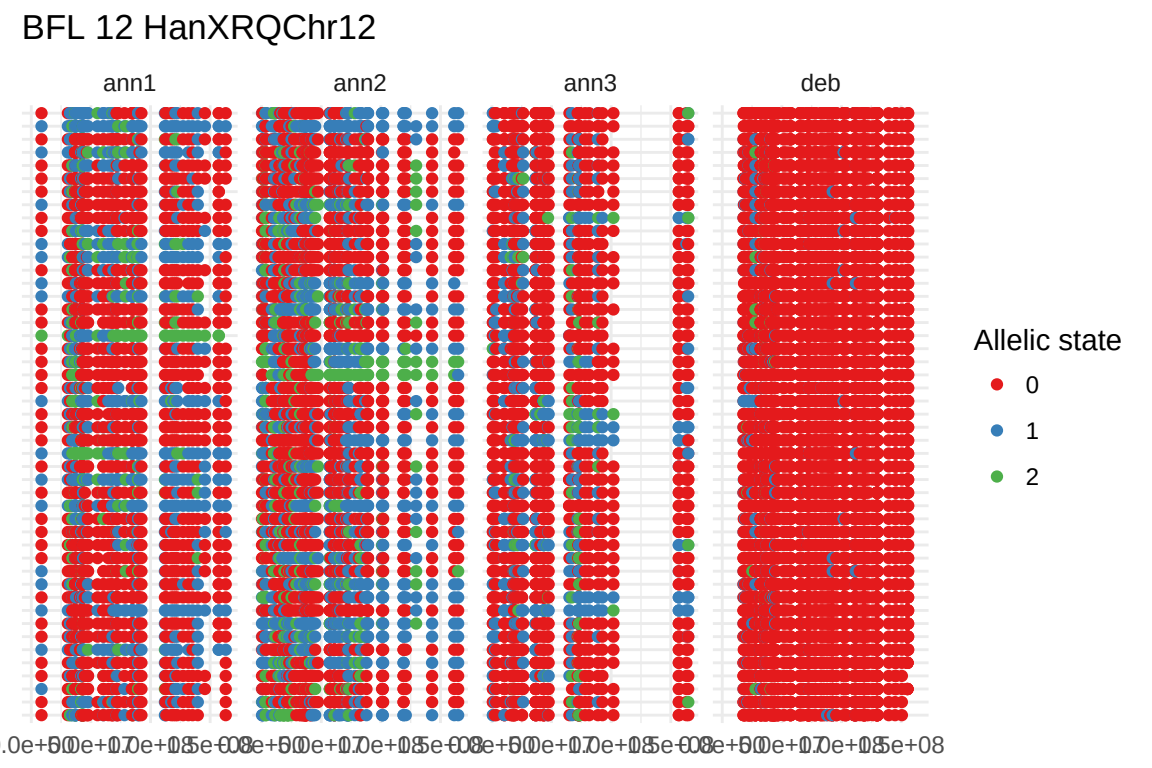
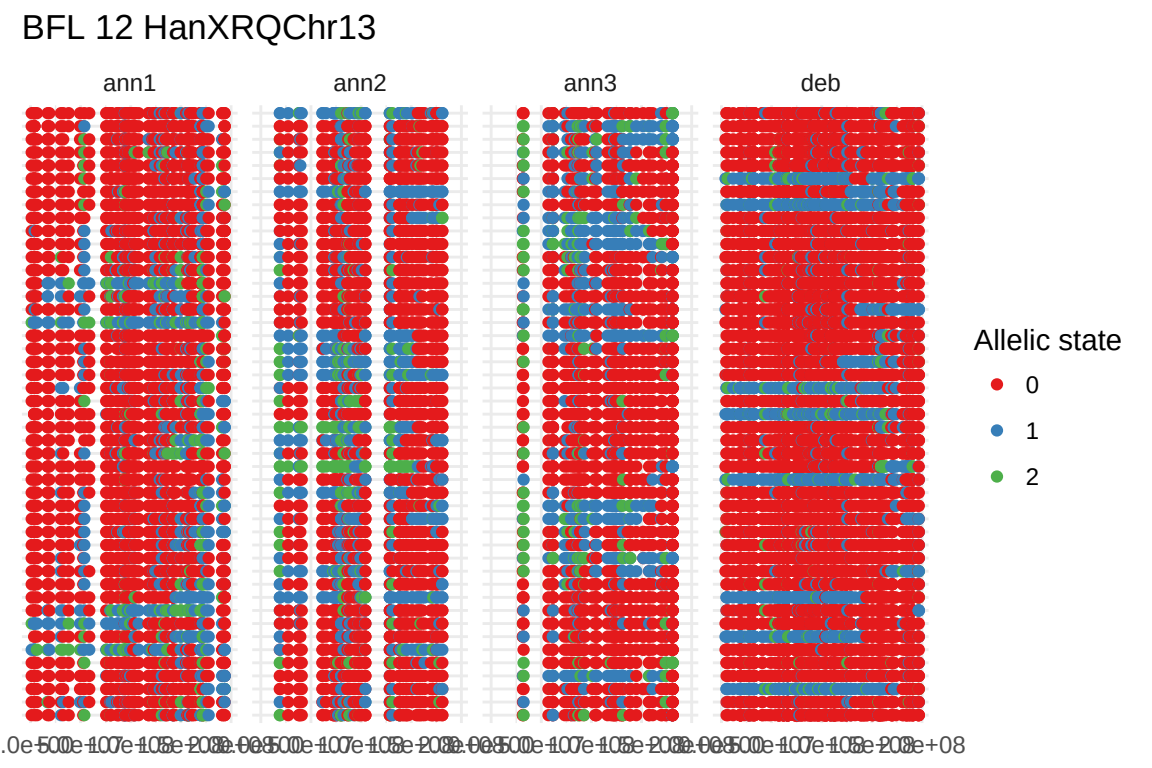
ann1
ann2
ann3
deb
Allelic state
0
1
2

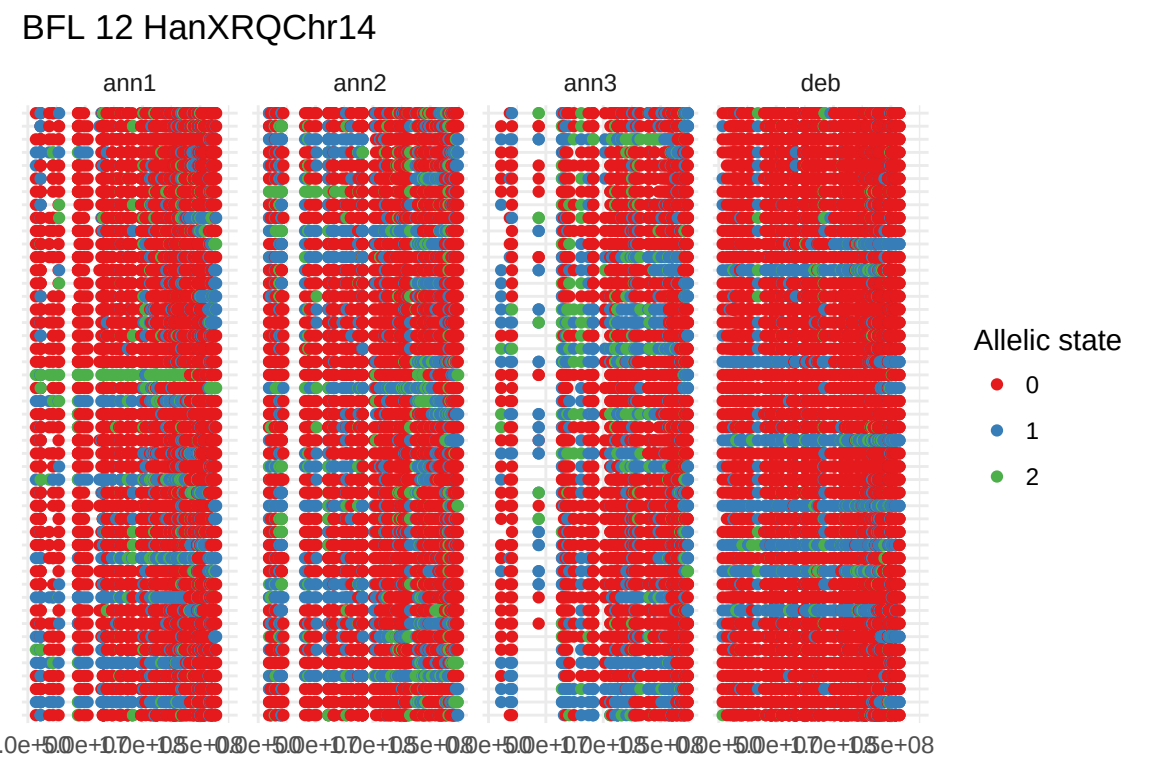

BFL 12 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 12 HanXRQChr11




BFL 12 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 12 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2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ann2
ann3
deb
Allelic state
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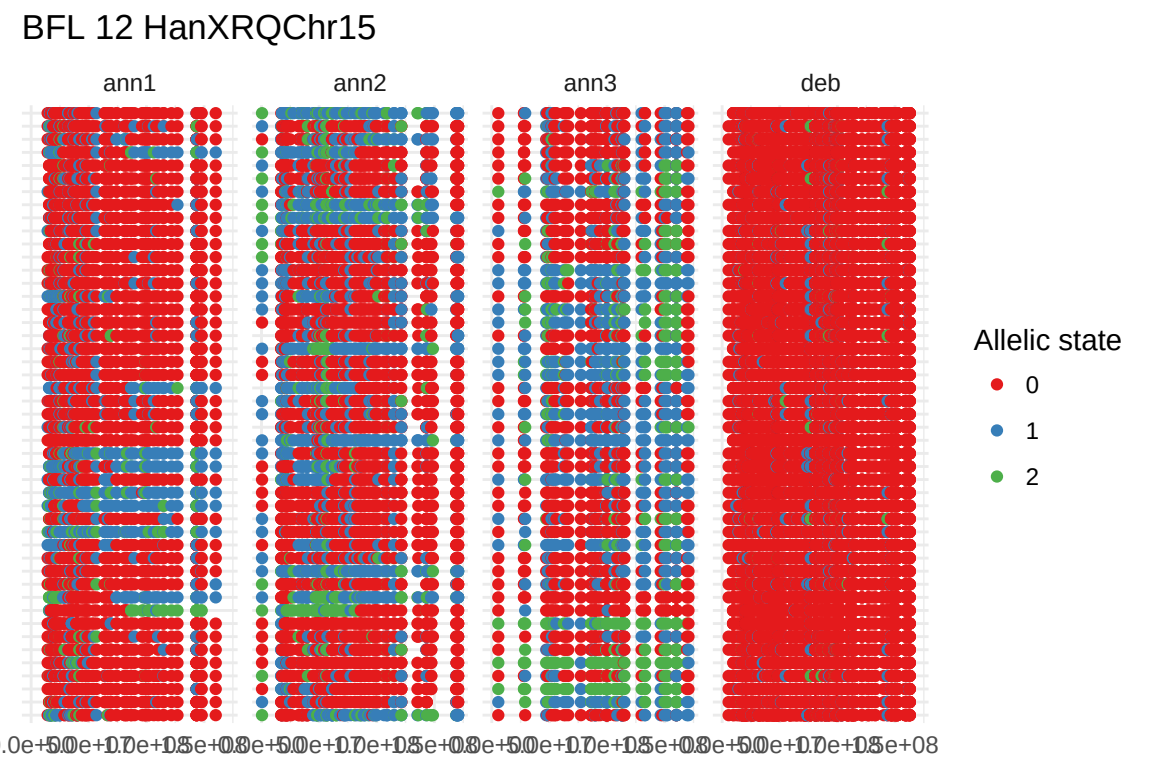
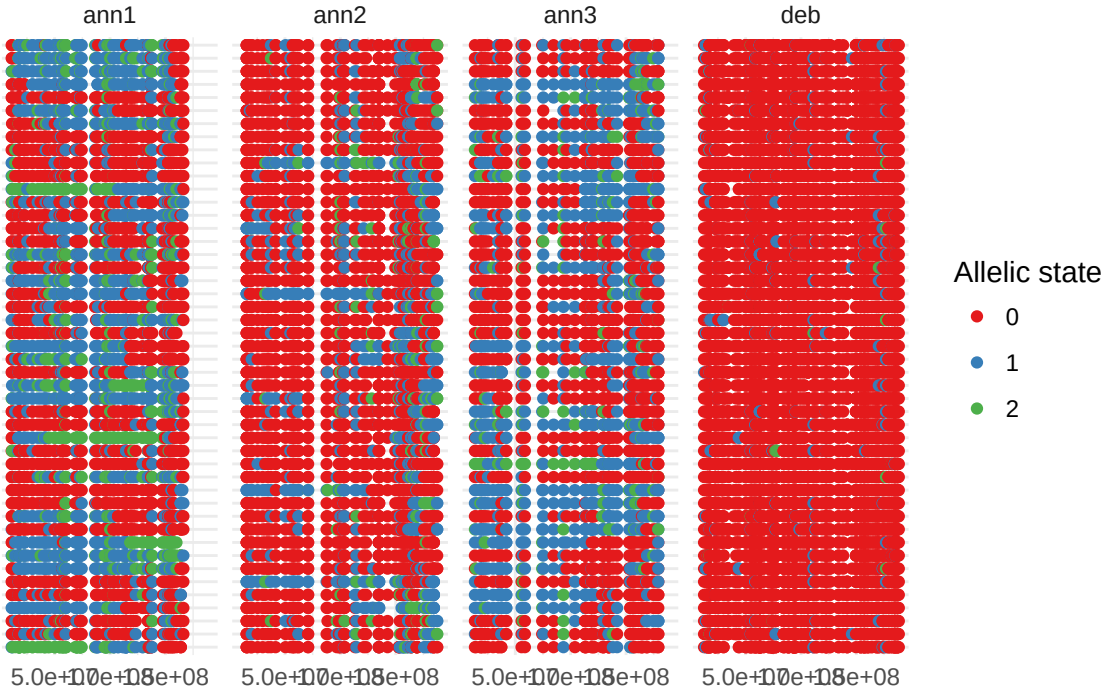
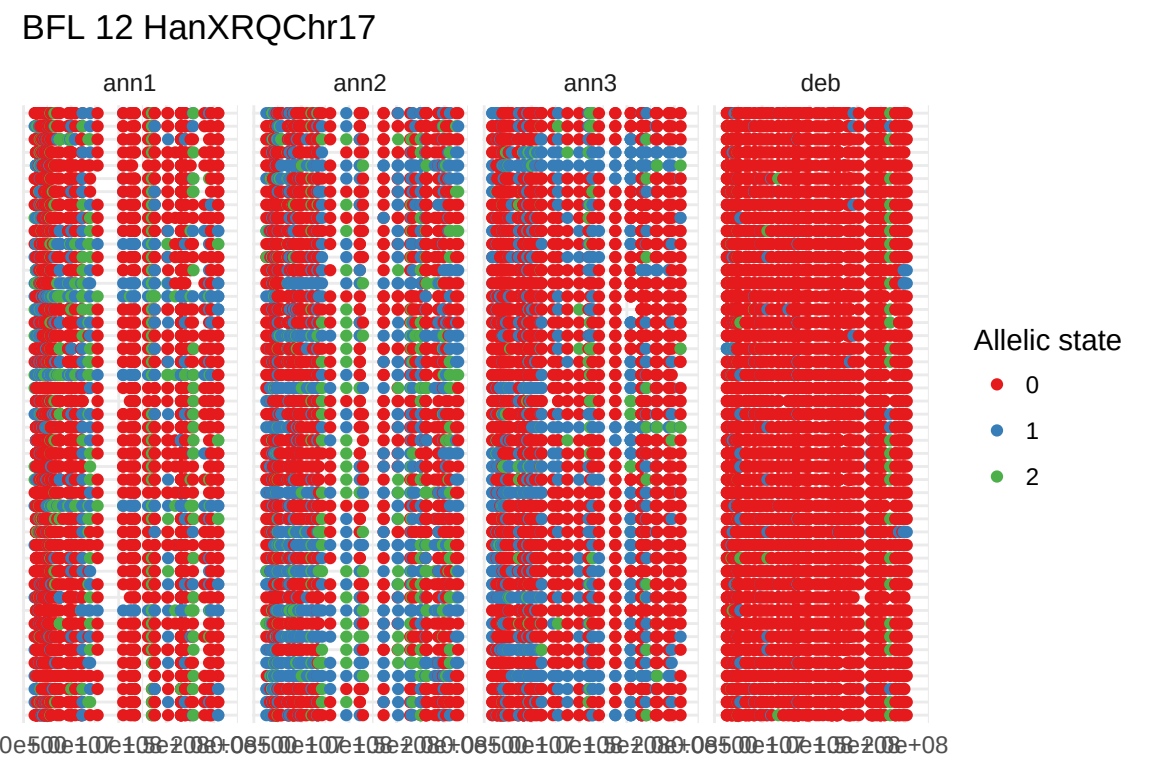
1
2


BFL 12 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+08

BFL 12 HanXRQChr16

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ann1
ann2
ann3
deb
Allelic state
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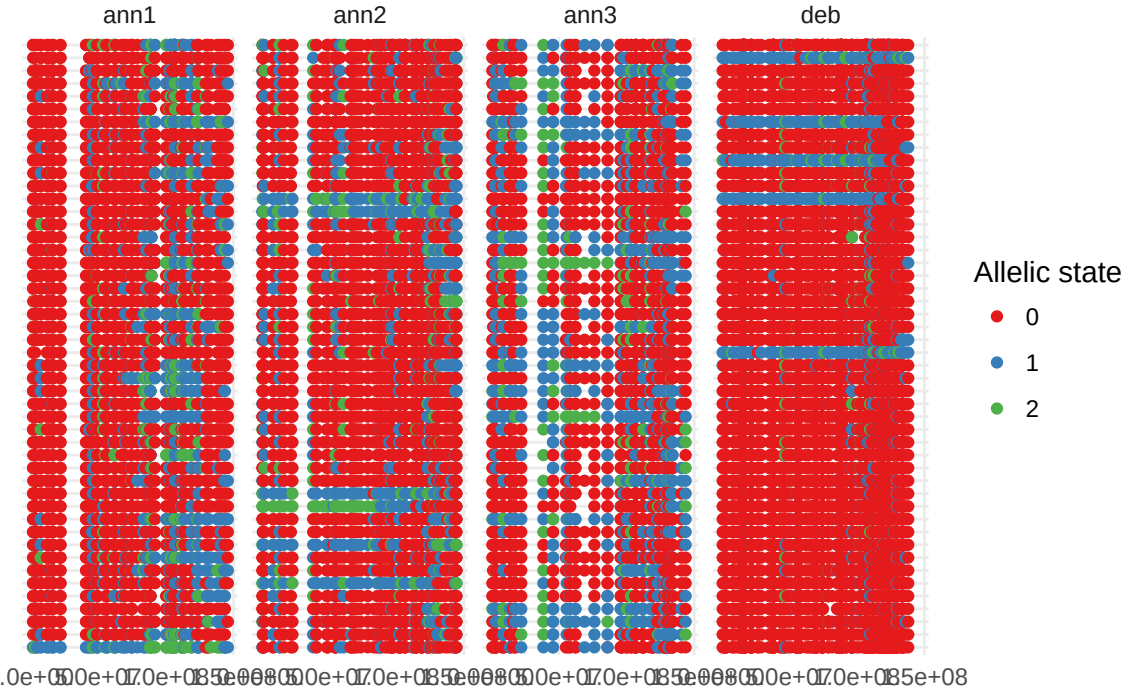
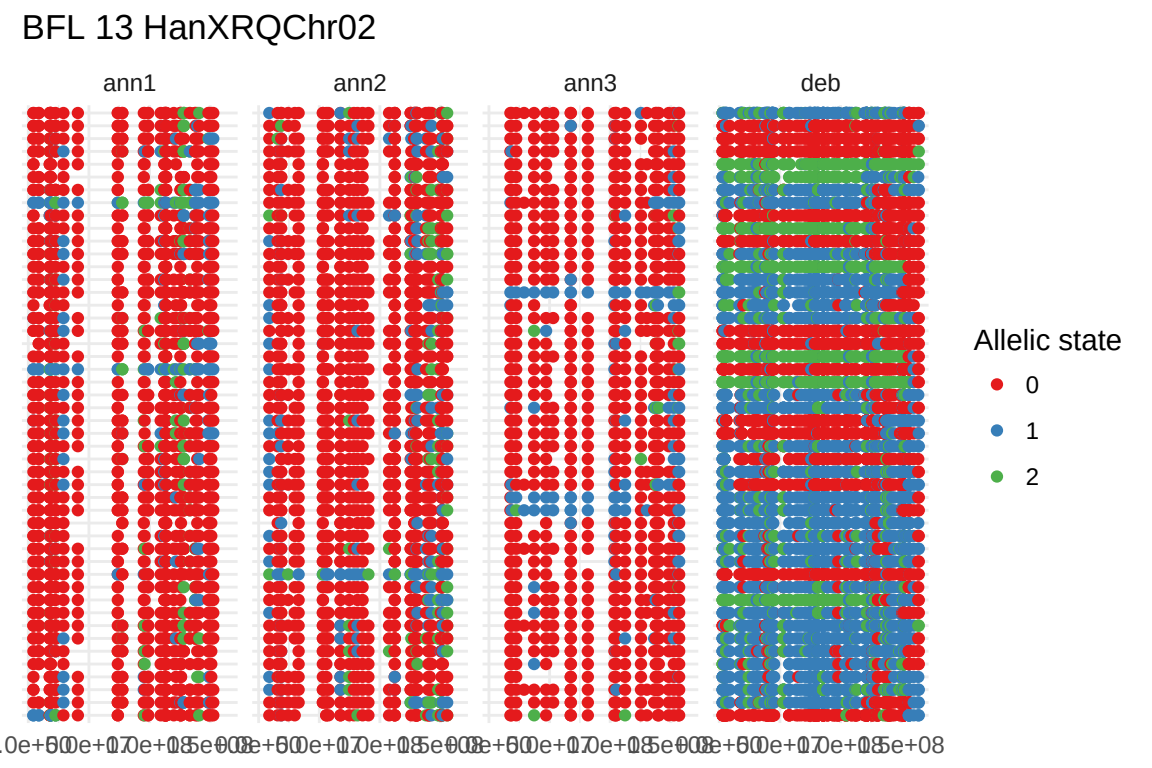
1
2

BFL 13 HanXRQChr01

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ann2
ann3
deb
Allelic state
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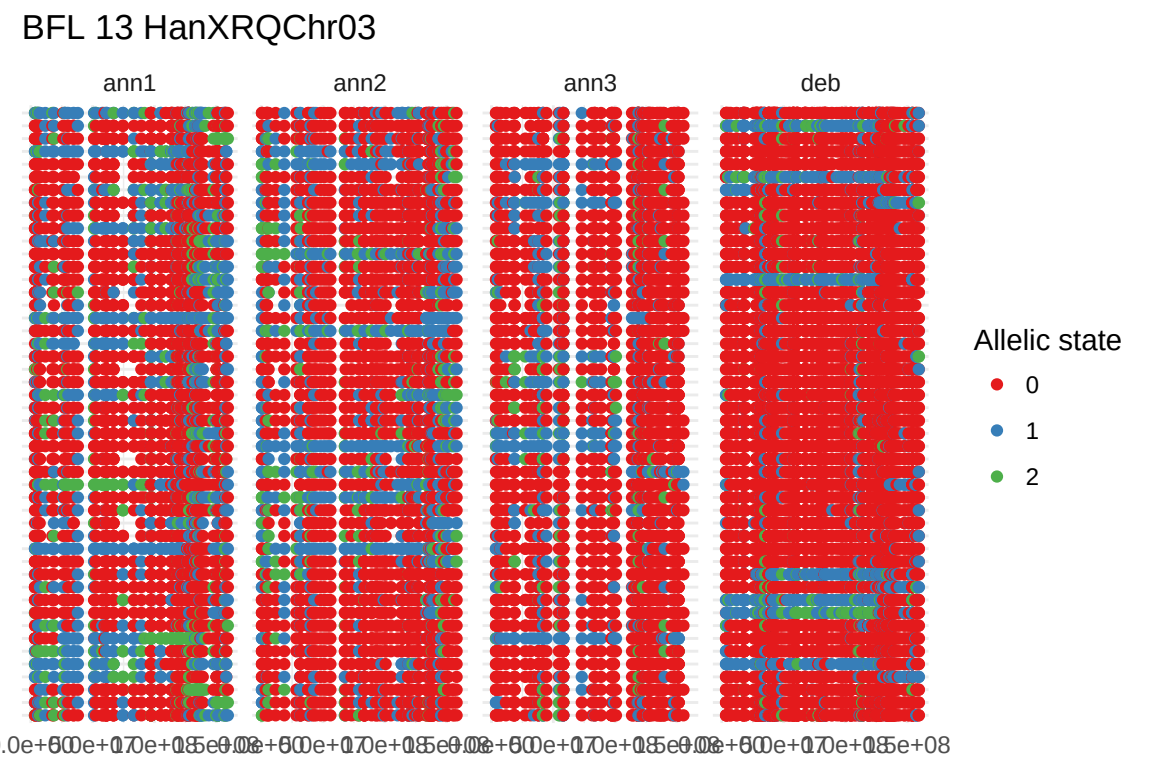
1
2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Allelic state
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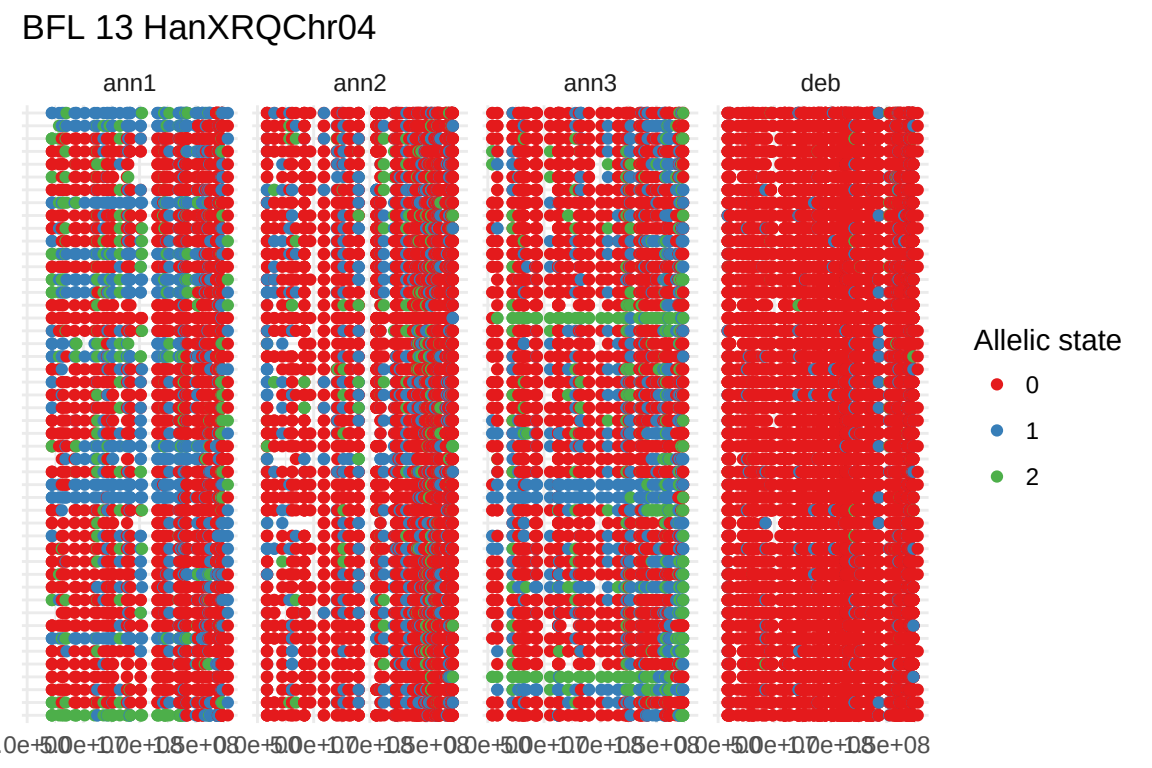
1
2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ann2
ann3
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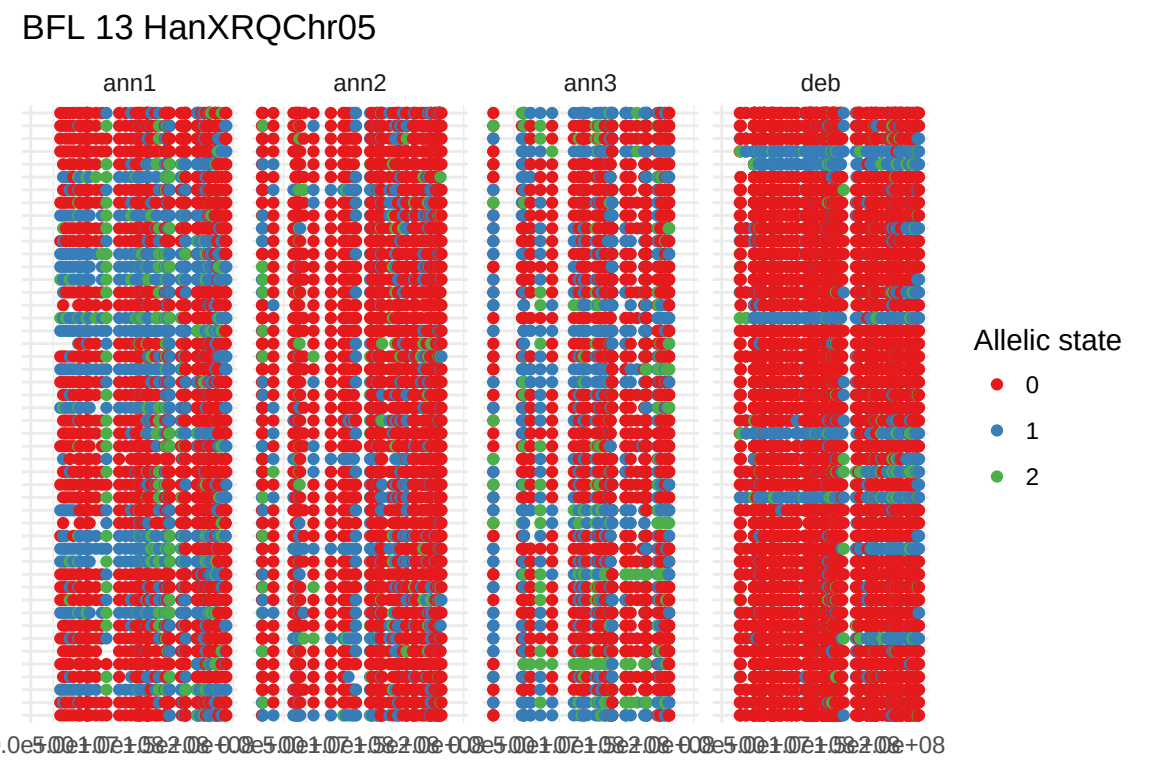
1
2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ann3
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Allelic state
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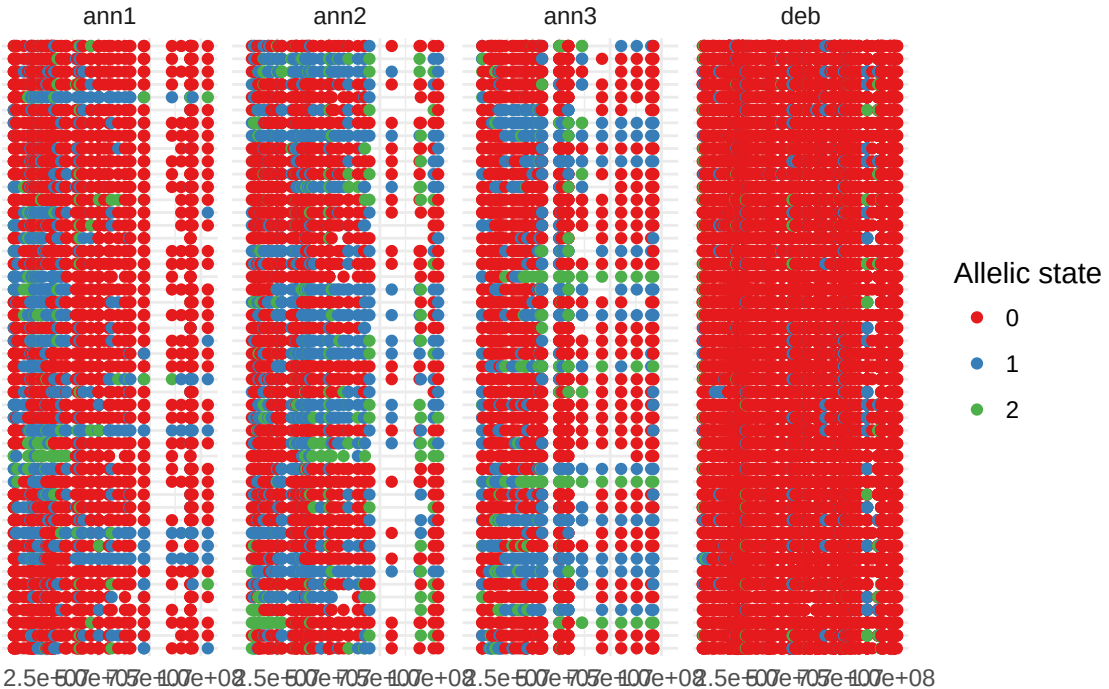
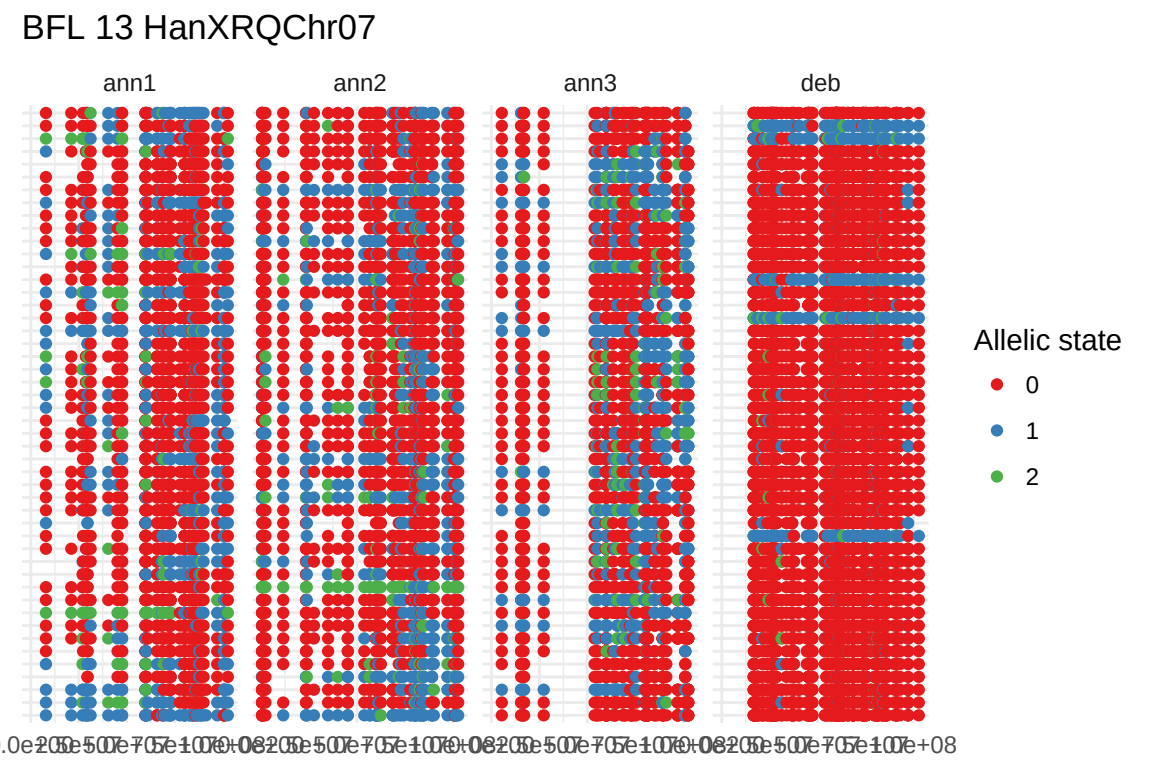
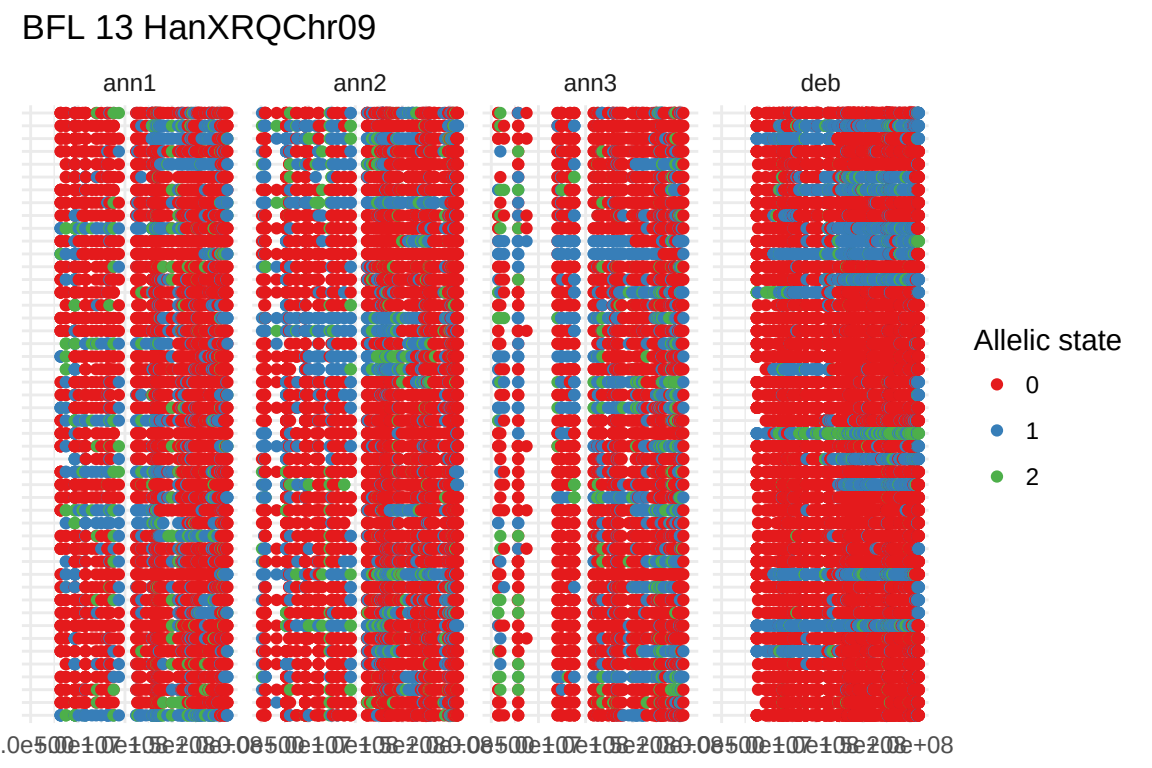
1
2

BFL 13 HanXRQChr06

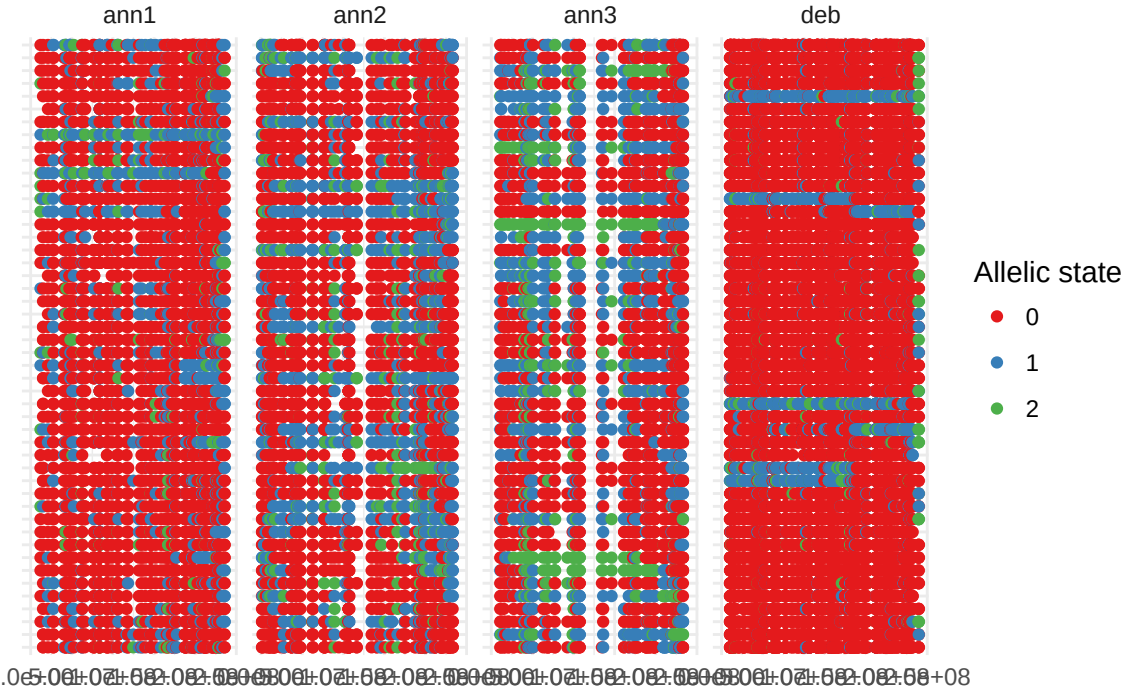



BFL 13 HanXRQChr07
ann1
ann2
ann3
deb
Allelic state
0
1
2

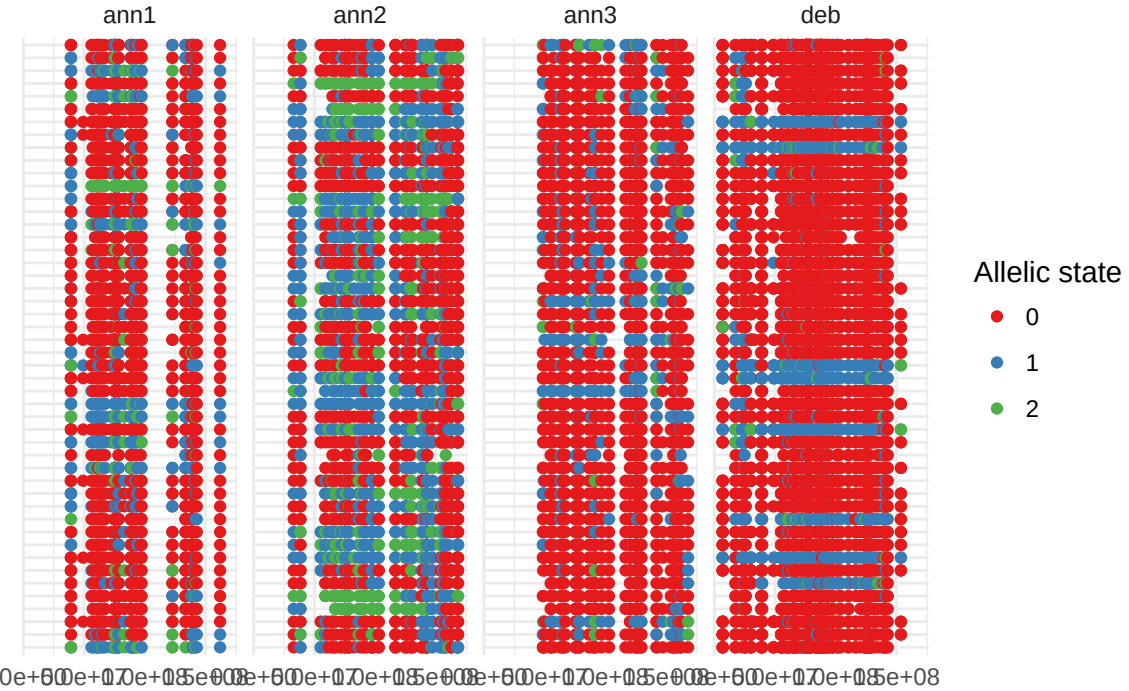
BFL 13 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 13 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 13 HanXRQChr10



BFL 13 HanXRQChr11



BFL 13 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
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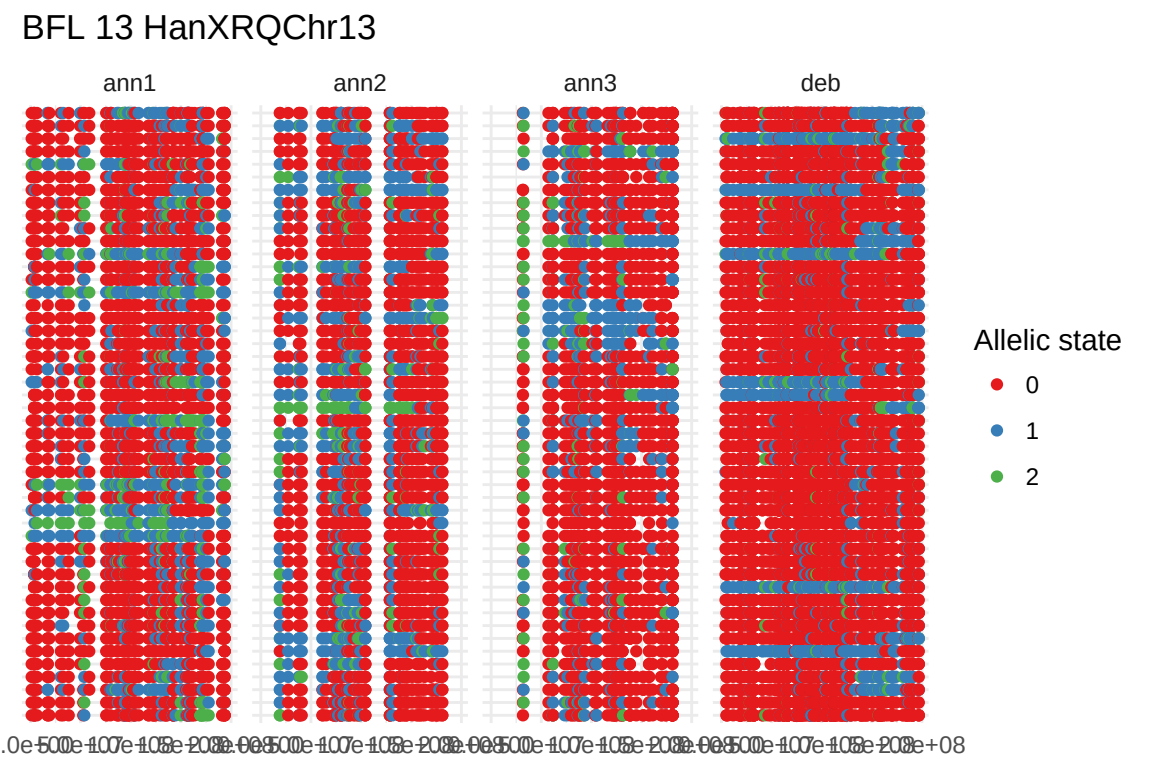
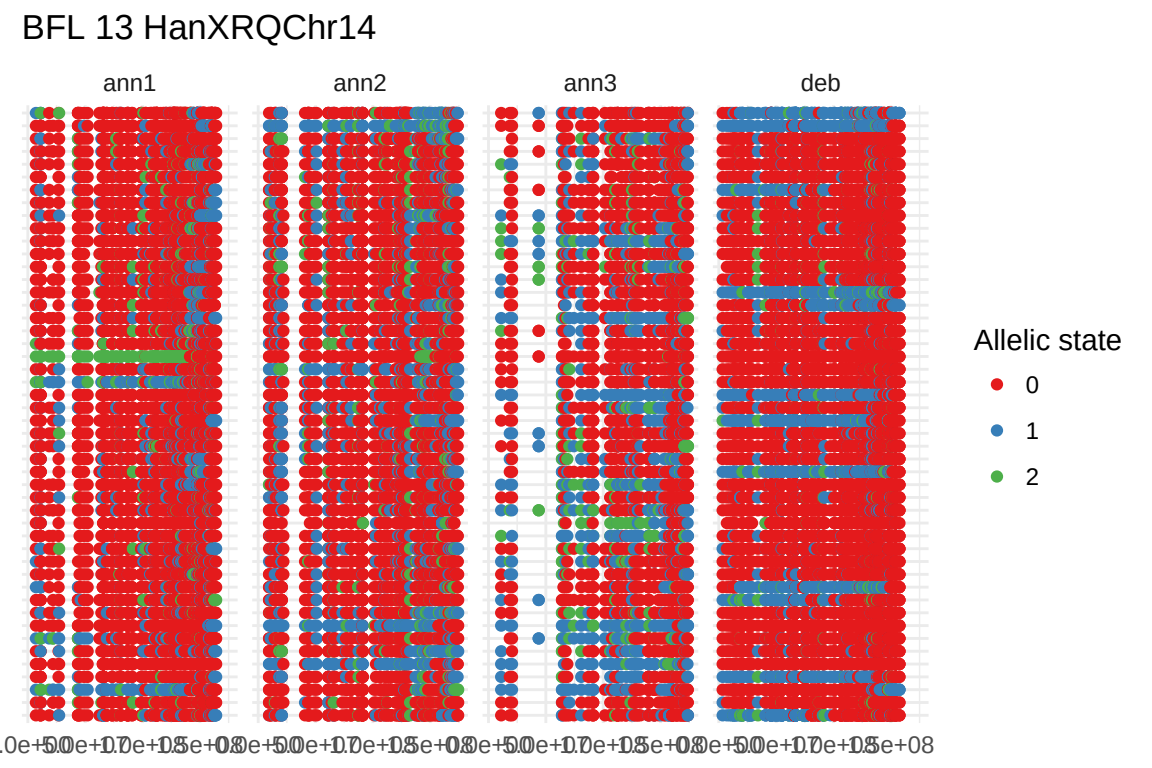
1
2


BFL 13 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2


BFL 13 HanXRQChr14
ann1
ann2
ann3
deb
Allelic state
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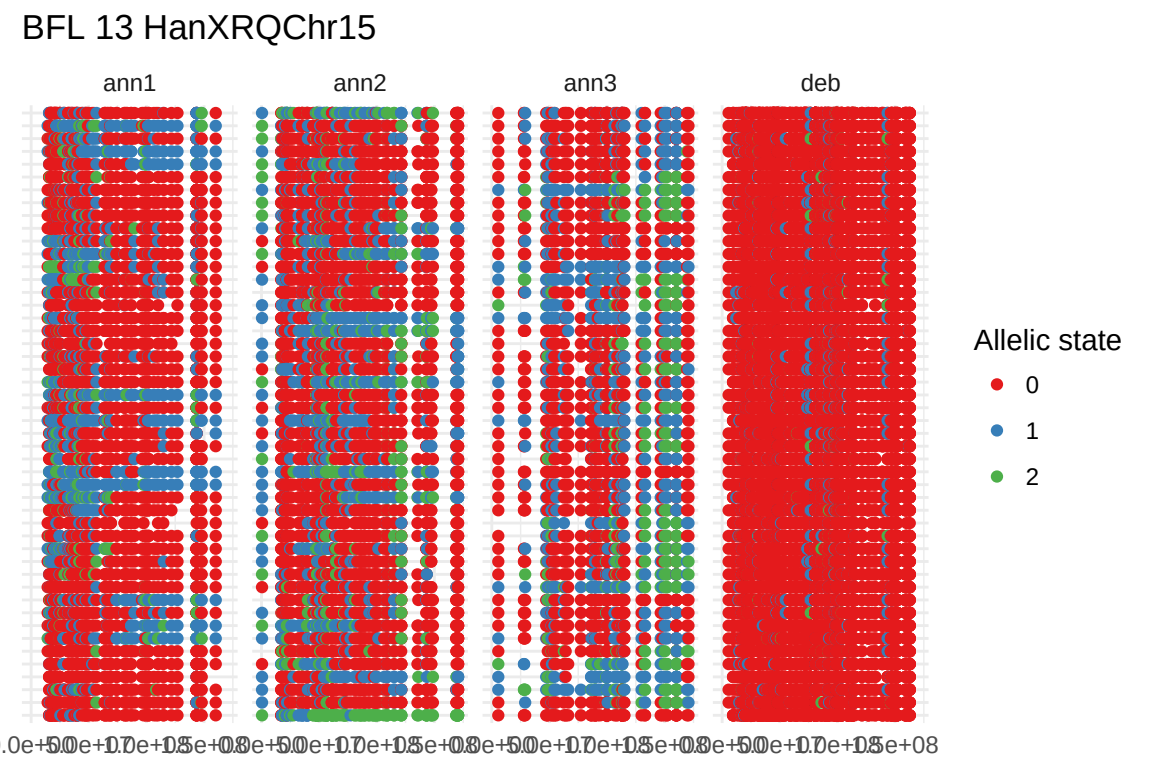
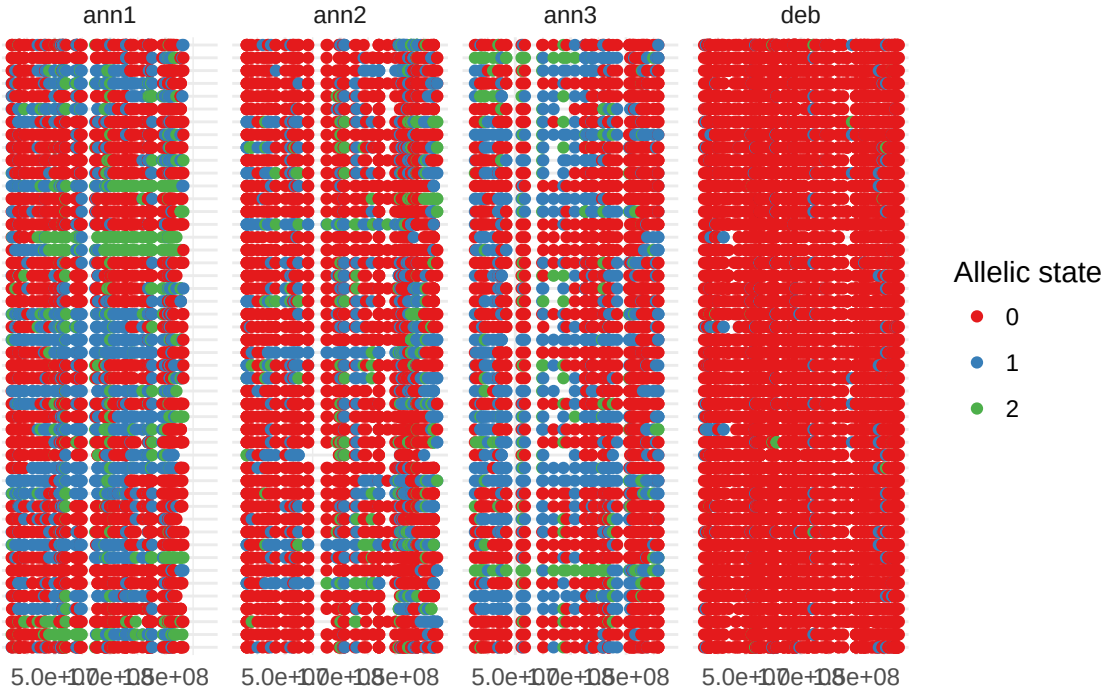
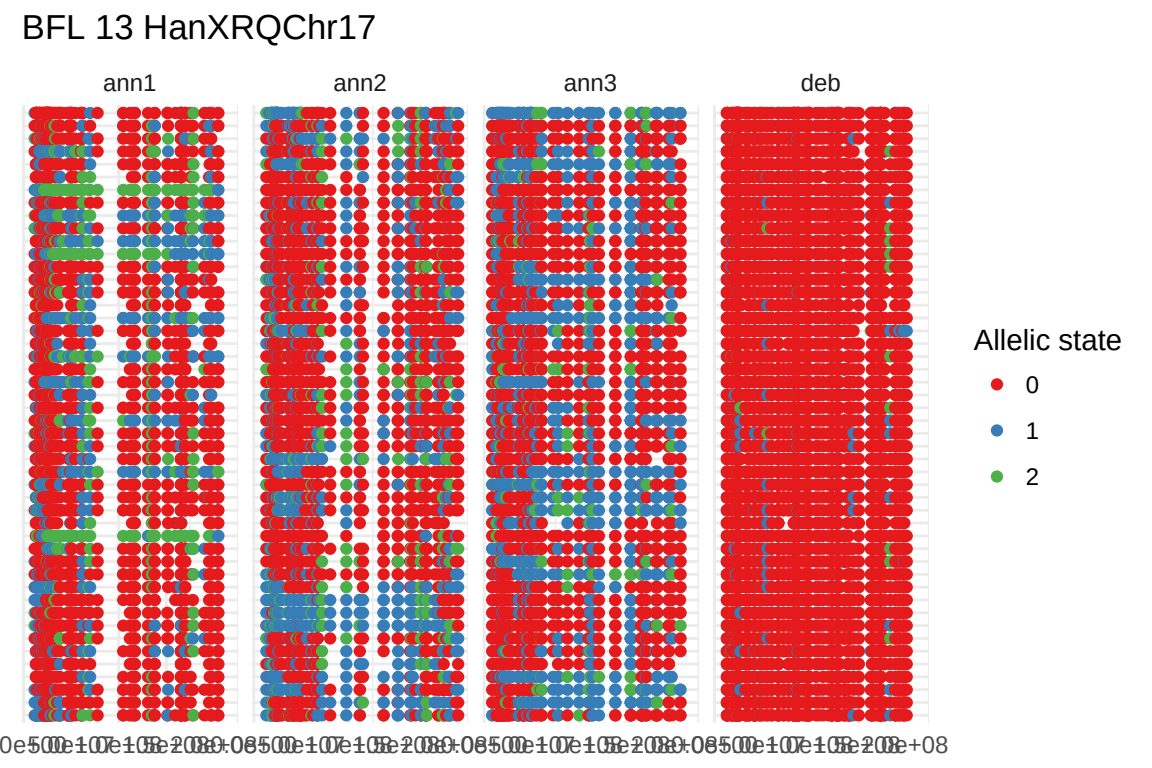
1
2

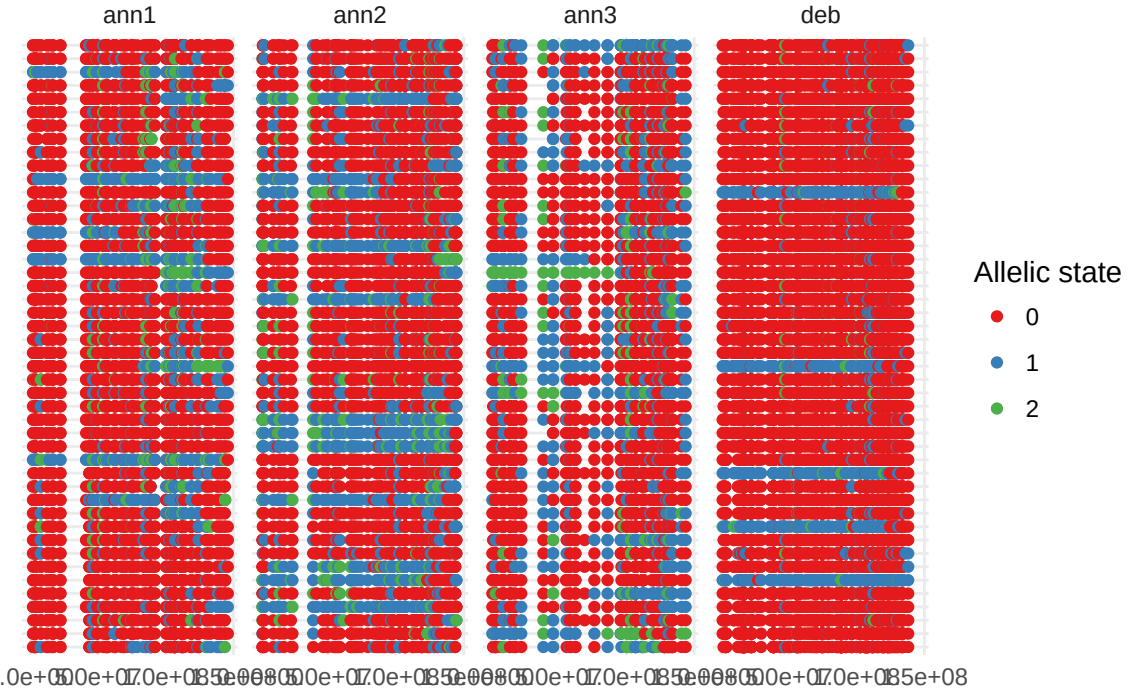

BFL 13 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8

BFL 13 HanXRQChr16

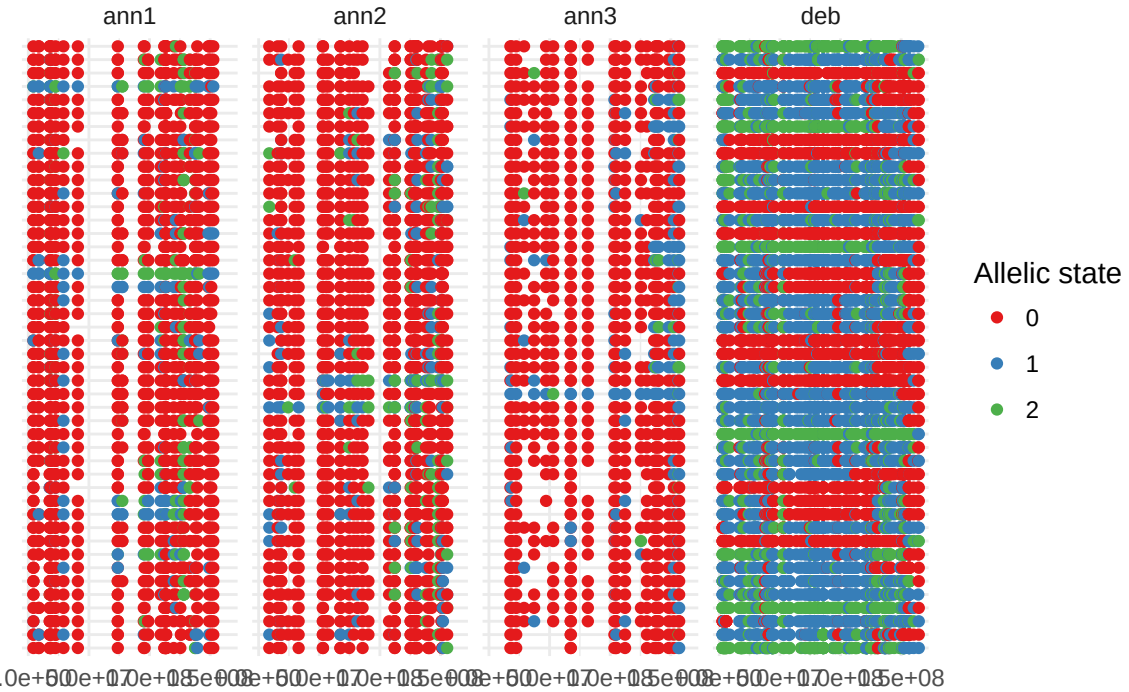



BFL 13 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

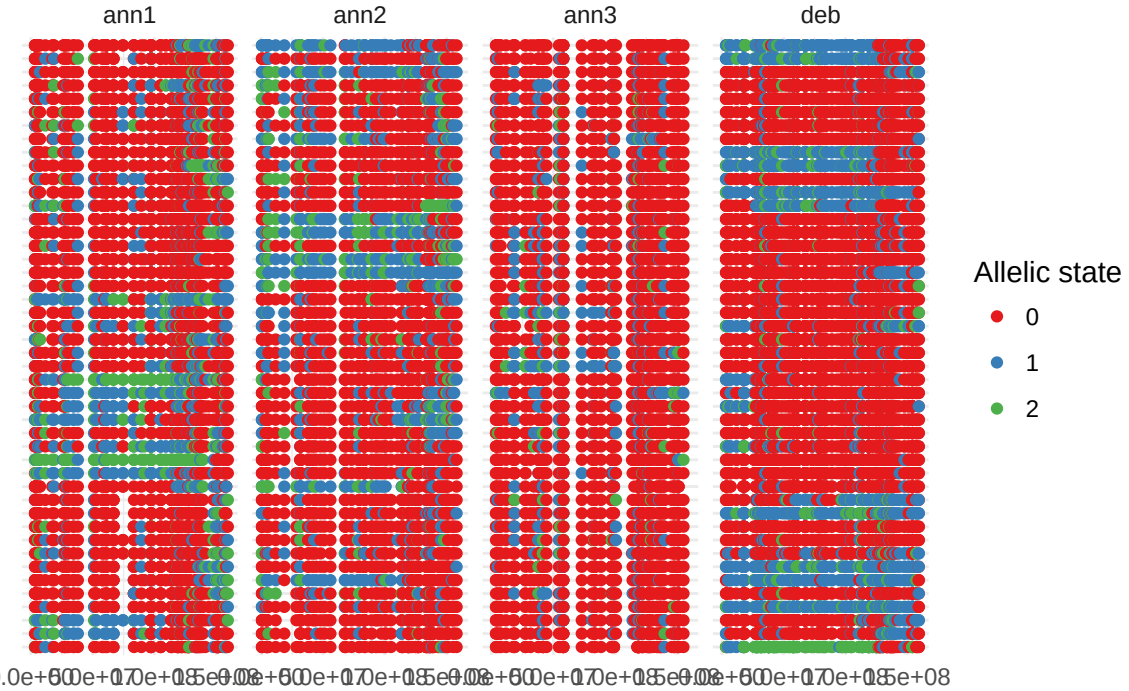
BFL 14 HanXRQChr01

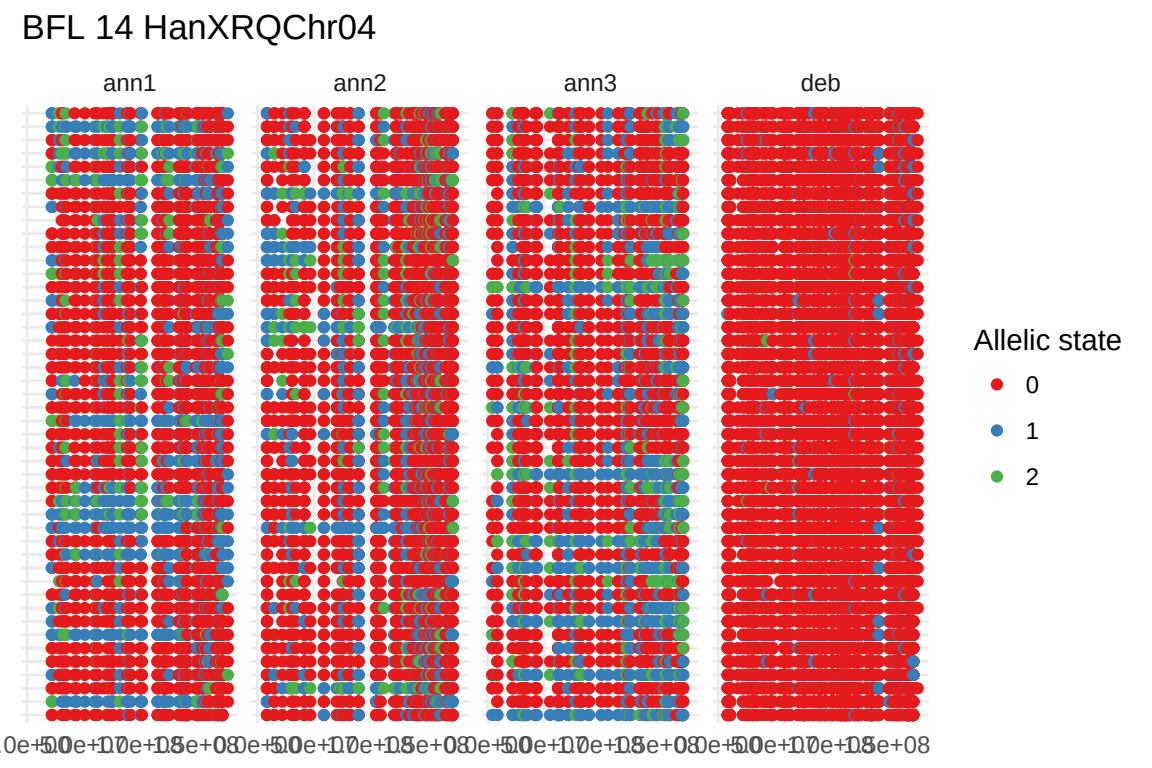


BFL 14 HanXRQChr02



BFL 14 HanXRQChr03

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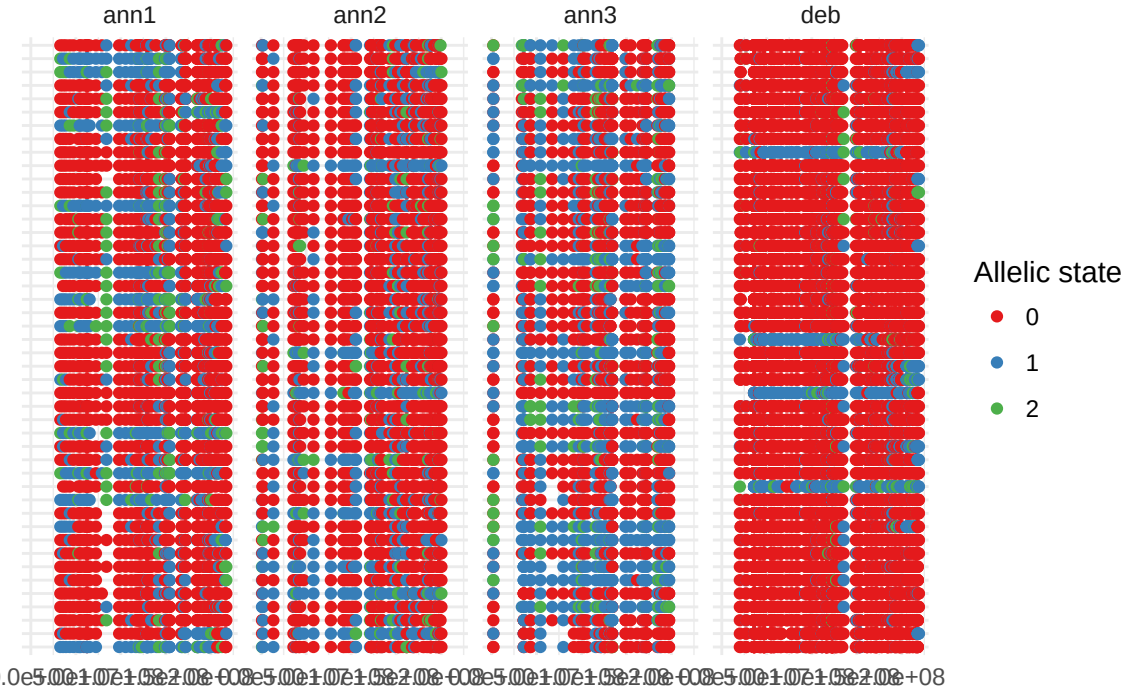
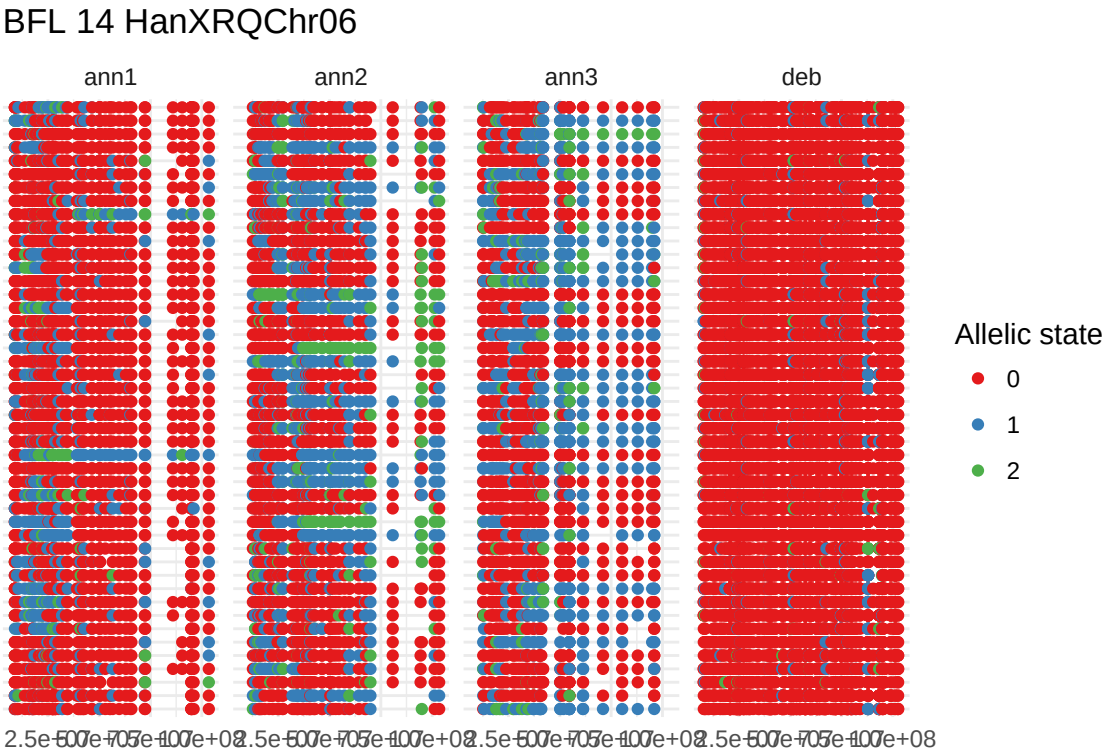
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 14 HanXRQChr05

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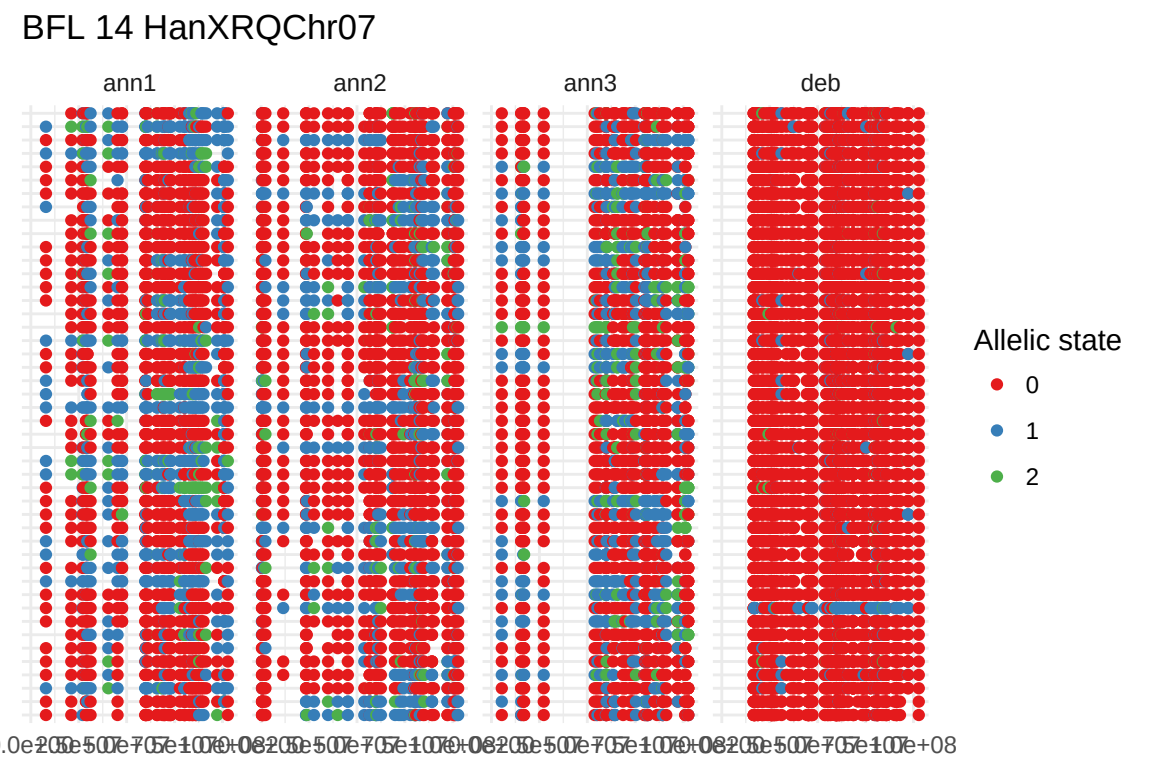
ann2
ann3
deb
2.5e+08
5.0e+08
7.5e+08
1.0e+08
Allelic state
0
1
2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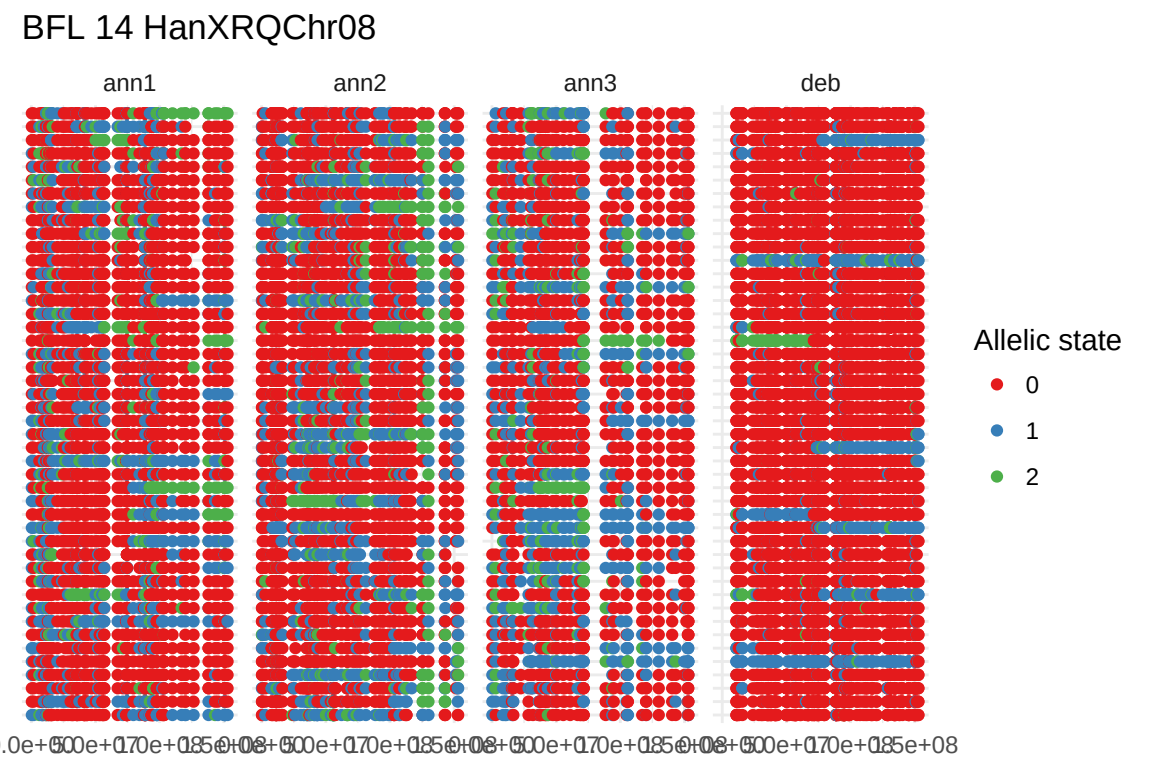
ann2
ann3
deb
Allelic state
0
1
2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ann2
ann3
deb
Allelic state
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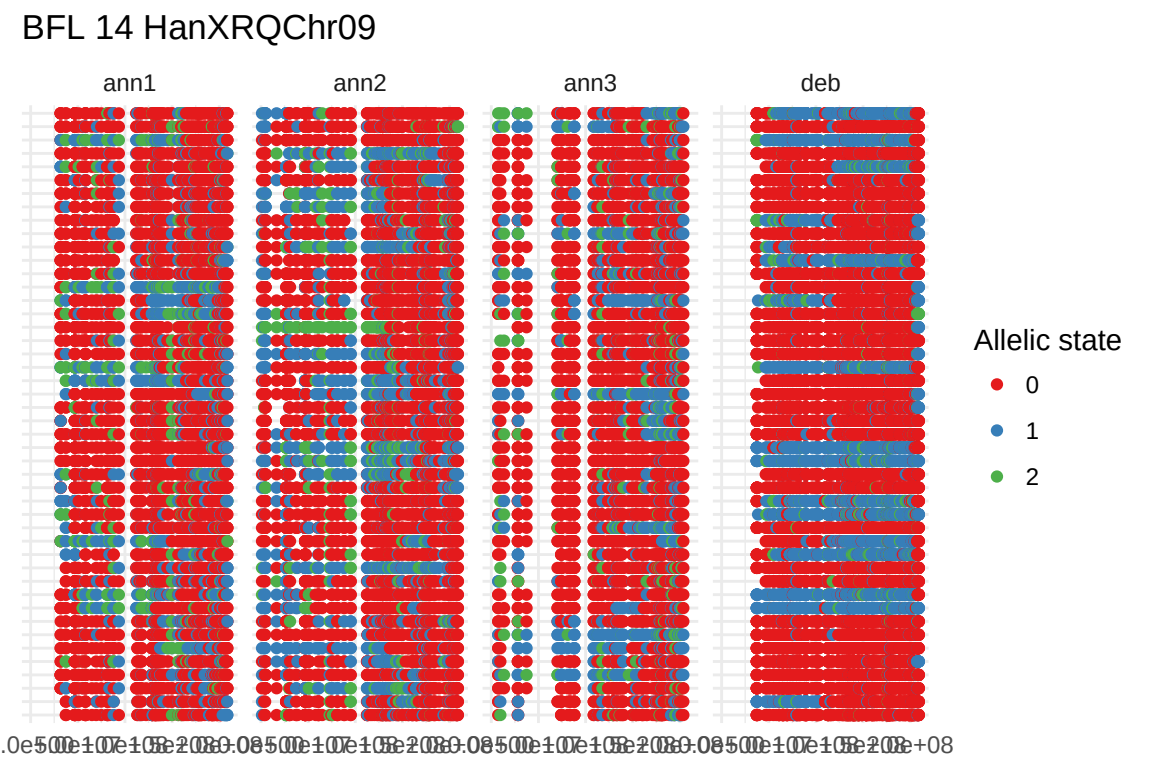
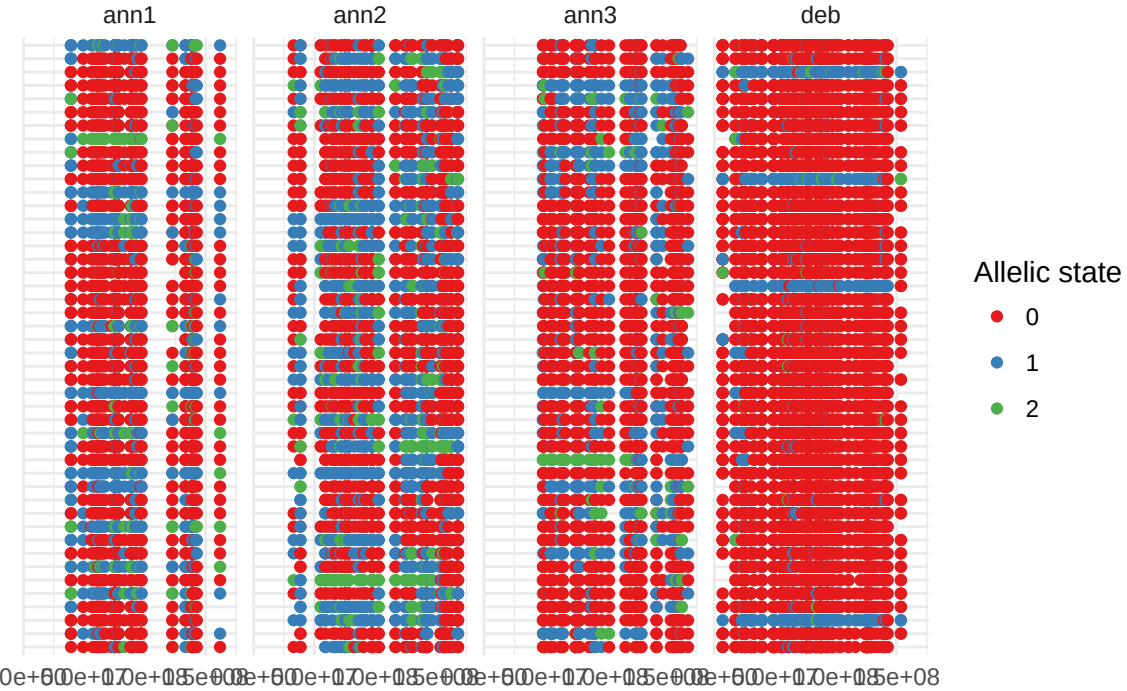
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08


BFL 14 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 14 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
0
1
2

BFL 14 HanXRQChr11



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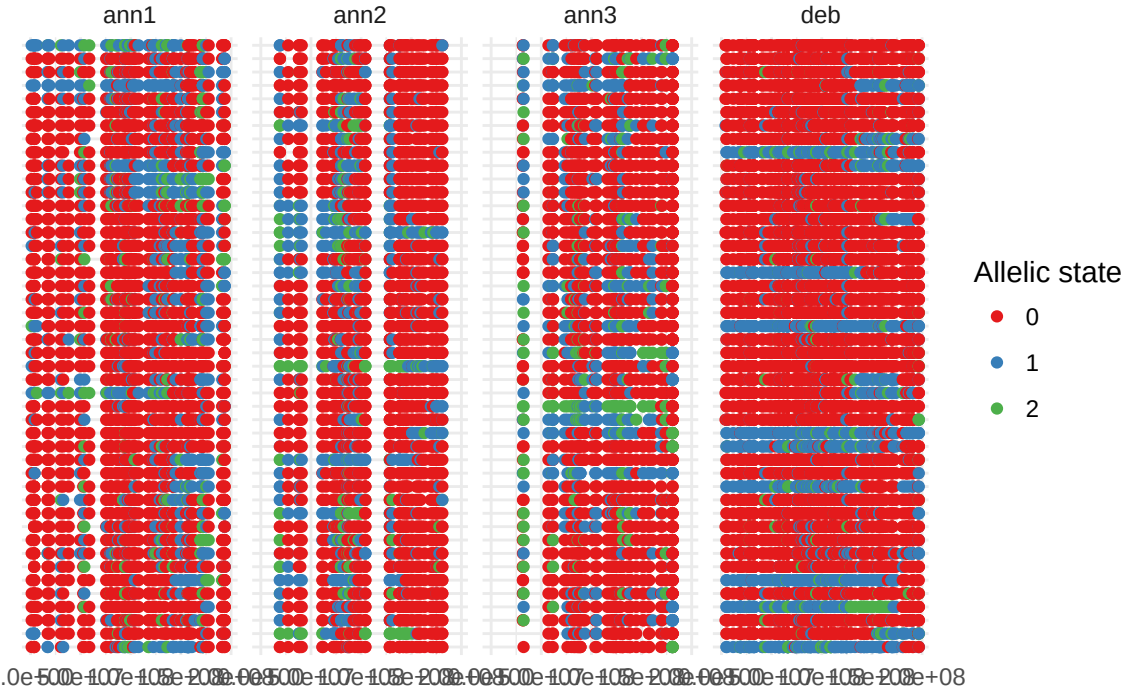
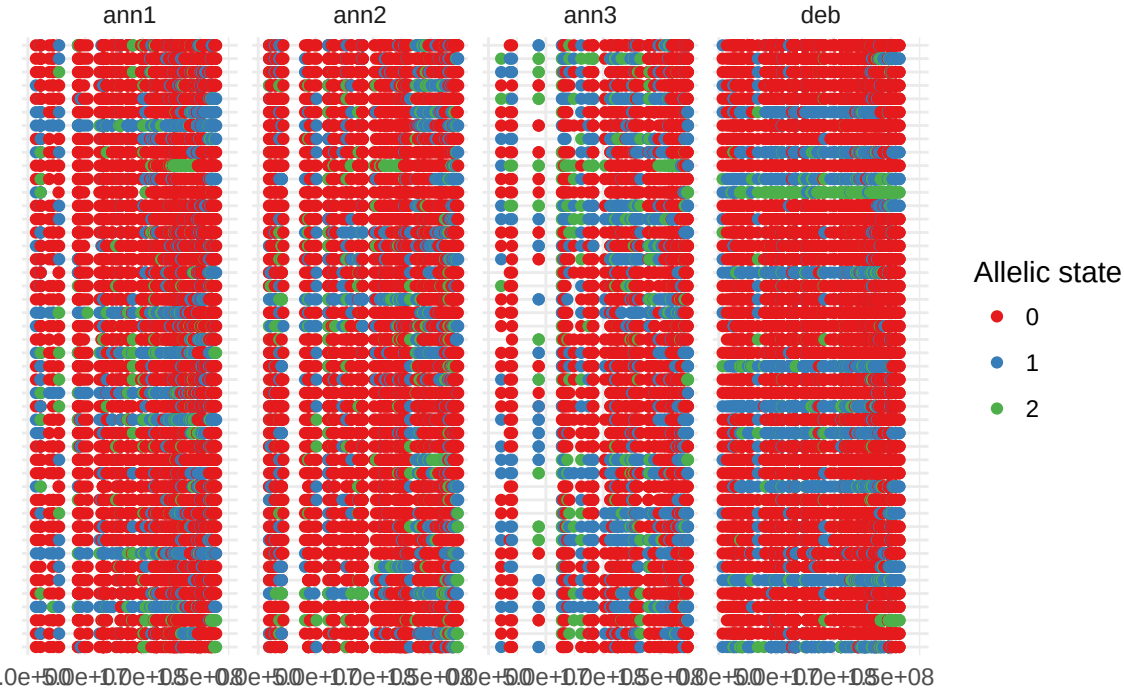
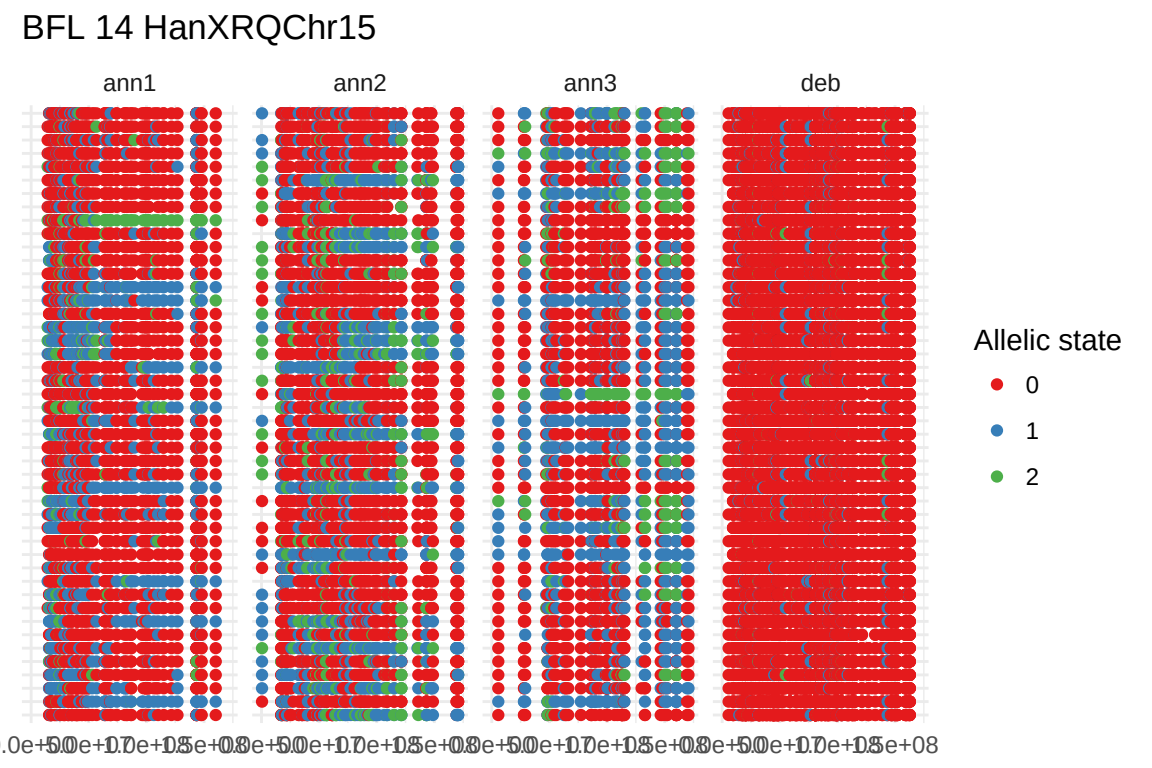
ann2
ann3
deb
Allelic state
0
1
2

BFL 14 HanXRQChr13



BFL 14 HanXRQChr14




BFL 14 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5
0.0e+1
0.7e+1
0.5e+8
0.8e+5
0.0e+1
0.7e+1
0.5e+8
0.8e+5
0.0e+1
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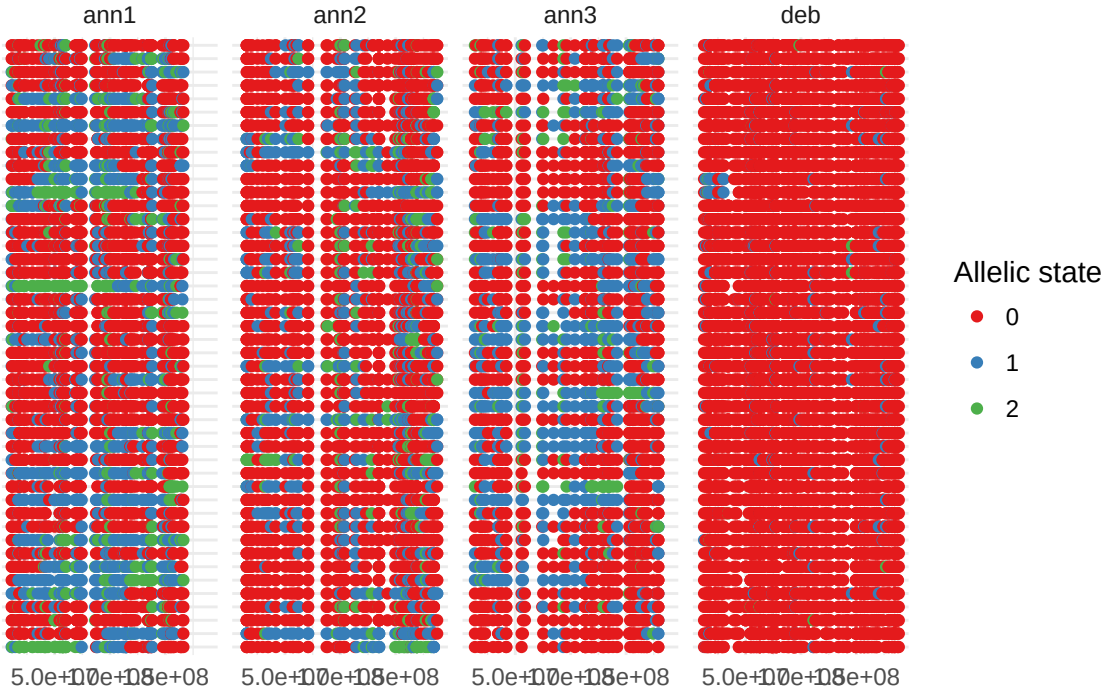
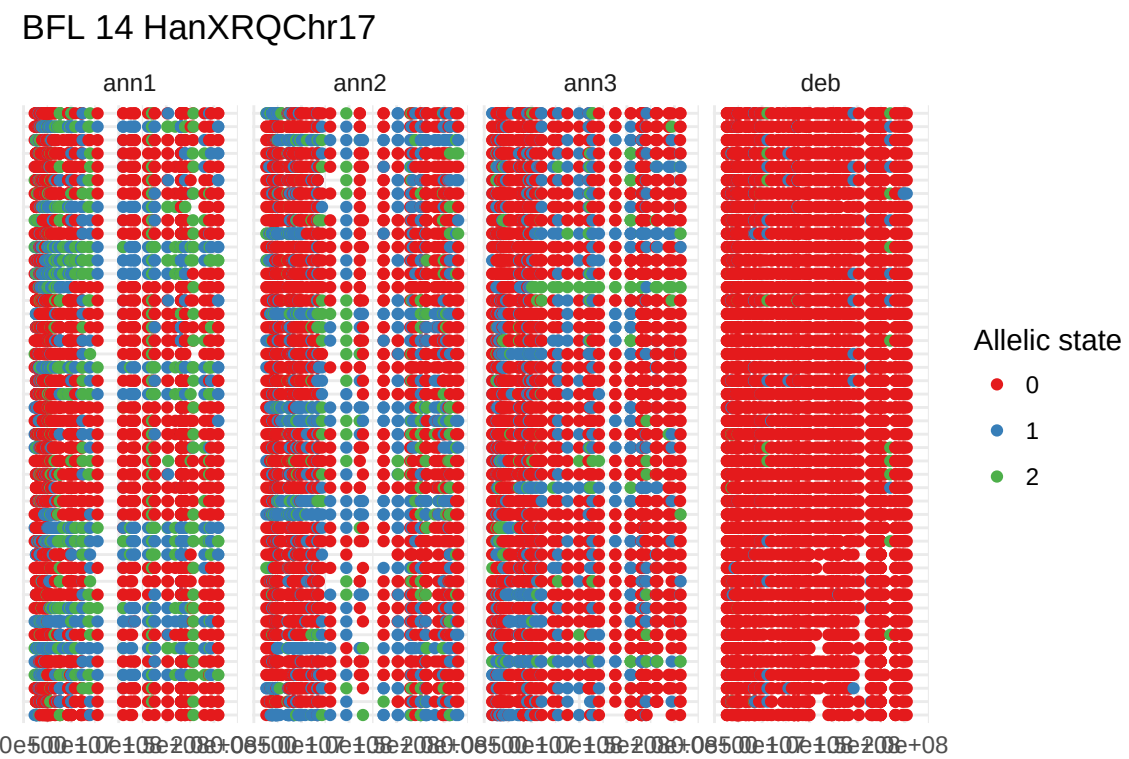
0.8e+5
0.0e+1
0.7e+1
0.5e+8

BFL 14 HanXRQChr16

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ann2
ann3
deb
Allelic state
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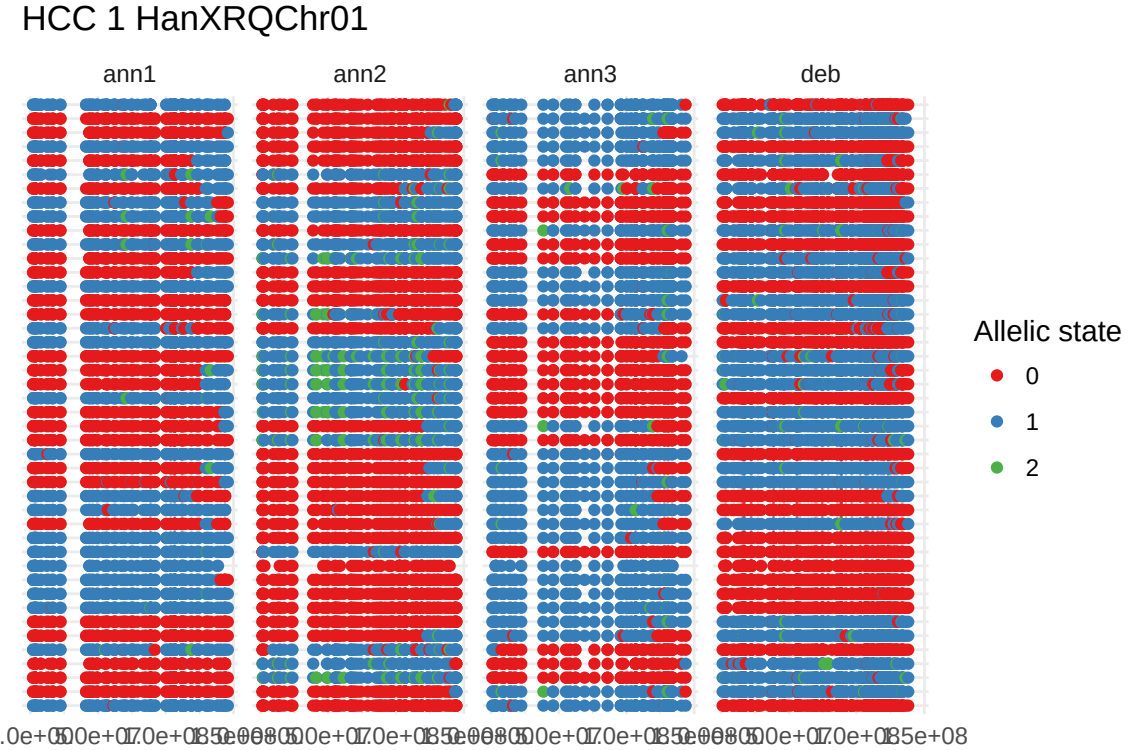
1
2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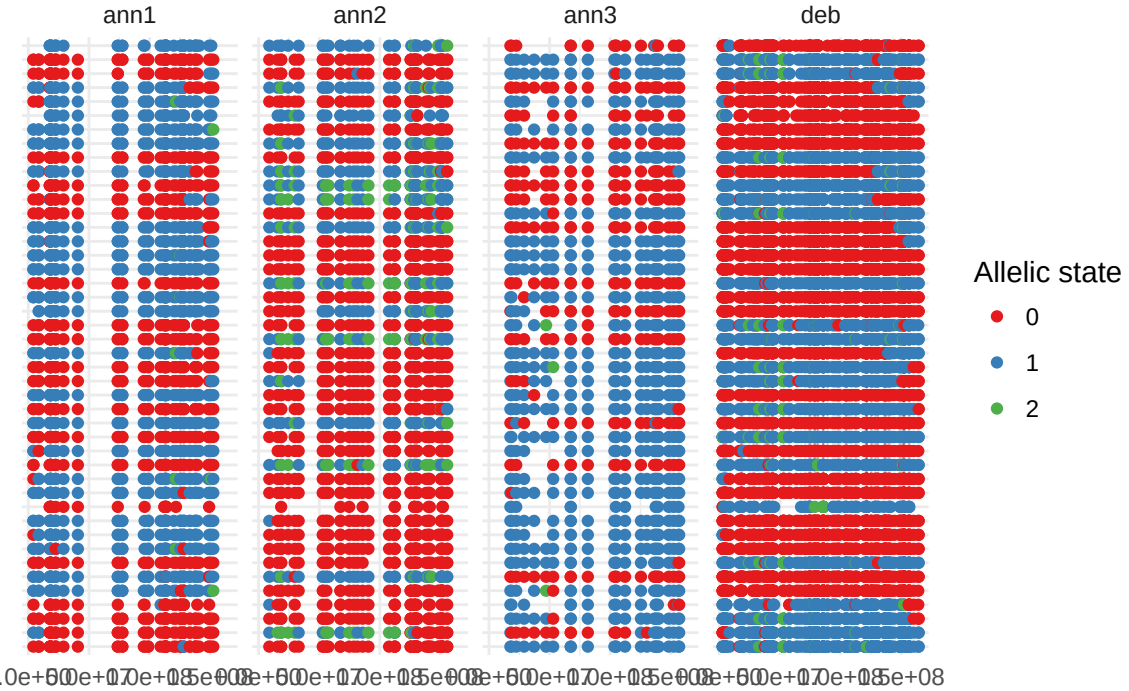
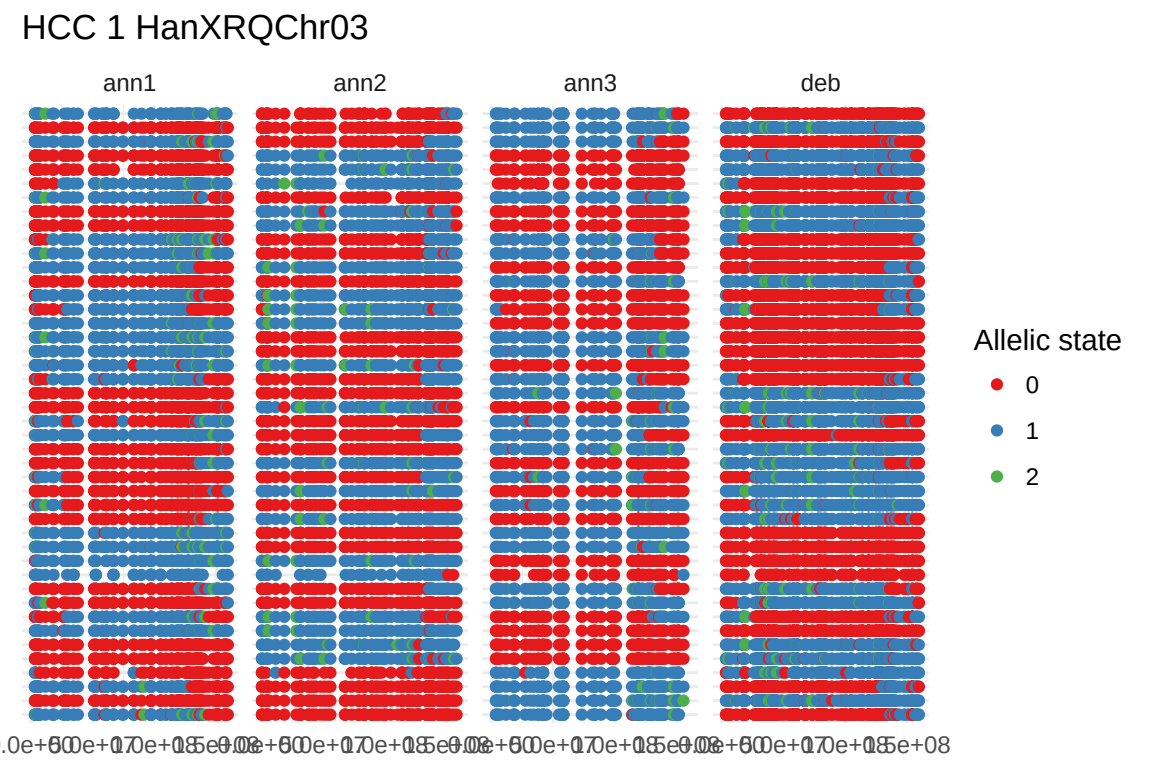
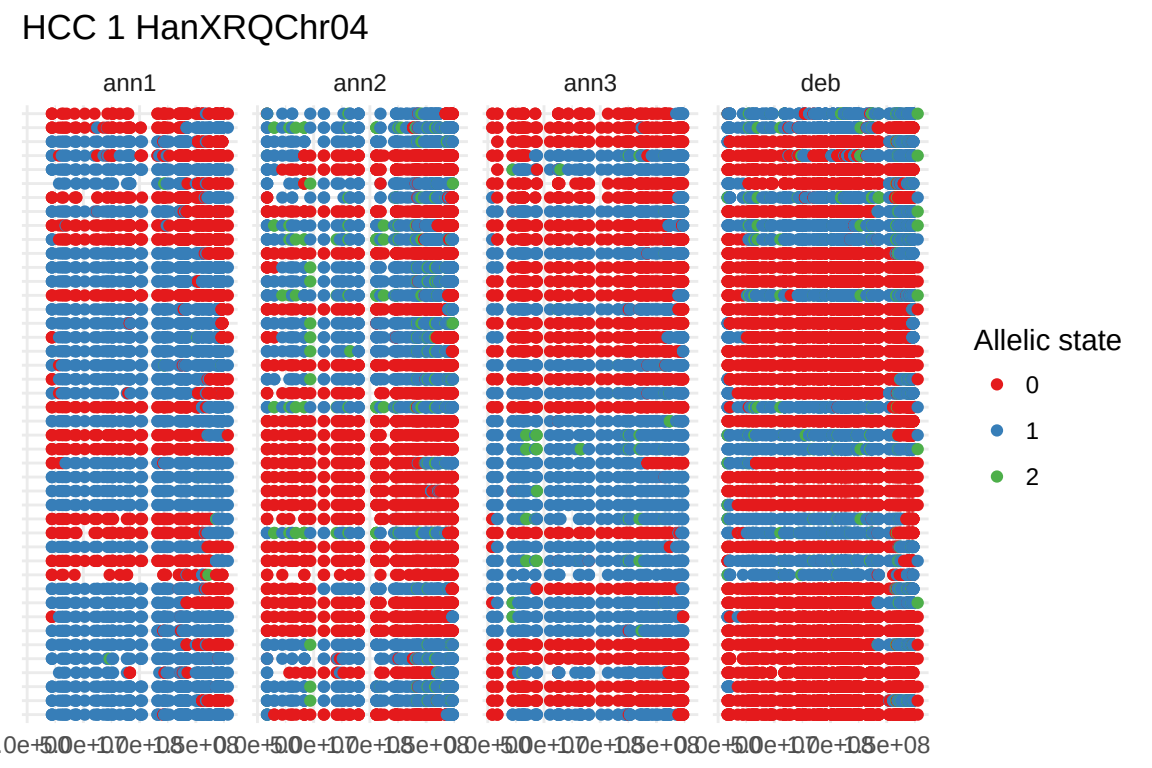
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 1 HanXRQChr02




HCC 1 HanXRQChr03
ann1
ann2
ann3
deb
Allelic state
0
1
2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ann1
ann2
ann3
deb
Allelic state
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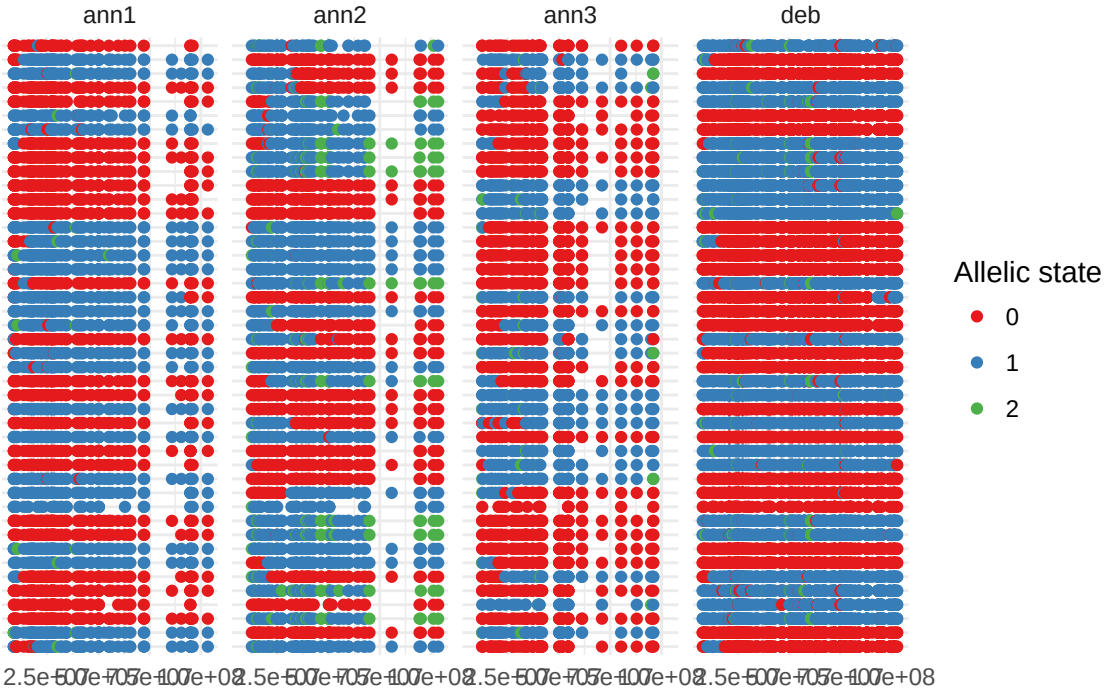
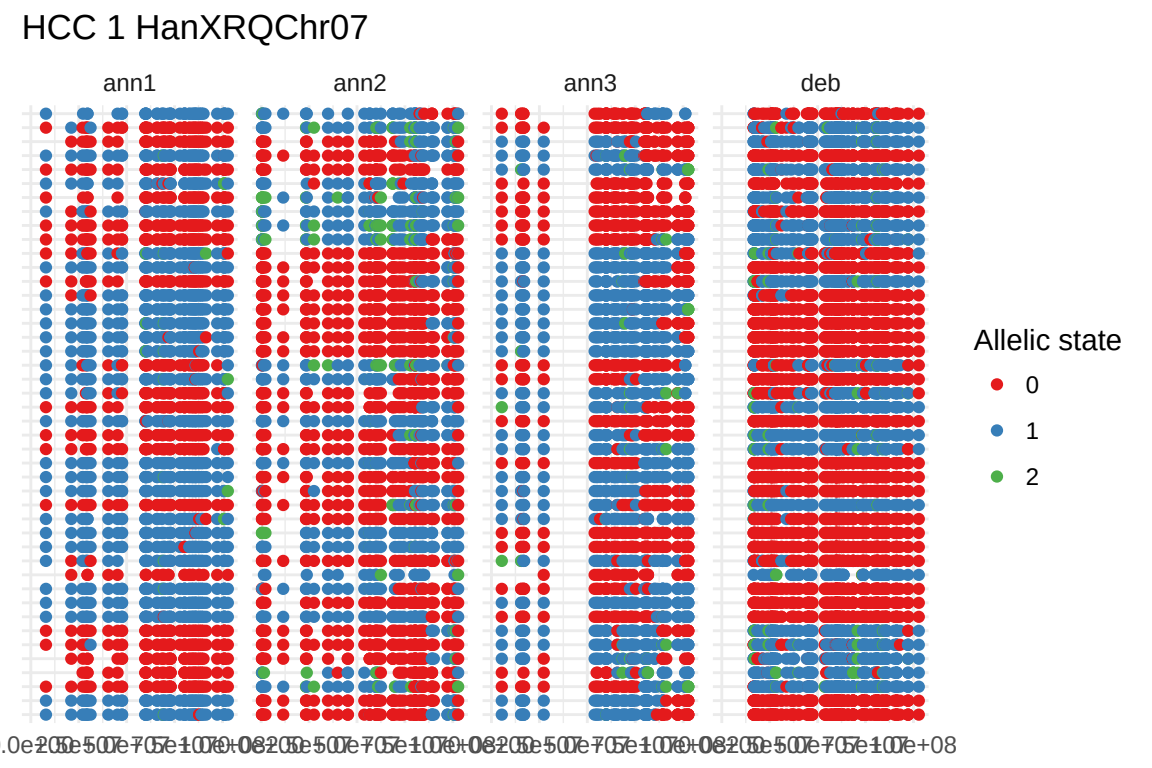
2

HCC 1 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 1 HanXRQChr06

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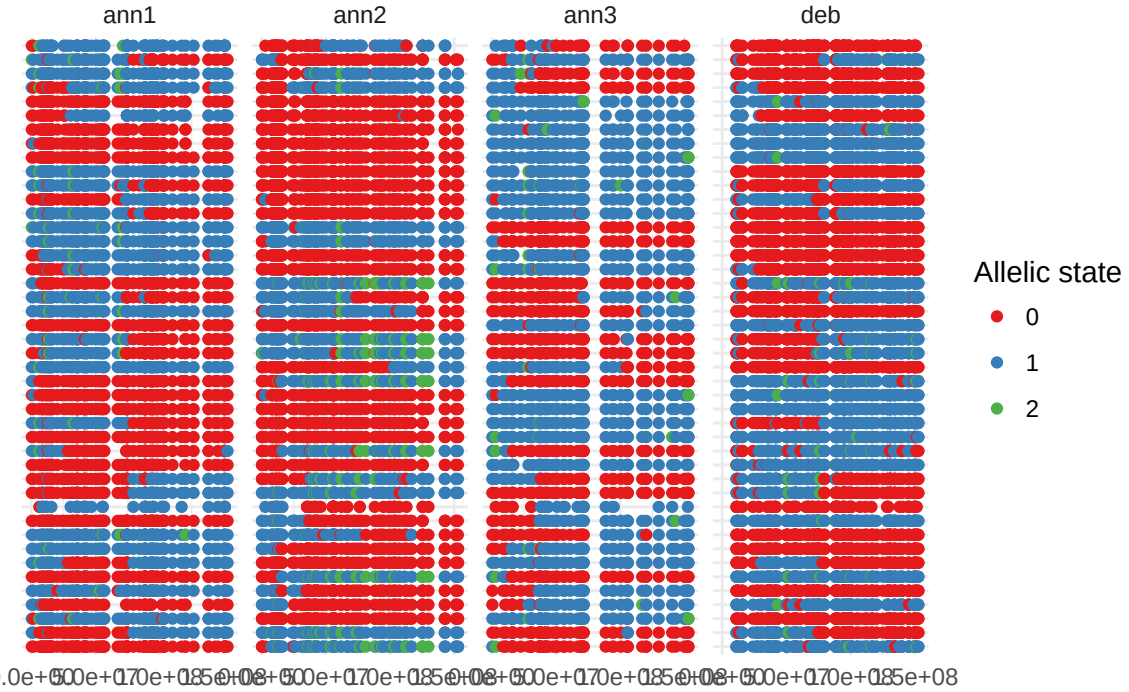
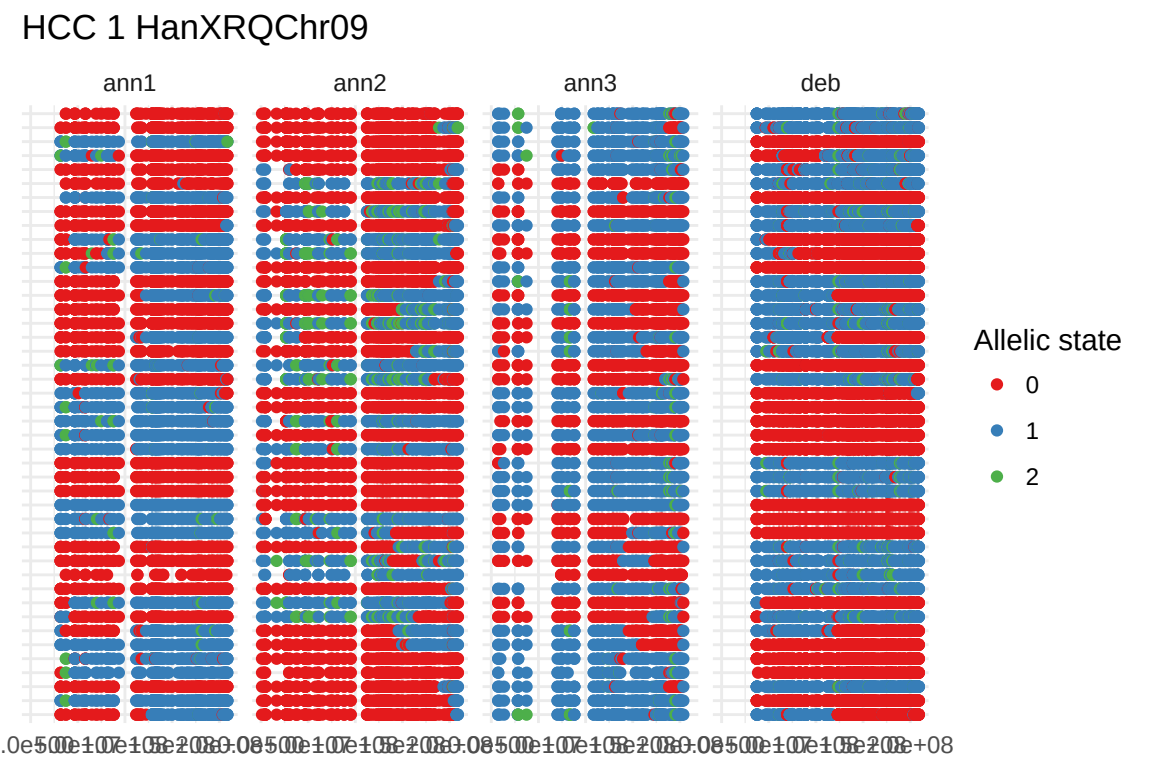
ann2
ann3
deb
Allelic state
0
1
2

HCC 1 HanXRQChr08

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ann2
ann3
deb
Allelic state
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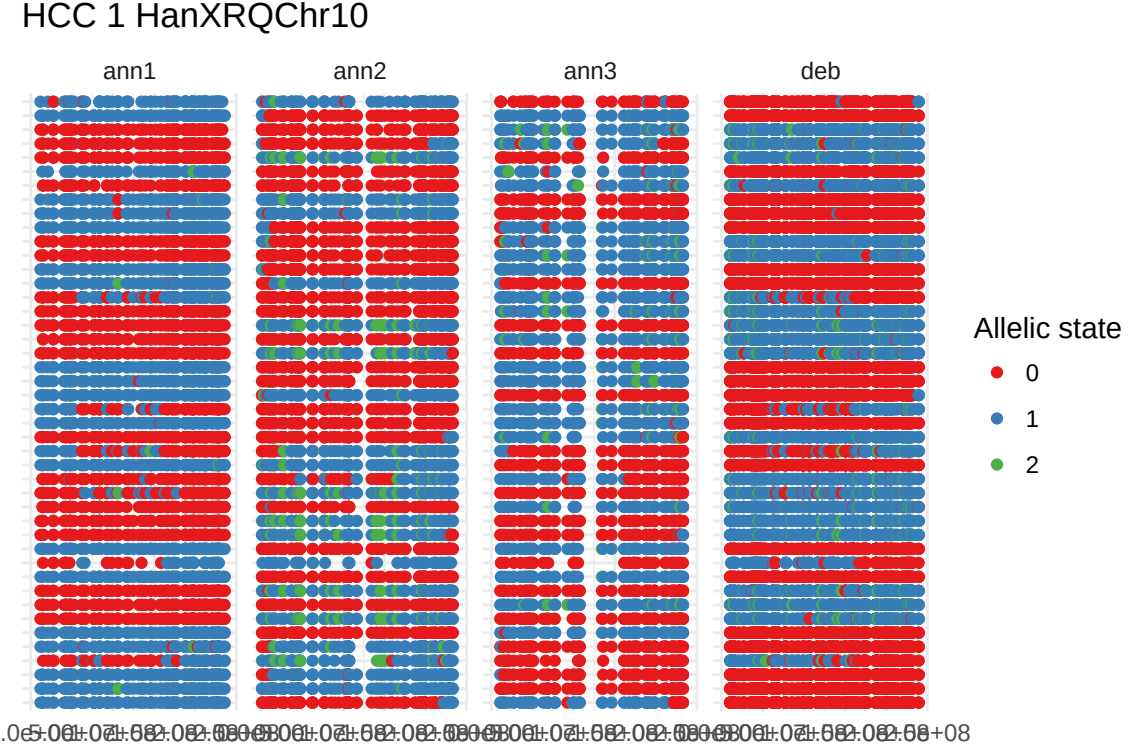
1
2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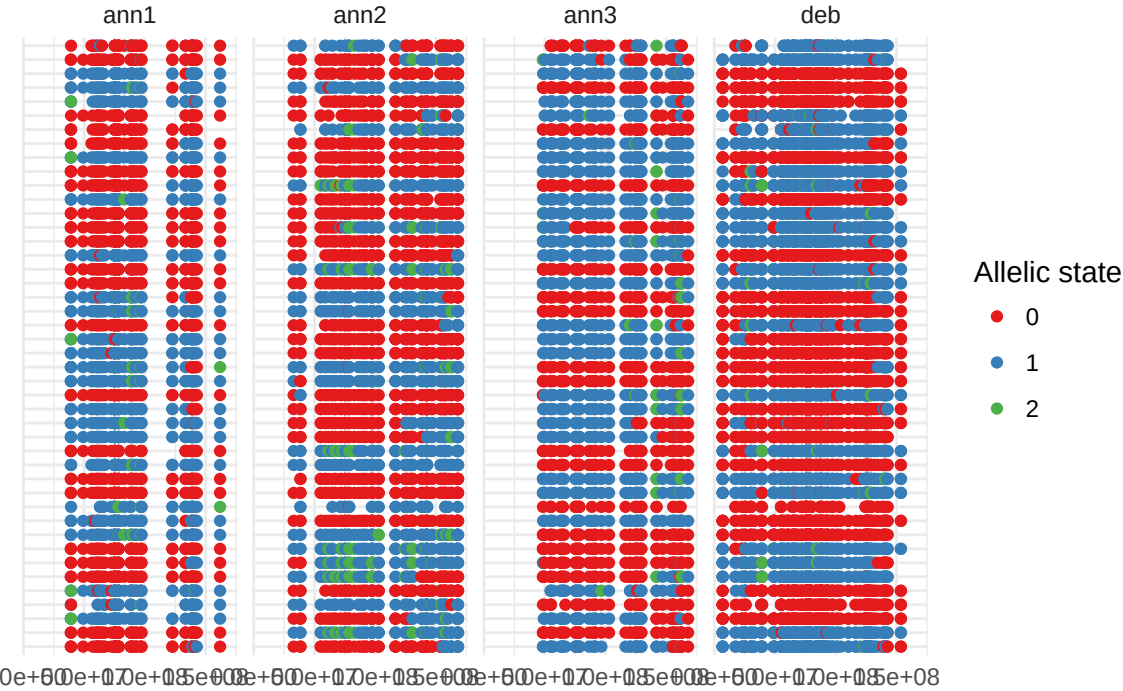
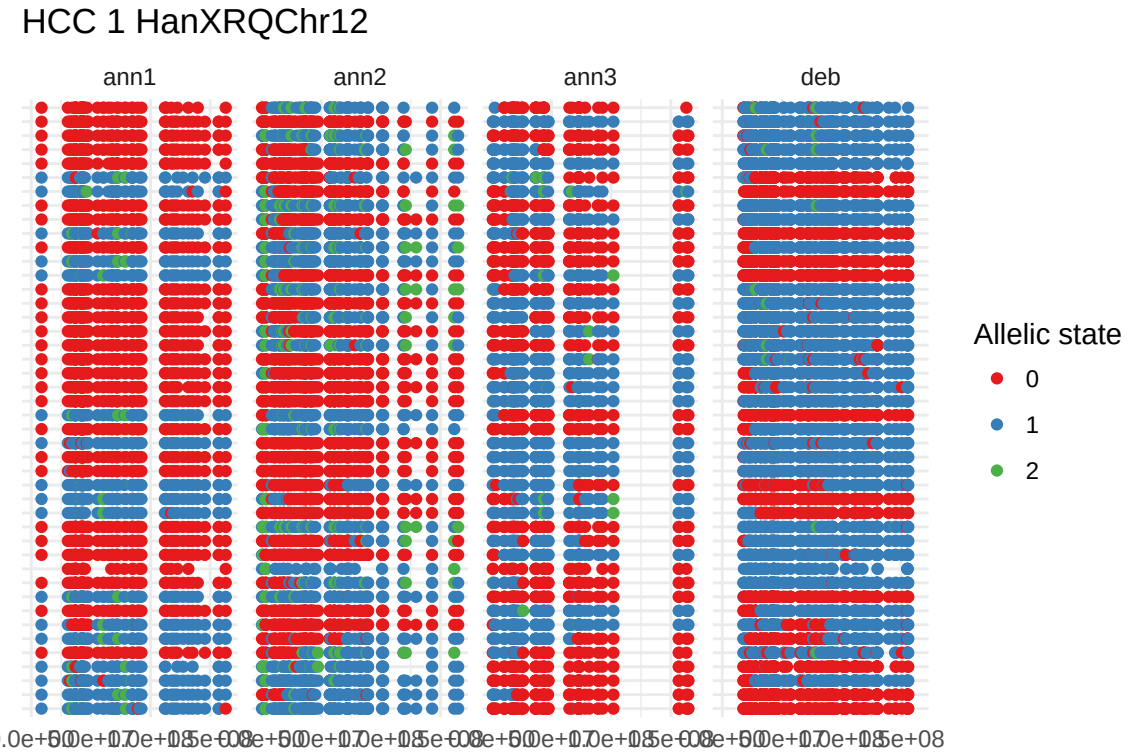
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 1 HanXRQChr11

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ann1
ann2
ann3
deb
Allelic state
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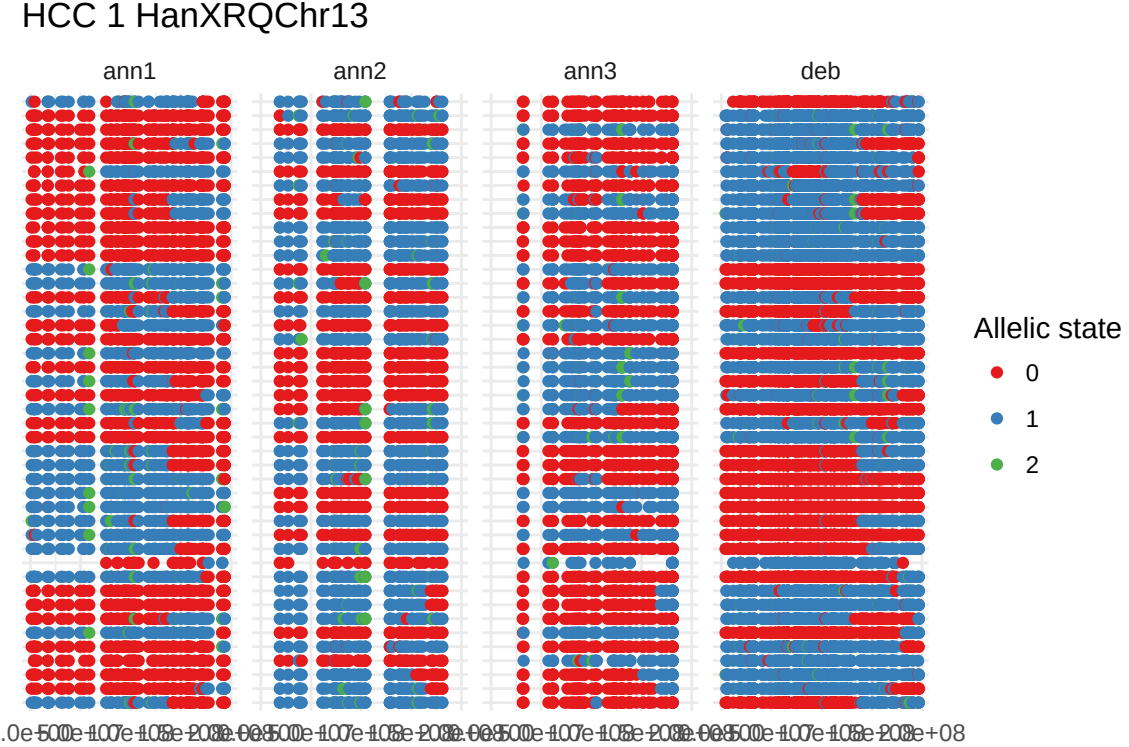
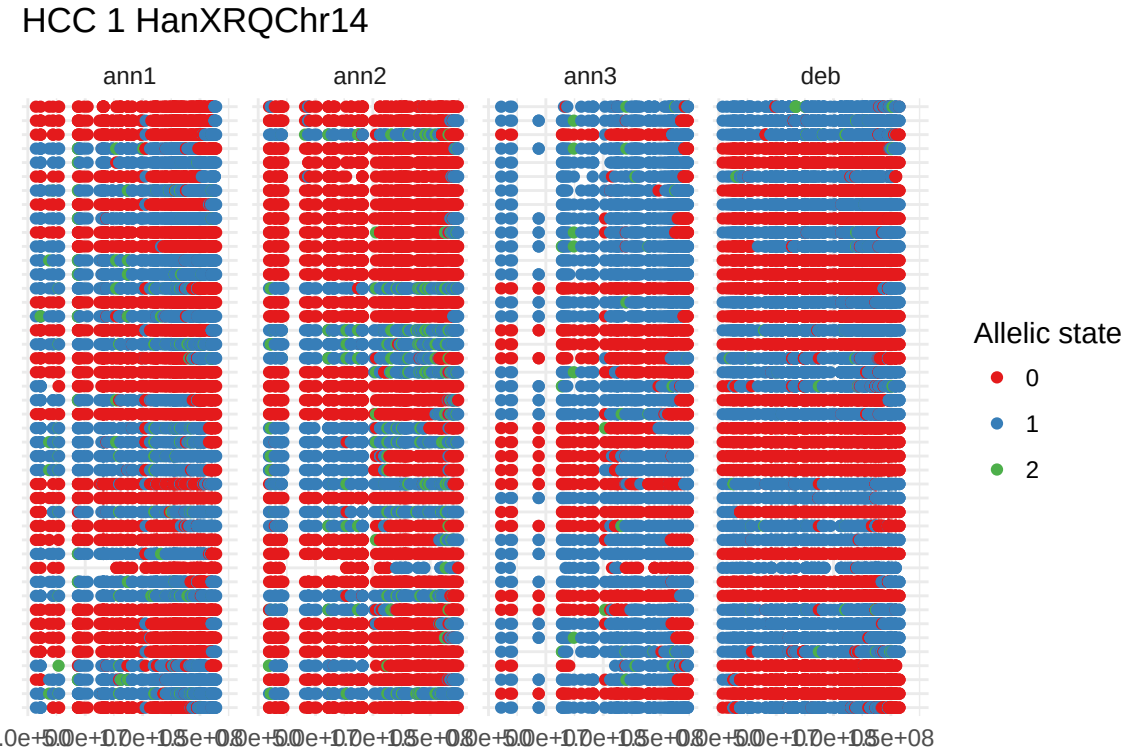
1
2


HCC 1 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2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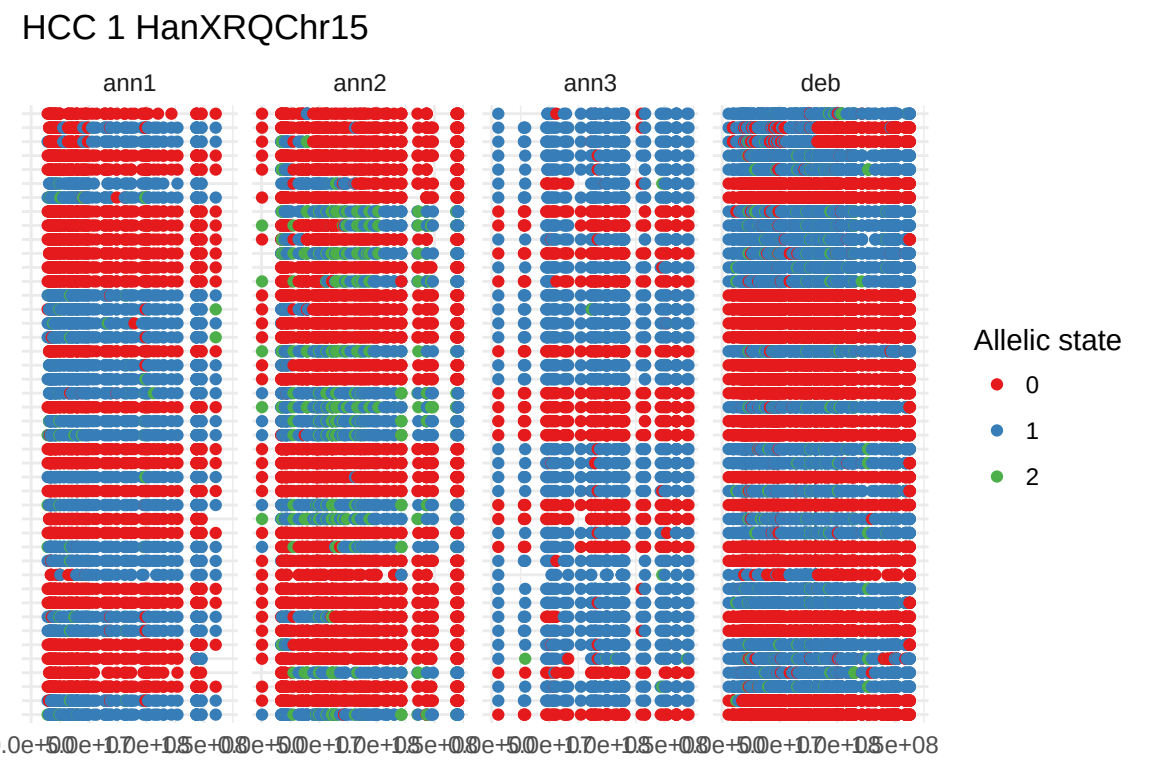
1
2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deb
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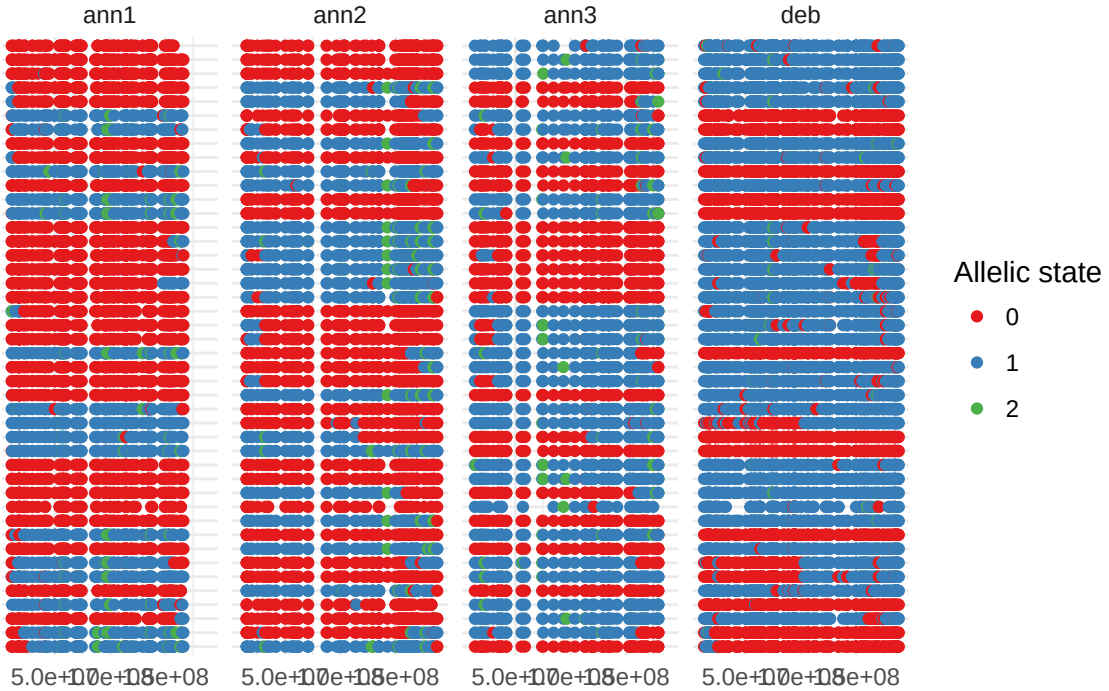
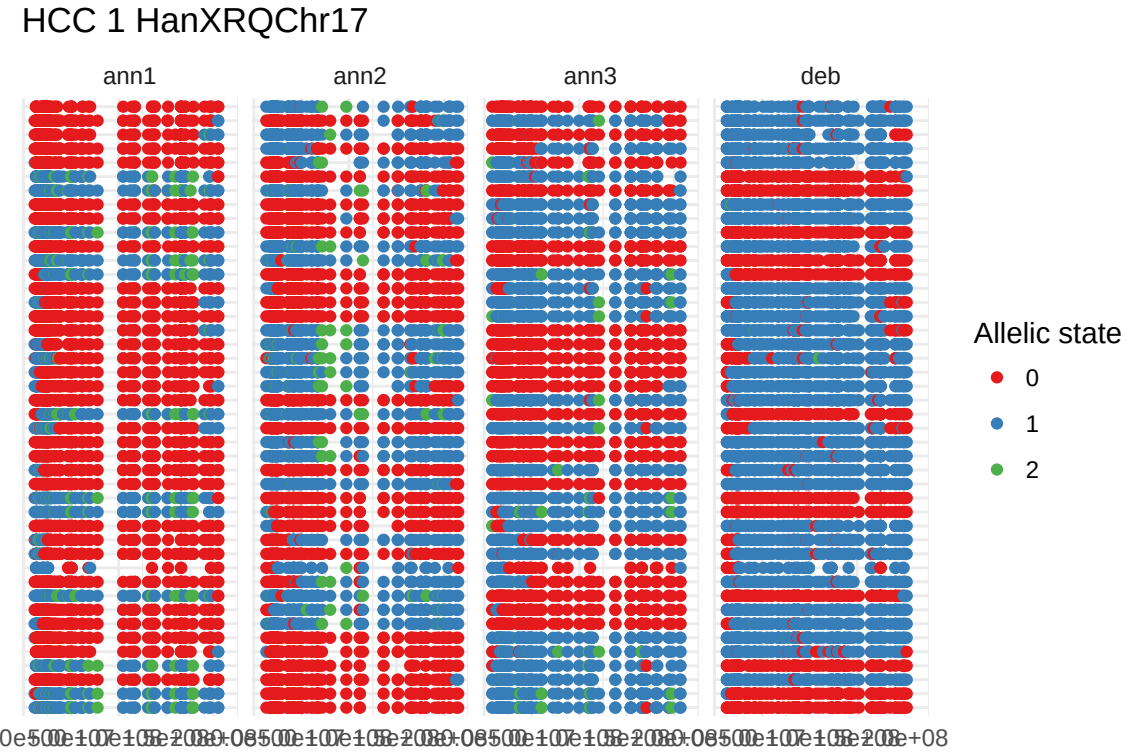
1
2

HCC 1 HanXRQChr16

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ann1
ann2
ann3
deb
Allelic state
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1
2

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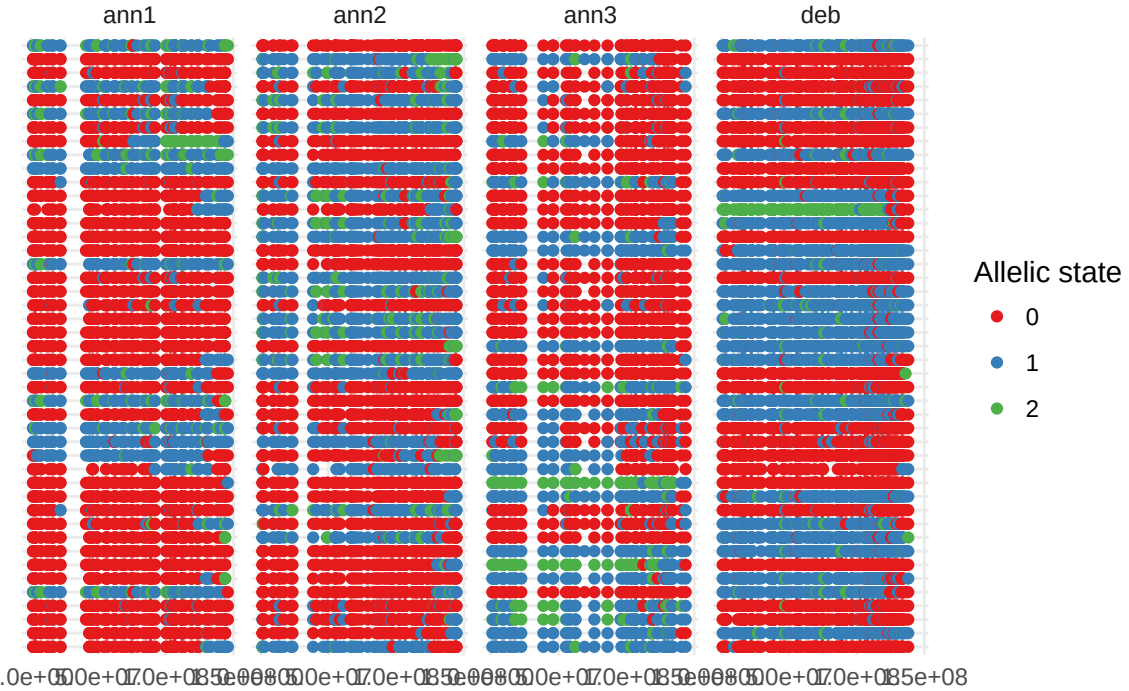

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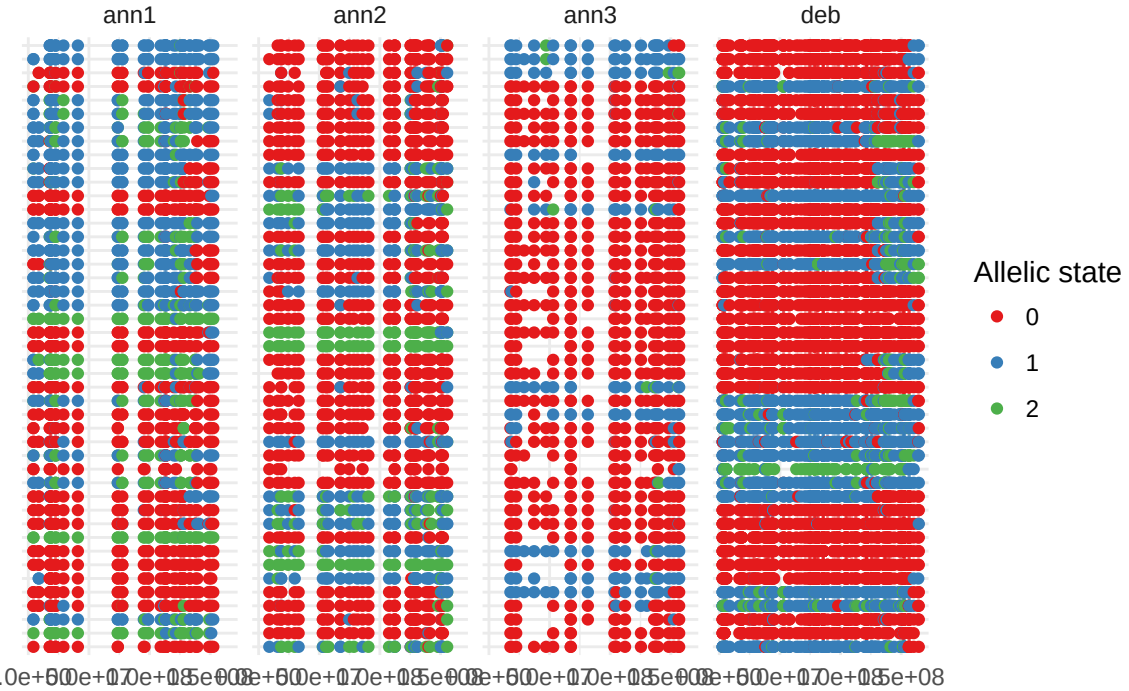

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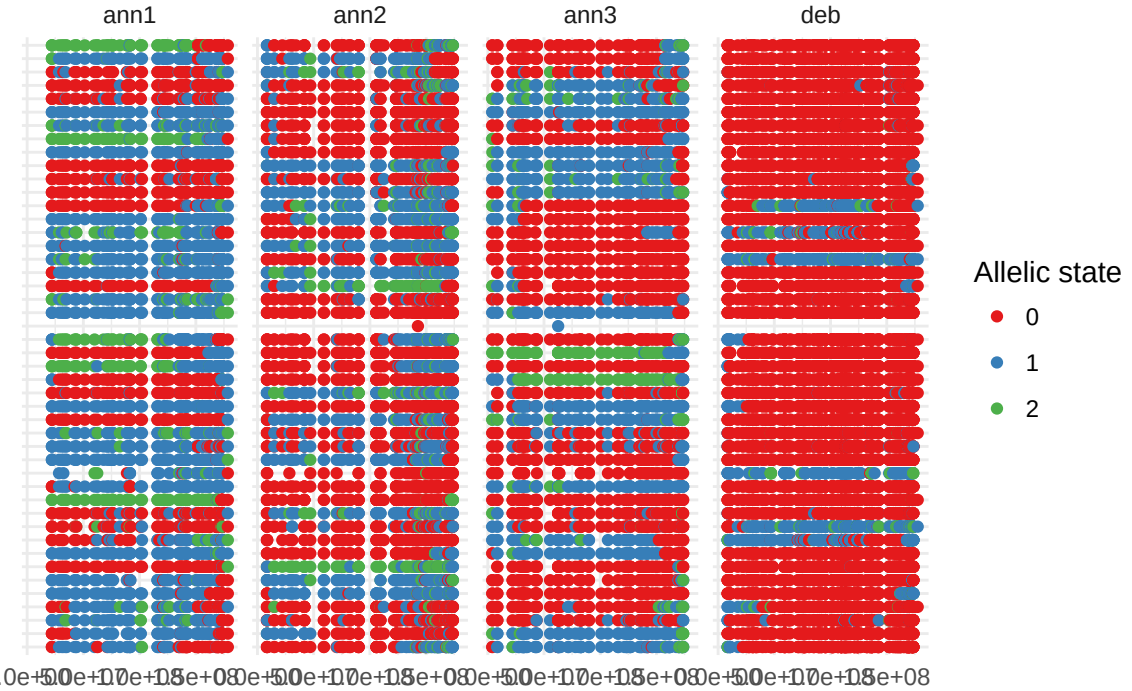

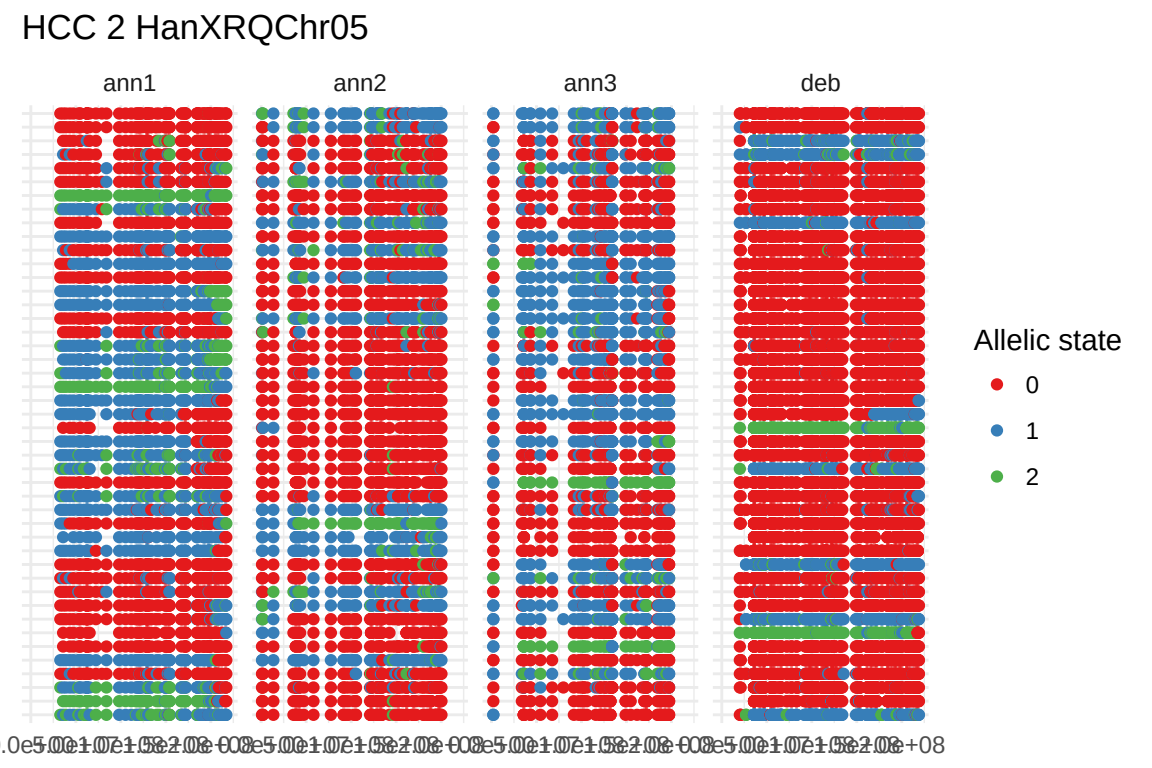
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ann1
ann2
ann3
deb
Allelic state
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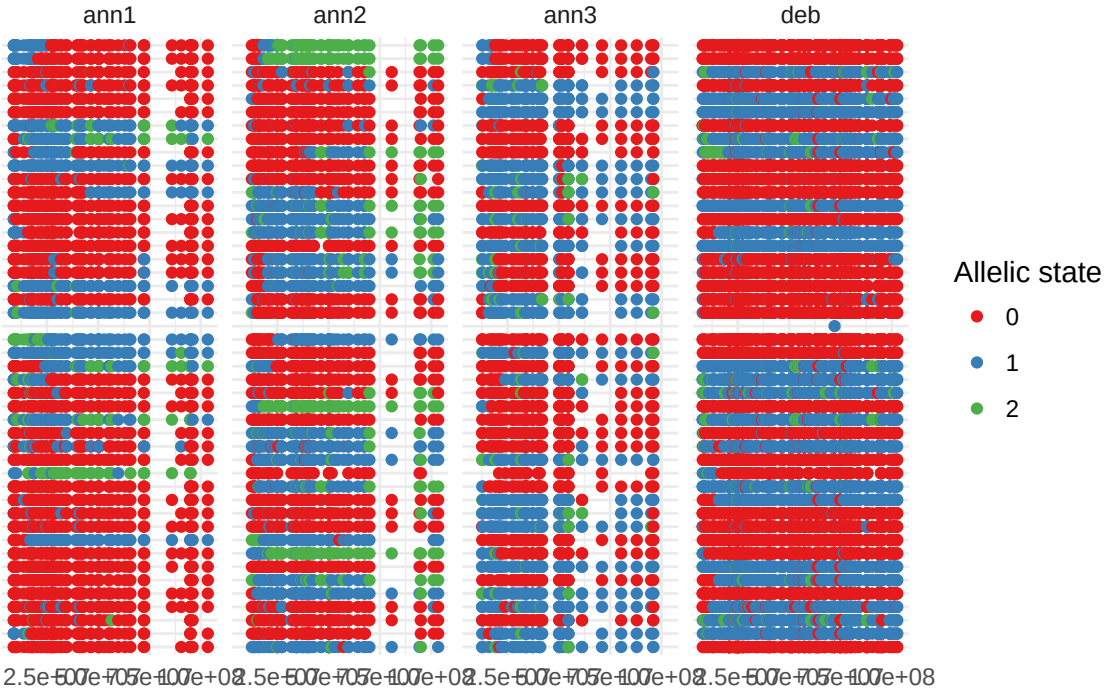
1
2

HCC 2 HanXRQChr06



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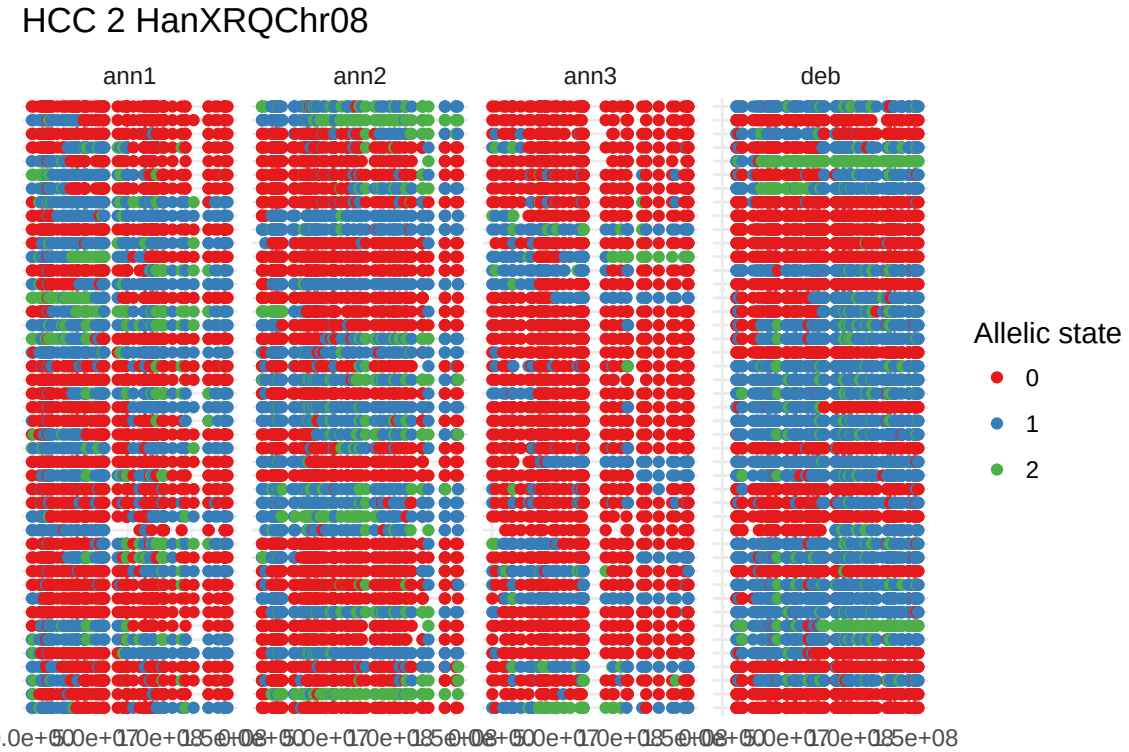
1
2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ann1
ann2
ann3
deb
Allelic state
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1
2
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5.0e+07
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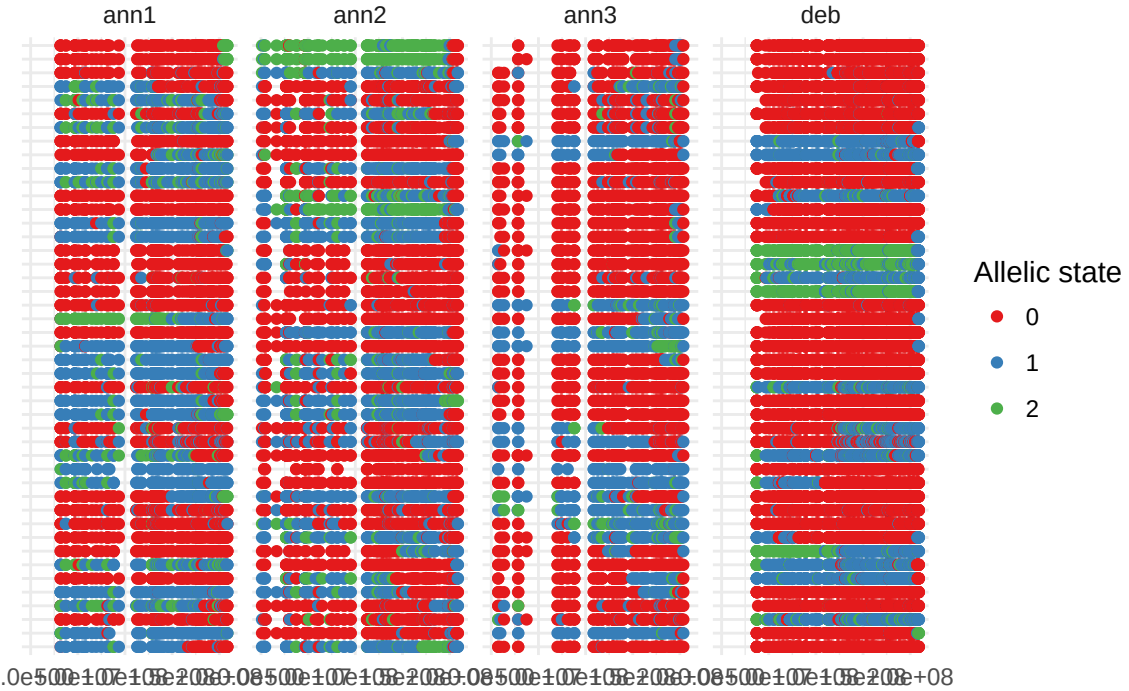
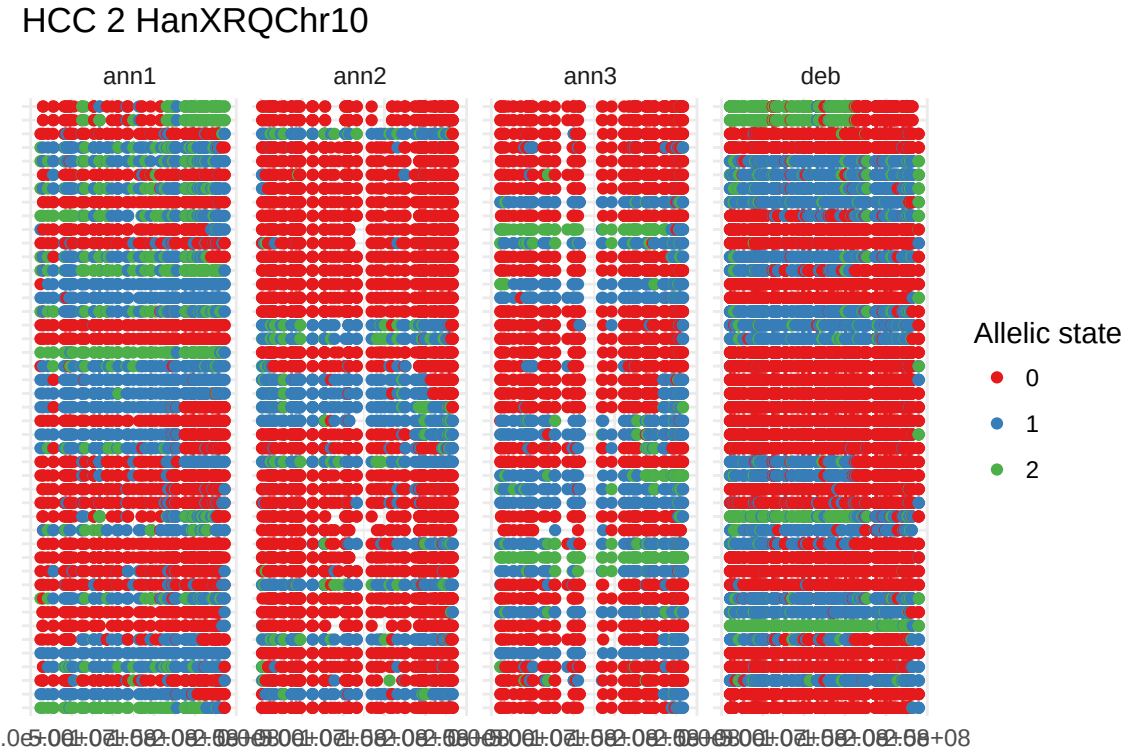
HCC 2 HanXRQChr09

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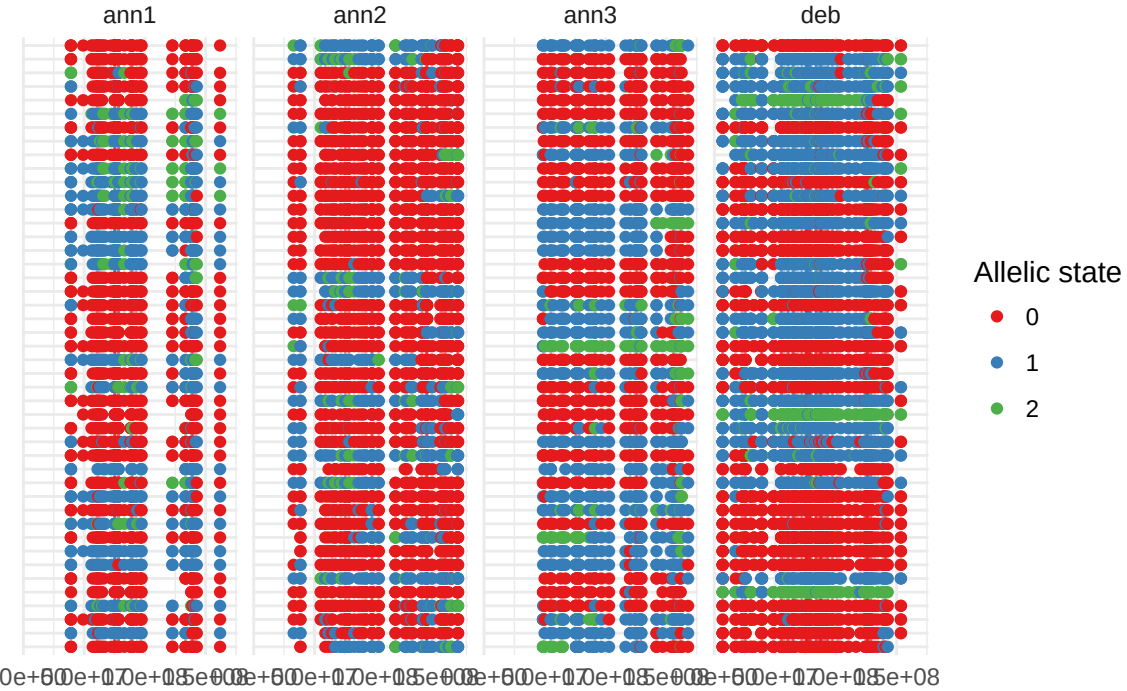
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 2 HanXRQChr11



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ann3
deb
Allelic state
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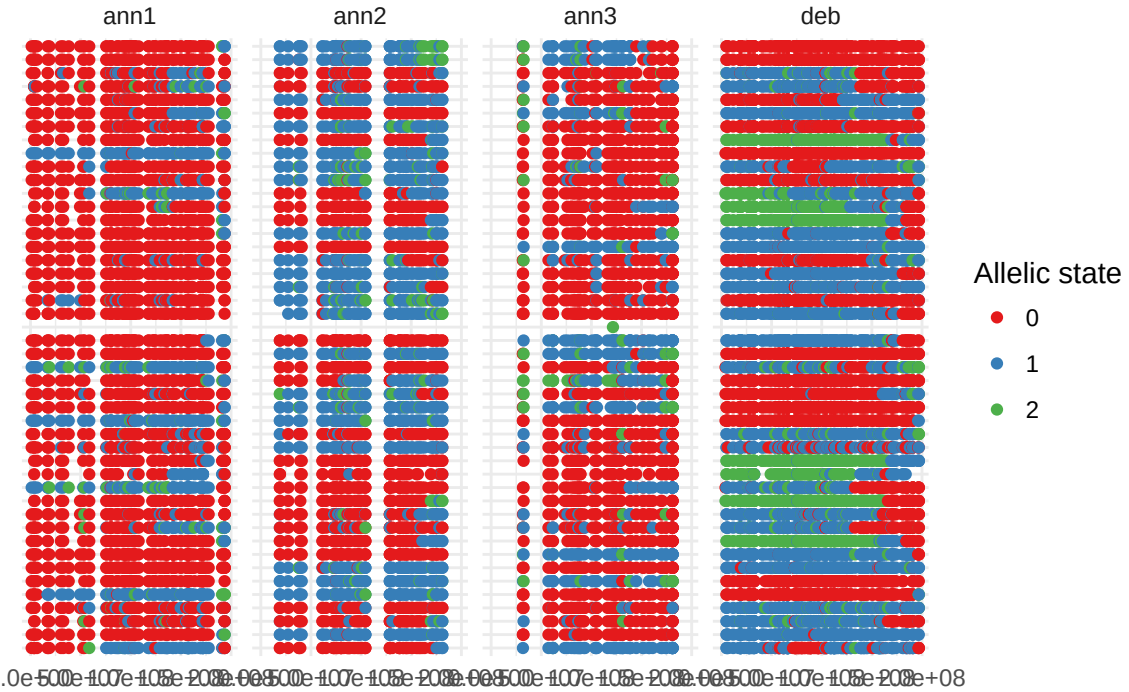
1
2

HCC 2 HanXRQChr13



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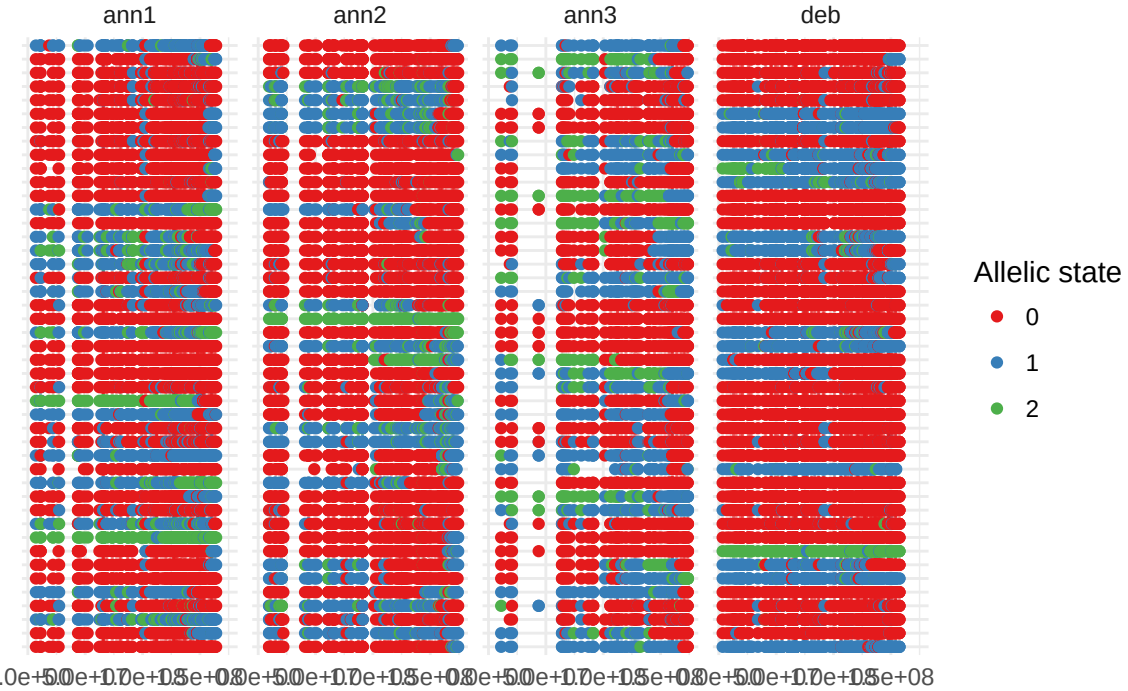

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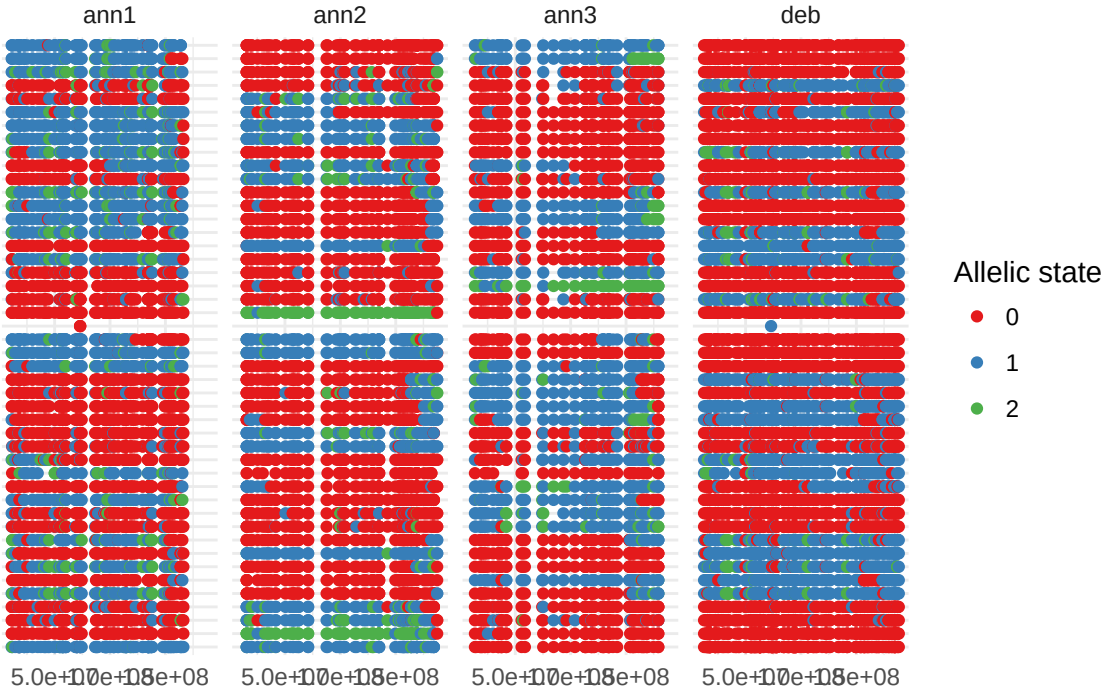
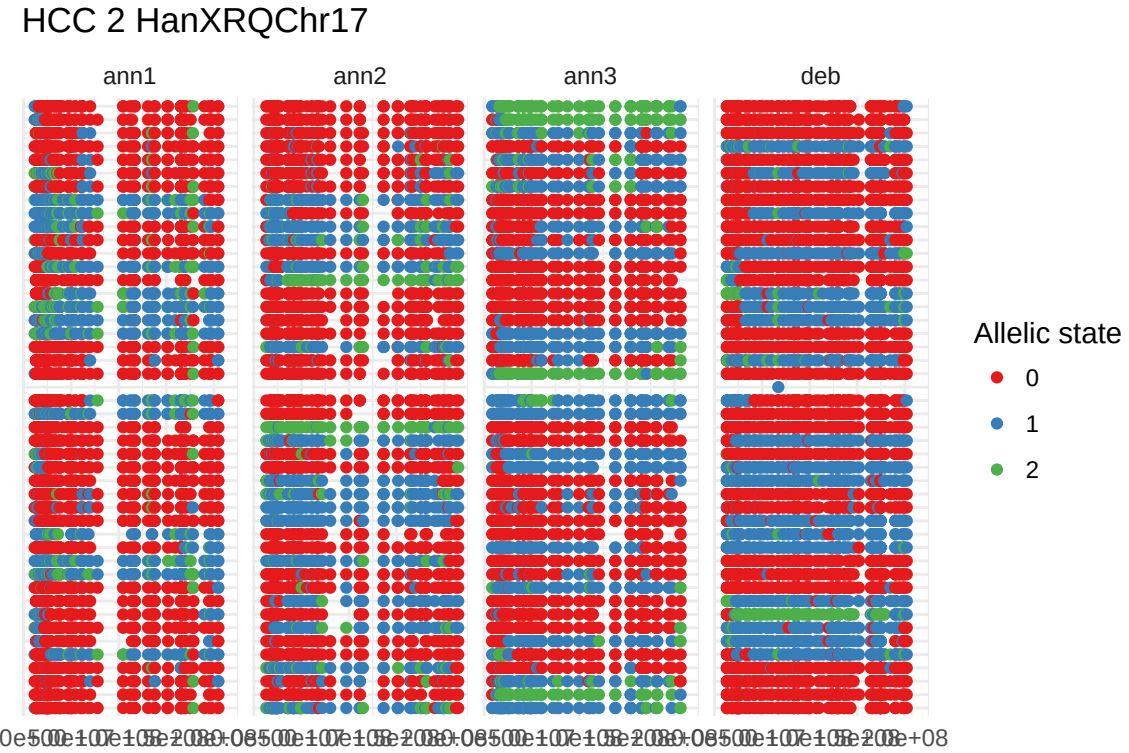
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+08

HCC 2 HanXRQChr16

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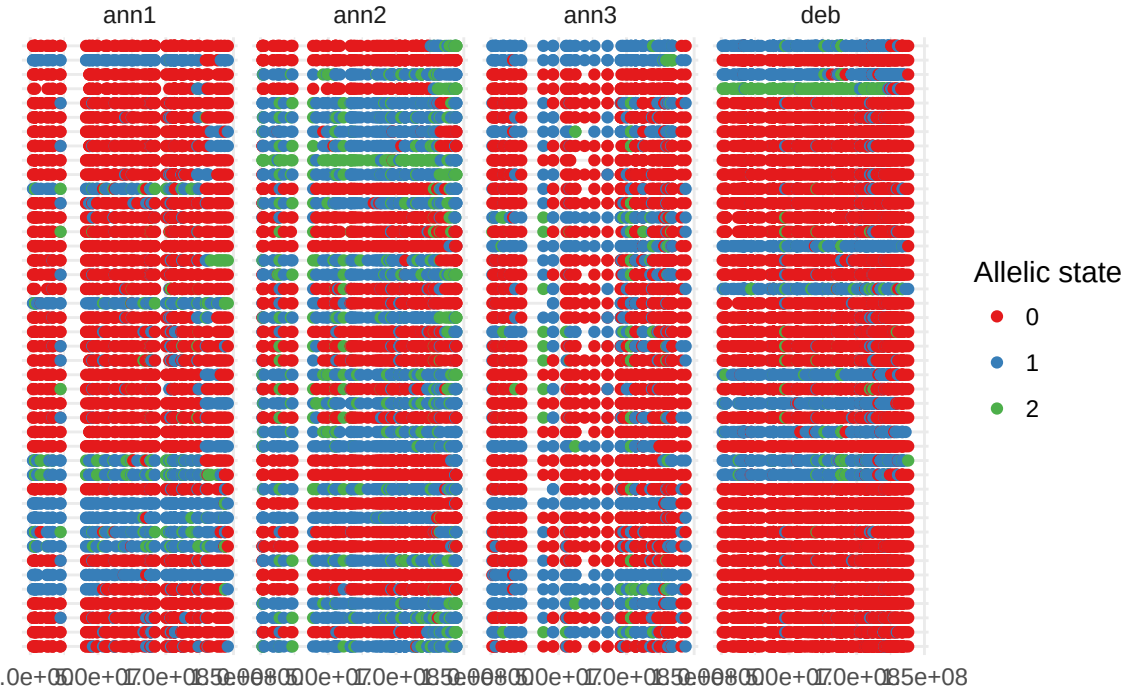
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 3 HanXRQChr01



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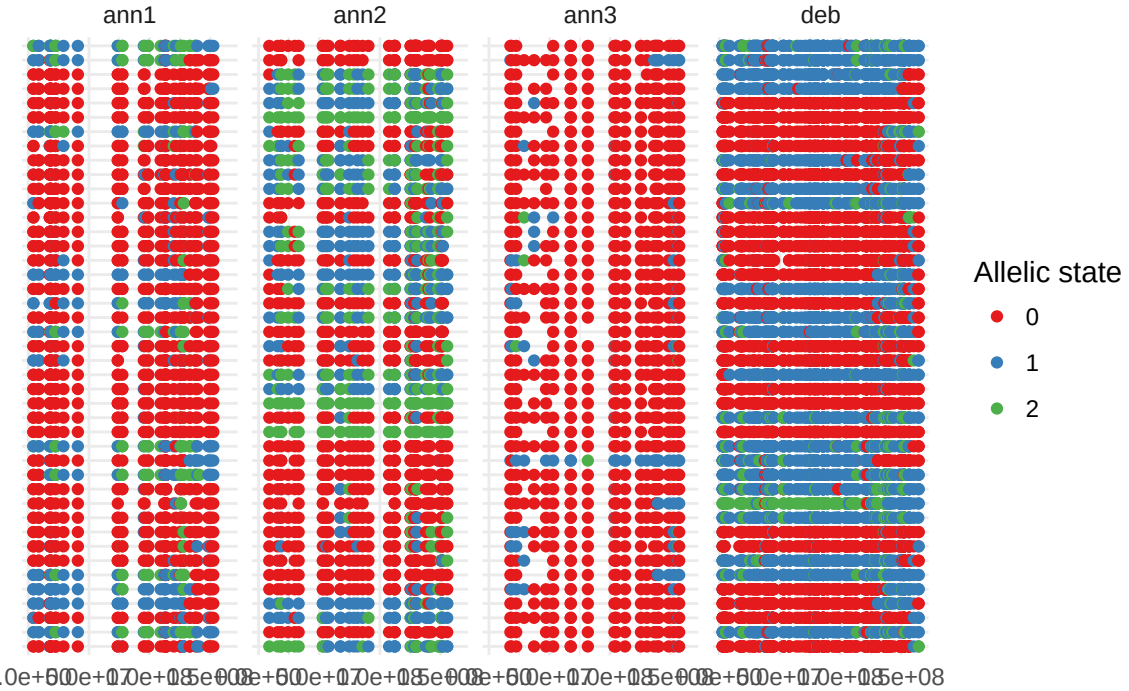

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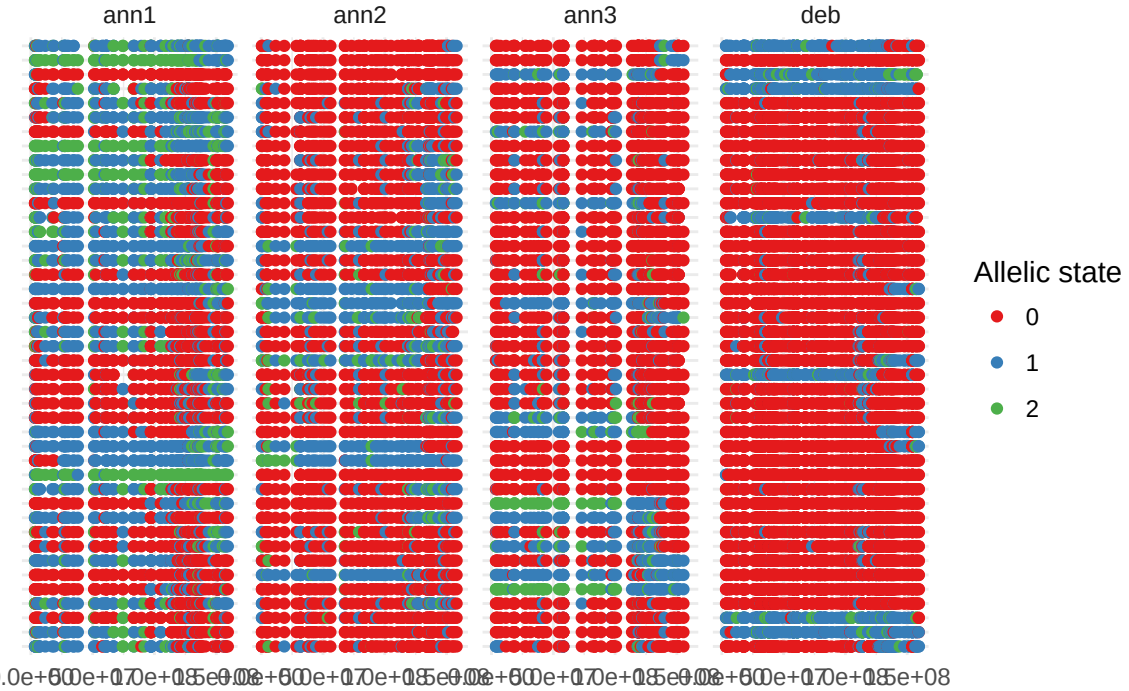

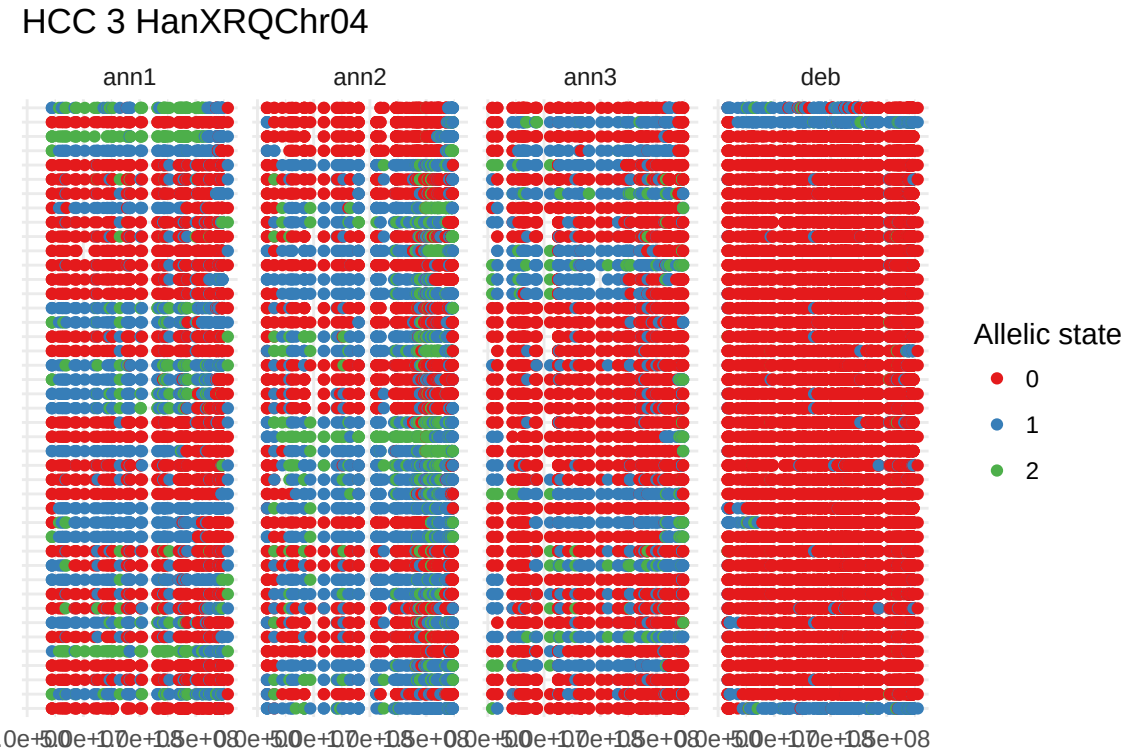
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ann2
ann3
deb
Allelic state
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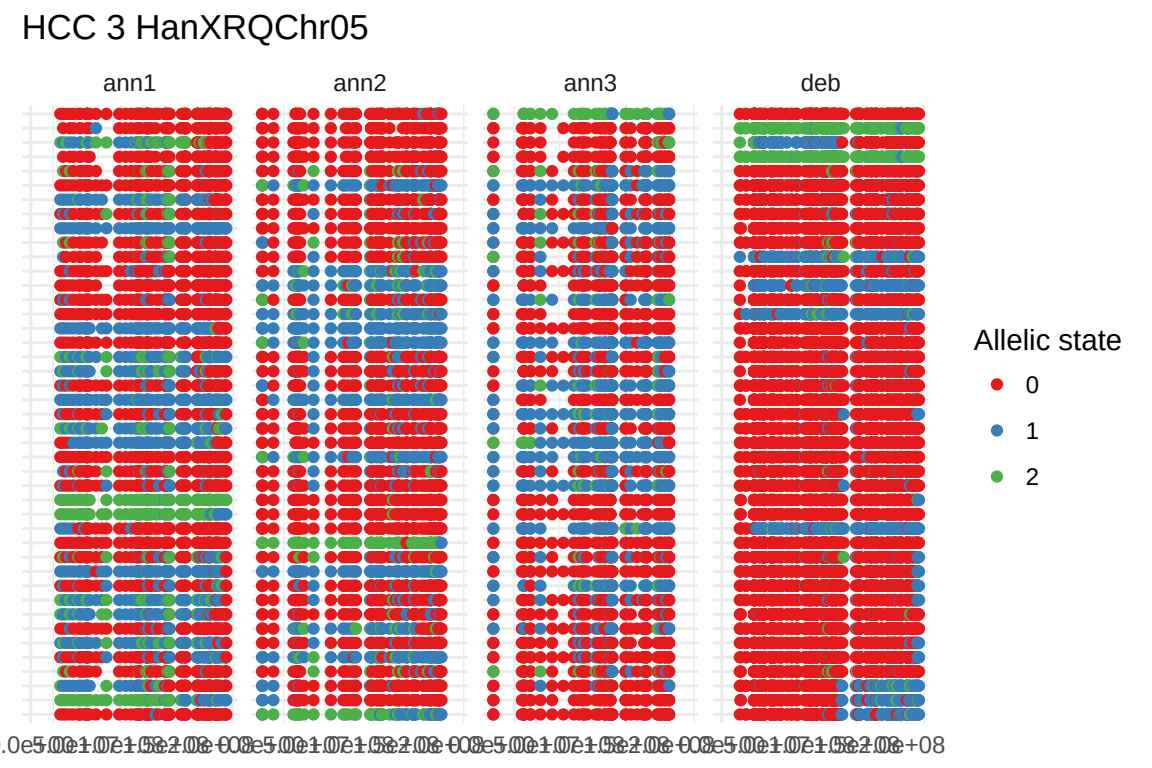
1
2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ann3
deb
Allelic state
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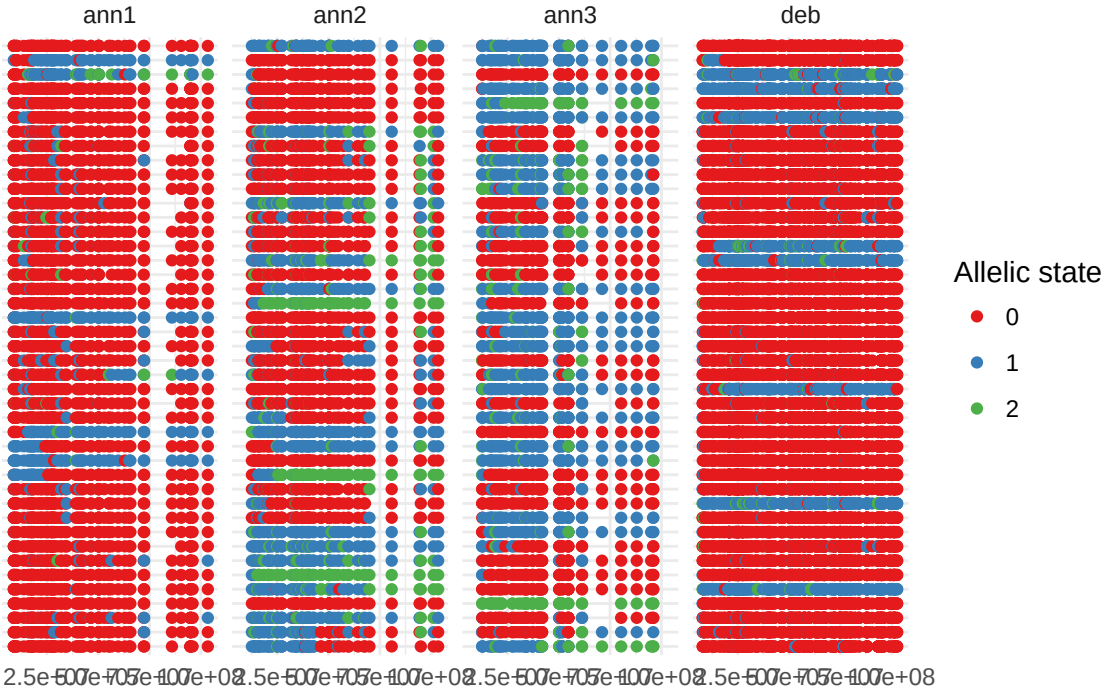
1
2

HCC 3 HanXRQChr06



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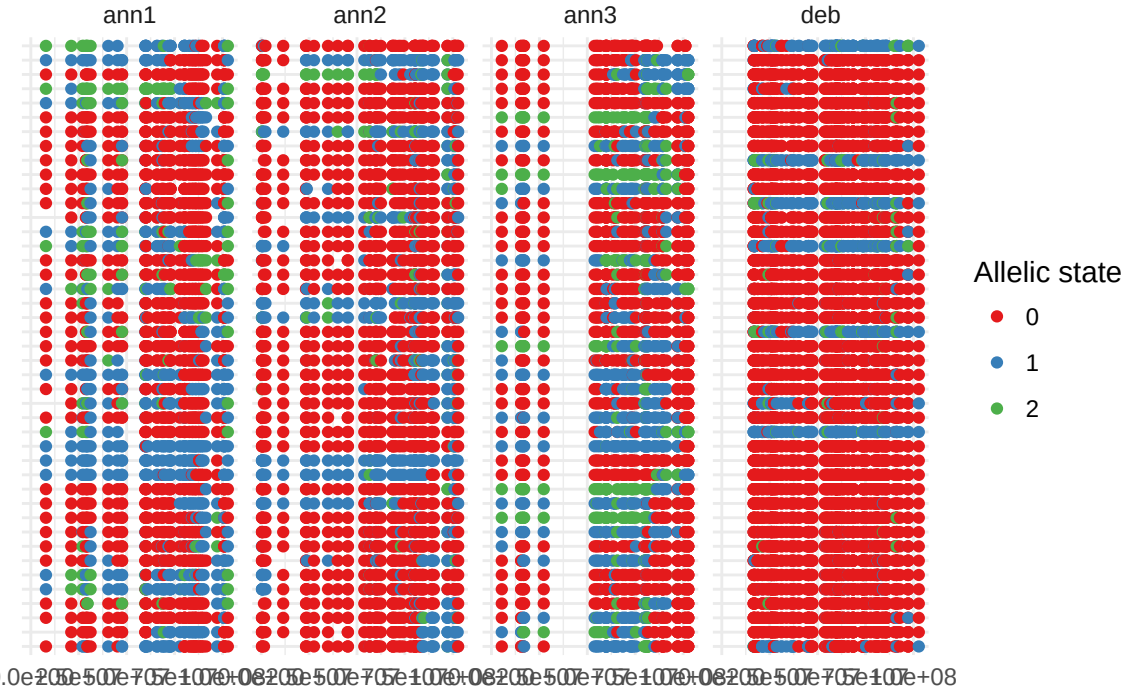

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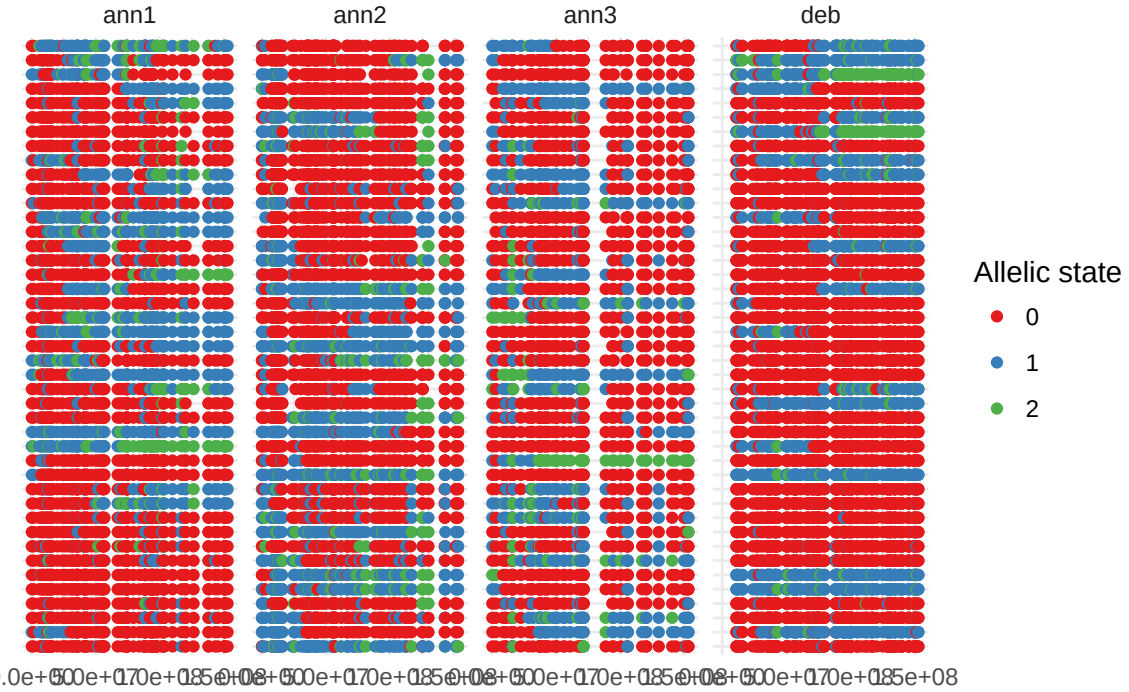

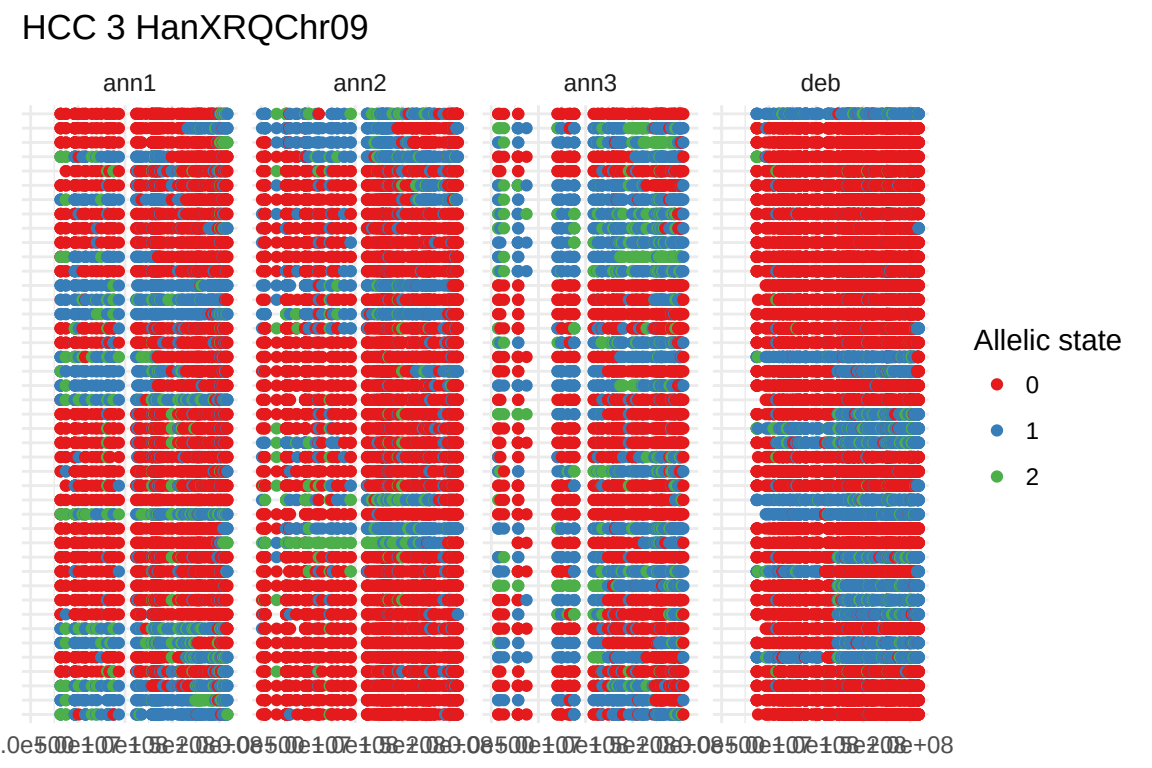
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ann2
ann3
deb
Allelic state
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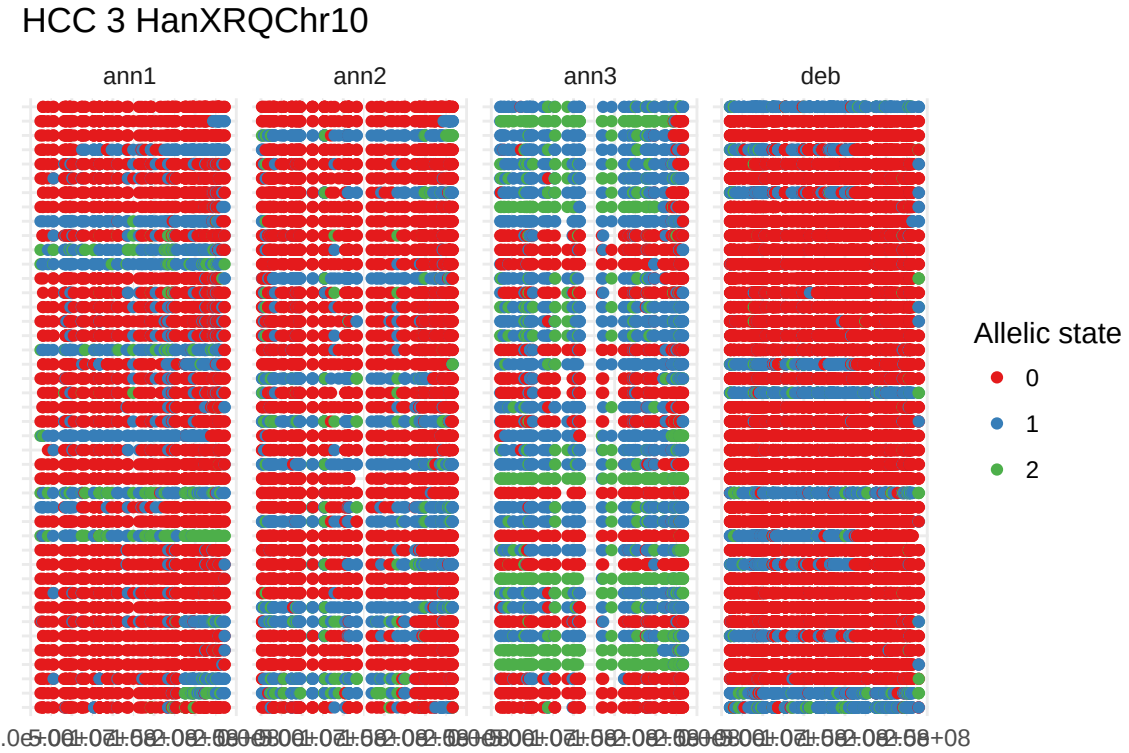
1
2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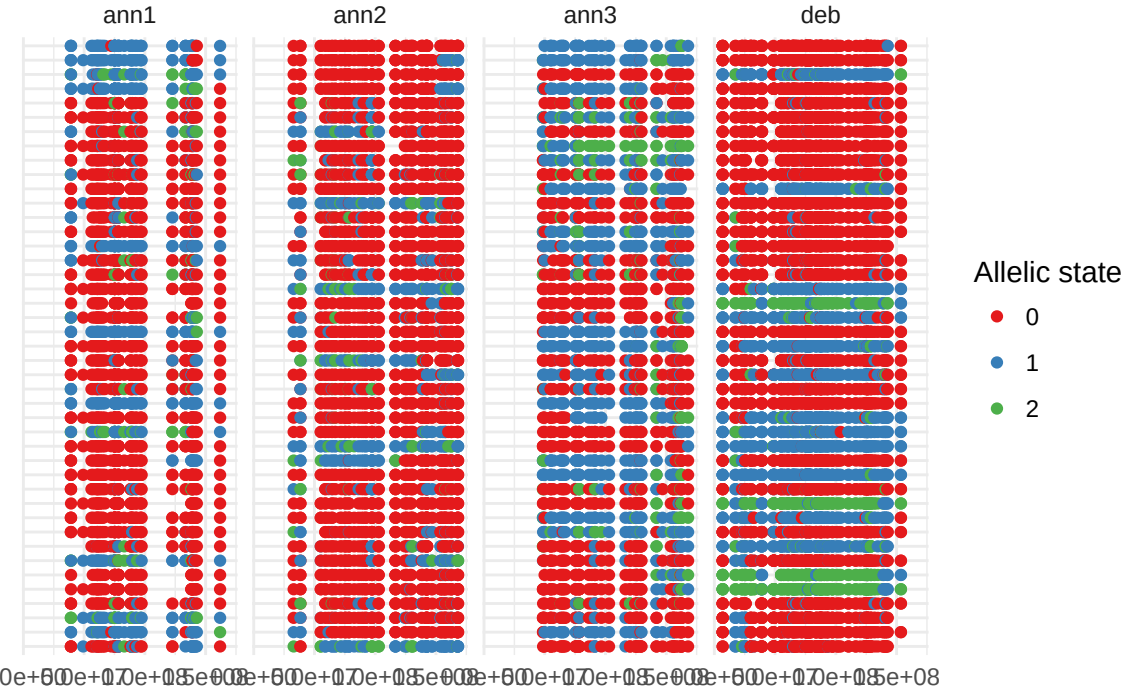
ann2
ann3
deb
Allelic state
0
1
2

HCC 3 HanXRQChr11



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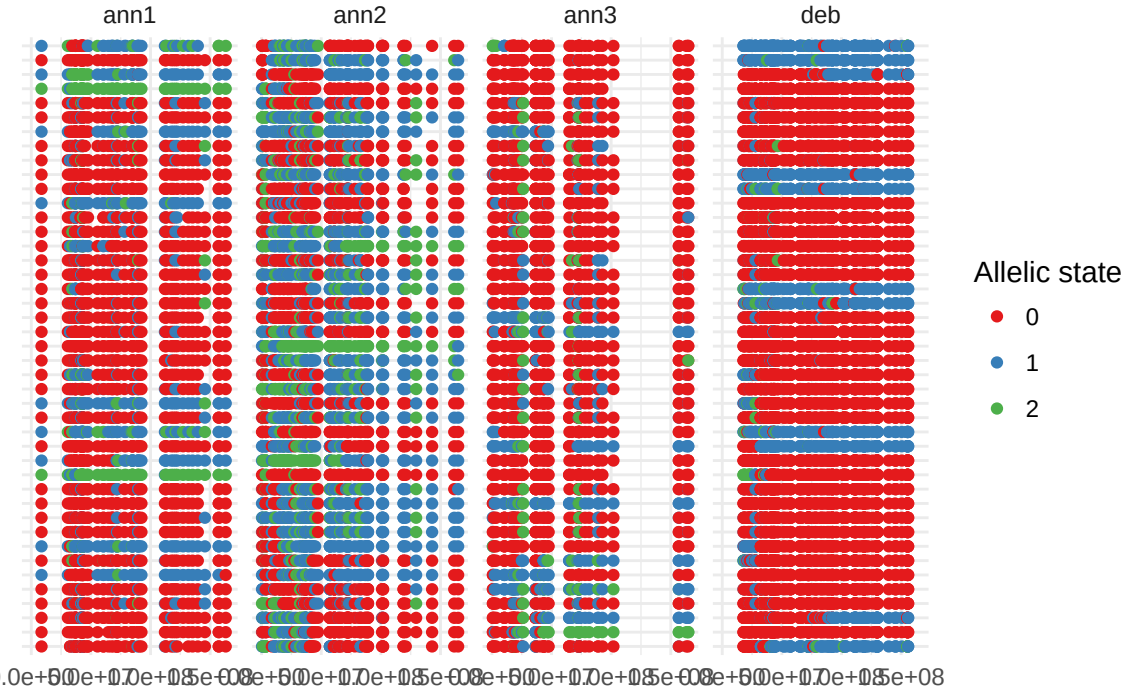

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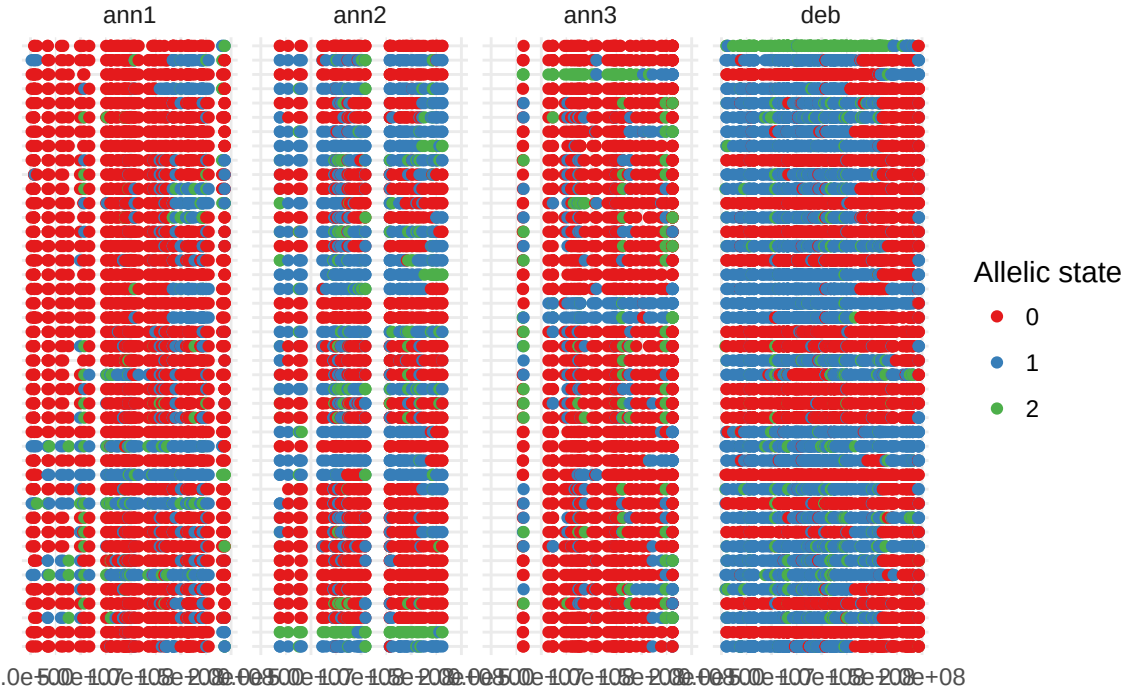

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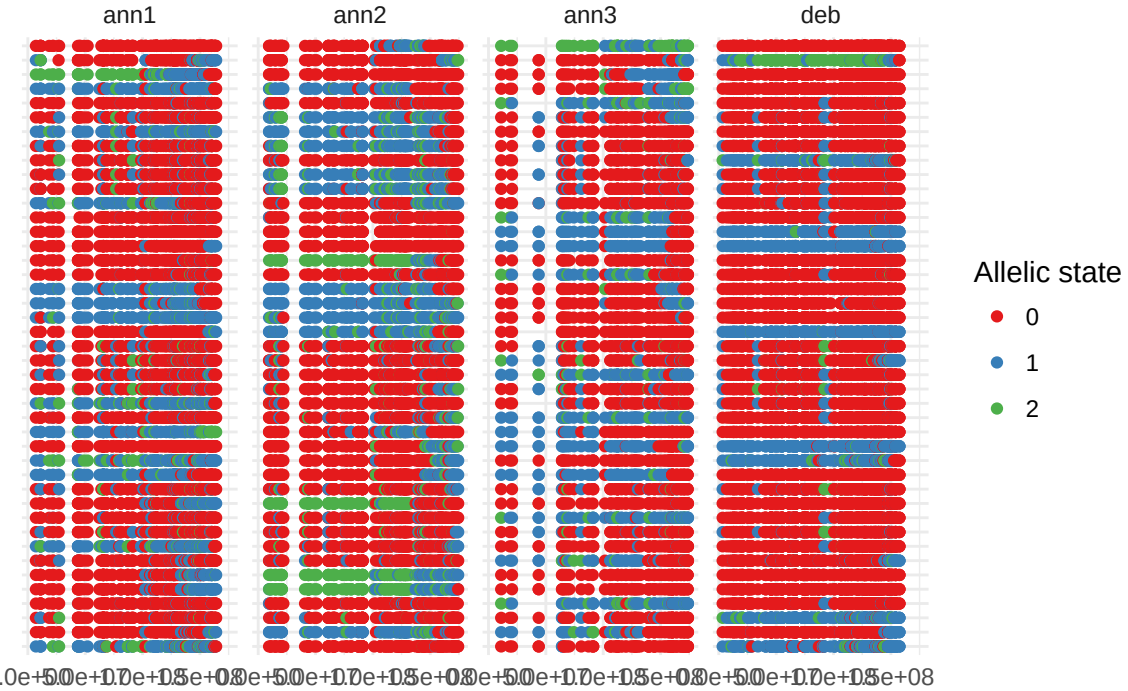

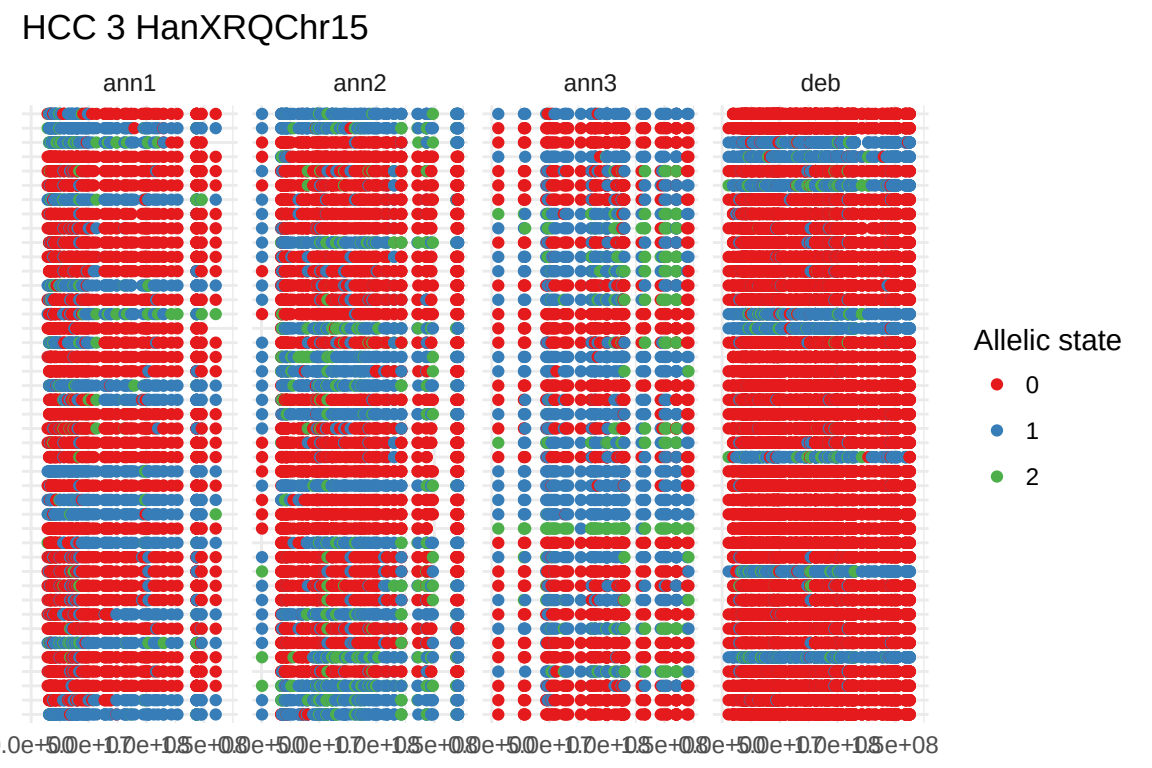
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ann1
ann2
ann3
deb
Allelic state
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1
2
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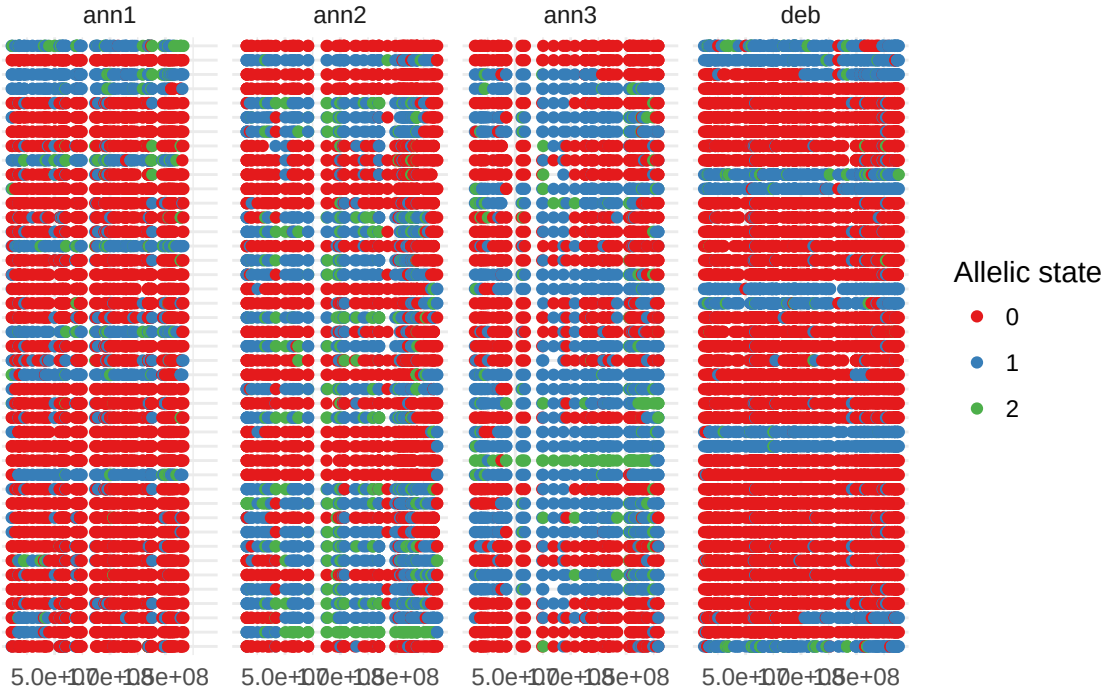
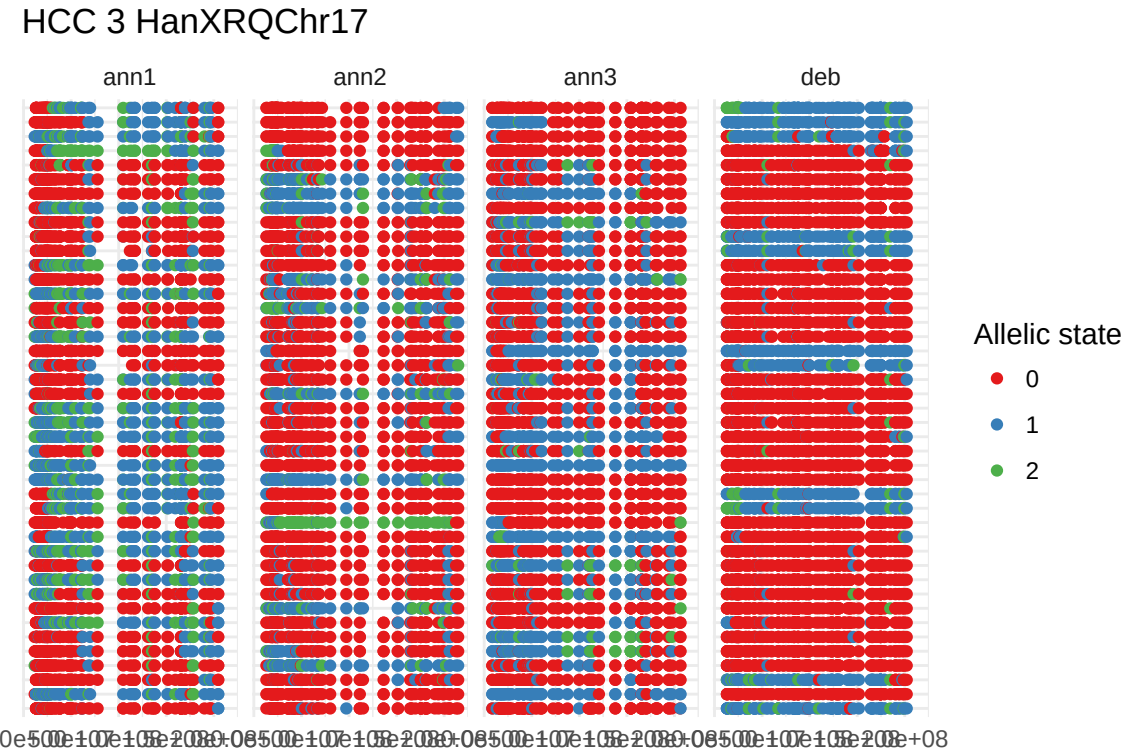
0.0e+1
0.7e+1
0.5e+8
0.8e+5
0.0e+1
0.7e+1
0.5e+8
0.8e+5
0.0e+1
0.7e+1
0.5e+8
0.8e+5
0.0e+1
0.7e+1
0.5e+8

HCC 3 HanXRQChr16

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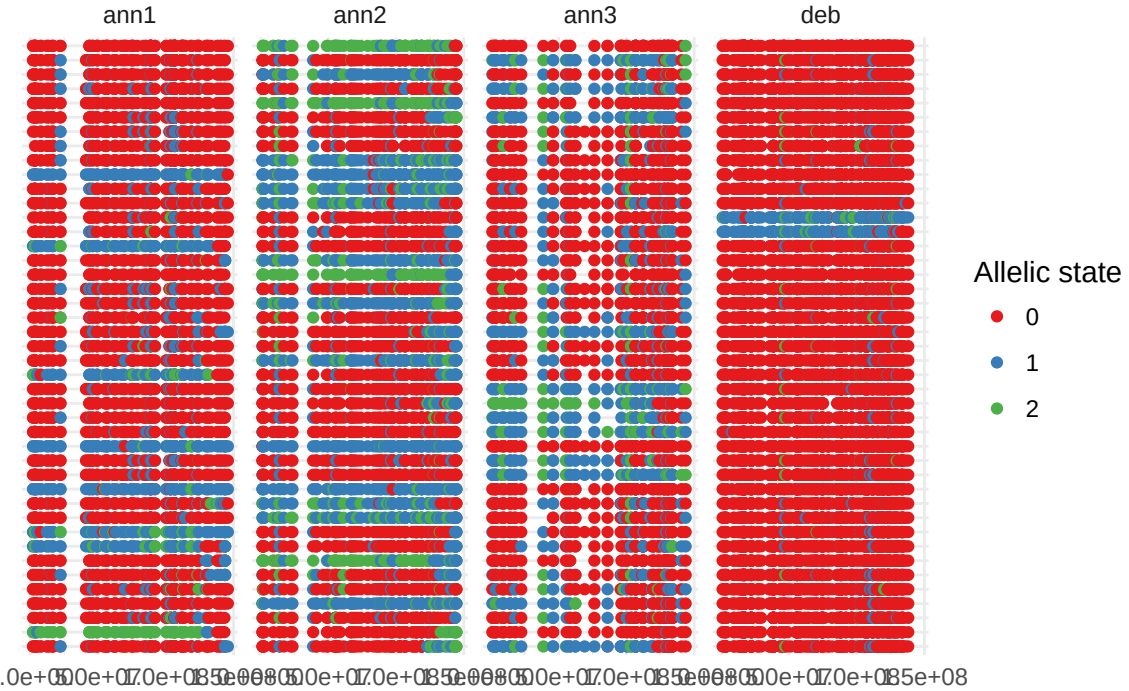
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 4 HanXRQChr01



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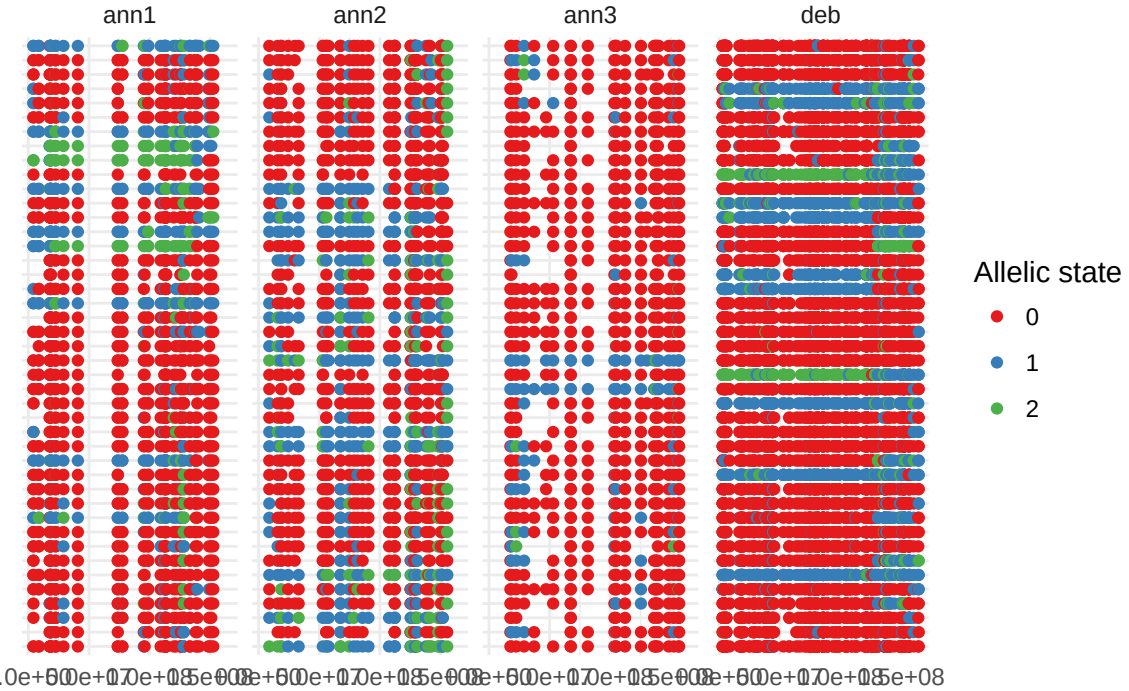

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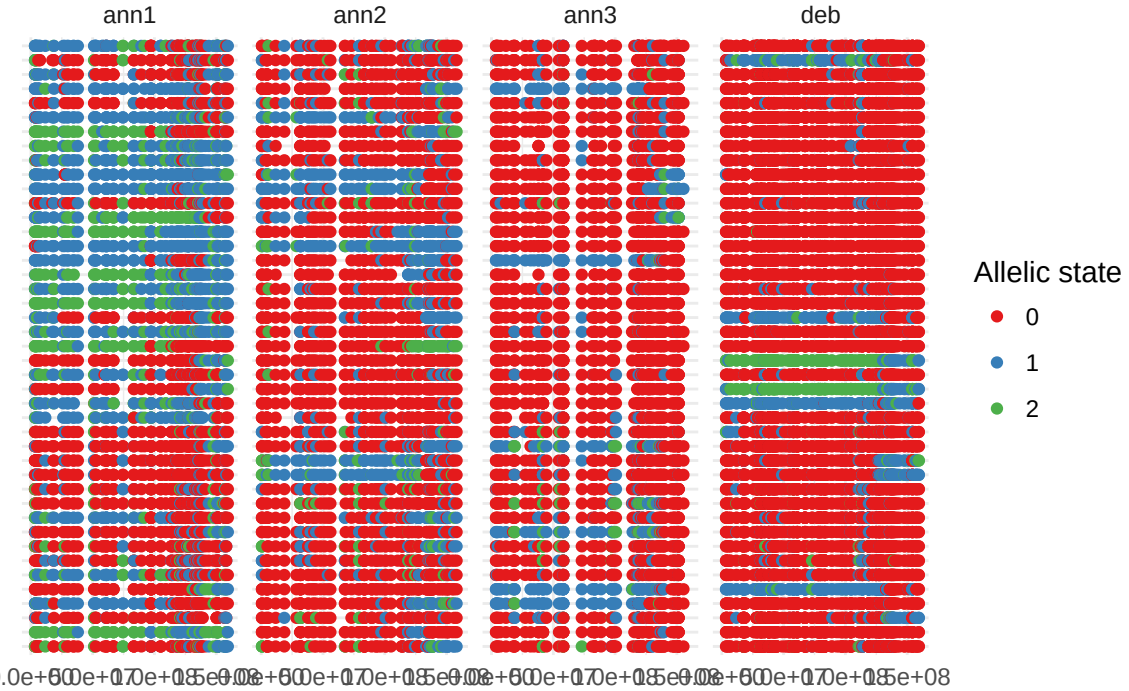

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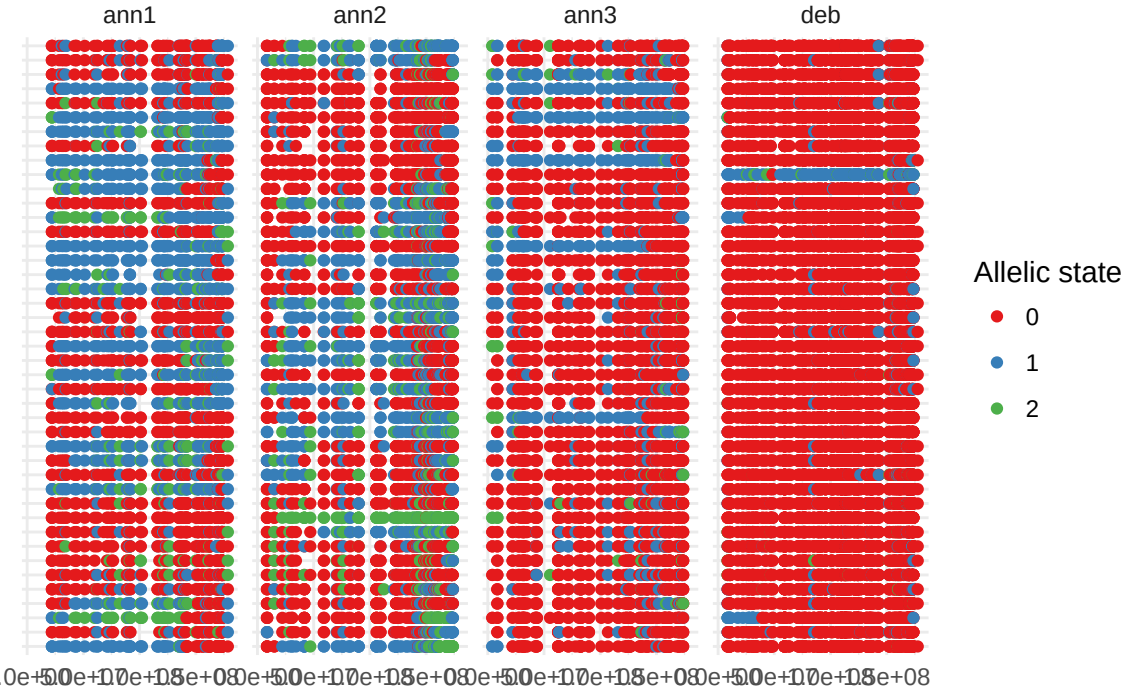
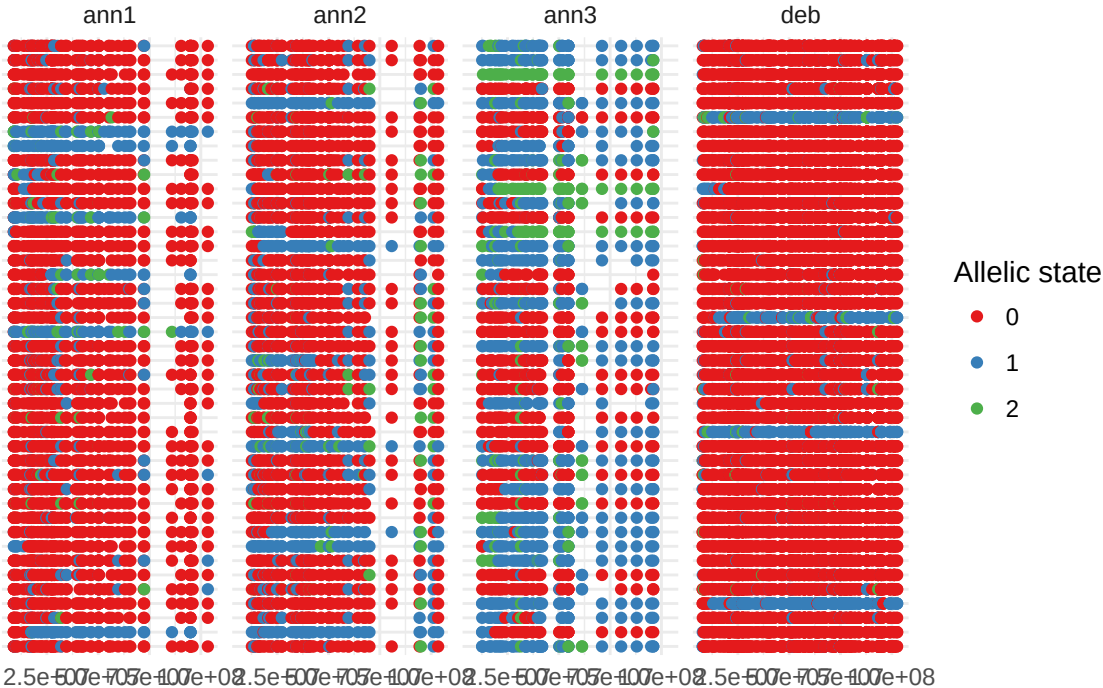
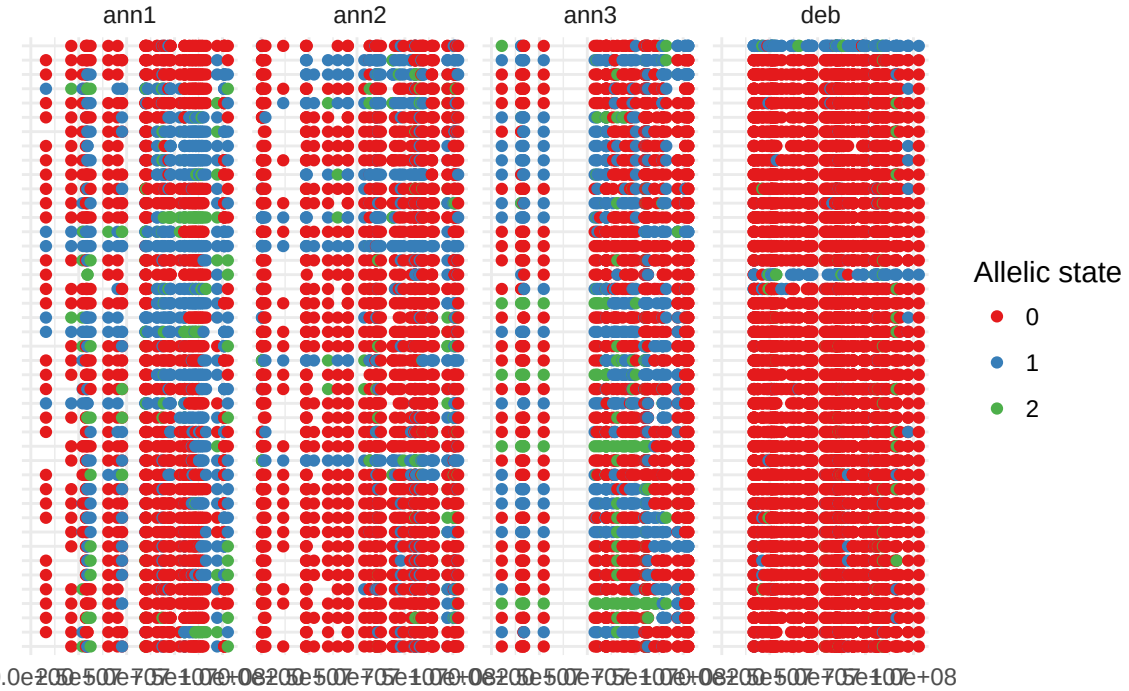


HCC 4 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 4 HanXRQChr06



HCC 4 HanXRQChr07



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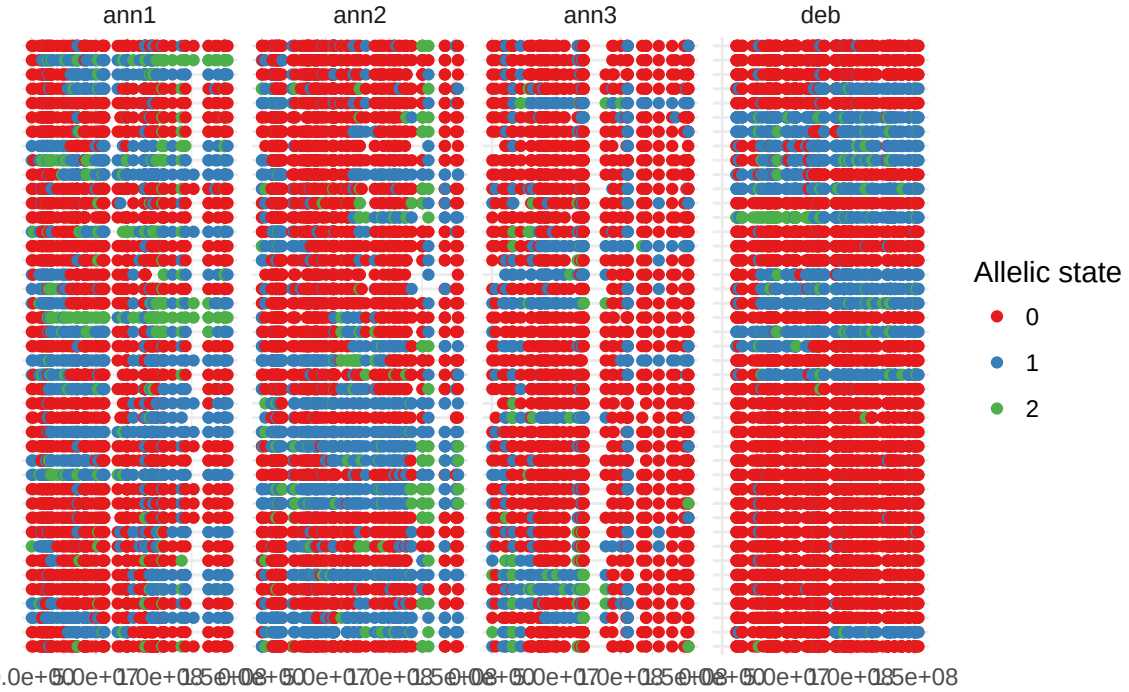

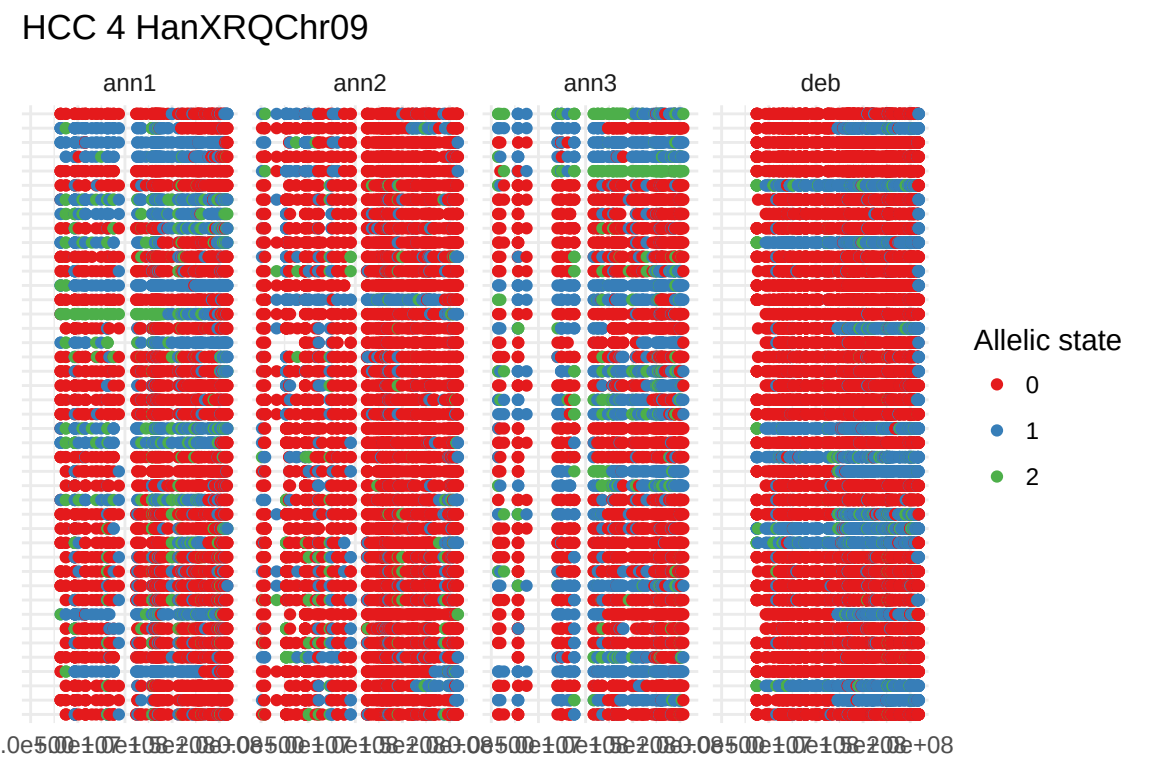
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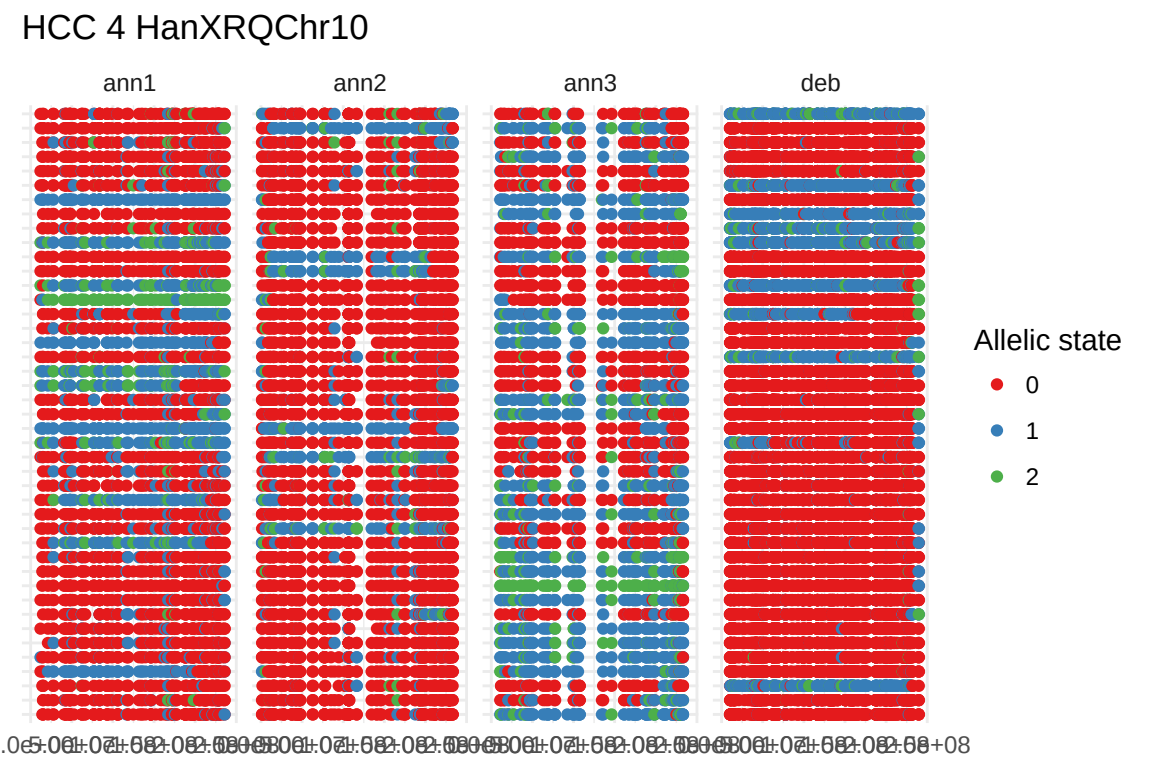
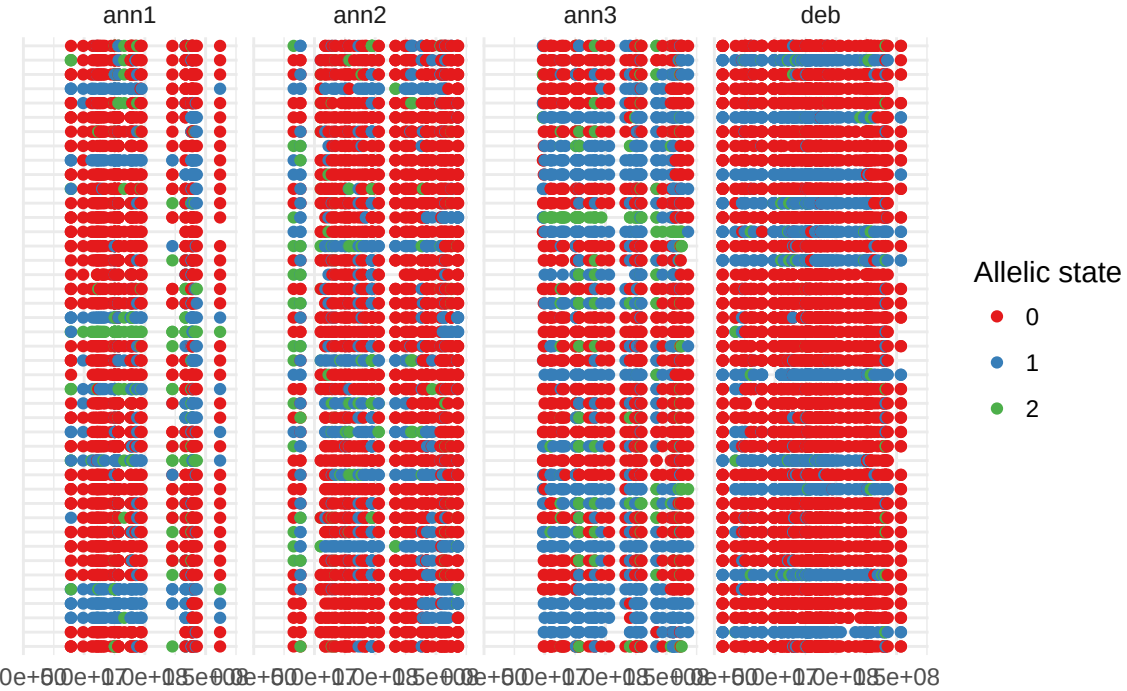
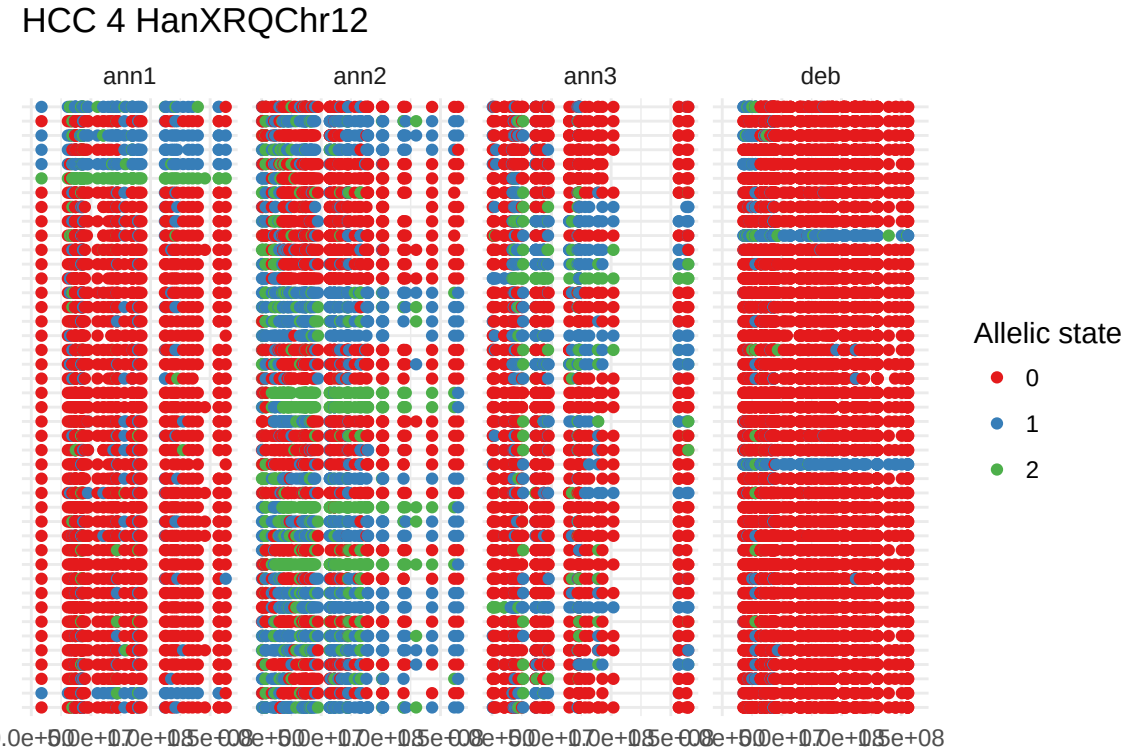
ann1
ann2
ann3
deb
Allelic state
0
1
2


HCC 4 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
0
1
2

HCC 4 HanXRQChr11

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ann2
ann3
deb
Allelic state
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1
2
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0.0e+07
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5.0e-08
8.0e+00
0.0e+07
7.0e+05
5.0e-08
8.0e+00
0.0e+07
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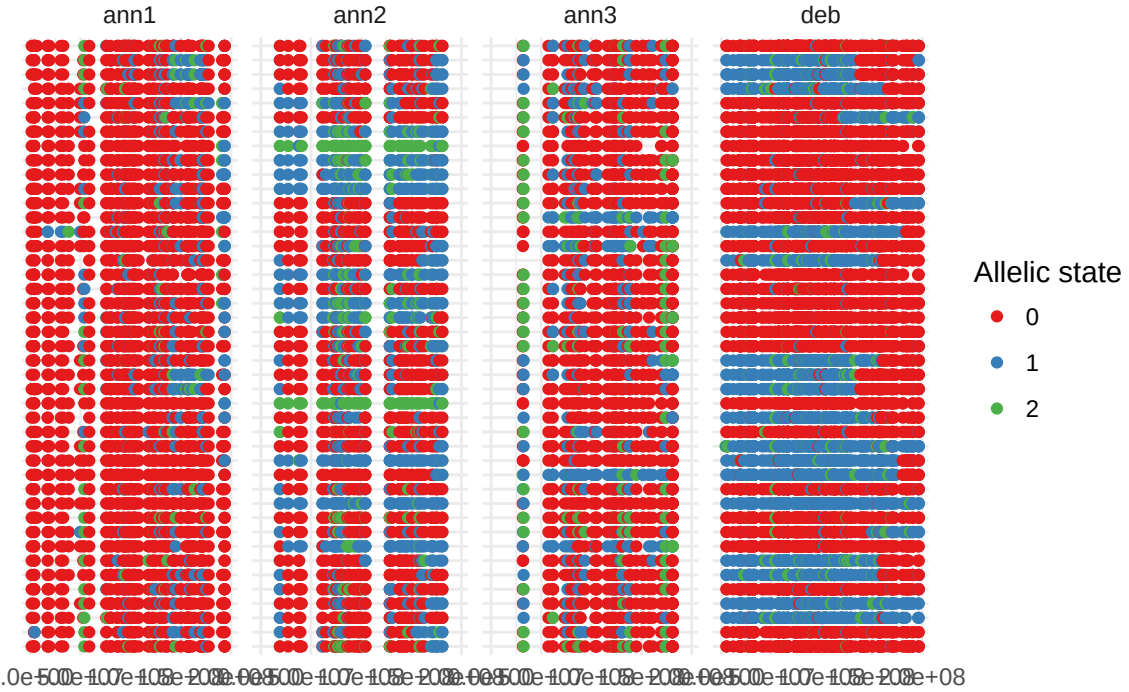
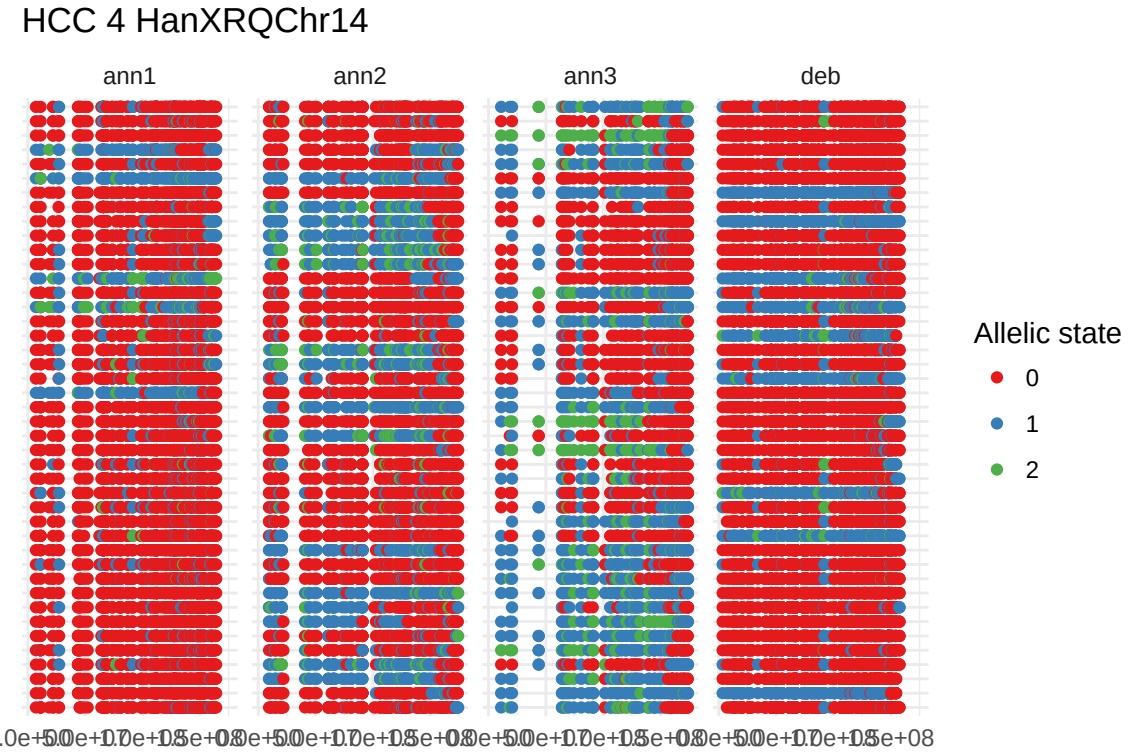
8.0e+00
0.0e+07
7.0e+05
5.0e+08

HCC 4 HanXRQChr13

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ann2
ann3
deb
Allelic state
0
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2

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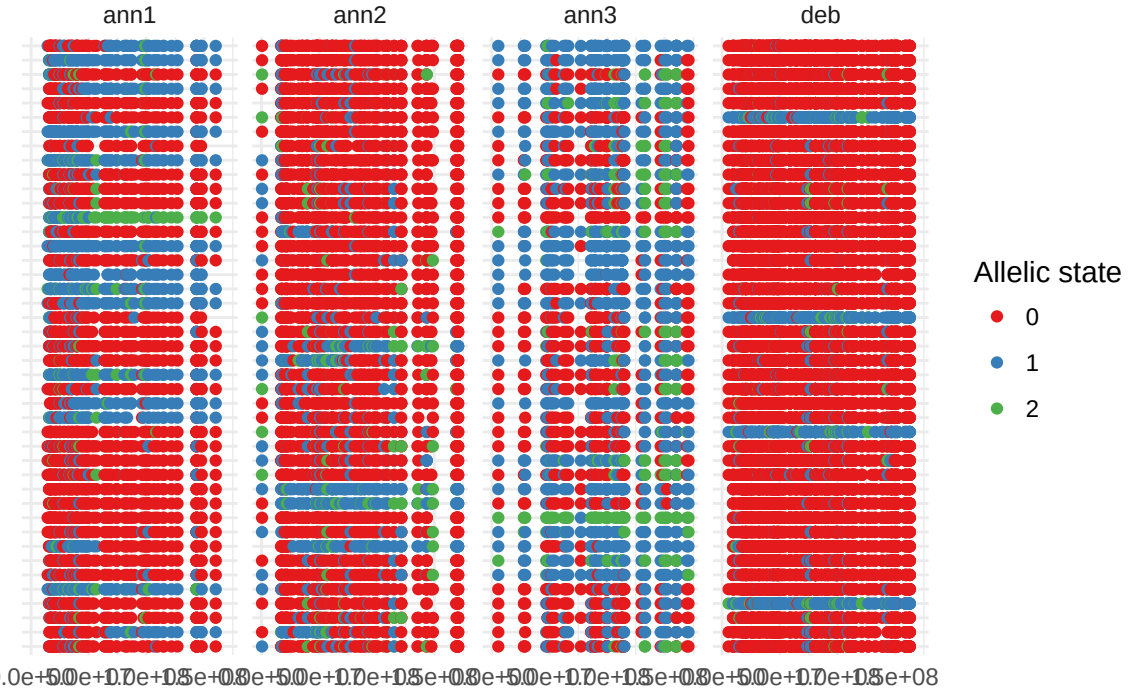

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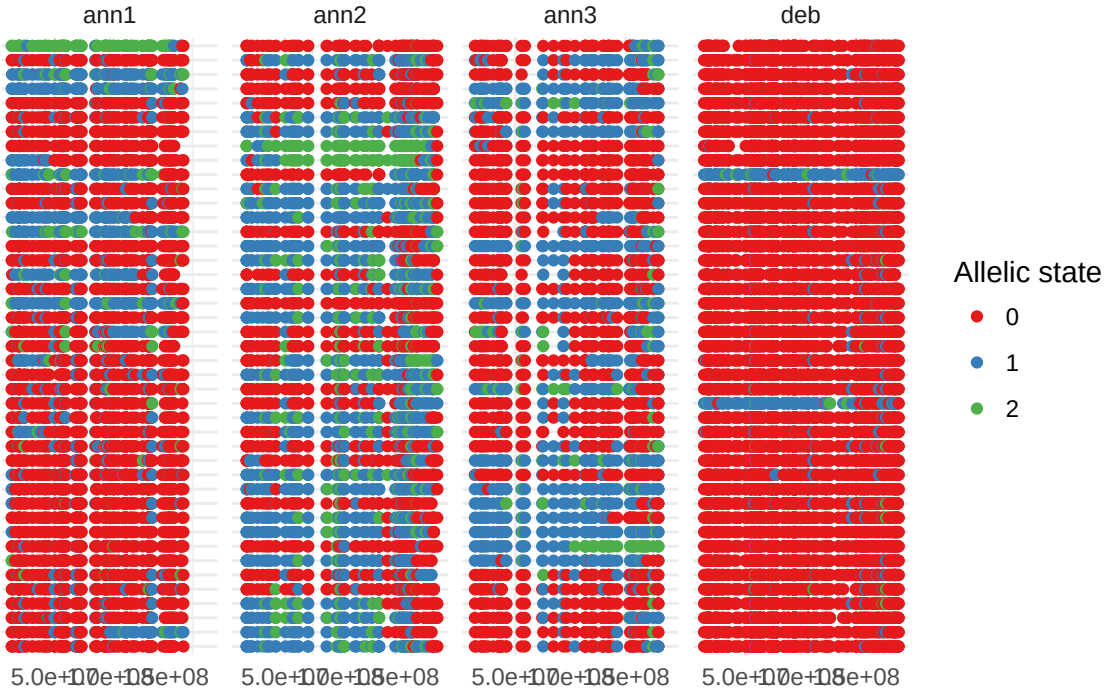

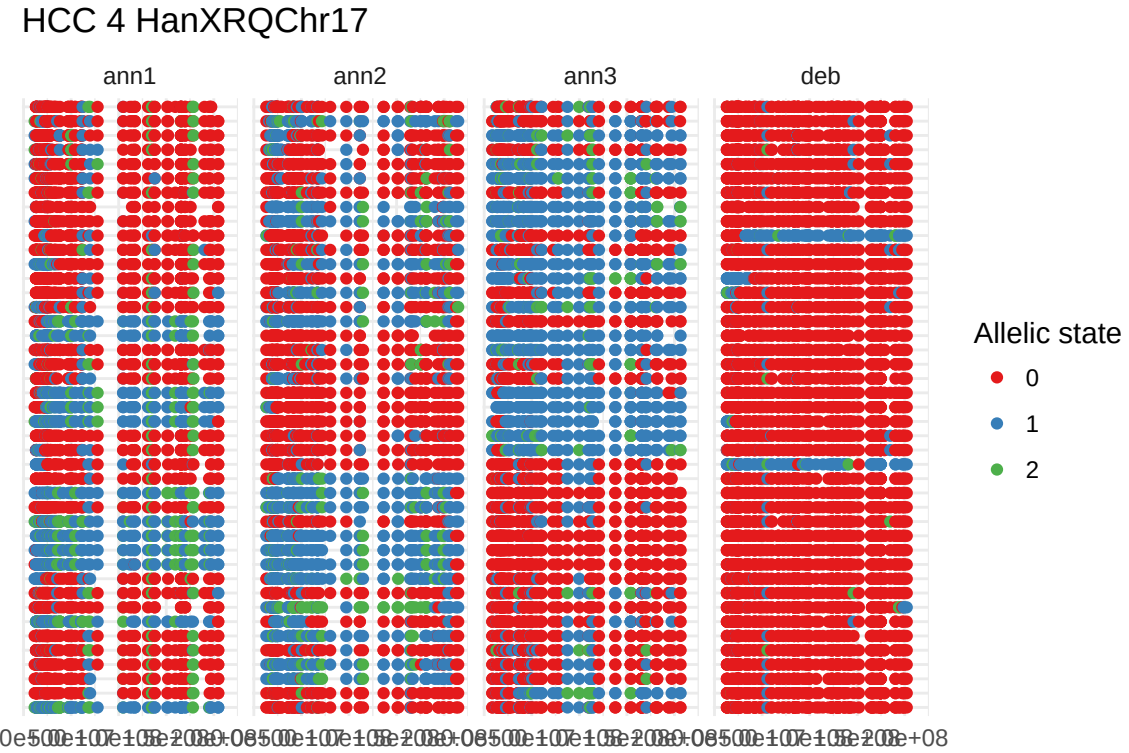
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1
2

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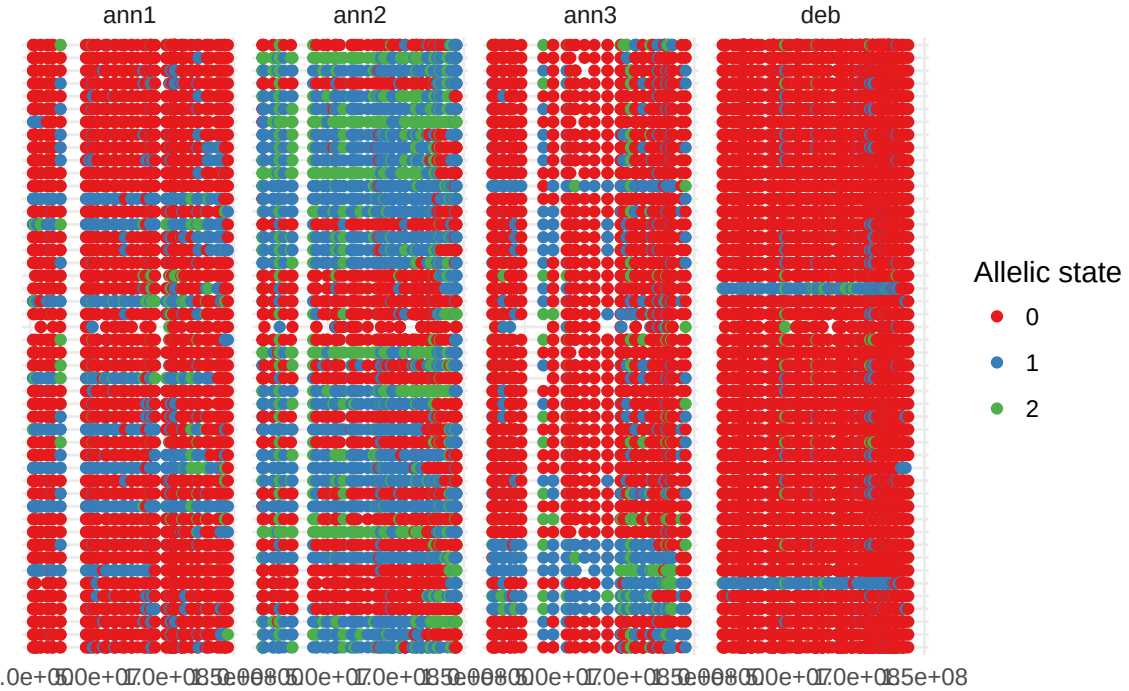

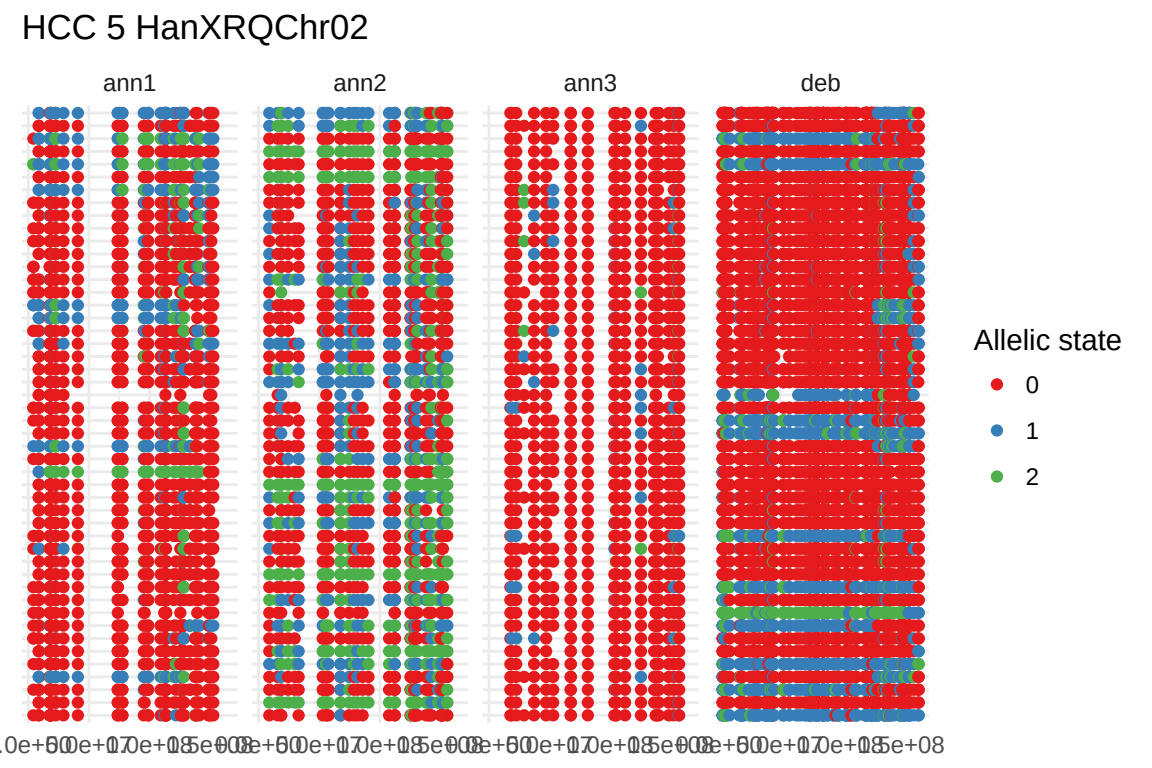
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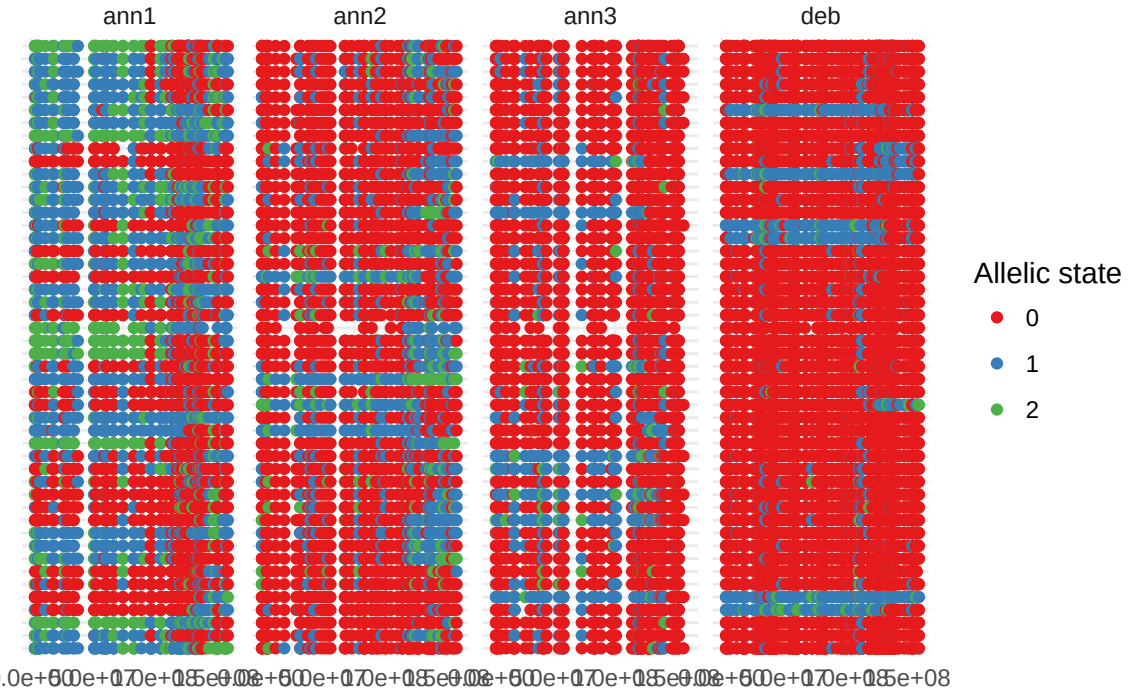

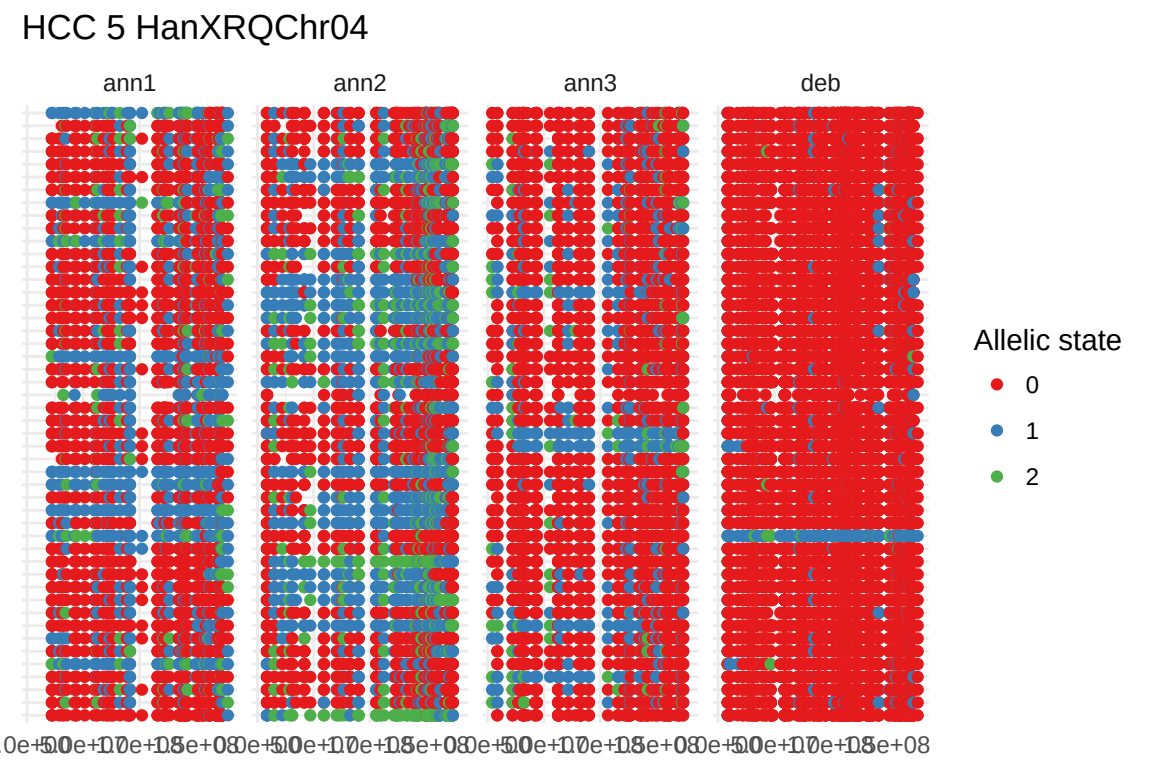
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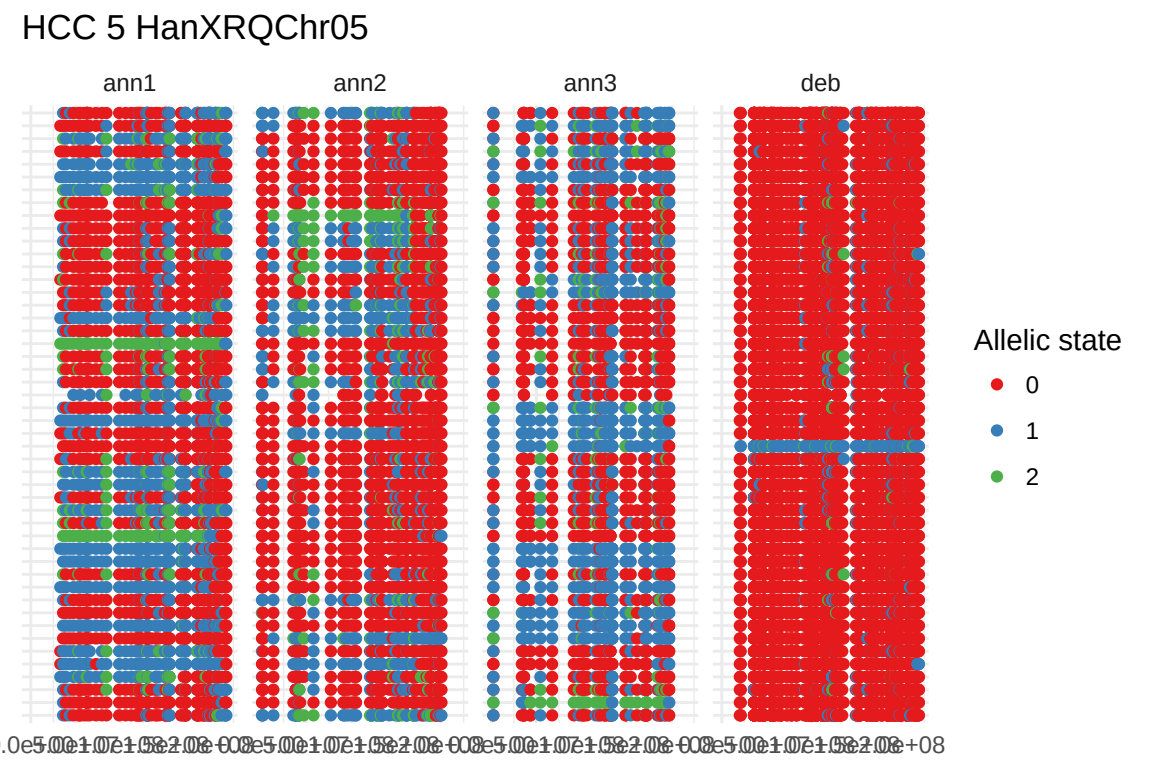
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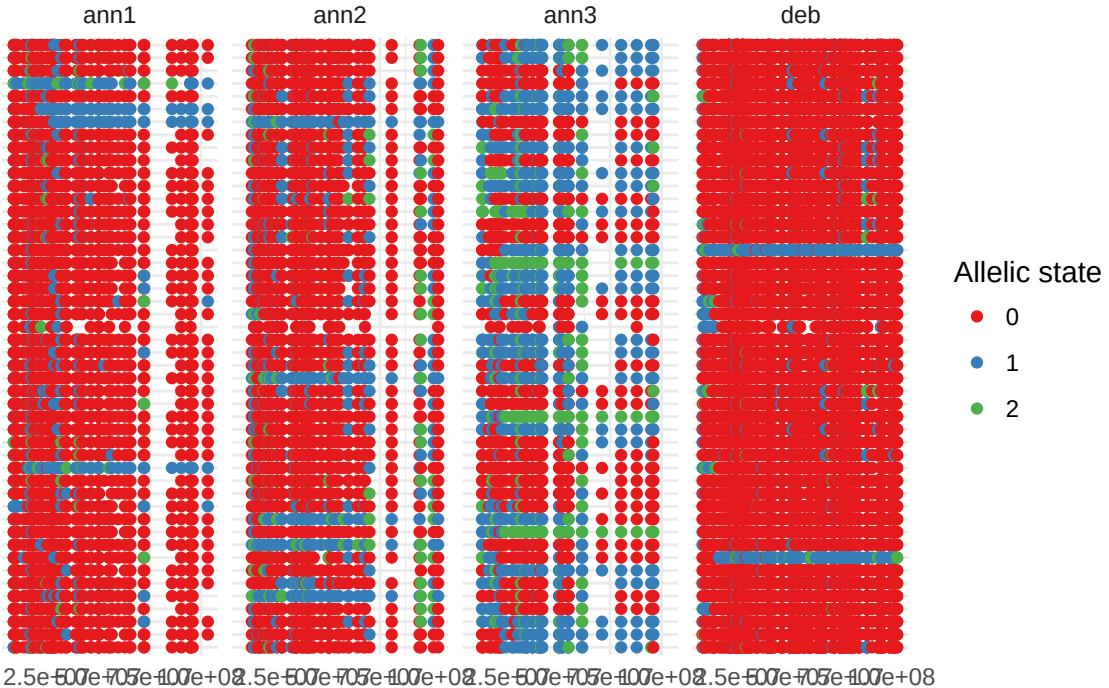
1
2

HCC 5 HanXRQChr06



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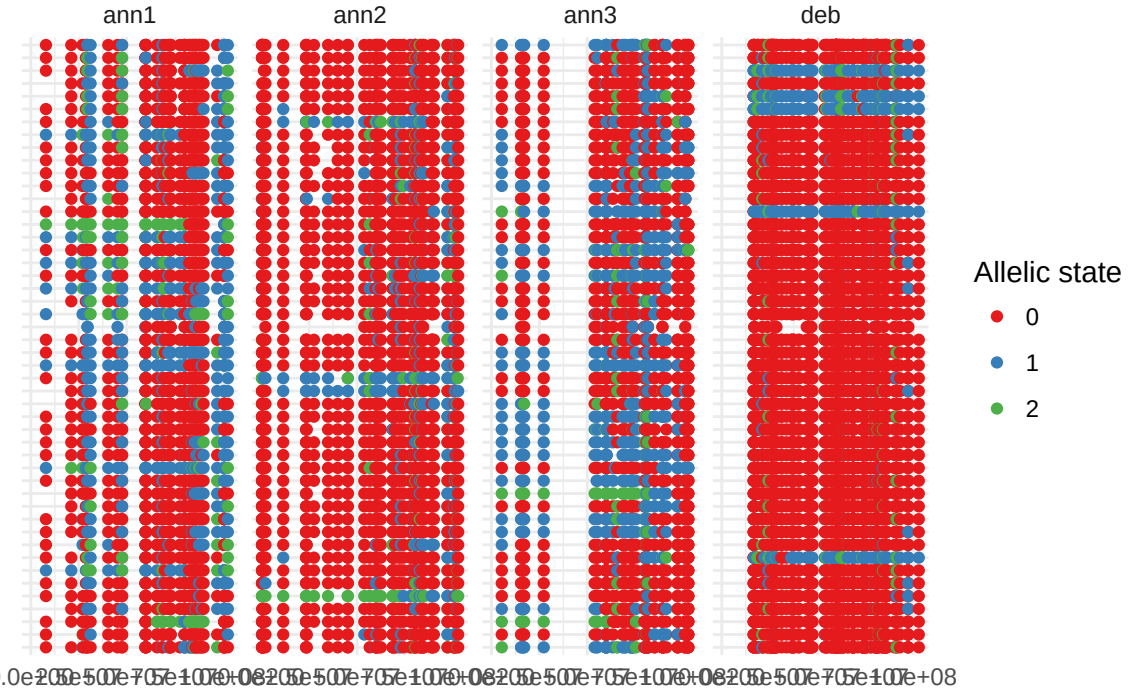

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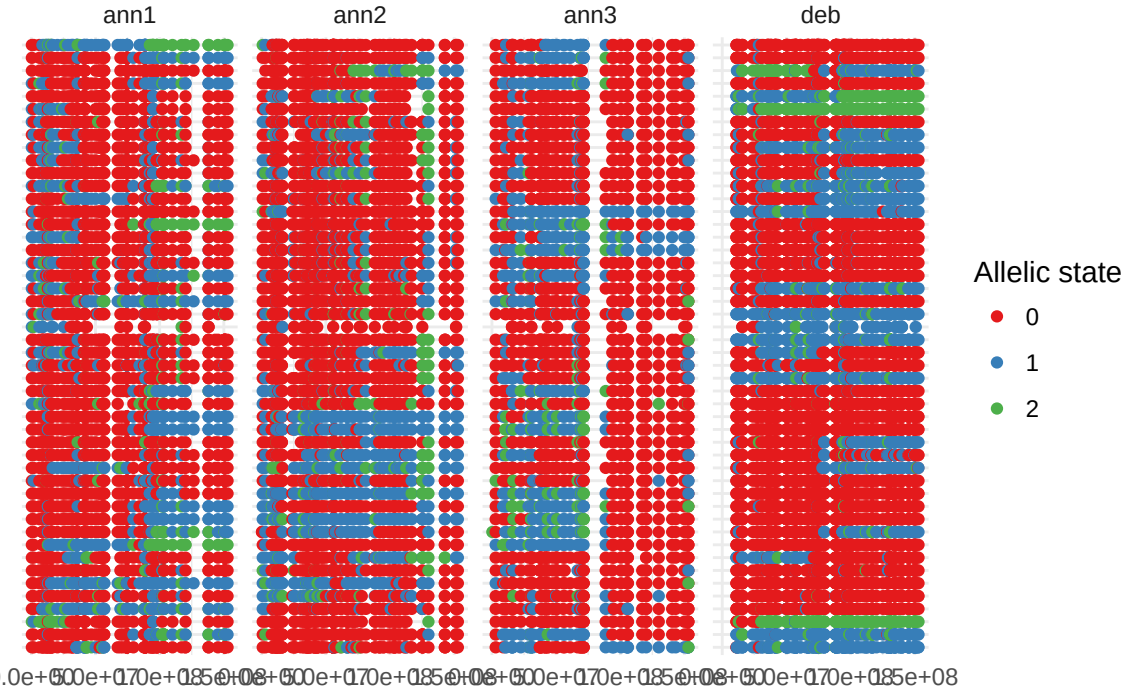

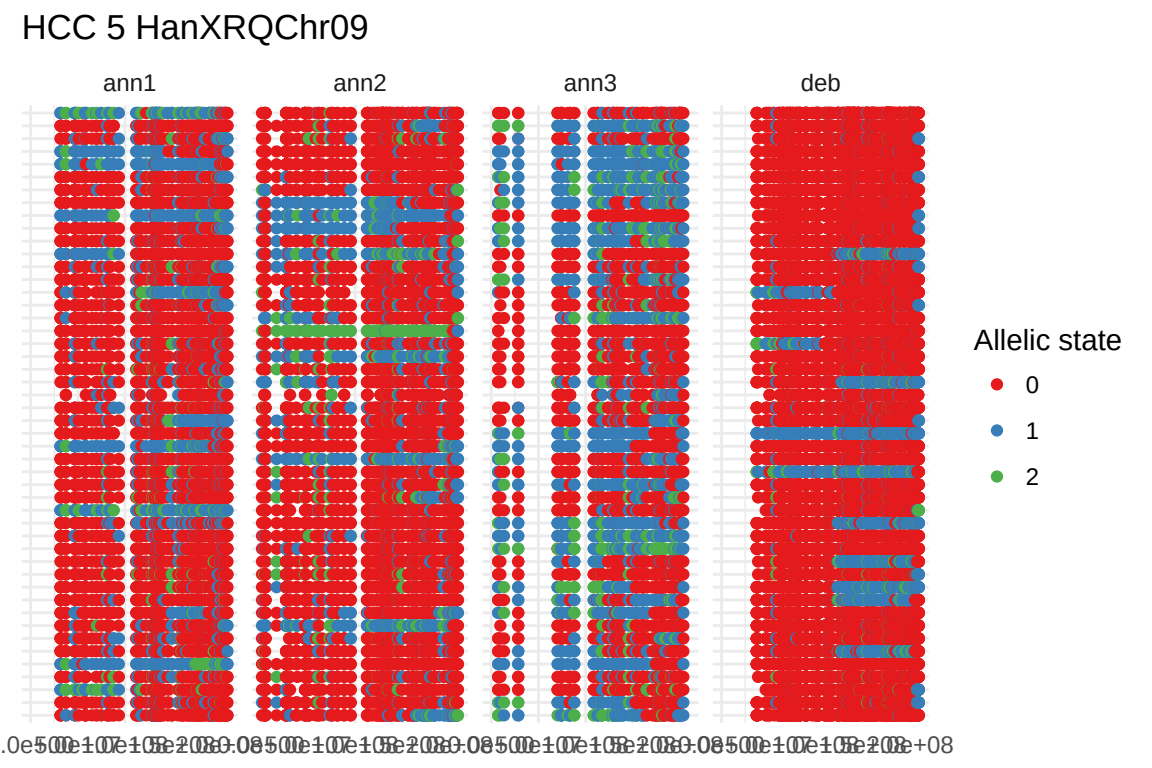
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Allelic state
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1
2

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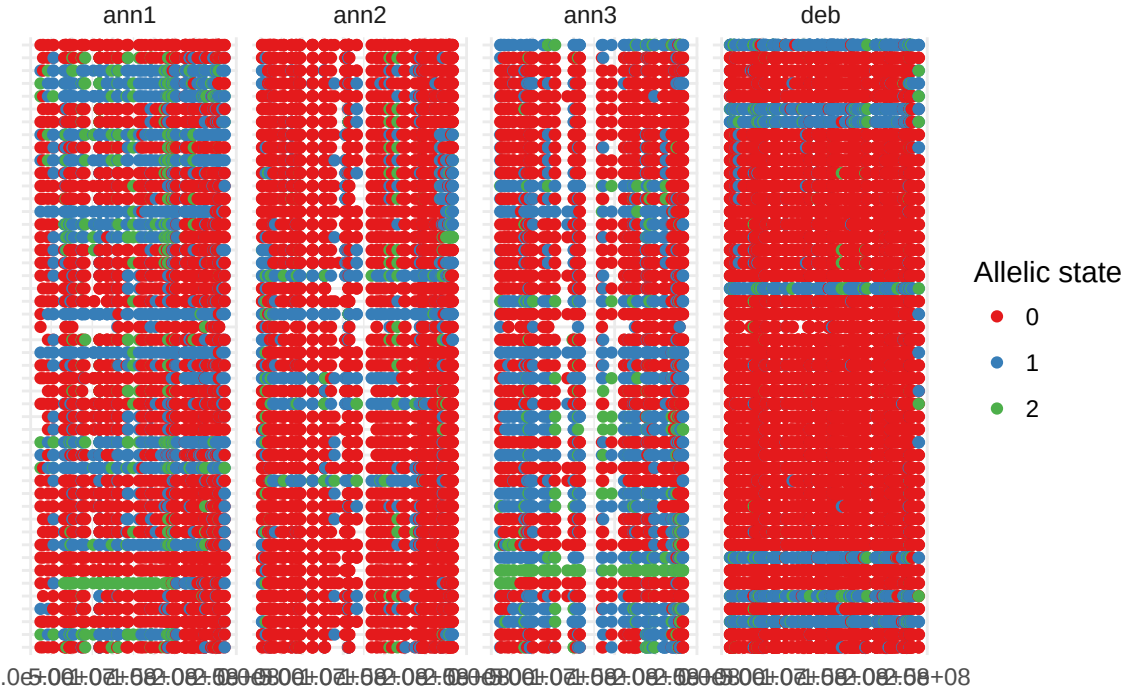

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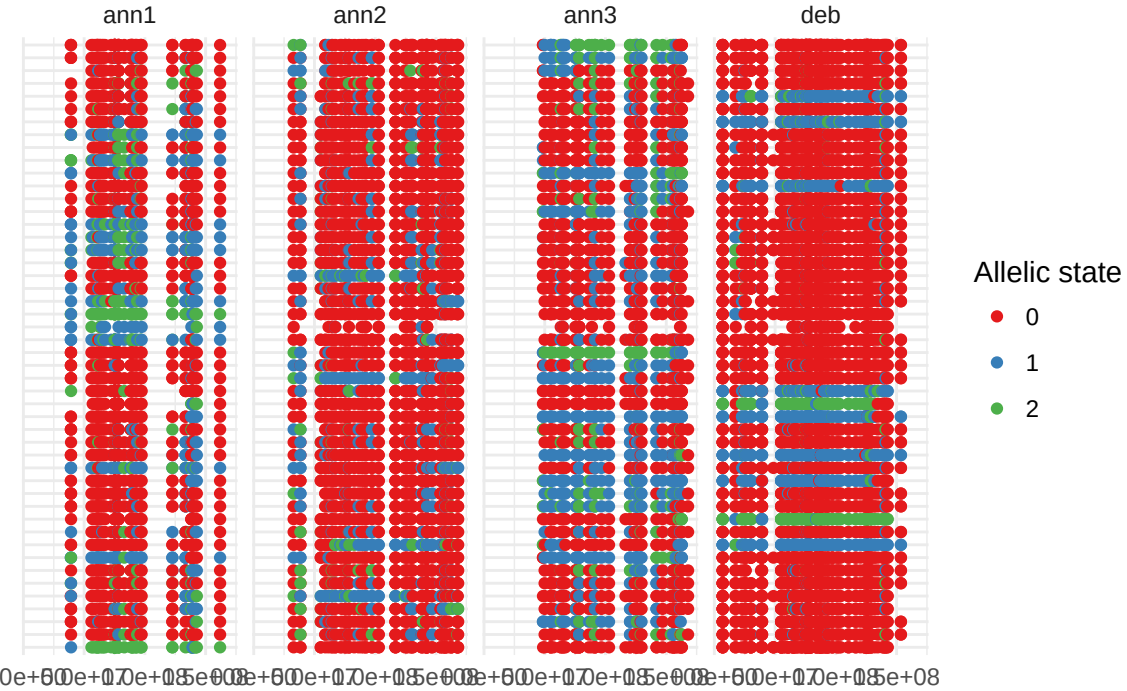

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ann1
ann2
ann3
deb
Allelic state
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1
2

HCC 5 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e-50
0e+00
7e-10
5e-20
8e-08
5e-08
0e+00
7e-10
5e-20
8e-08
5e-08
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7e-10
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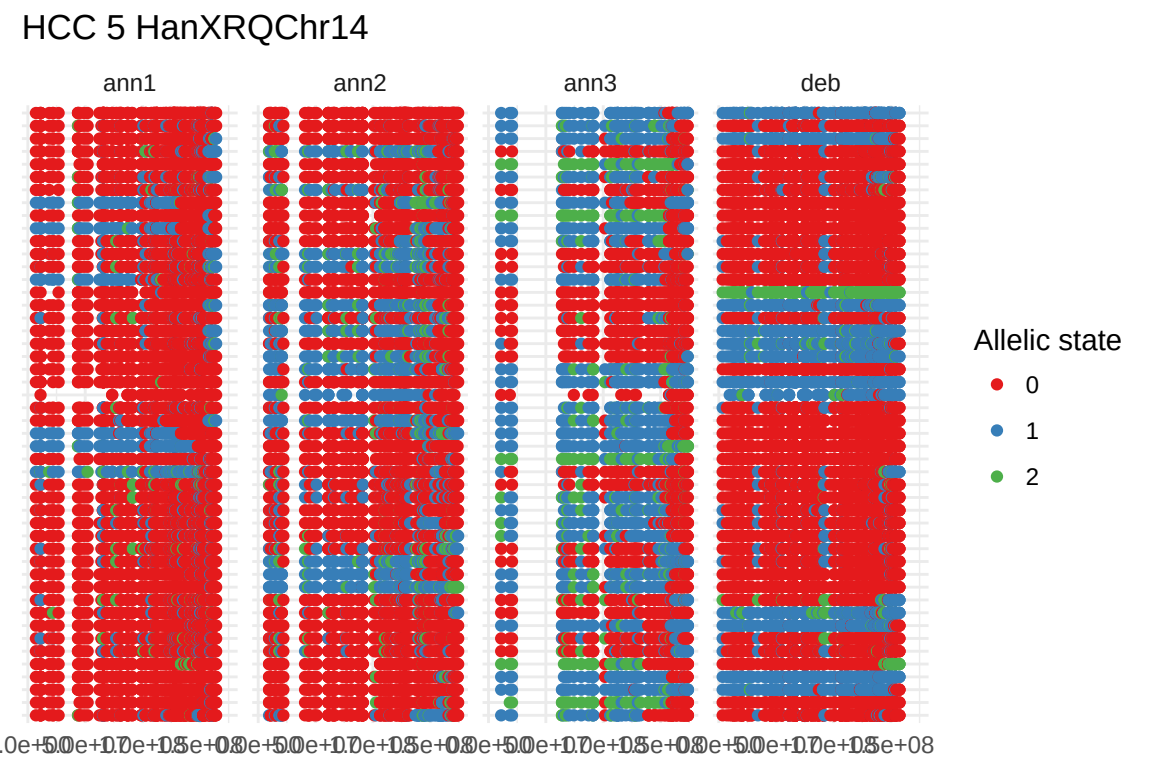
+08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ann1
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ann3
deb
Allelic state
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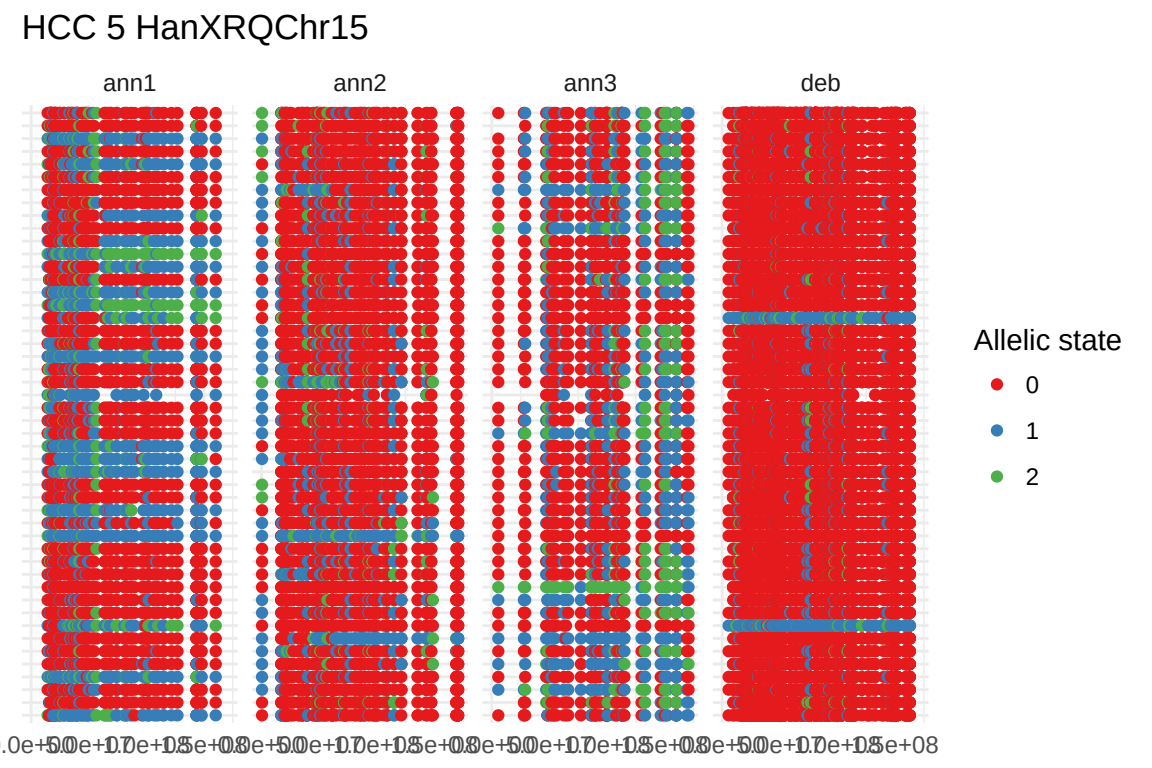
1
2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ann1
ann2
ann3
deb
Allelic state
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1
2
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0.0e+1
7.7e+1
5.5e+0
8.8e+5
0.0e+1
7.7e+1
5.5e+0
8.8e+5
0.0e+1
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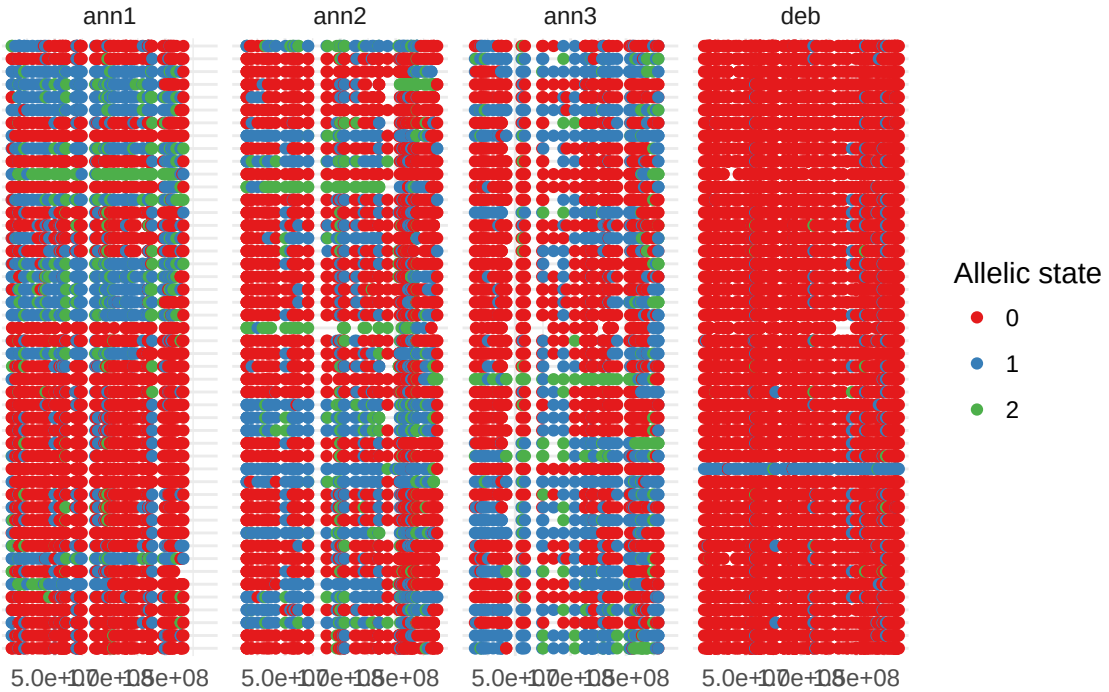
8.8e+5
0.0e+1
7.7e+1
5.5e+08

HCC 5 HanXRQChr16



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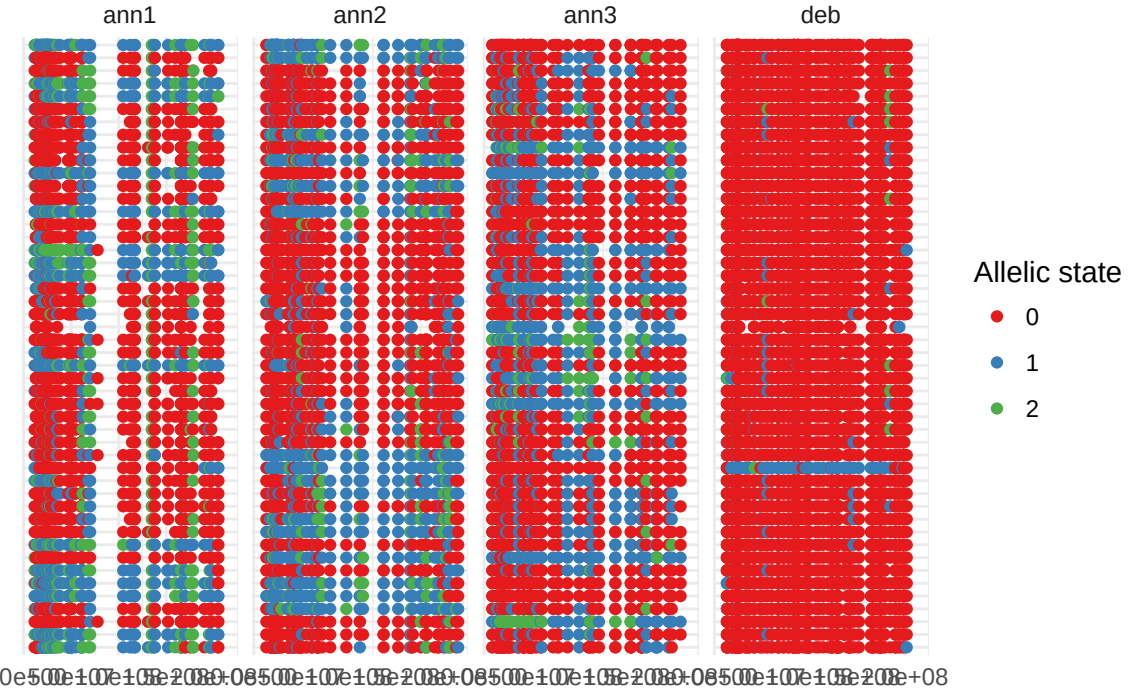

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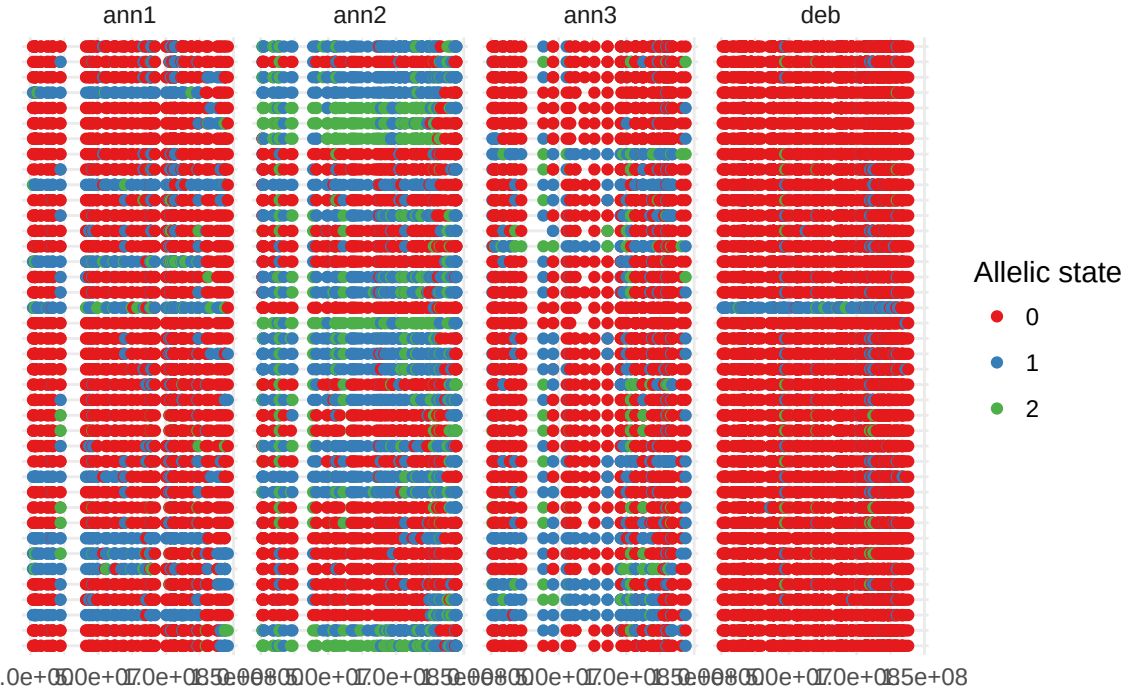

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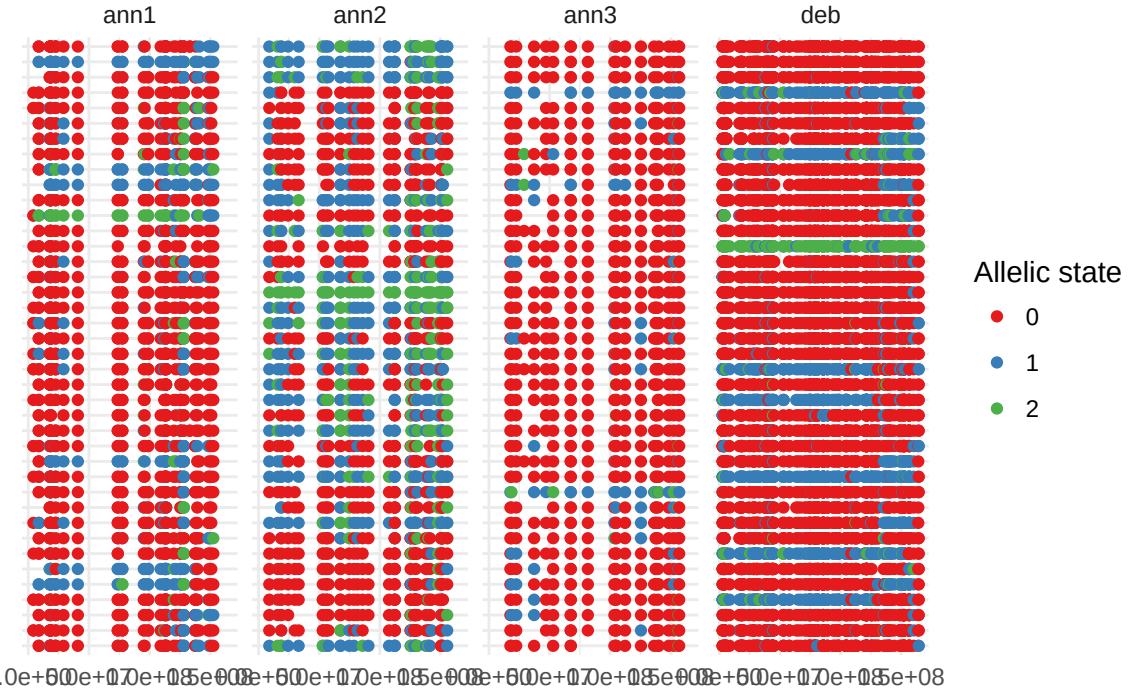

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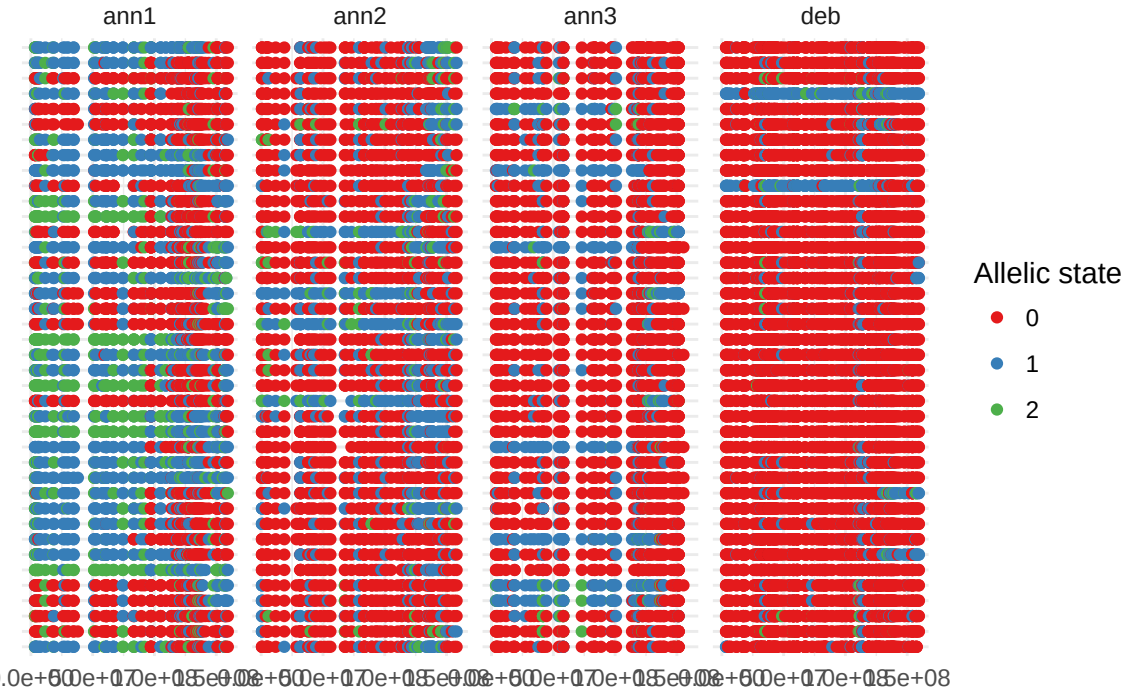

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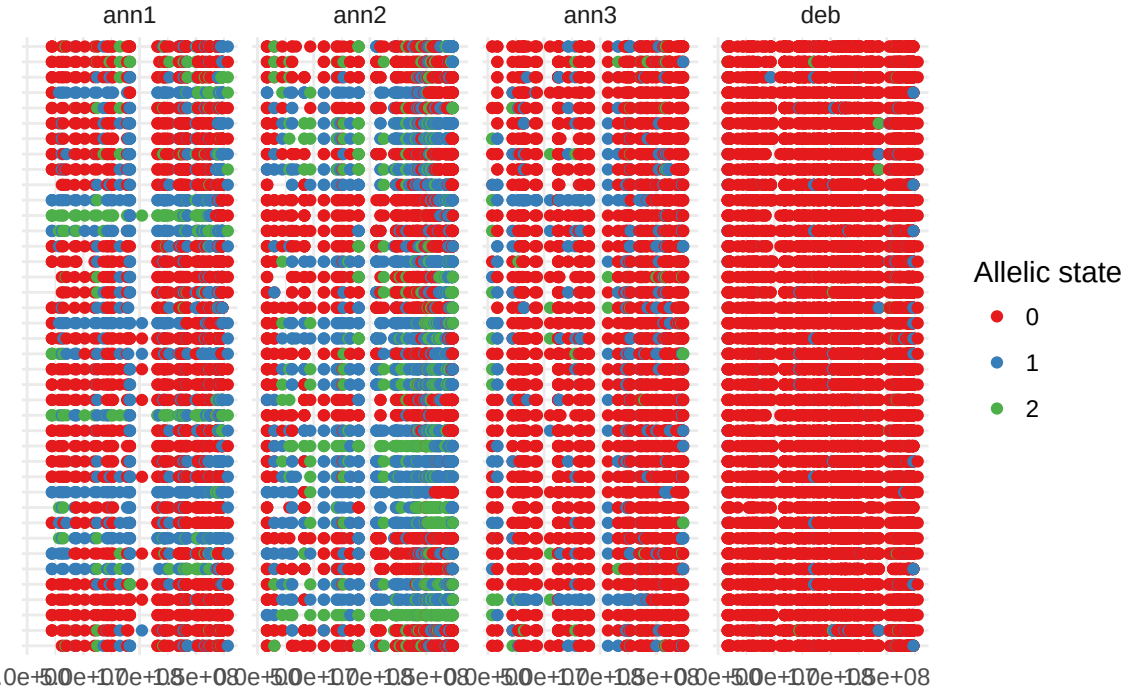

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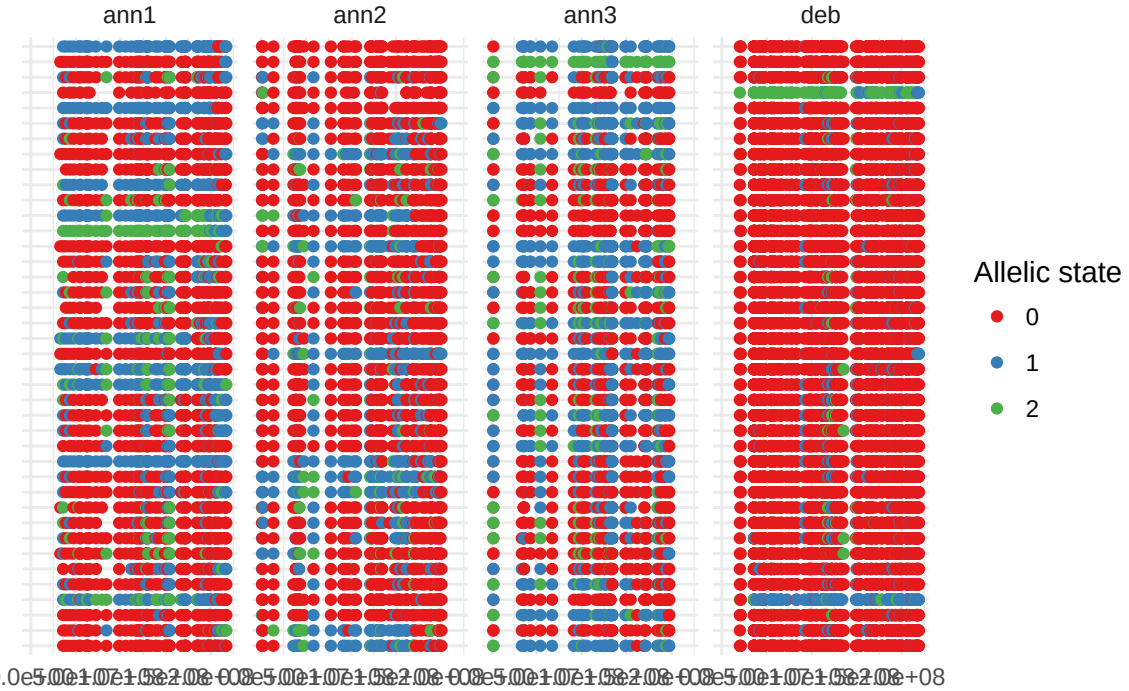

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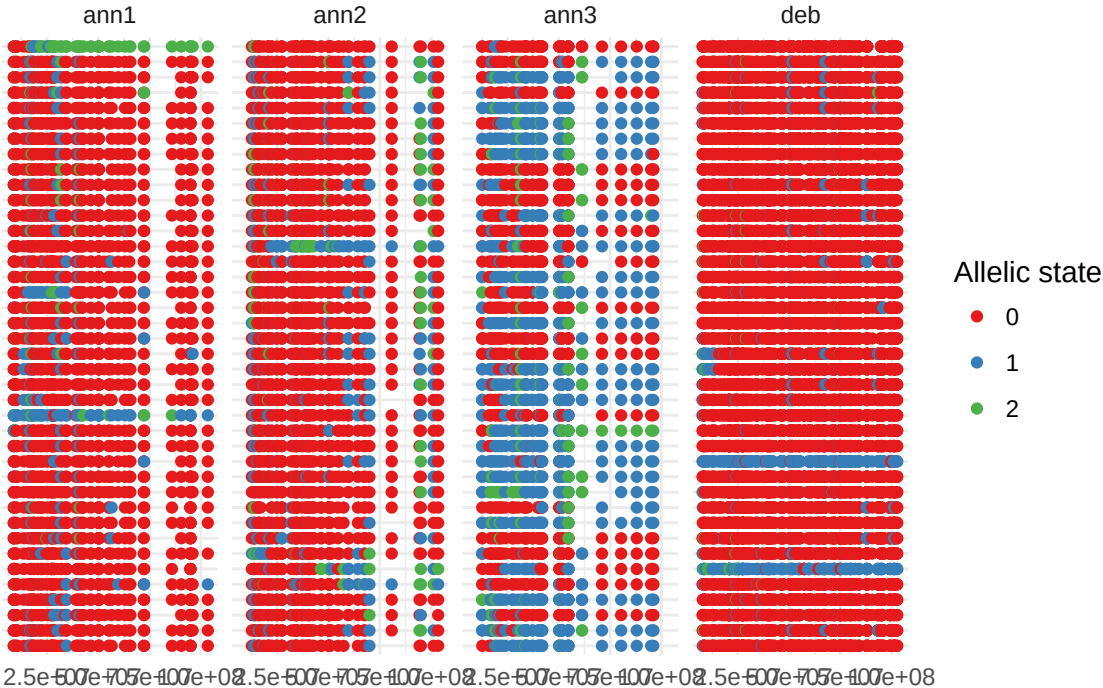

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ann1
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ann3
deb
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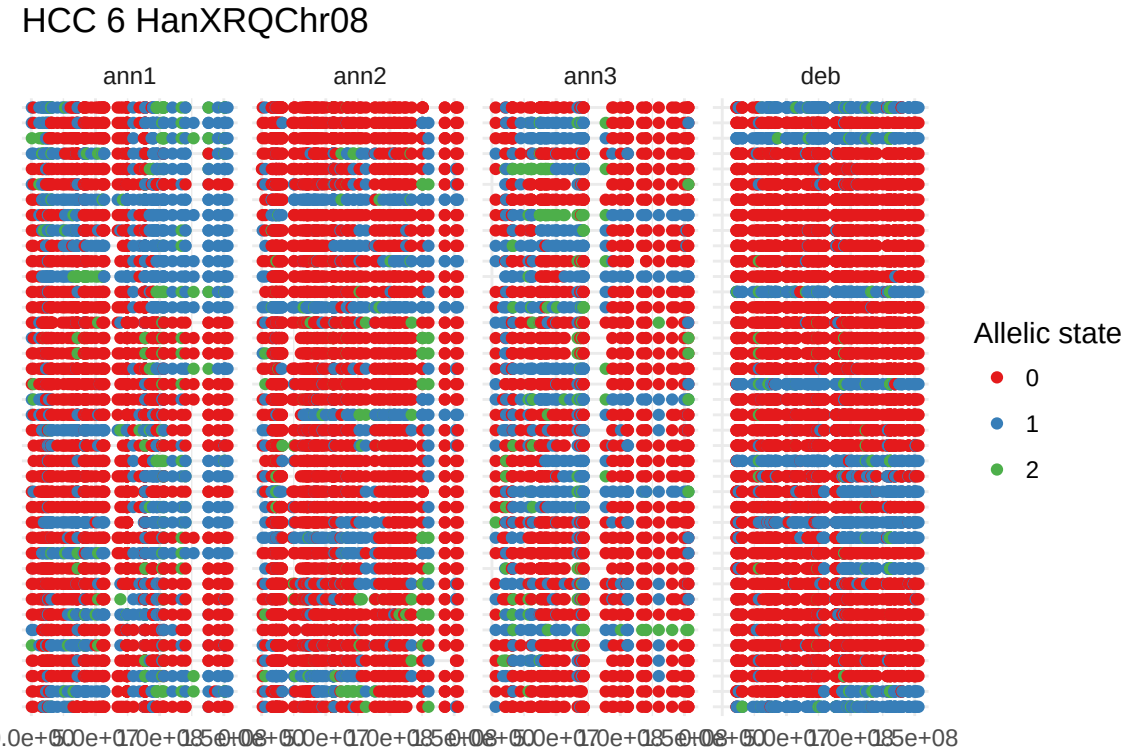
1
2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ann2
ann3
deb
Allelic state
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1
2

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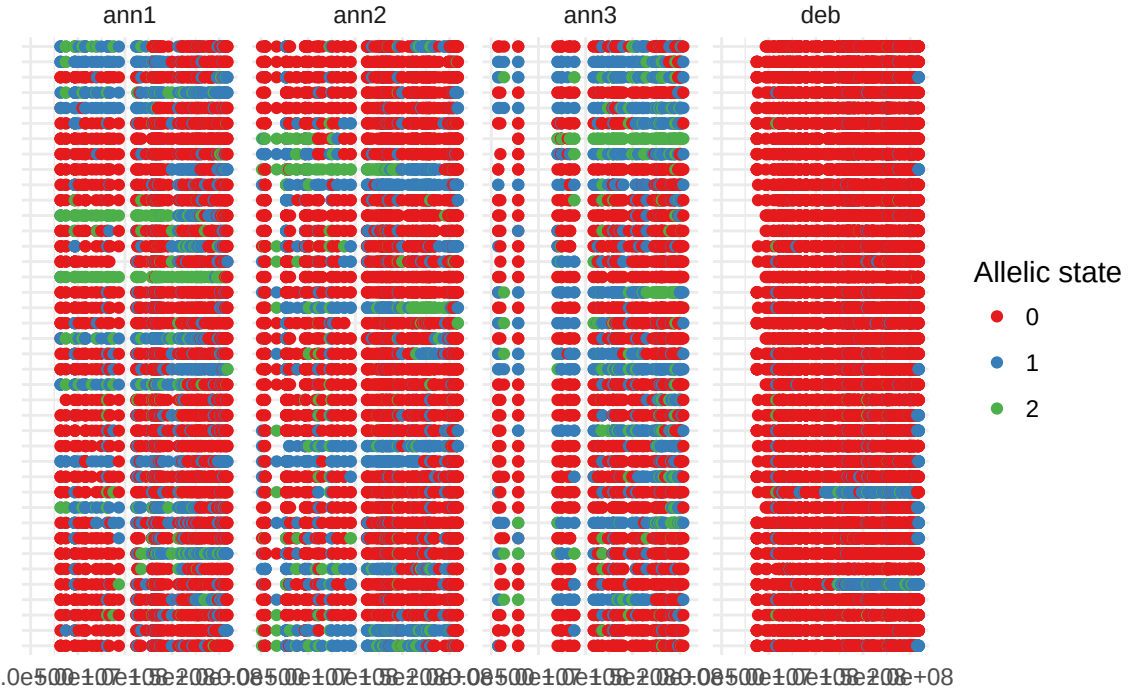

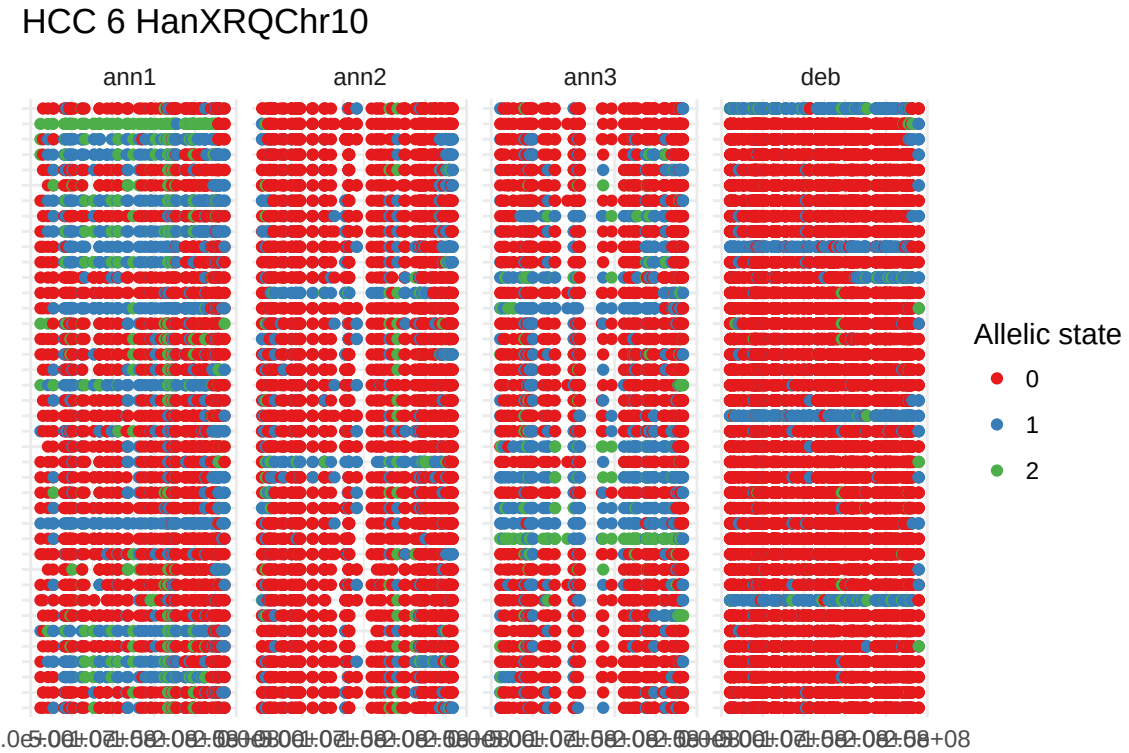
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ann2
ann3
deb
Allelic state
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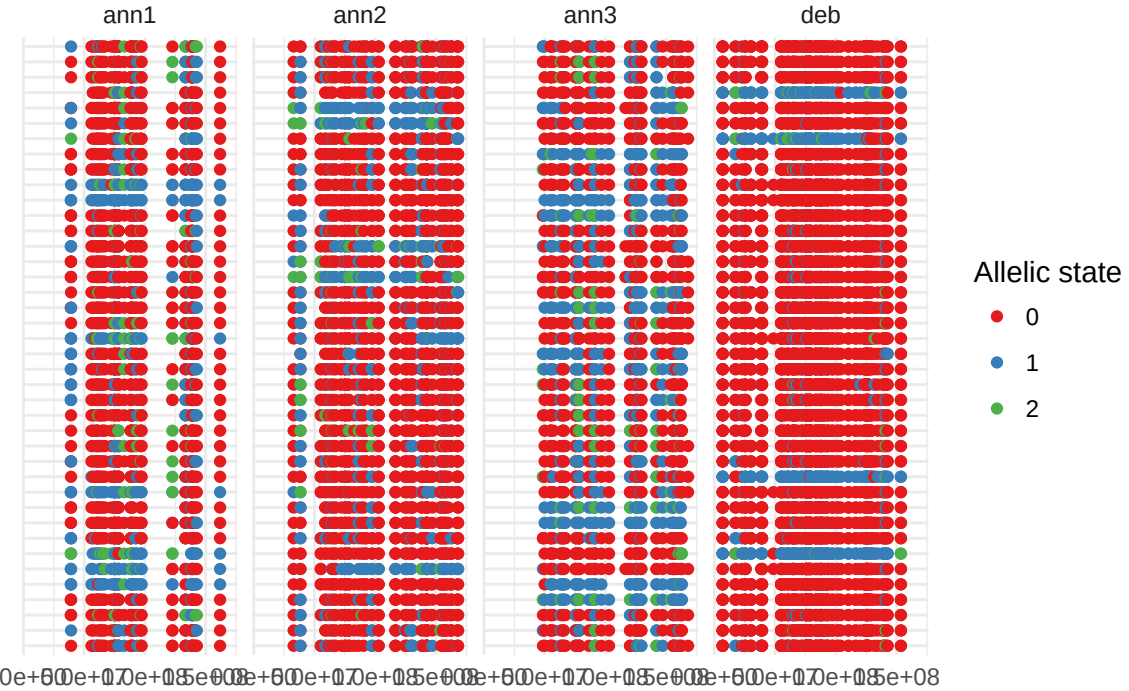
1
2

HCC 6 HanXRQChr11



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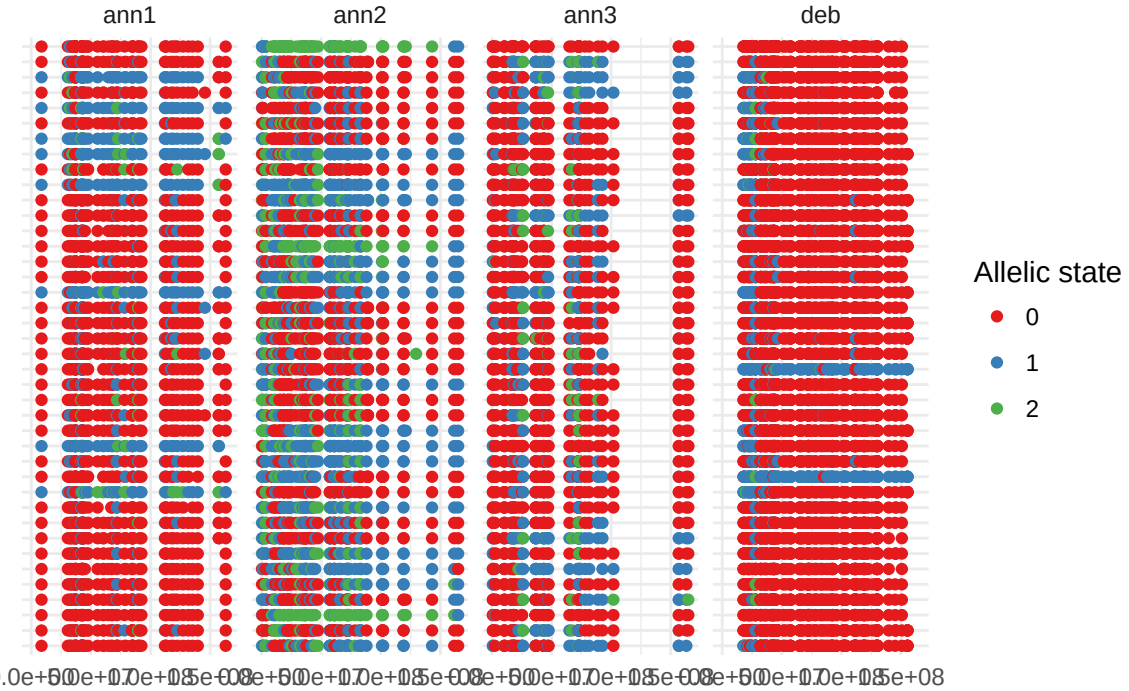

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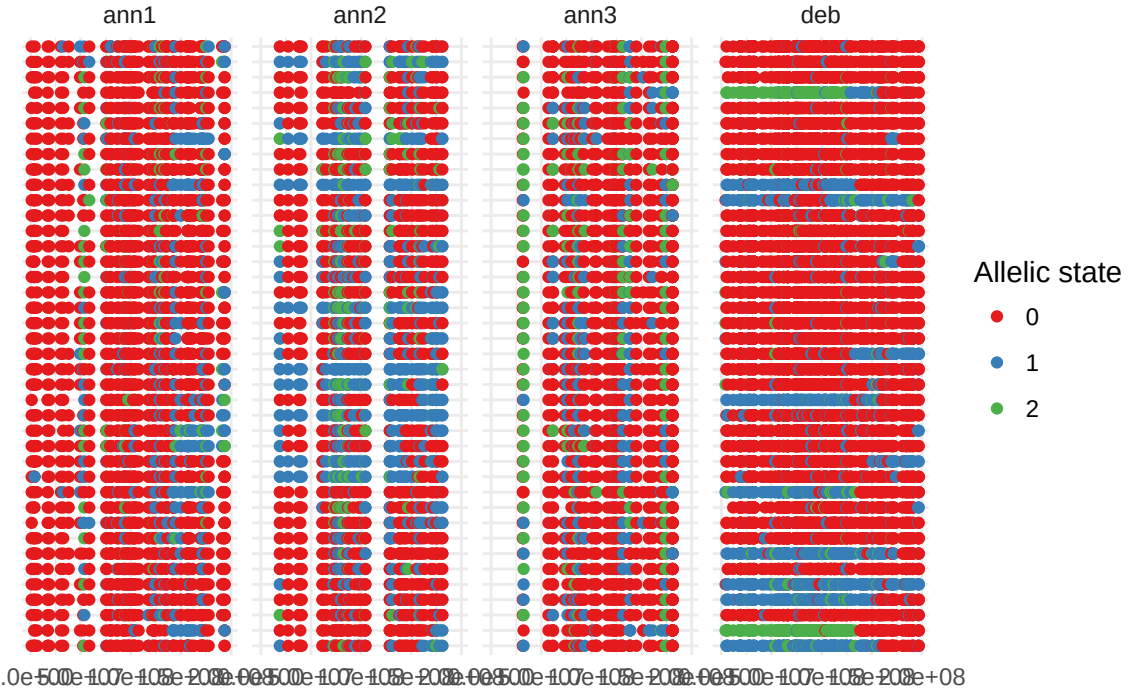

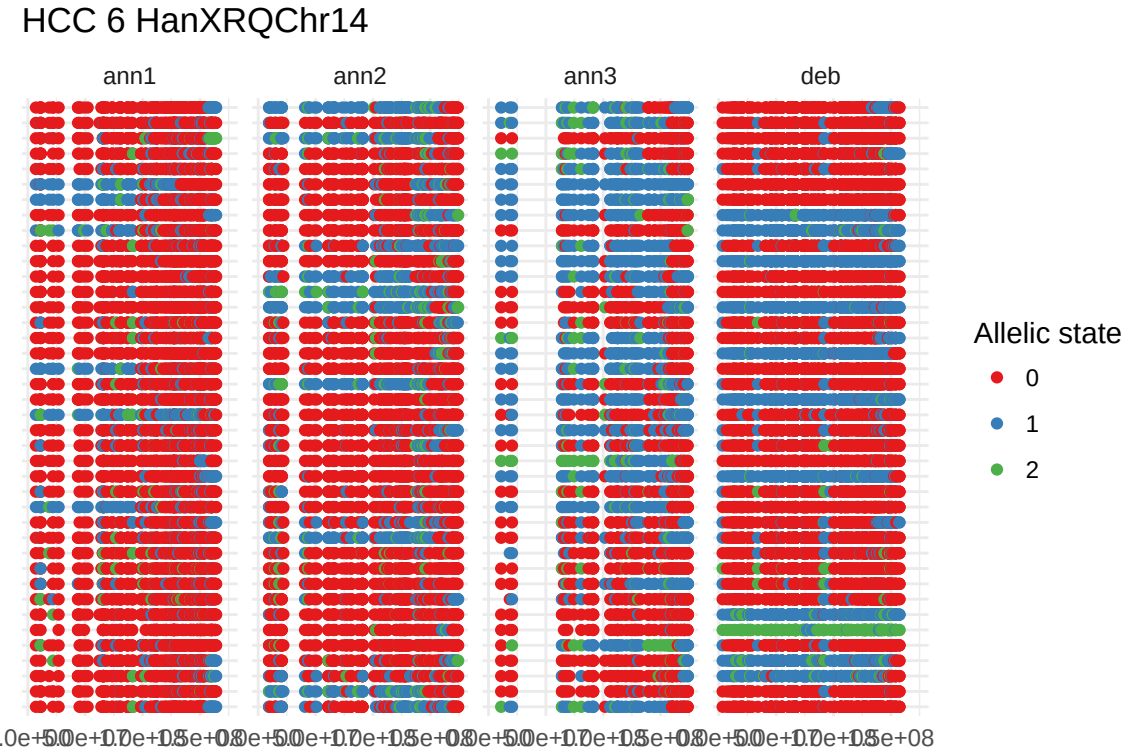
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ann2
ann3
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1
2

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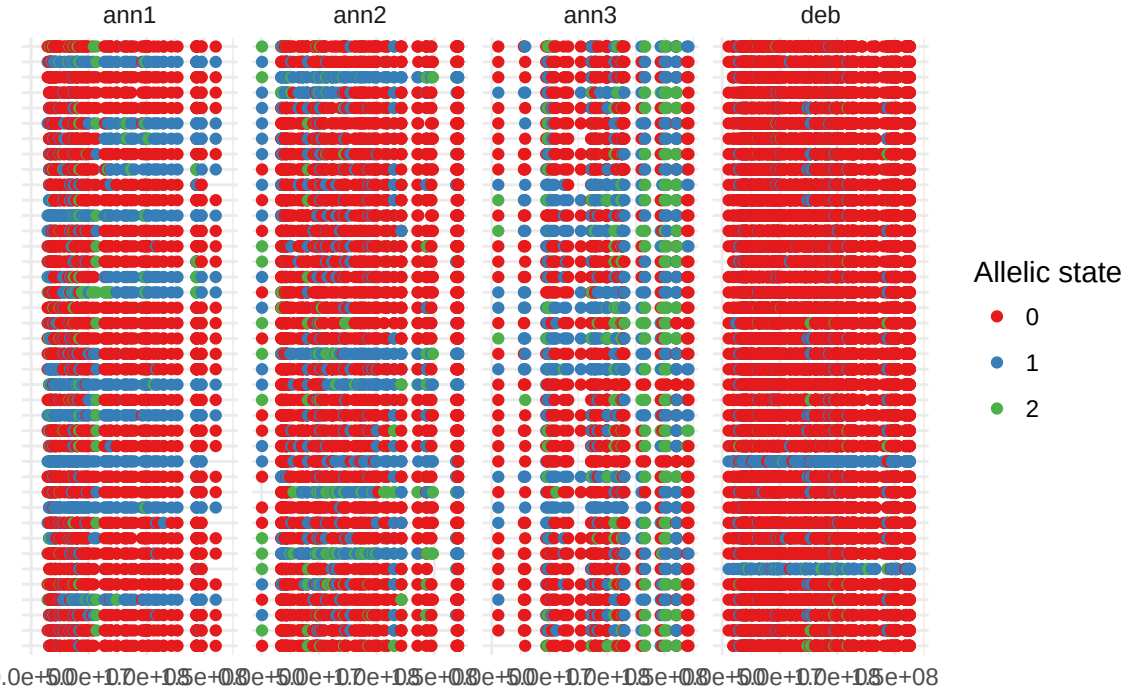

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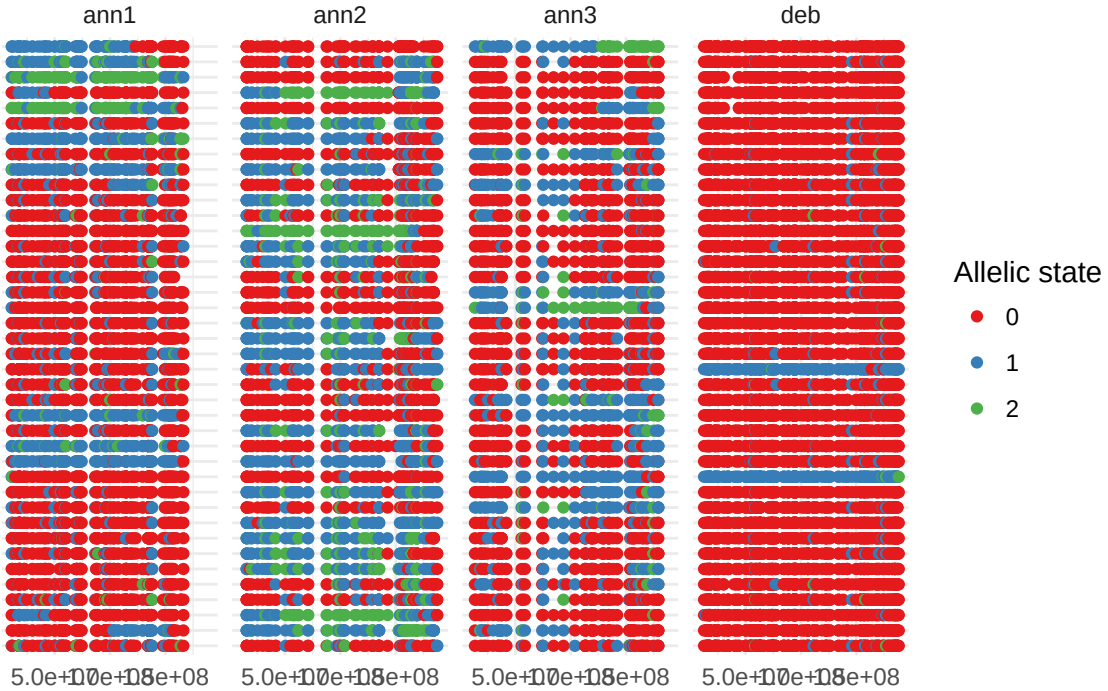

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ann3
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1
2

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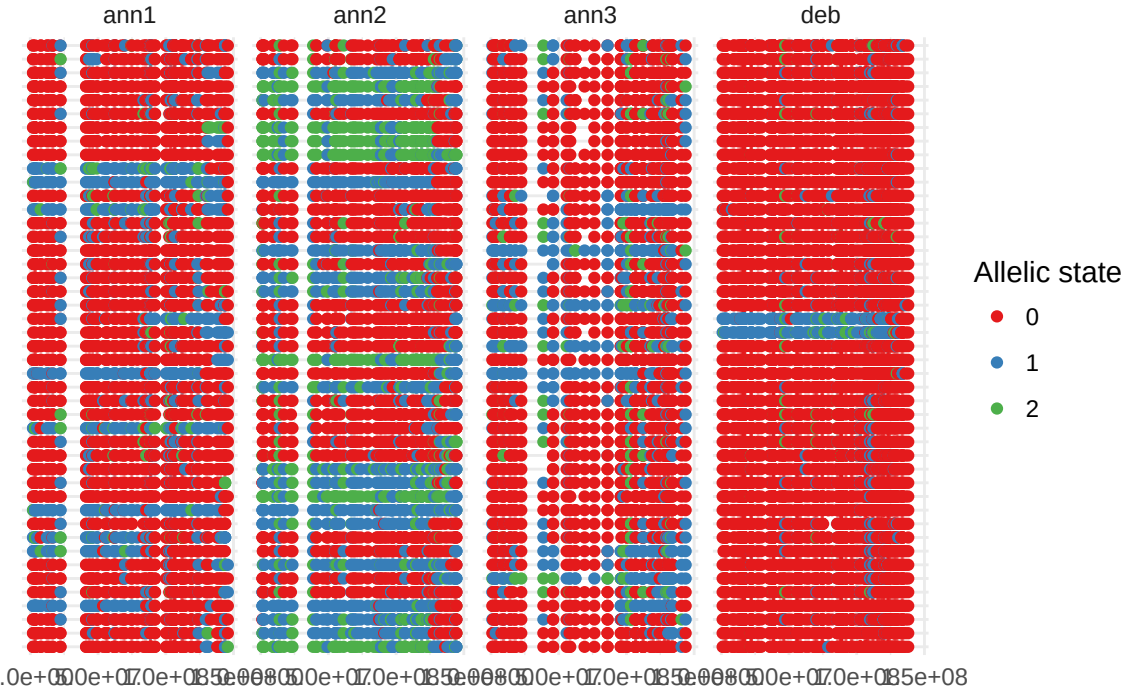

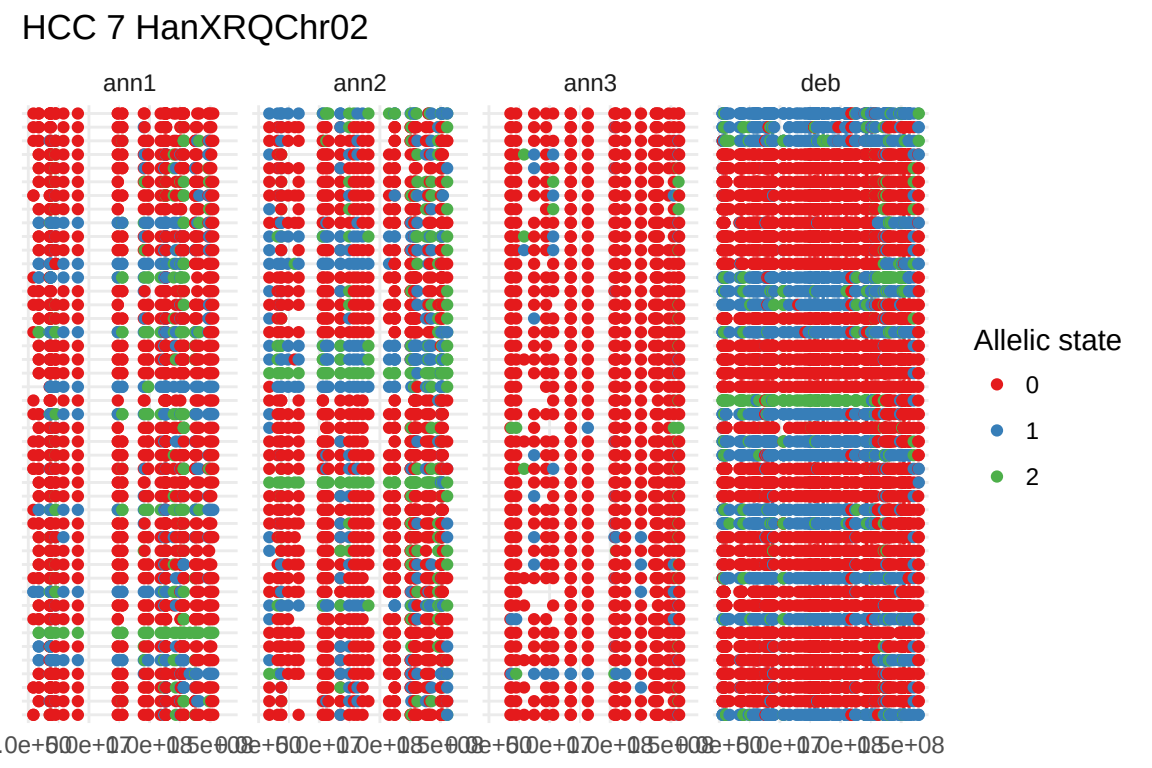
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ann2
ann3
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1
2

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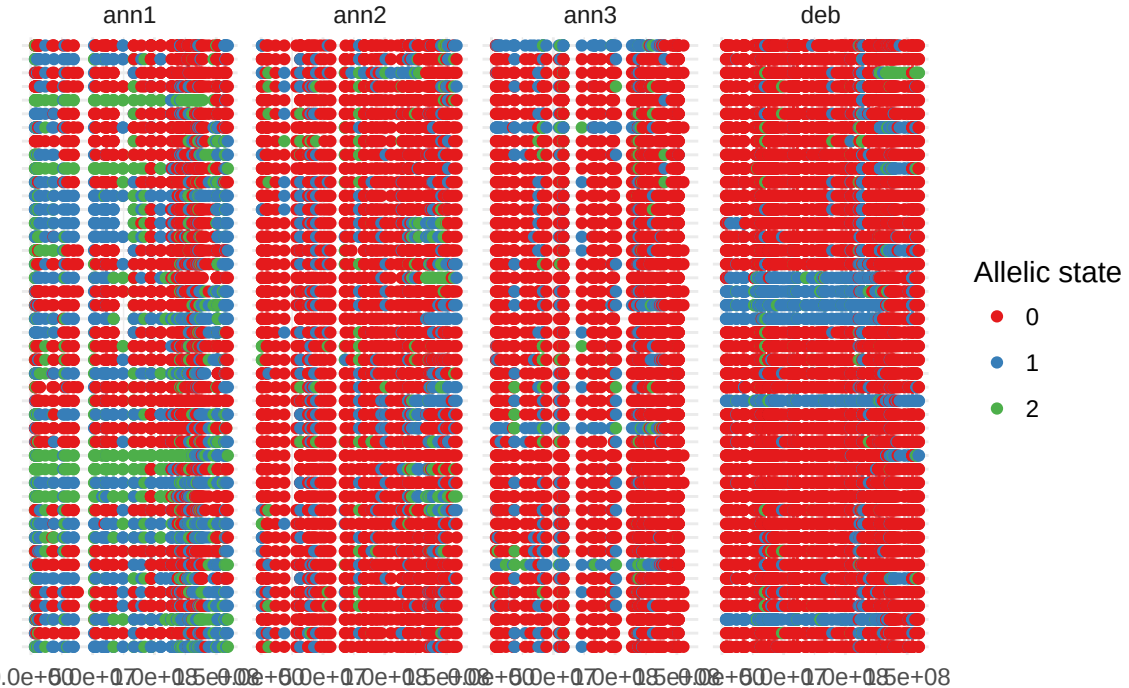

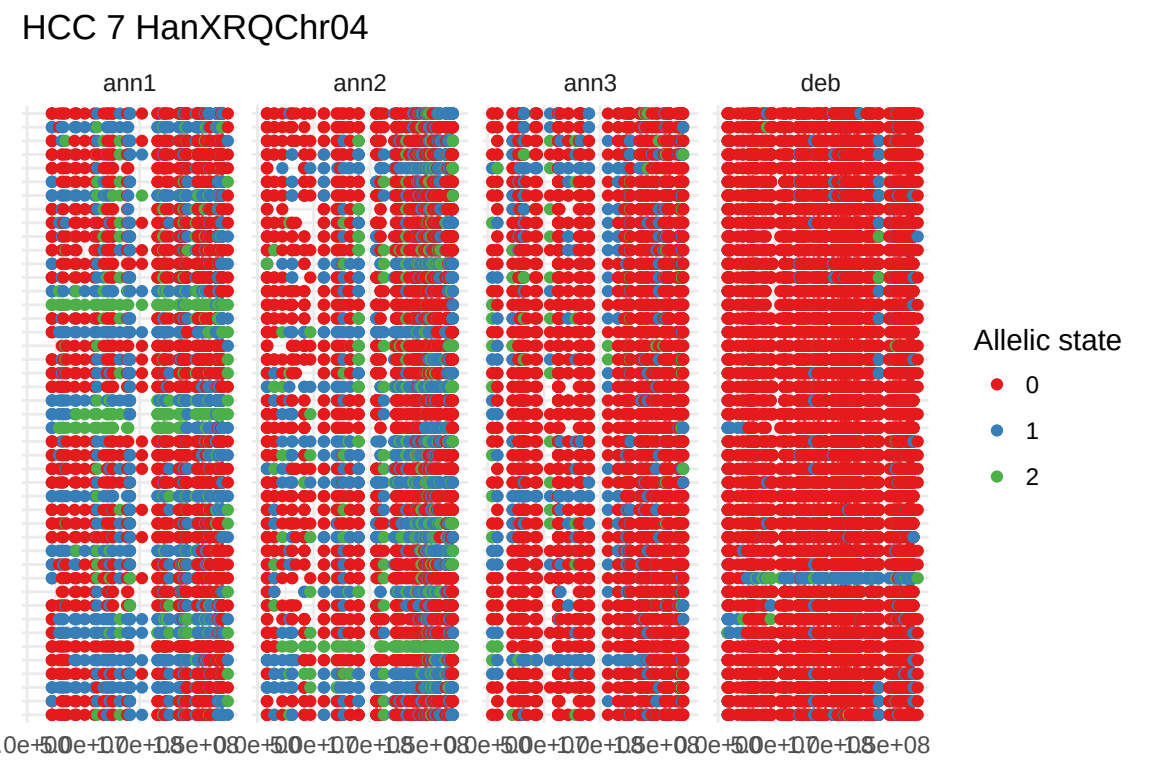
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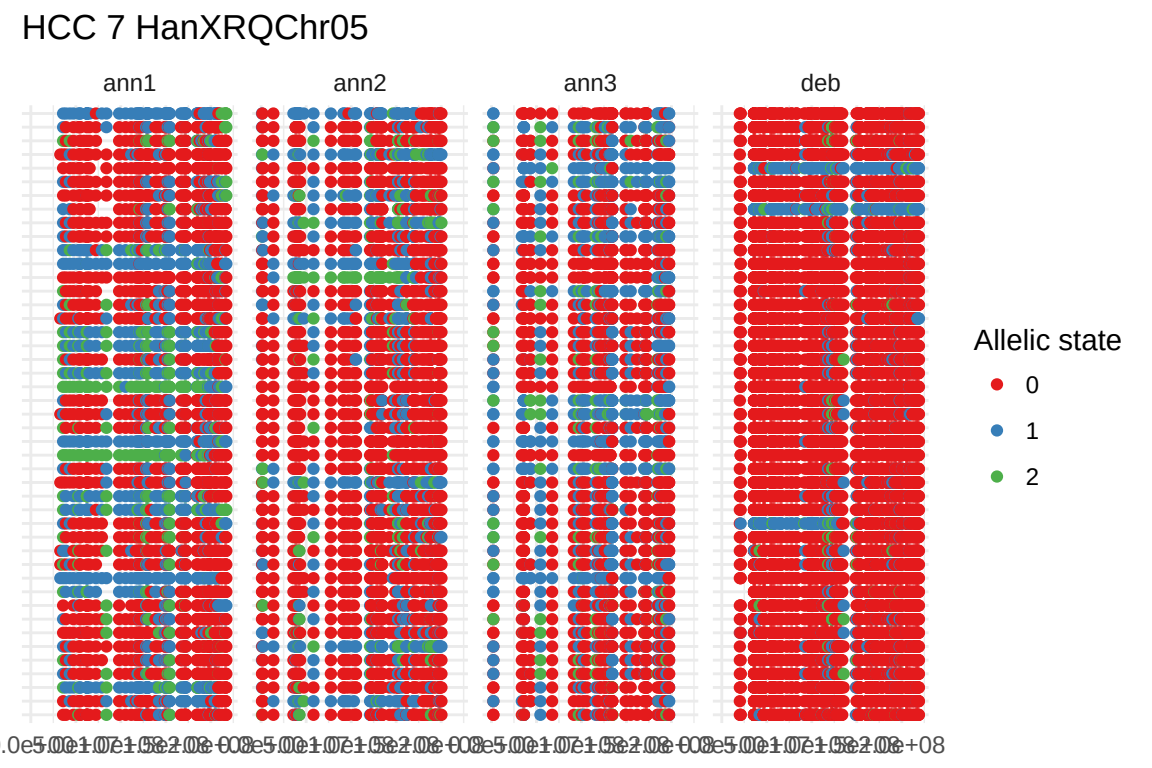
1
2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ann2
ann3
deb
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1
2

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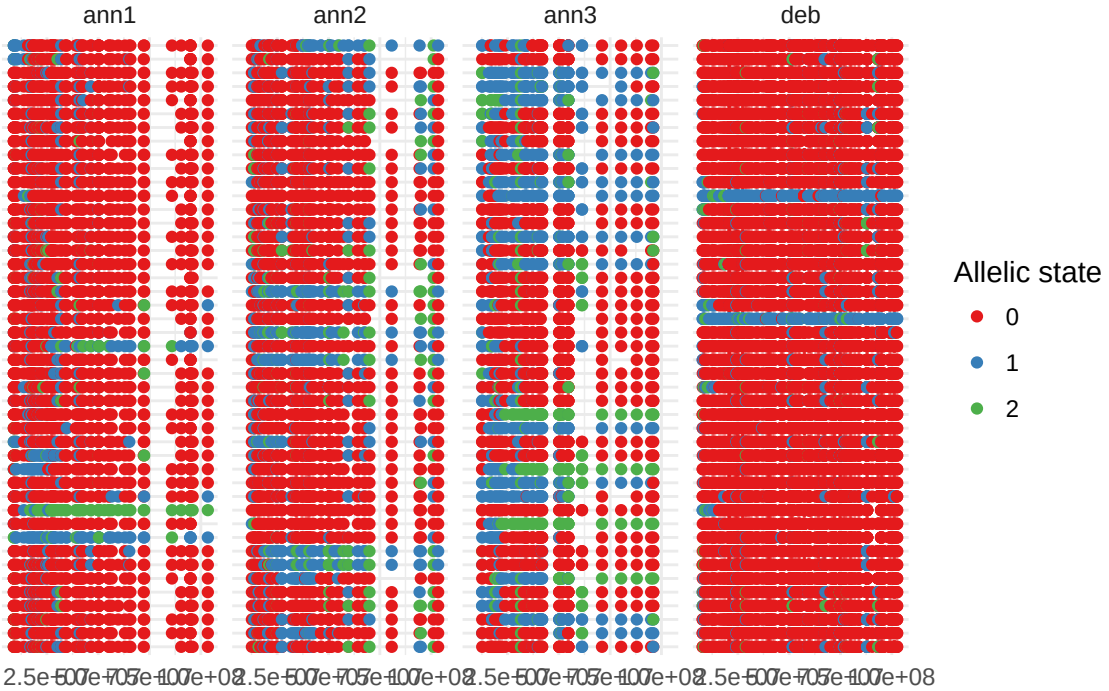

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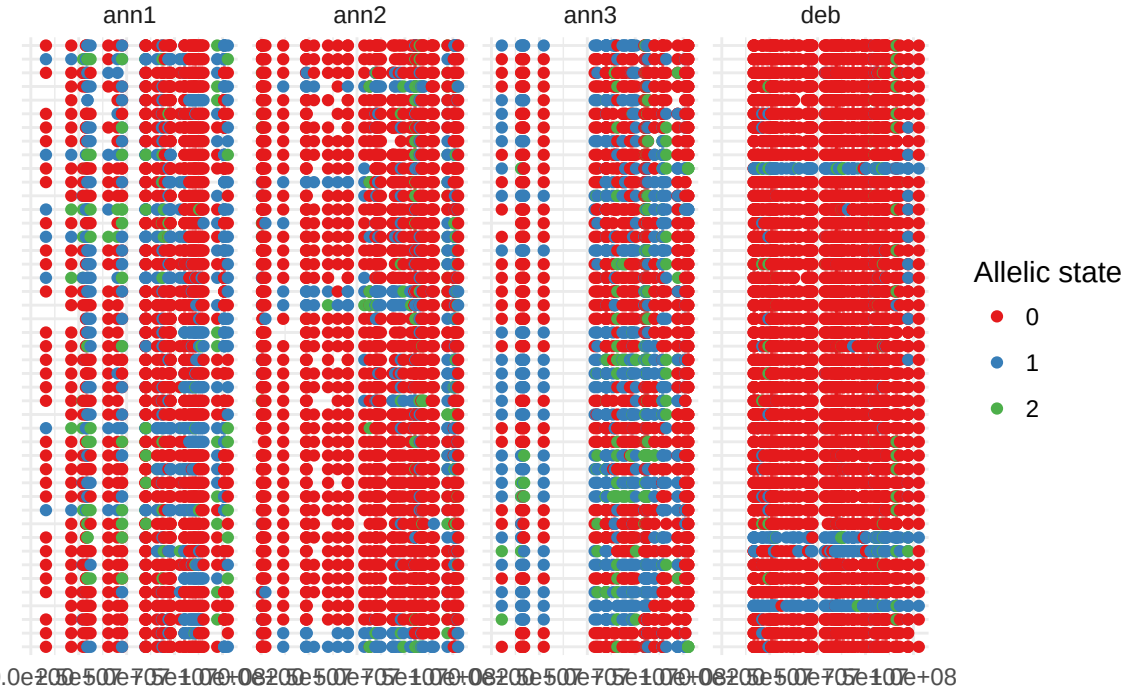

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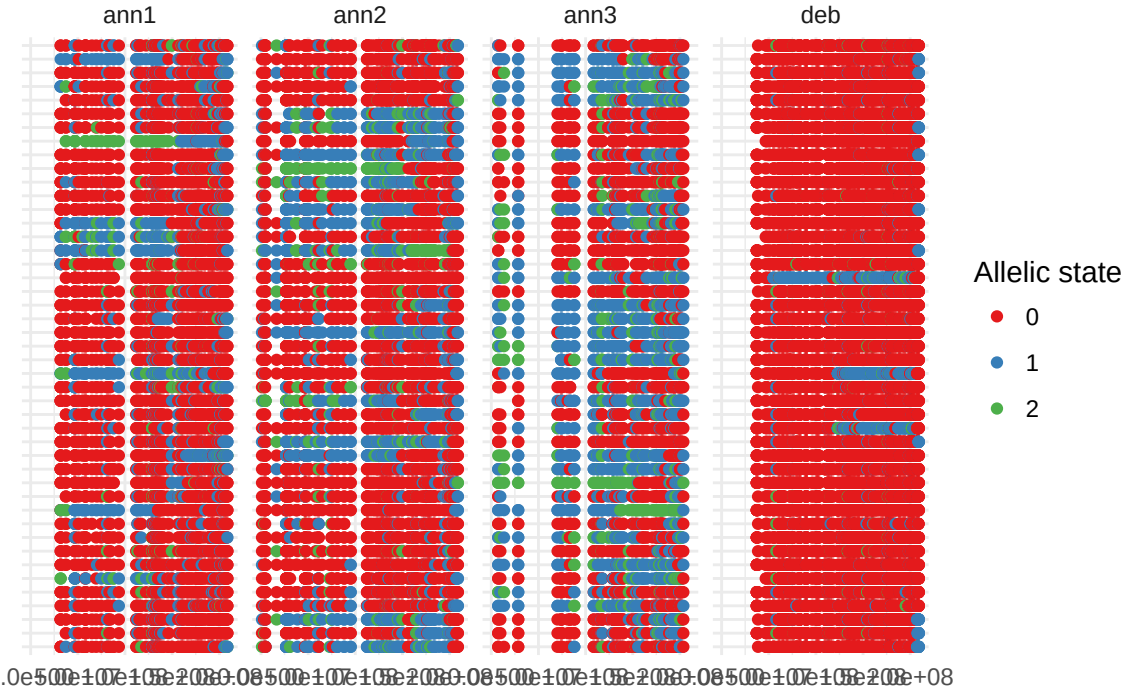

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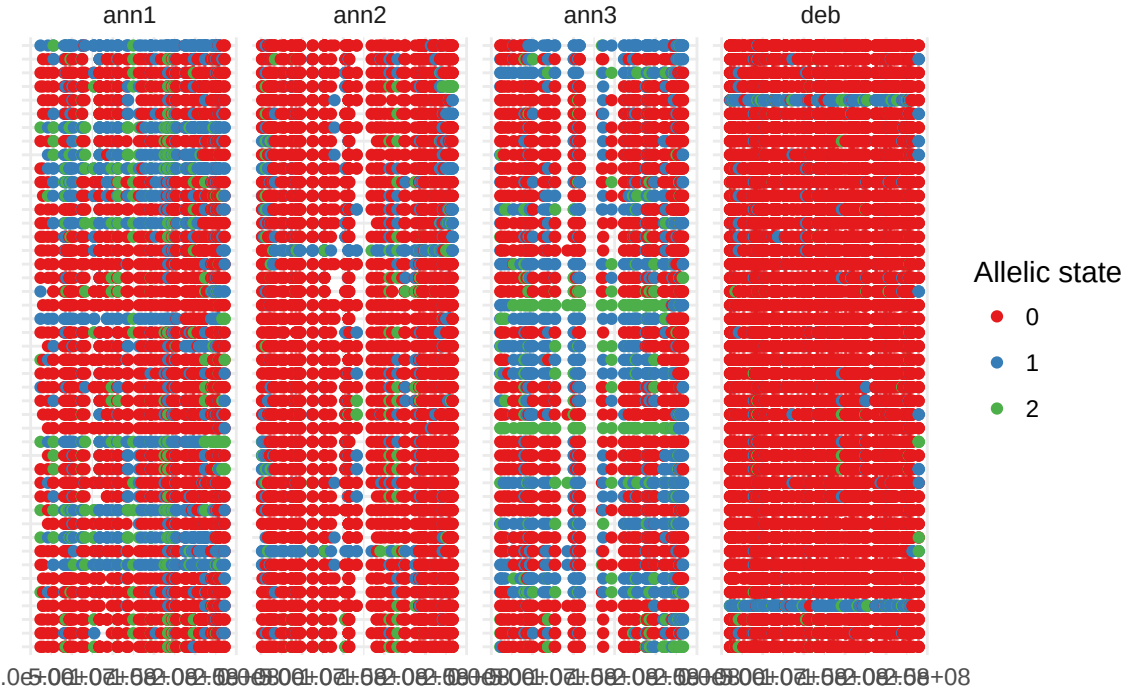

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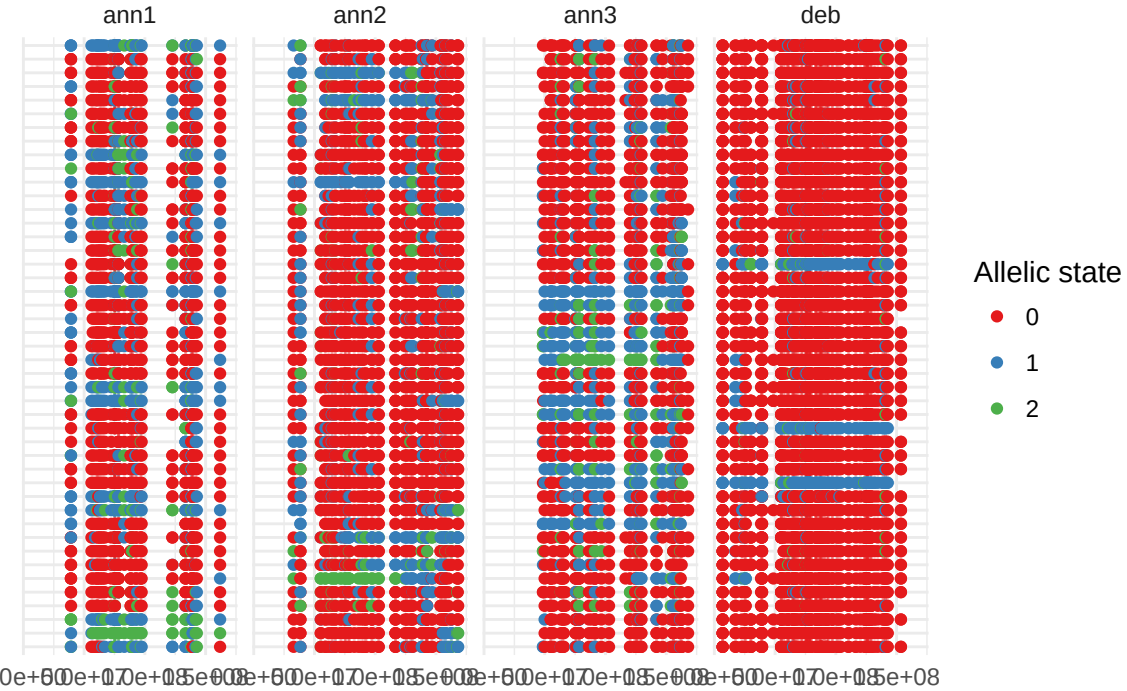

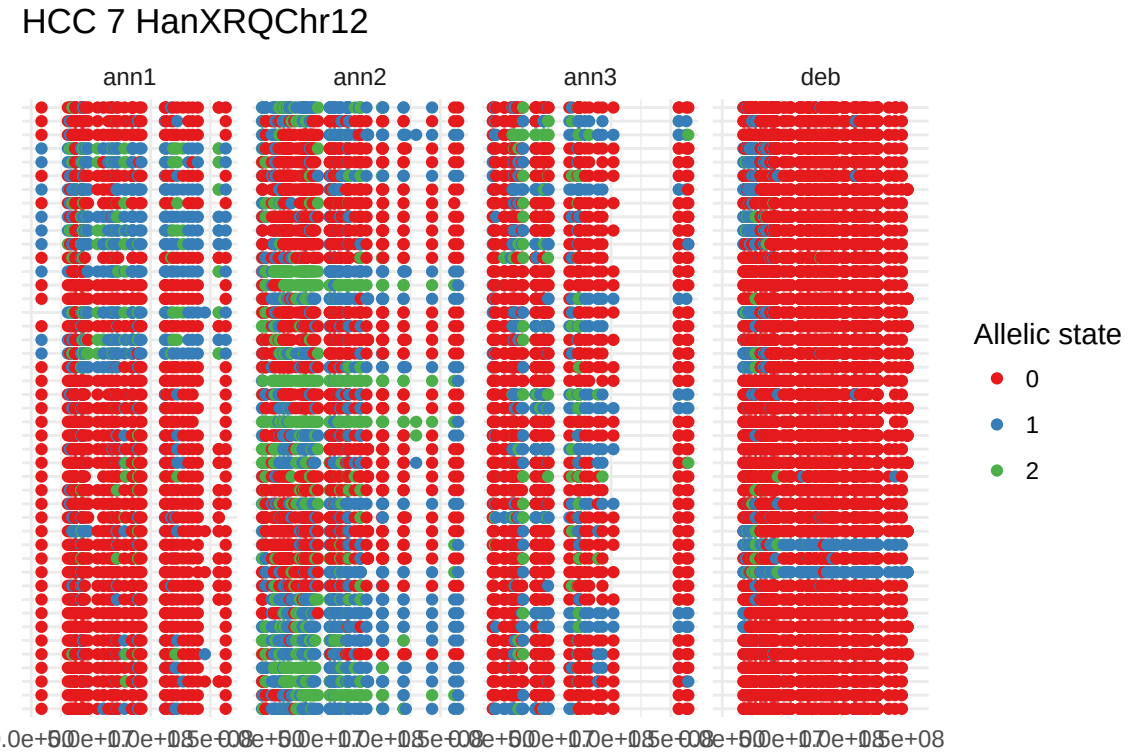
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ann2
ann3
deb
Allelic state
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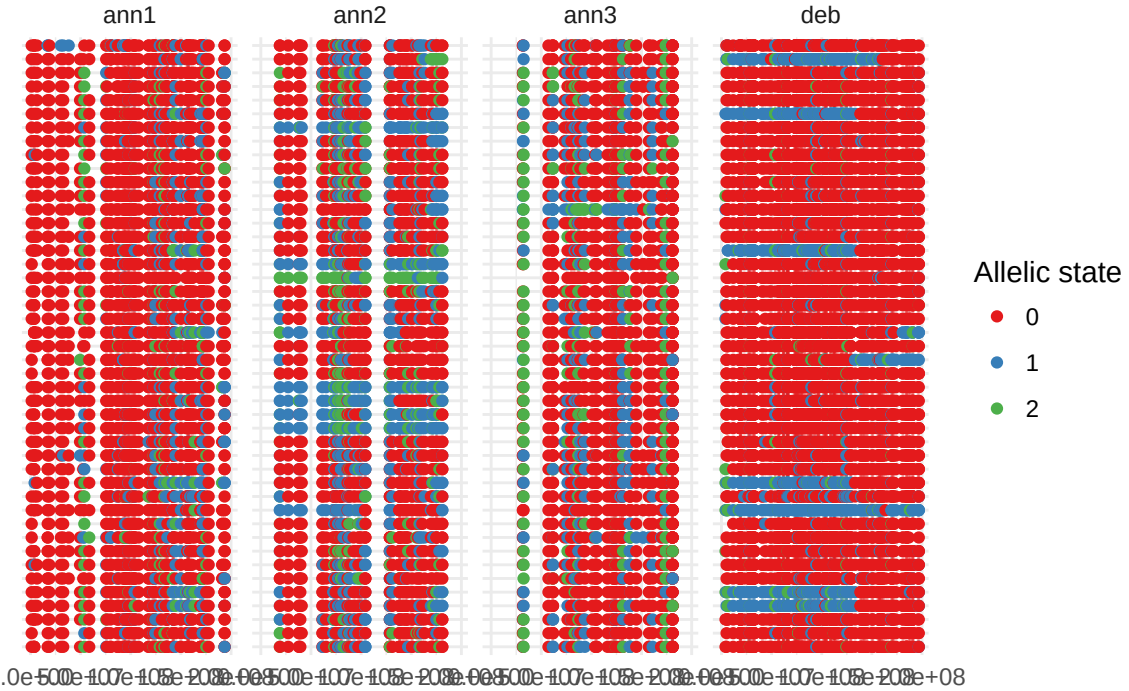
1
2

HCC 7 HanXRQChr13



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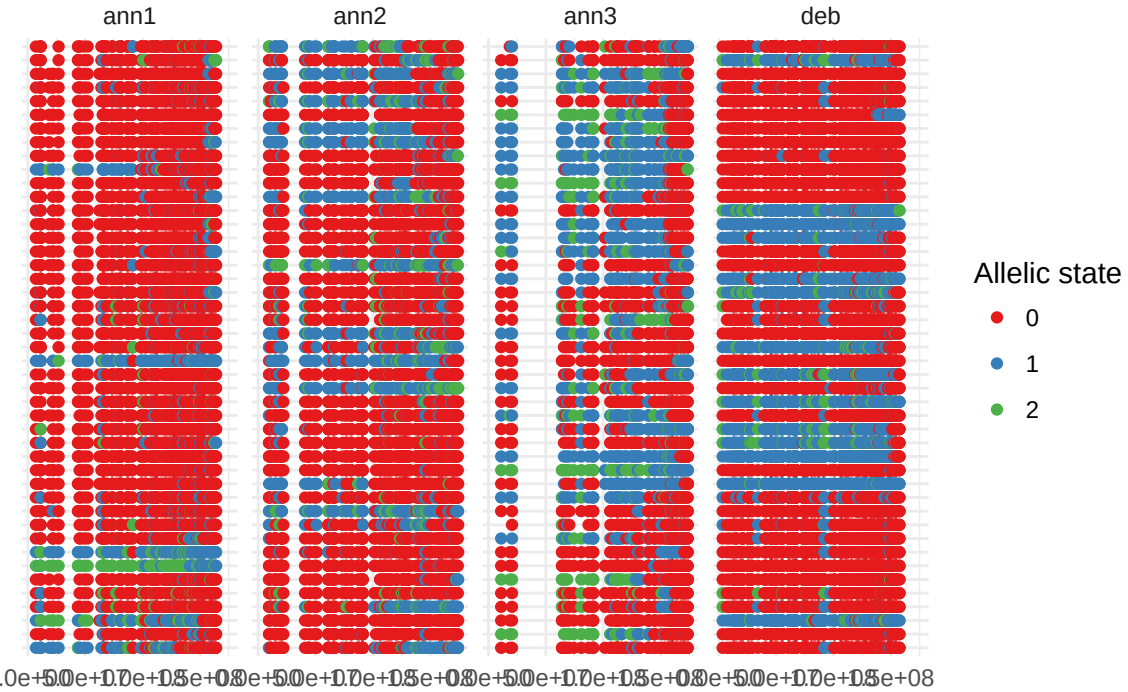

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ann3
deb
Allelic state
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1
2
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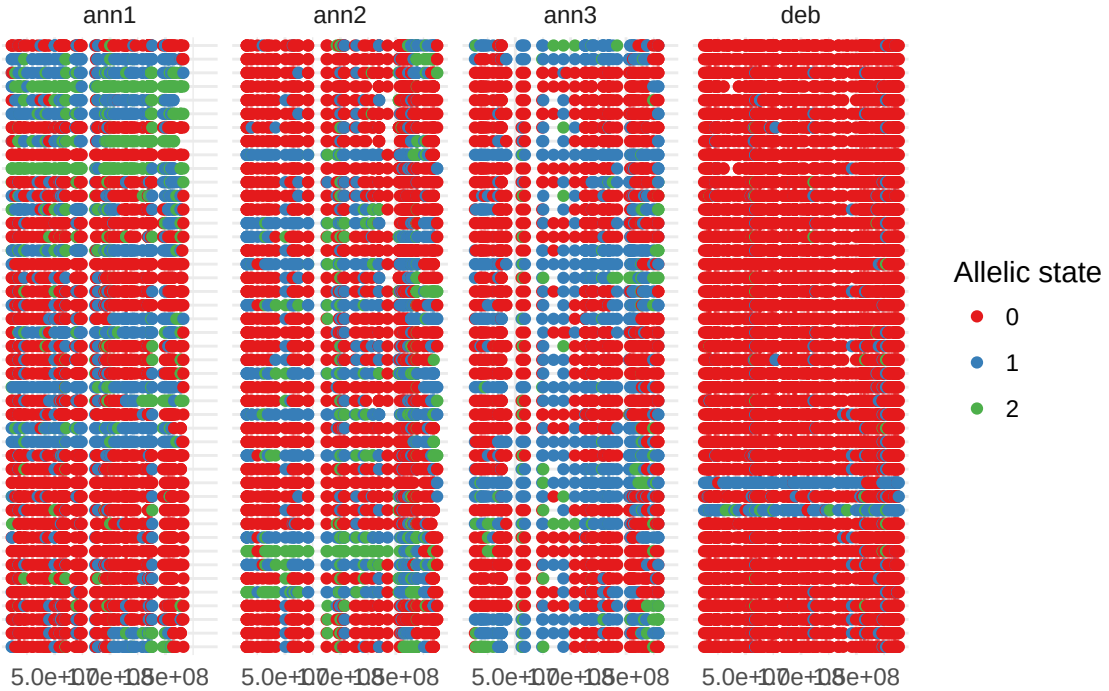

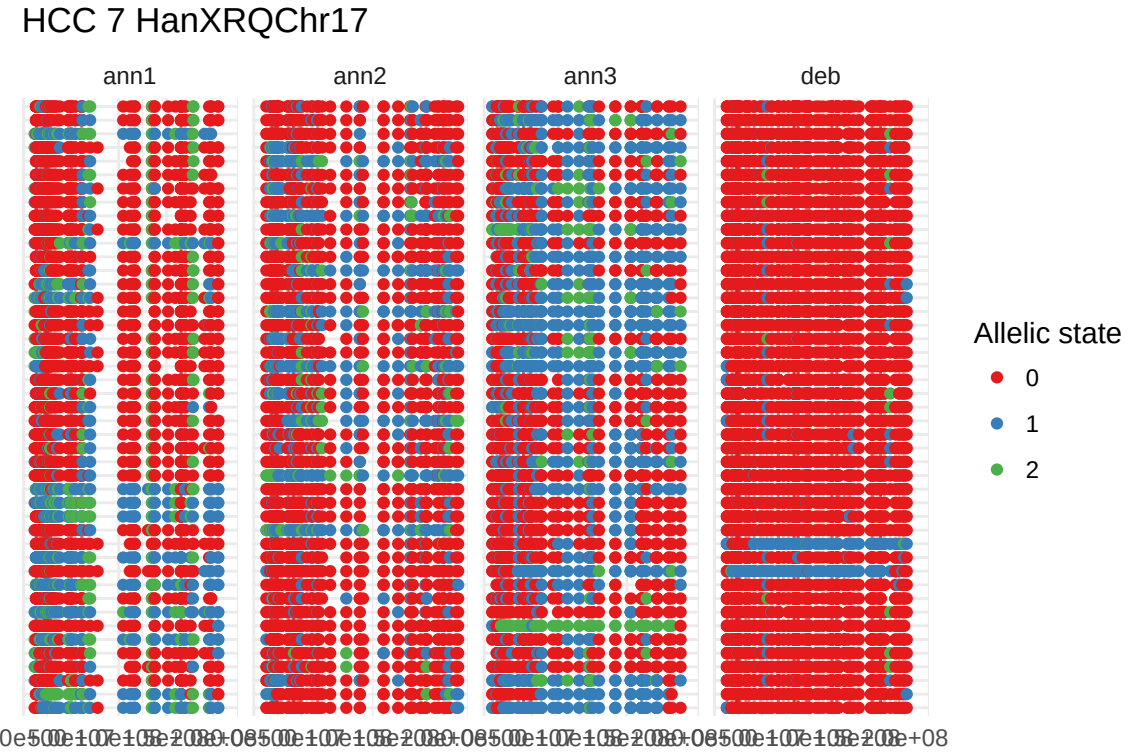
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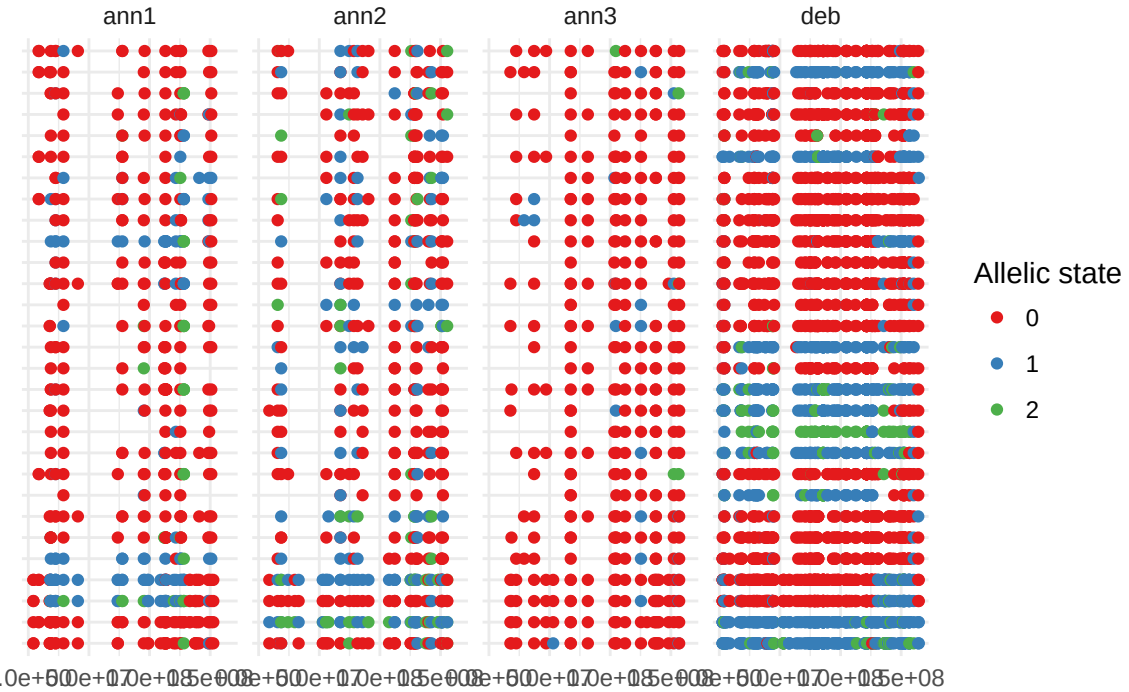

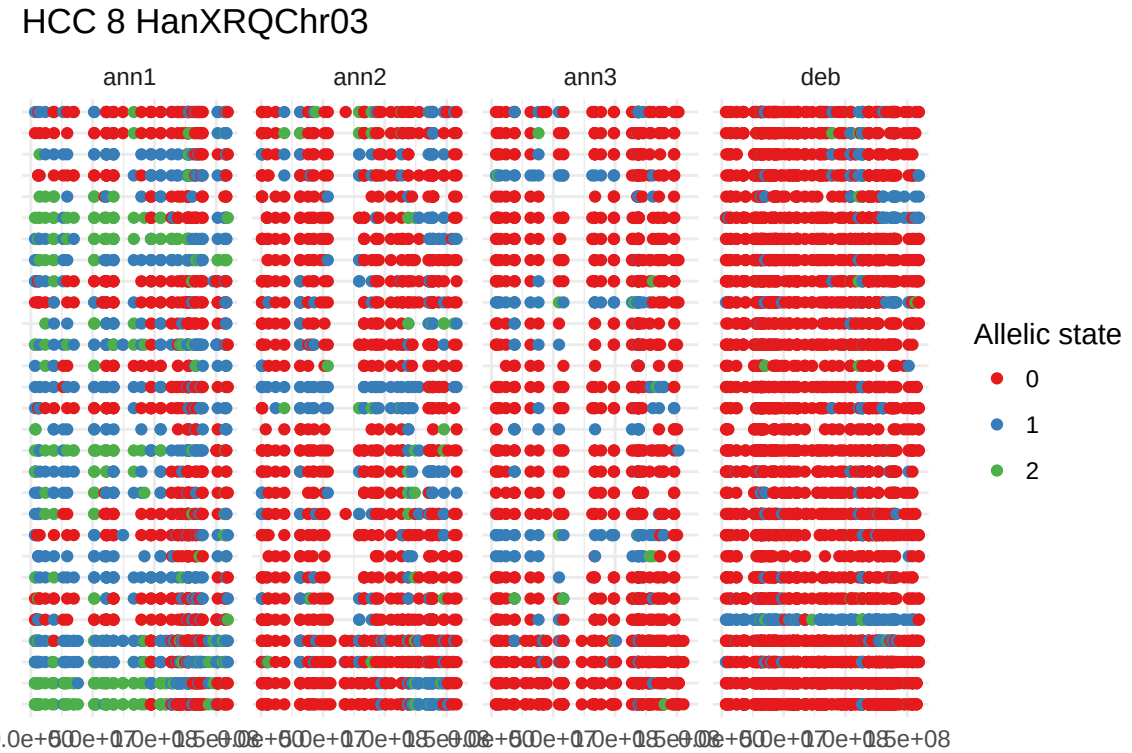
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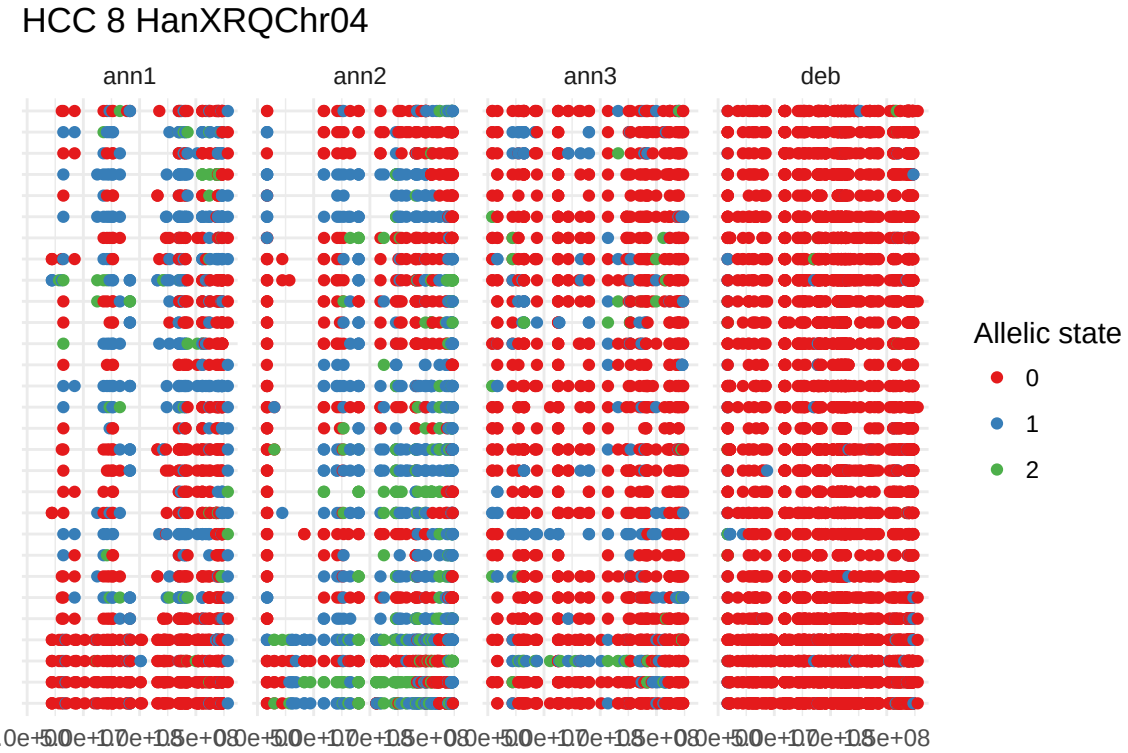
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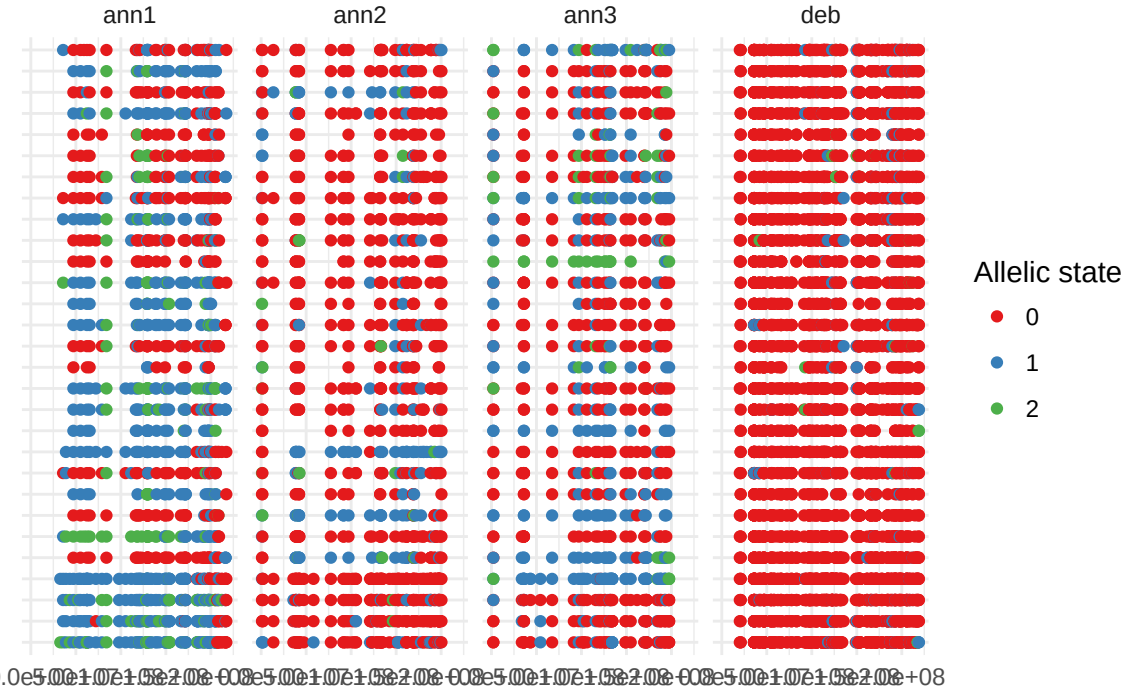

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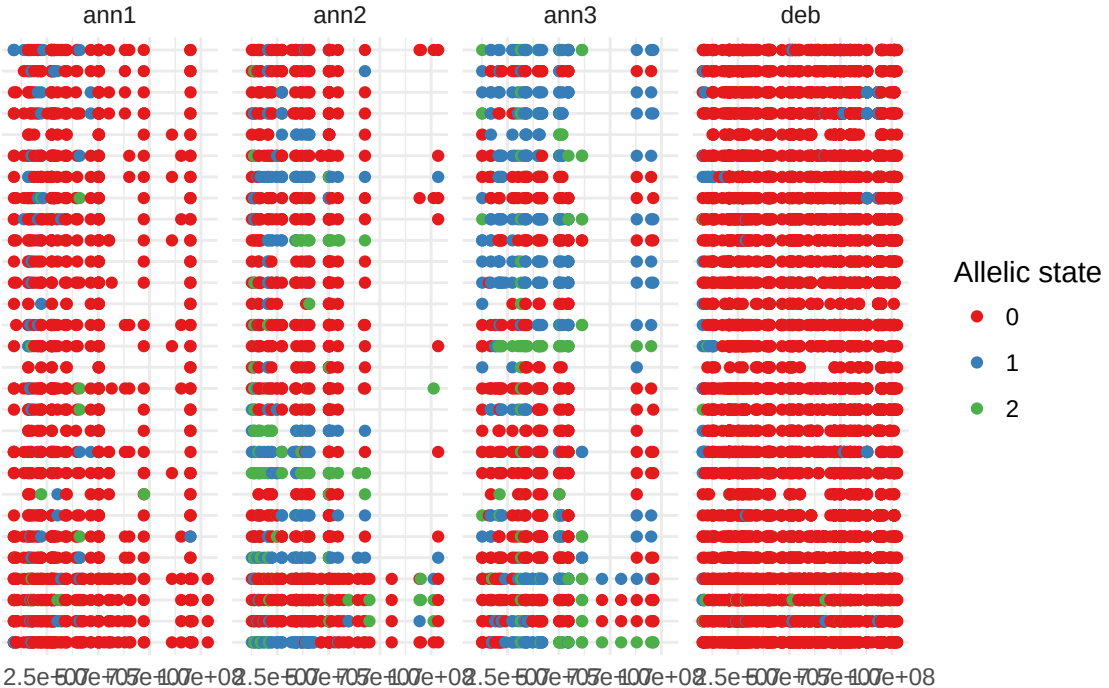

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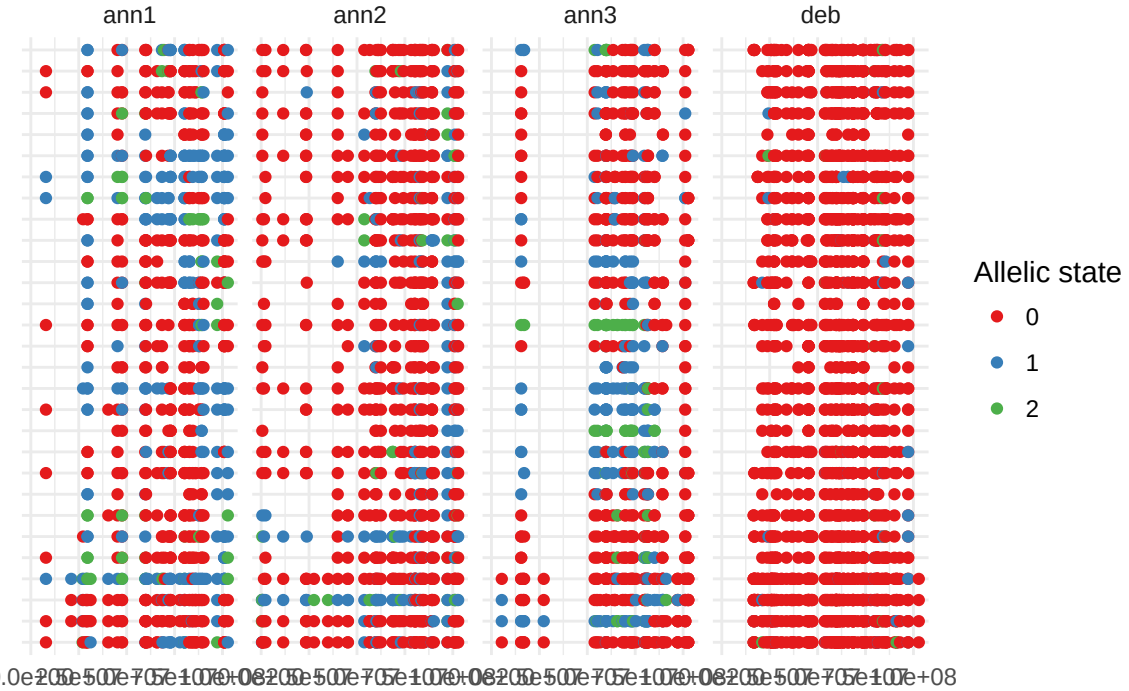

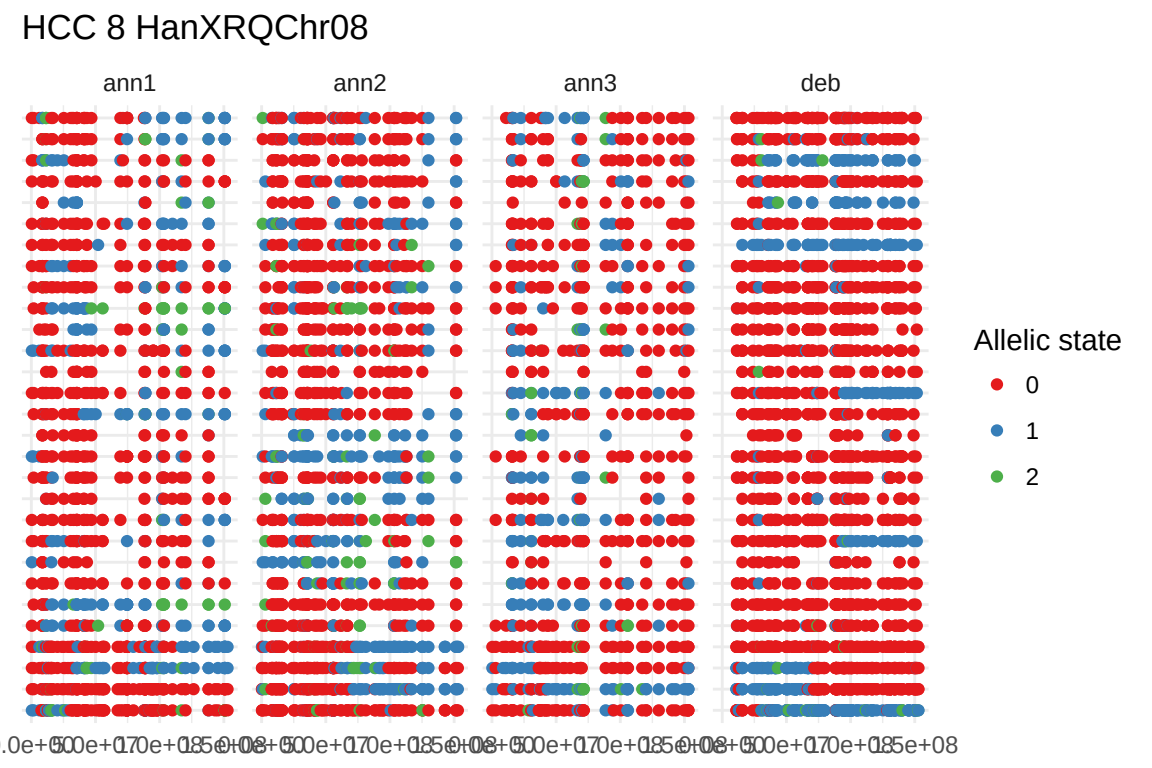
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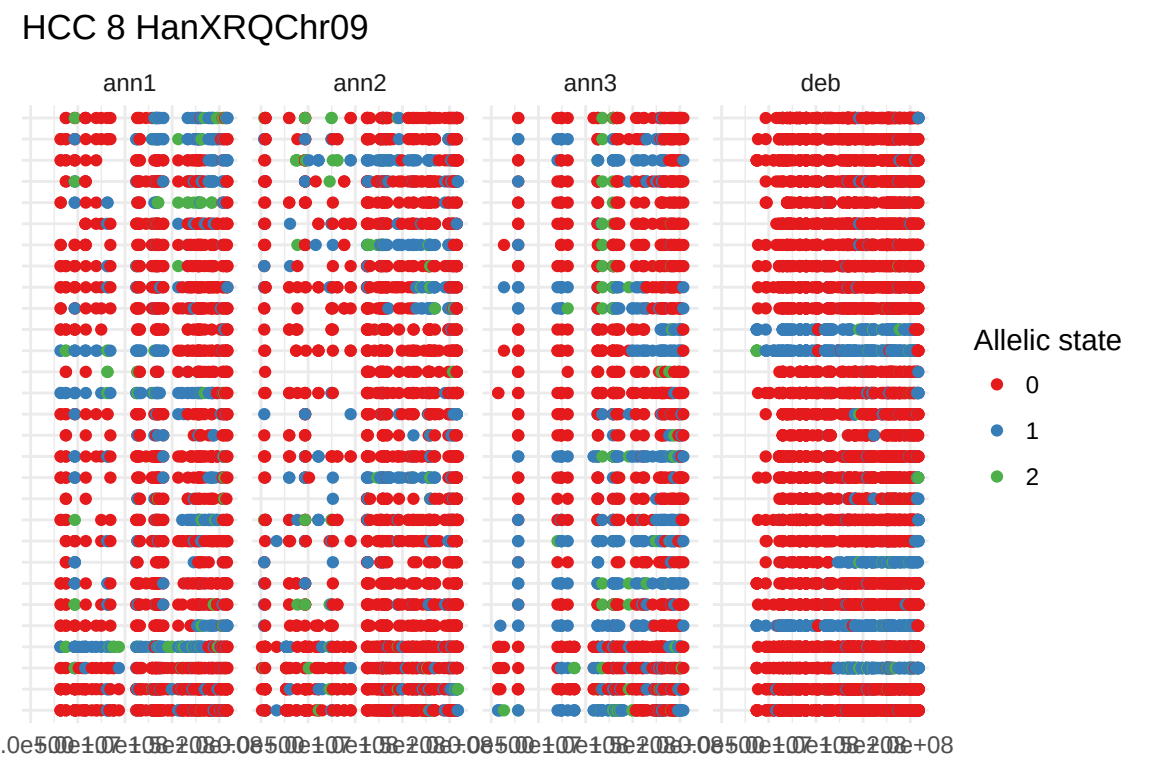
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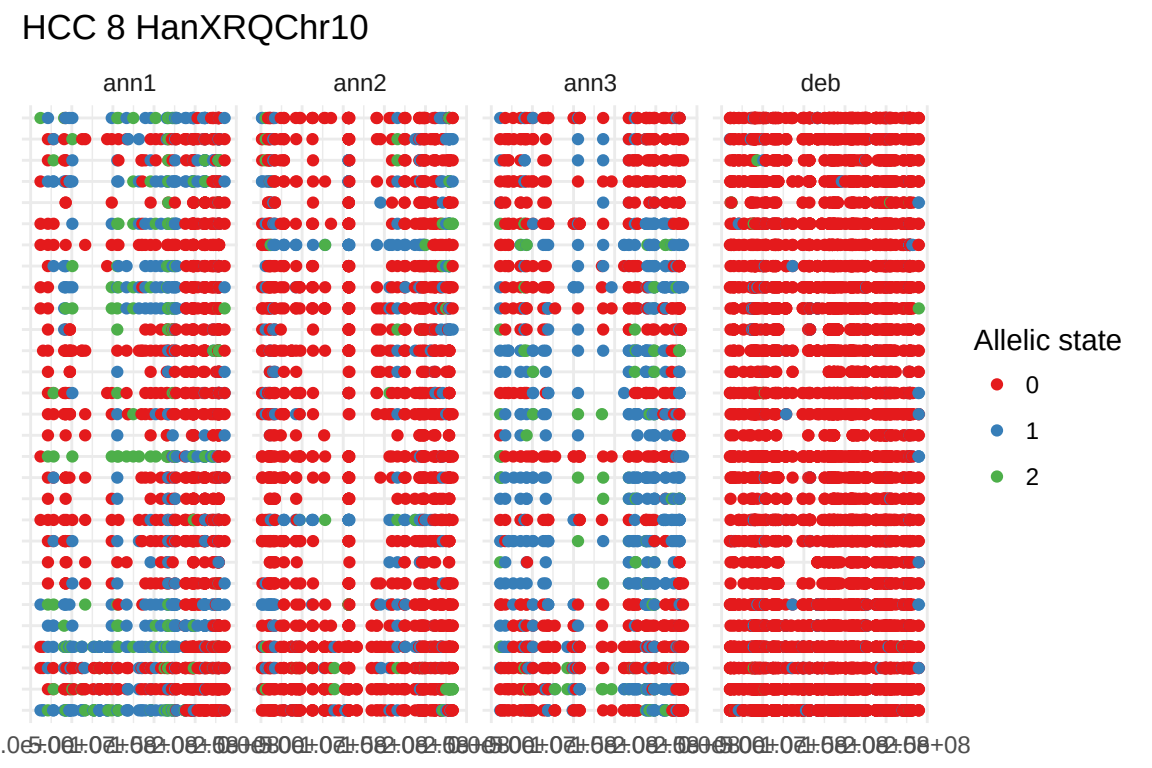
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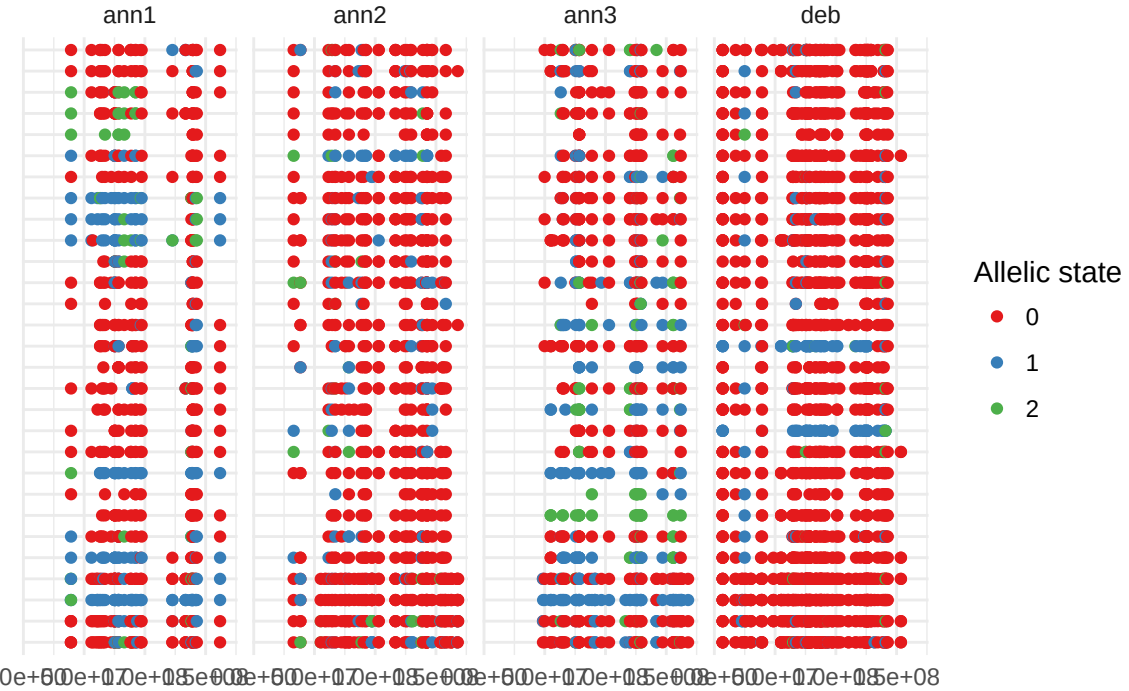

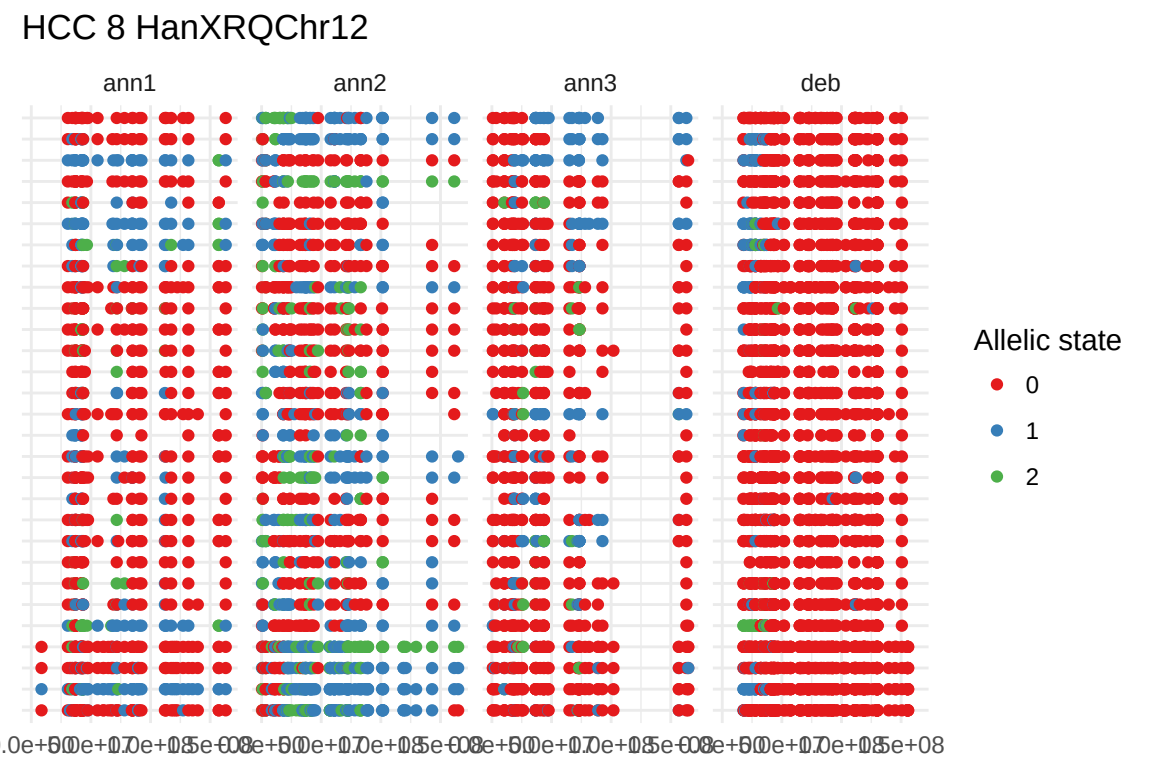
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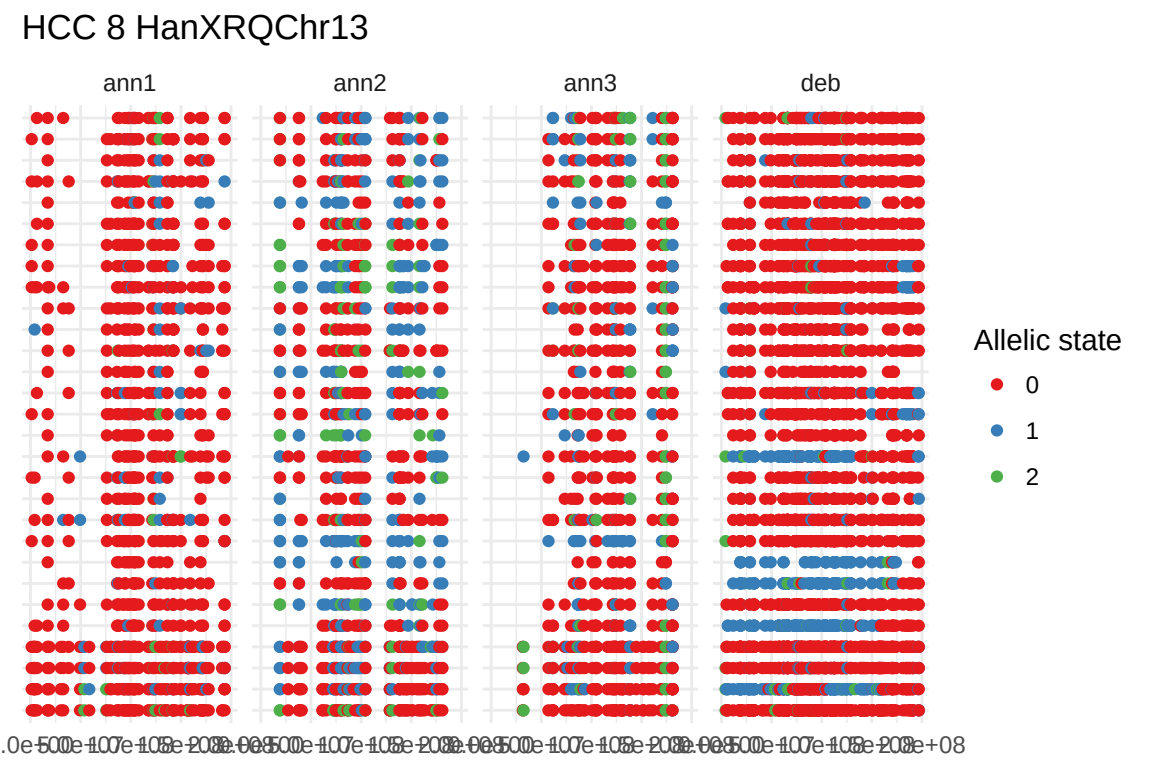
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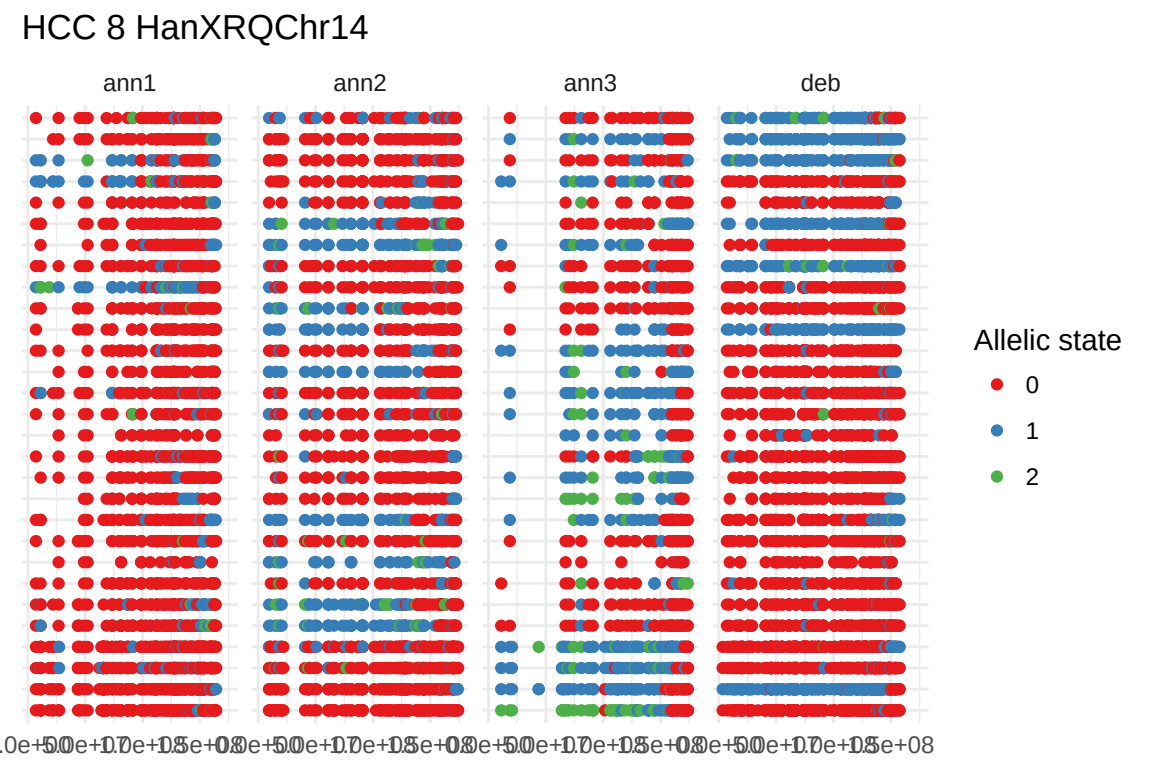
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HCC 8 HanXRQChr15
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ann2
ann3
deb
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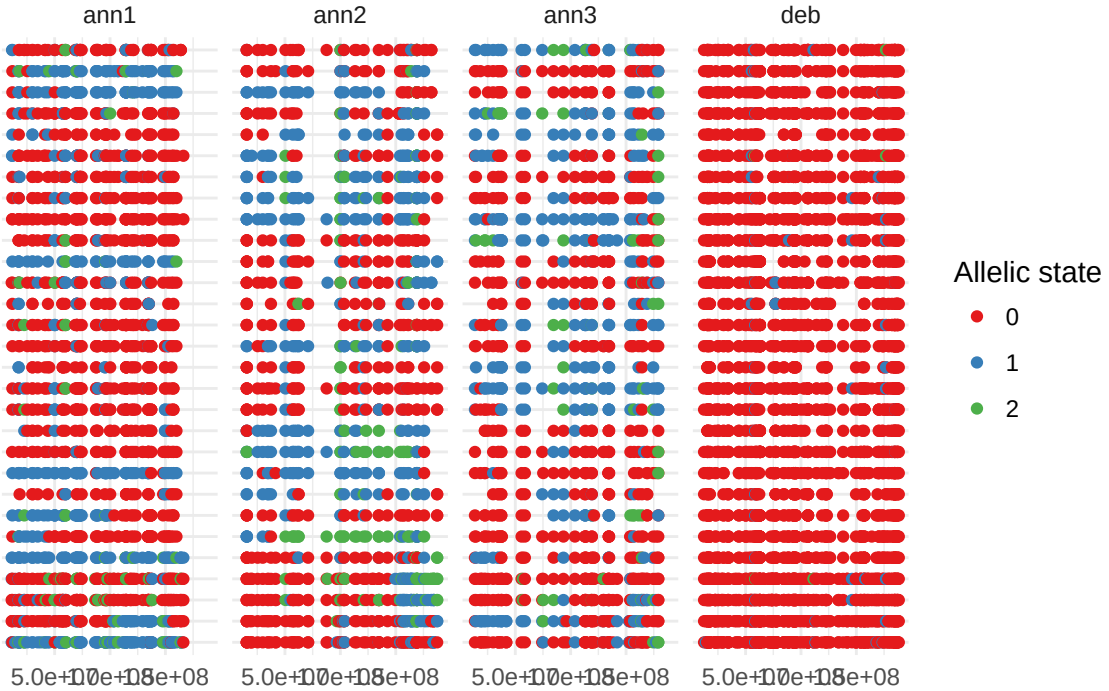

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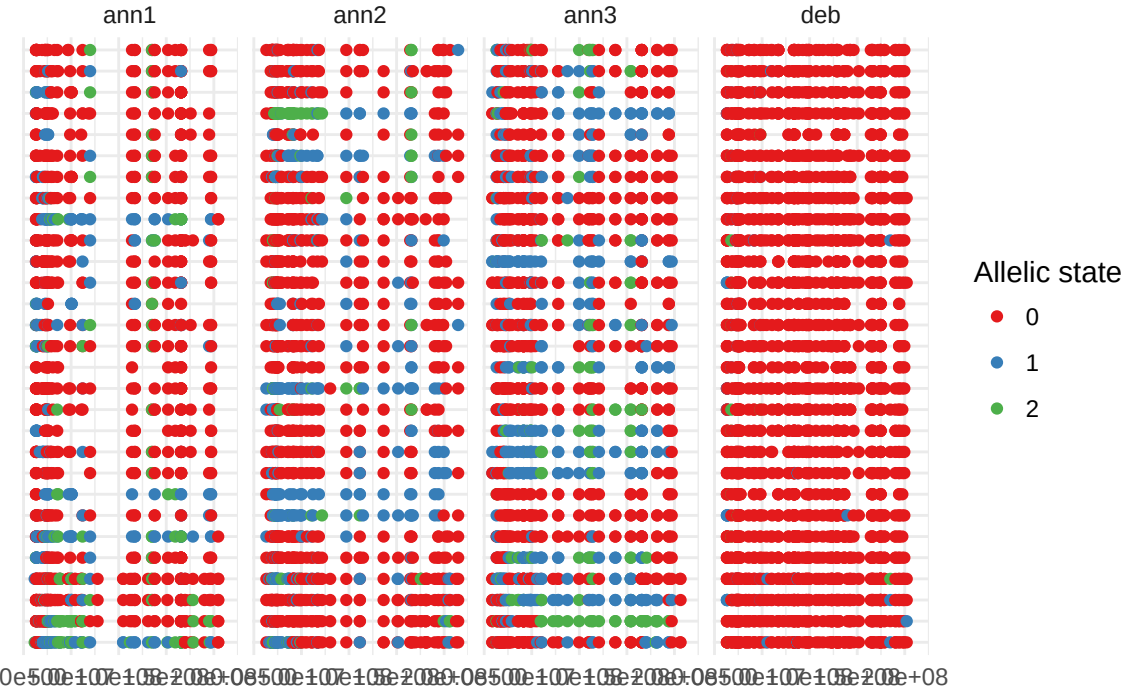

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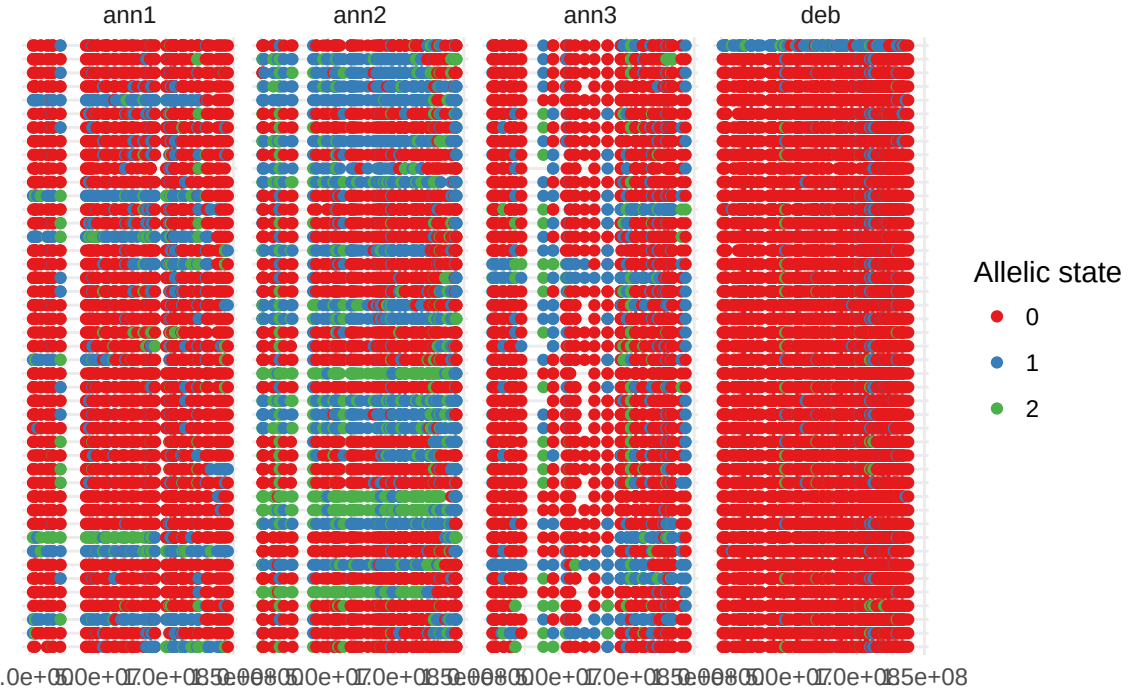

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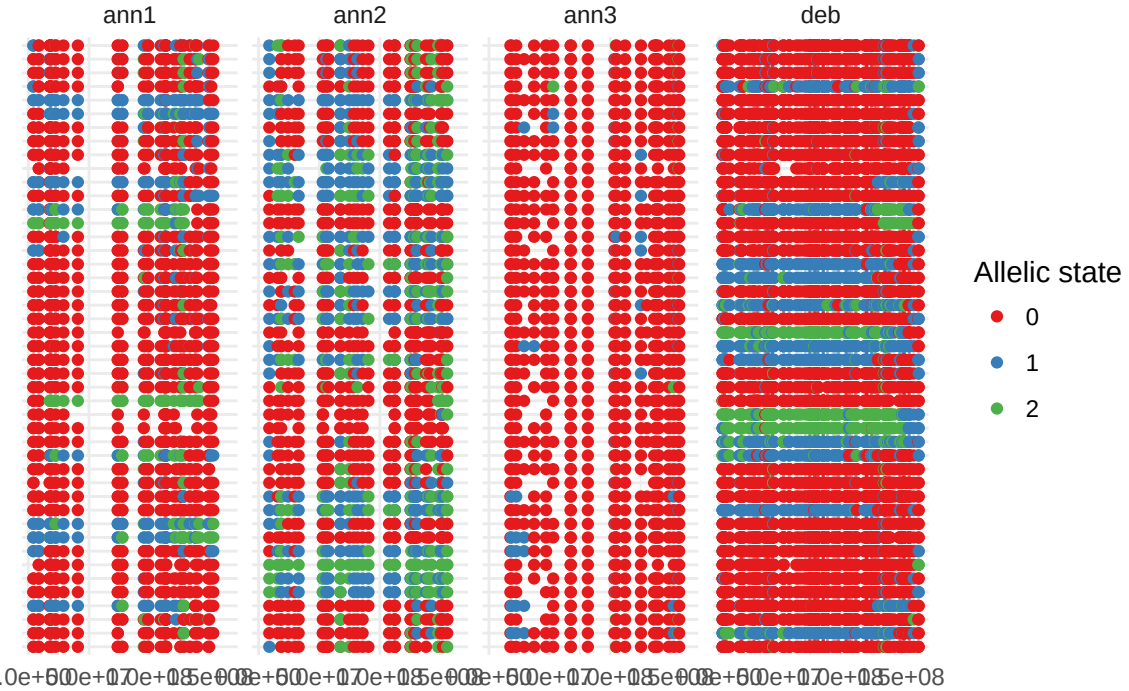

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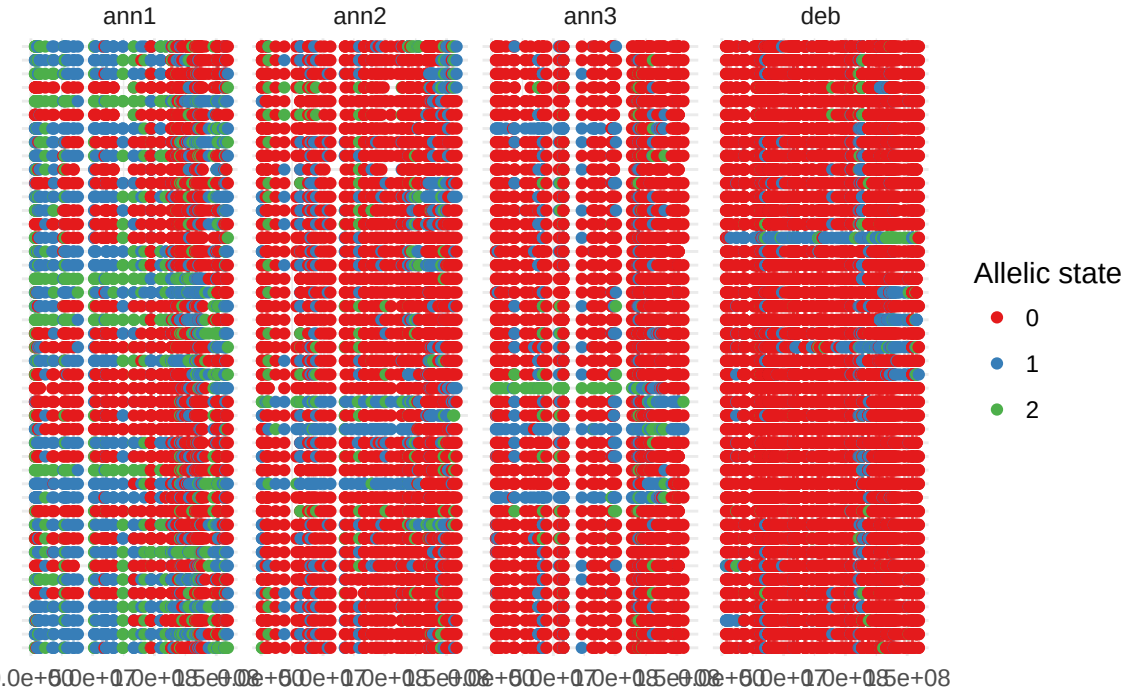

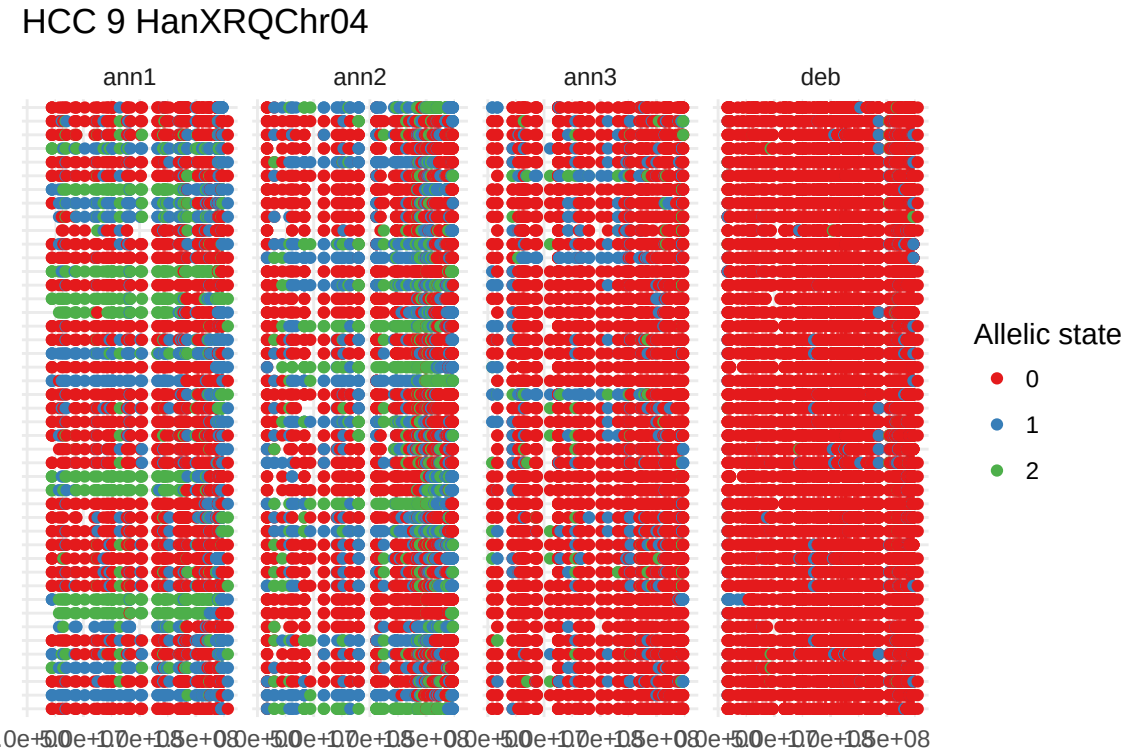
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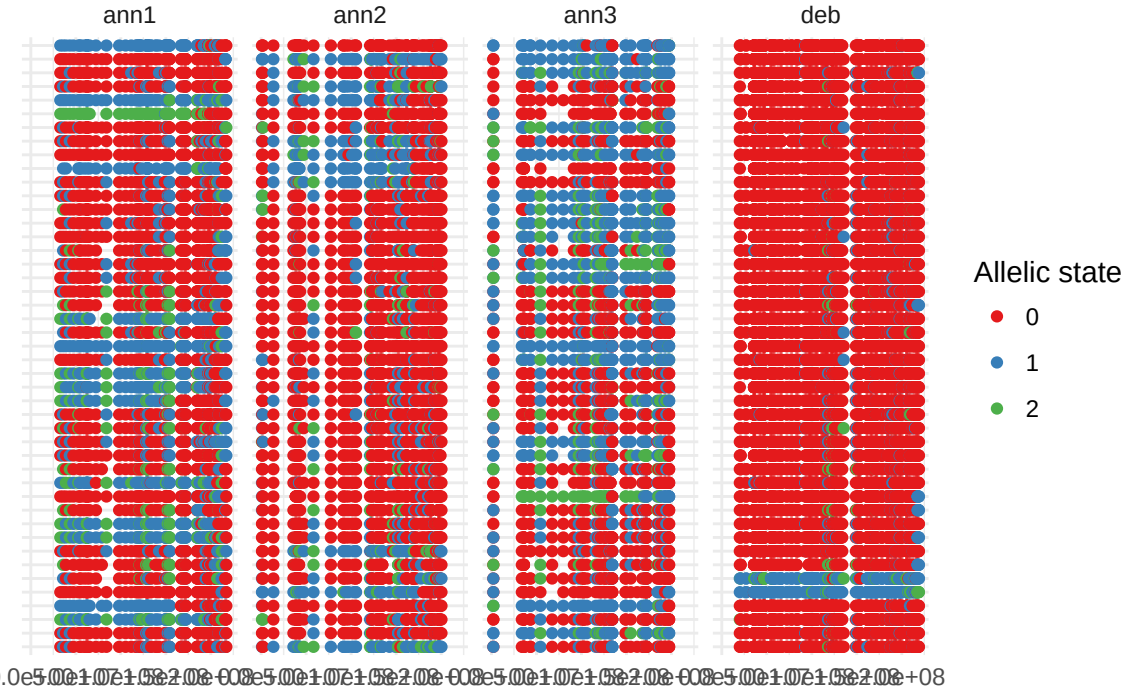
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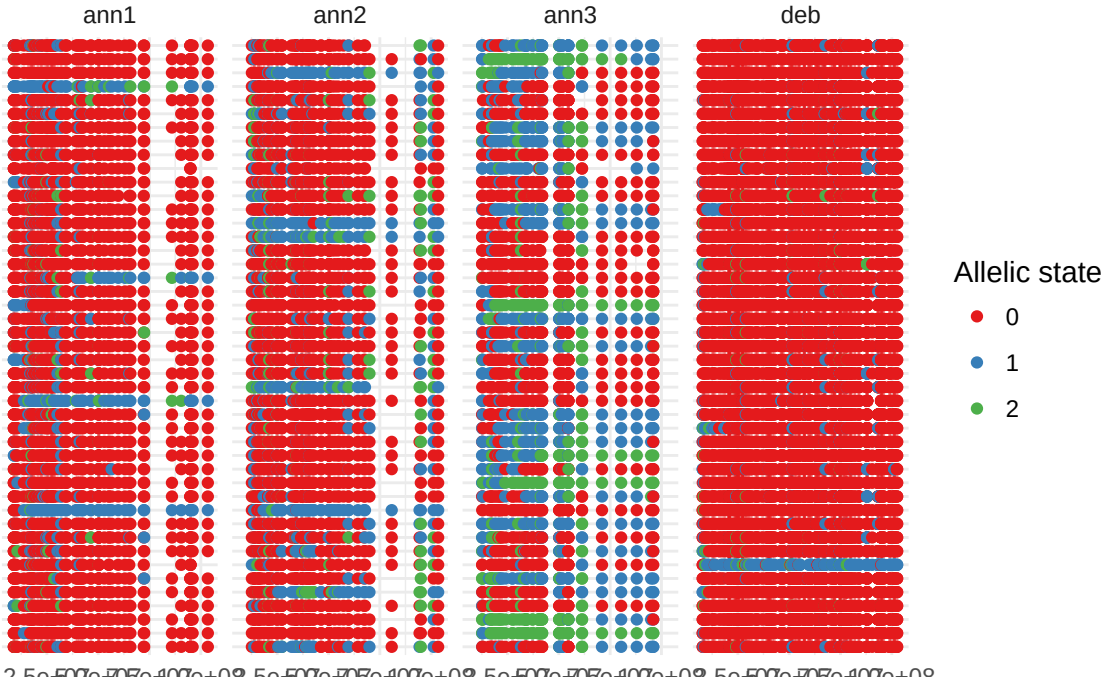

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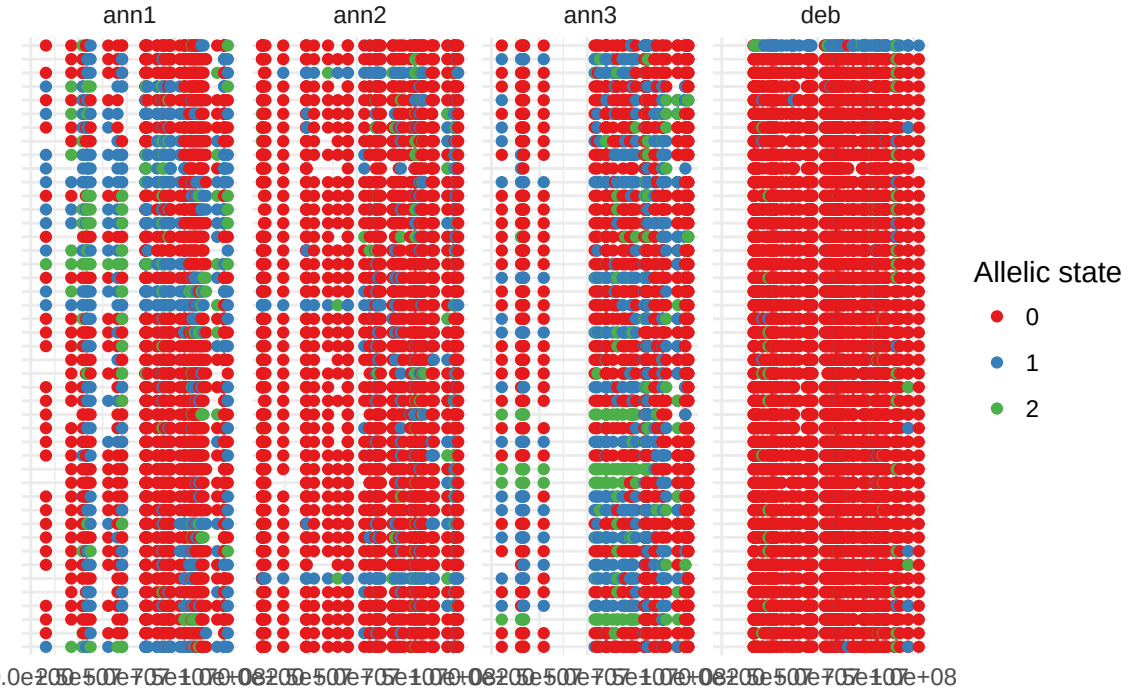

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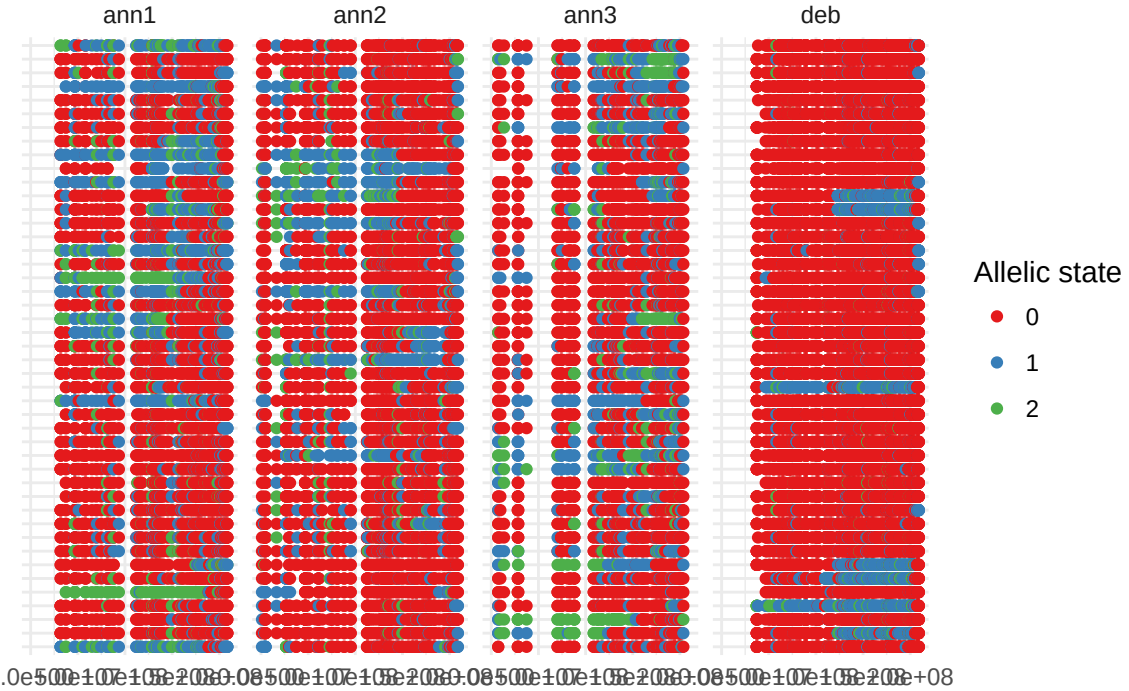

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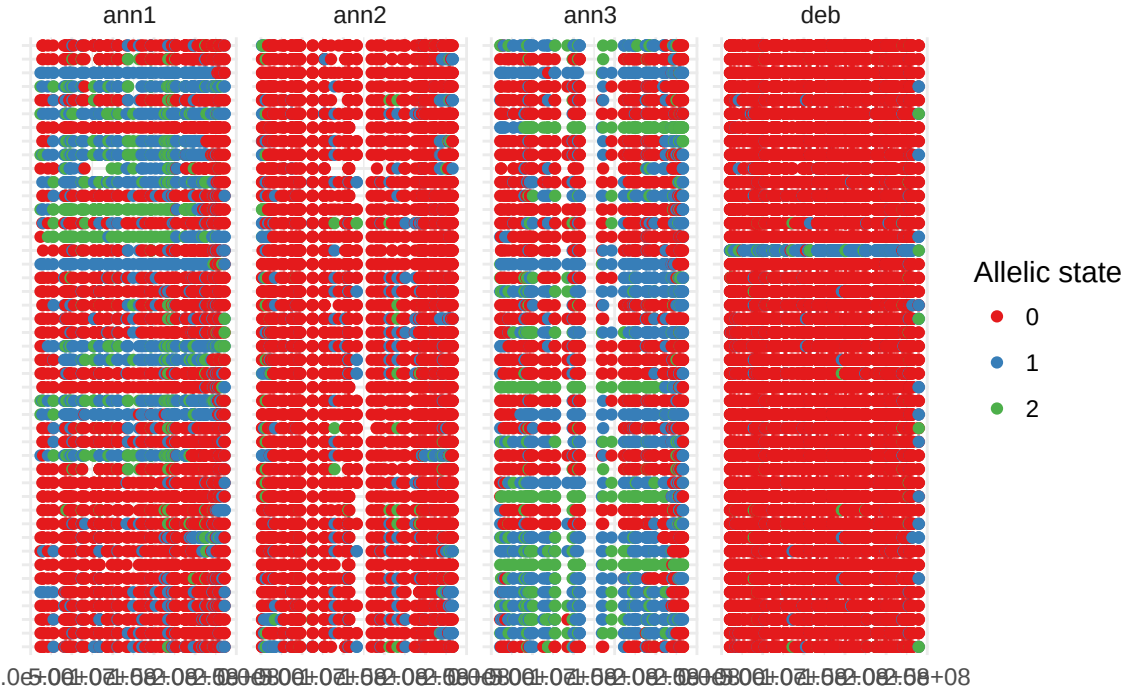

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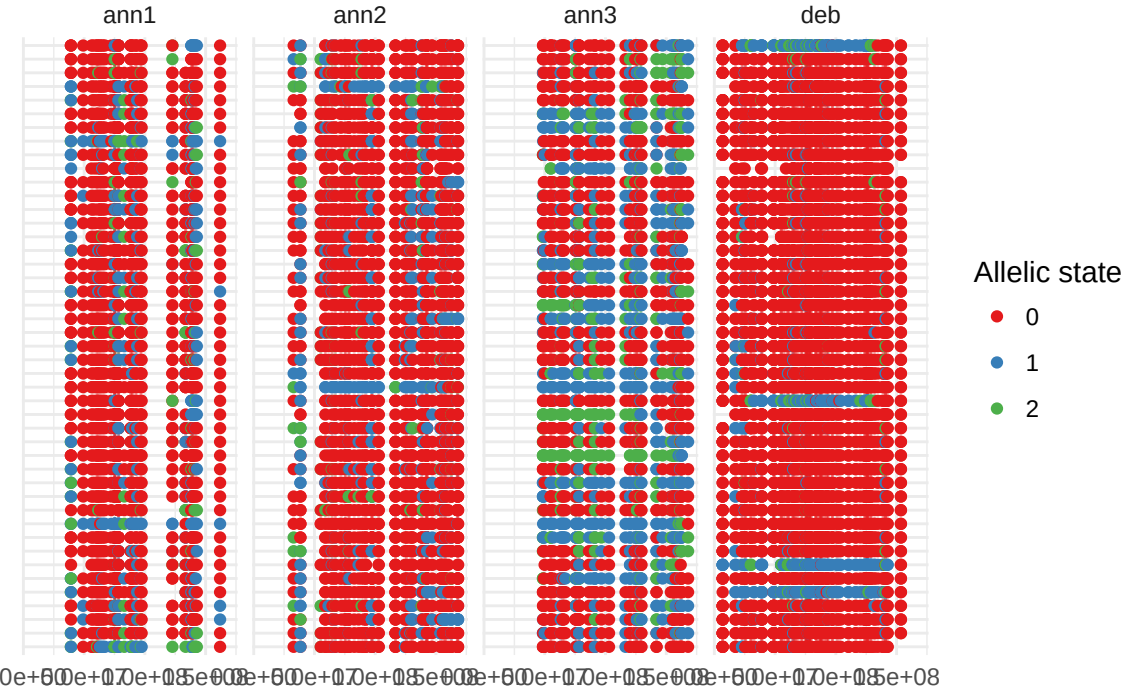

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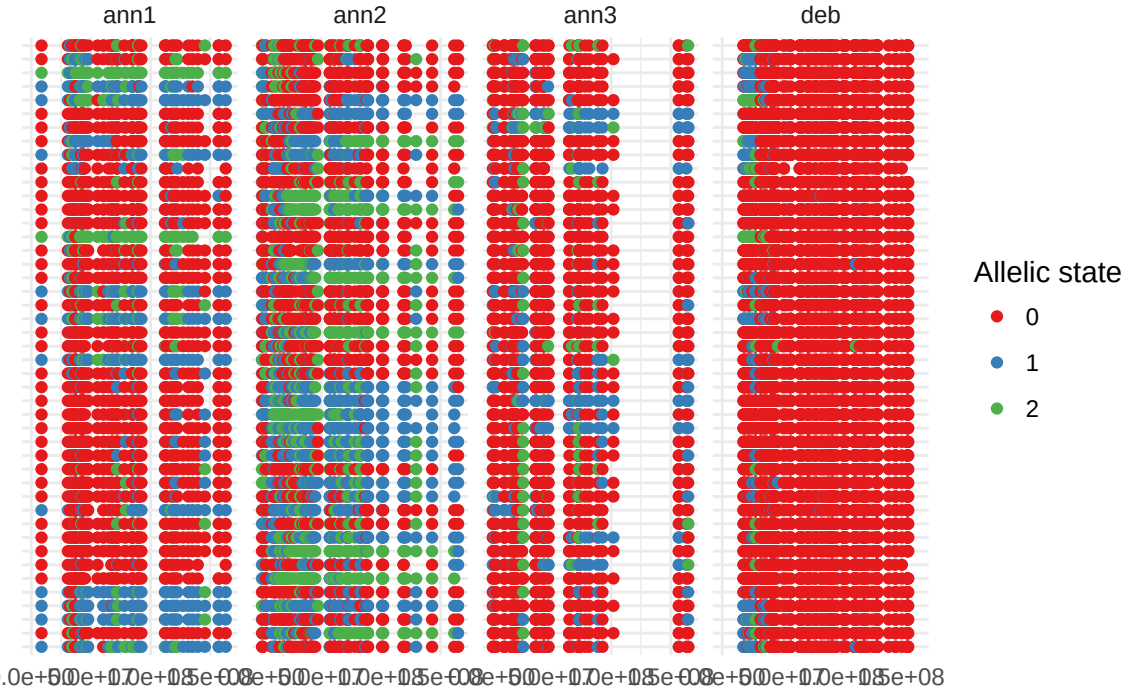

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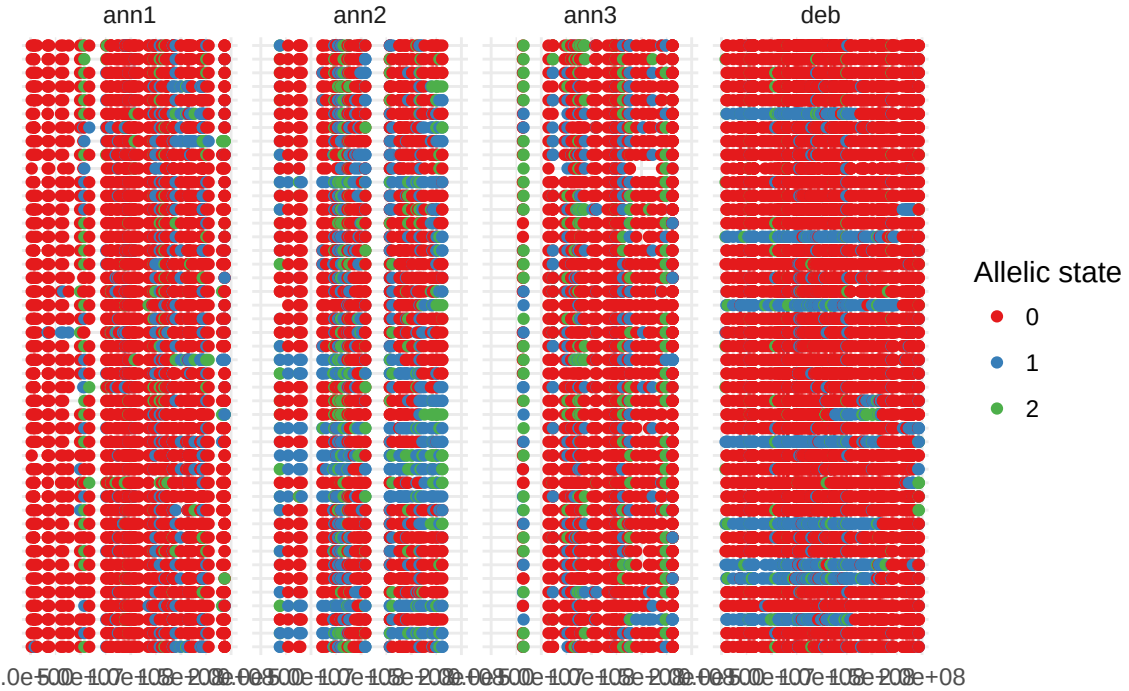

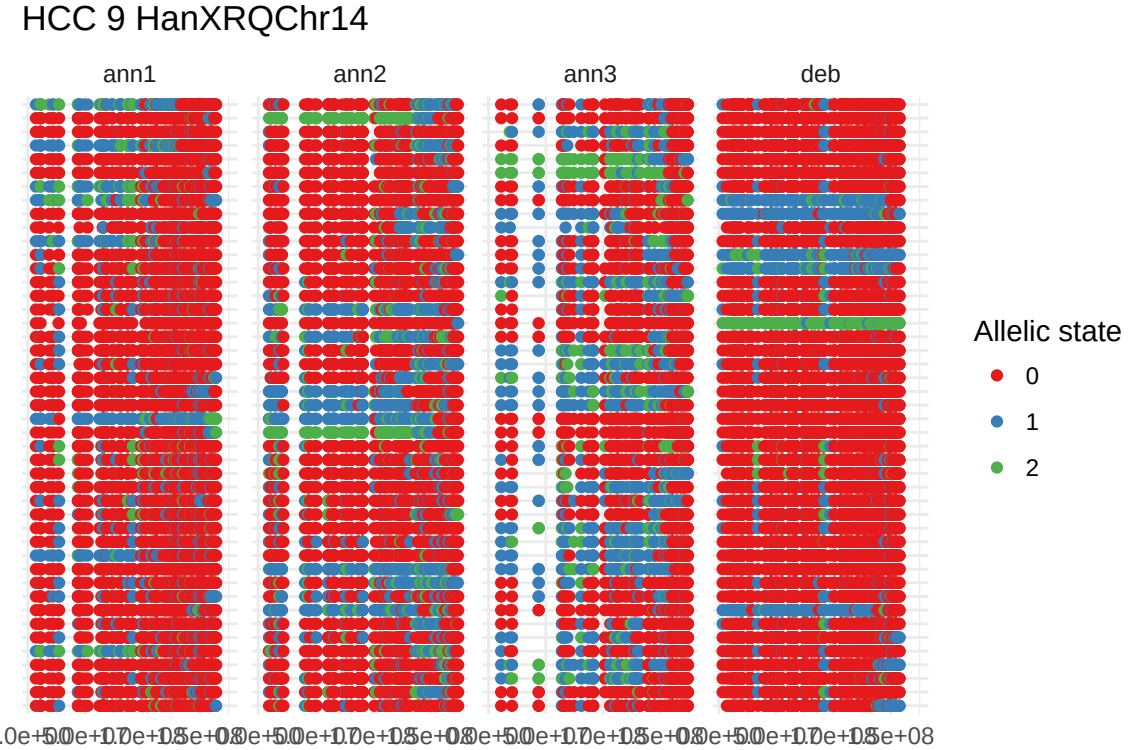
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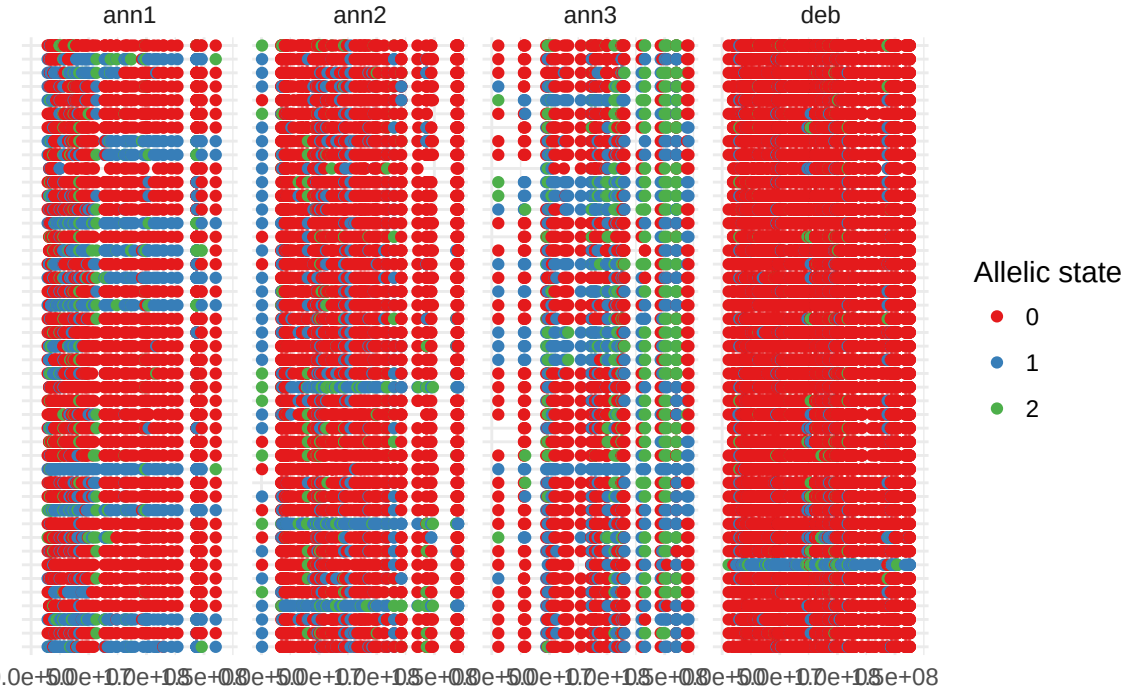

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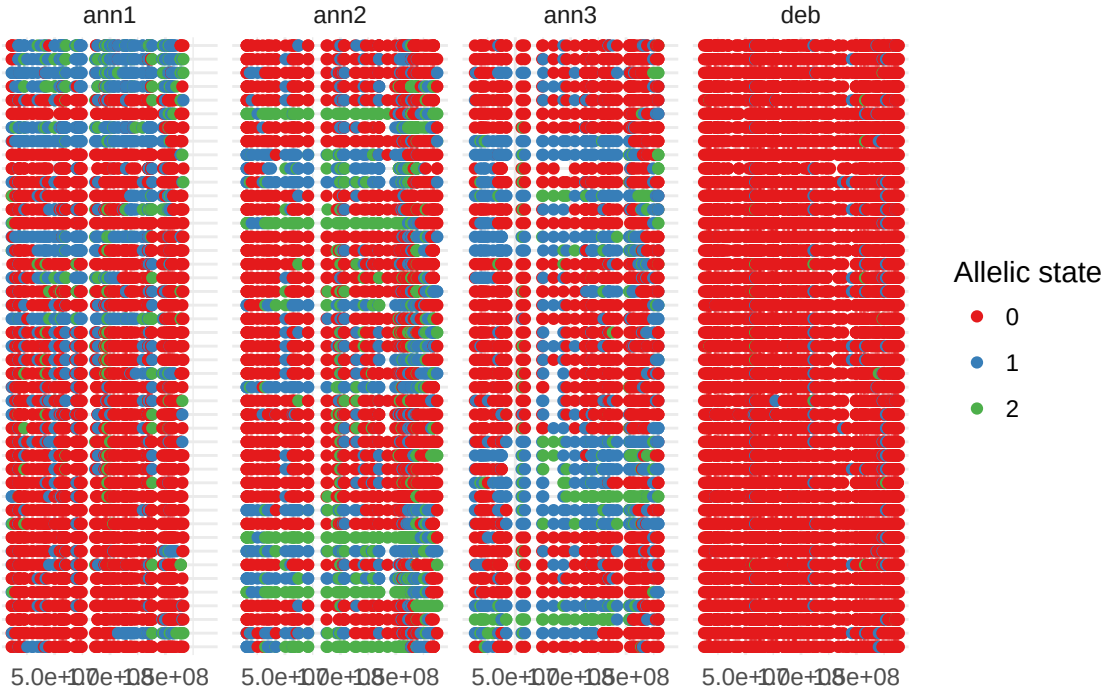

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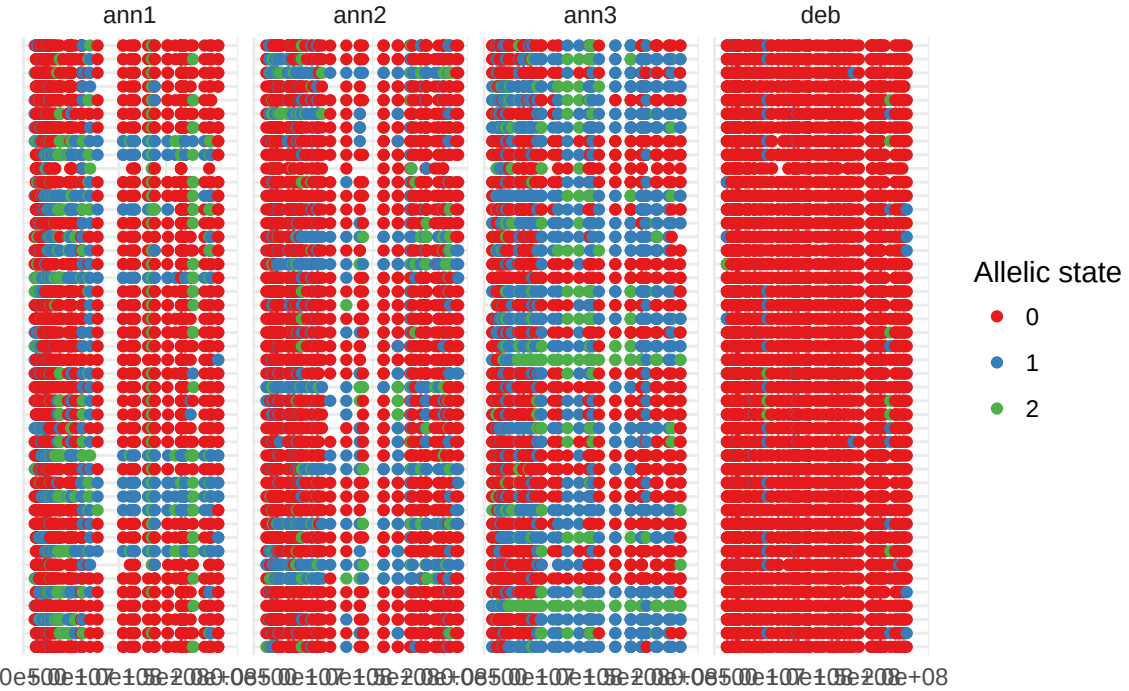

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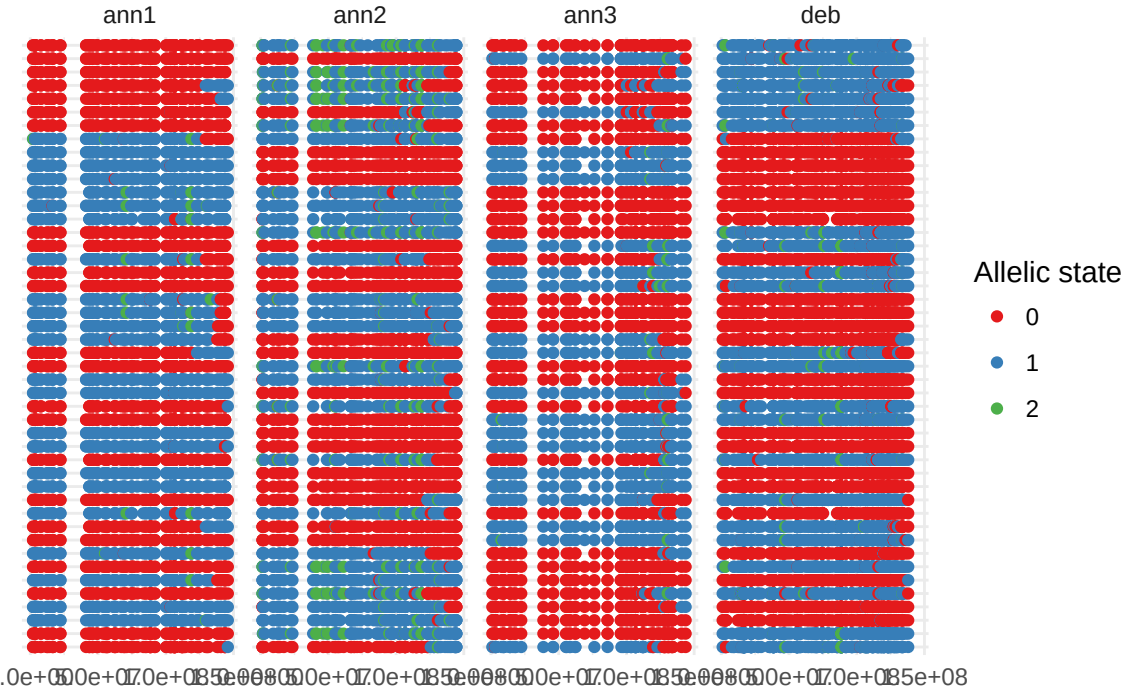

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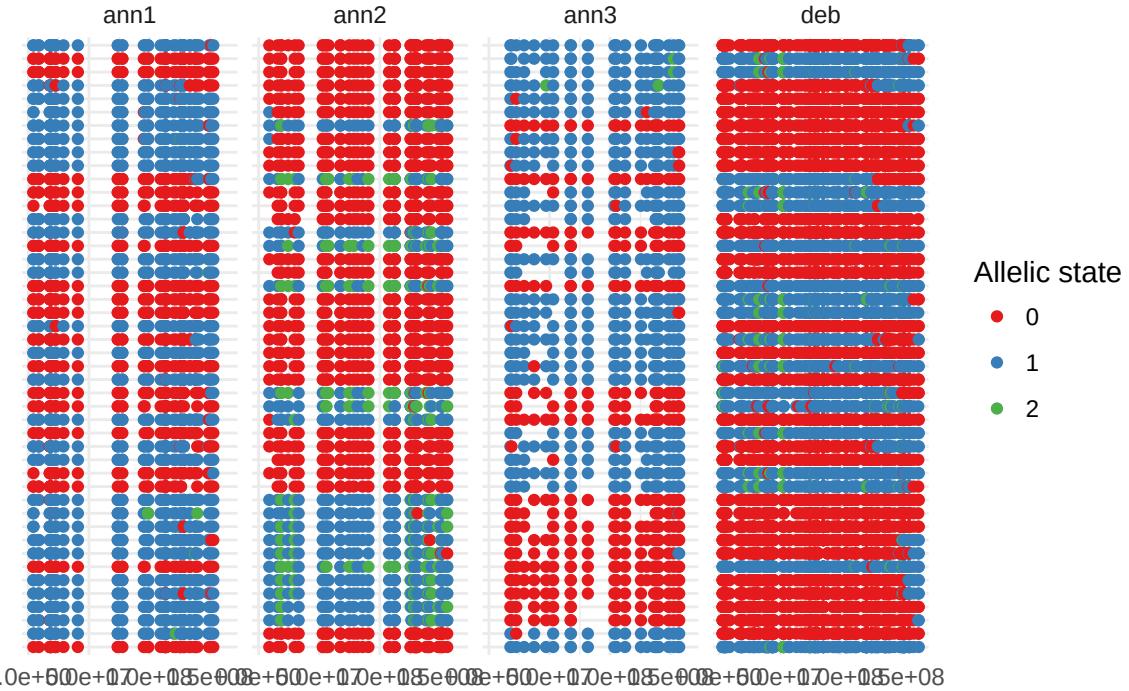

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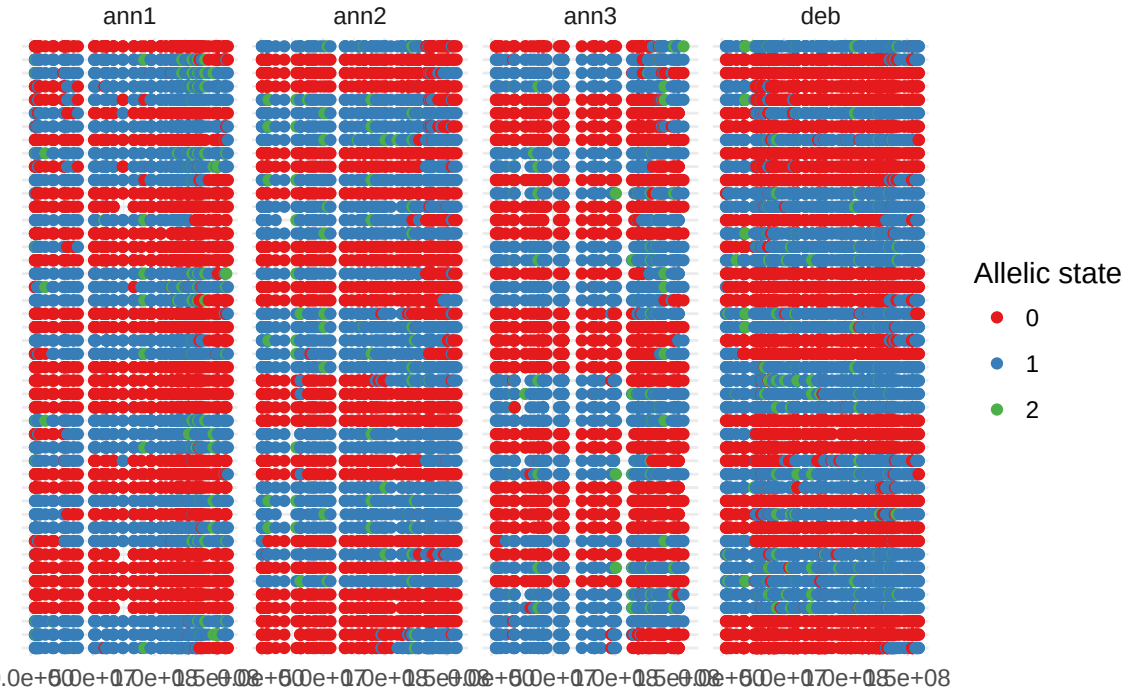

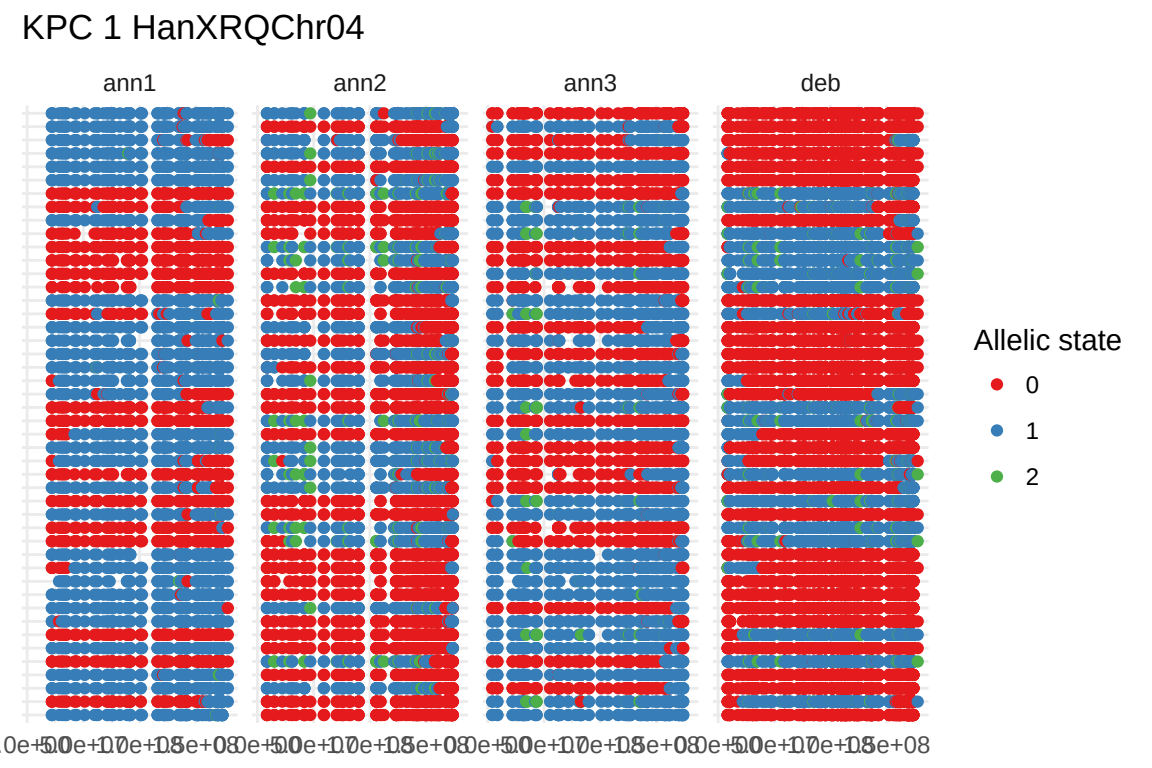
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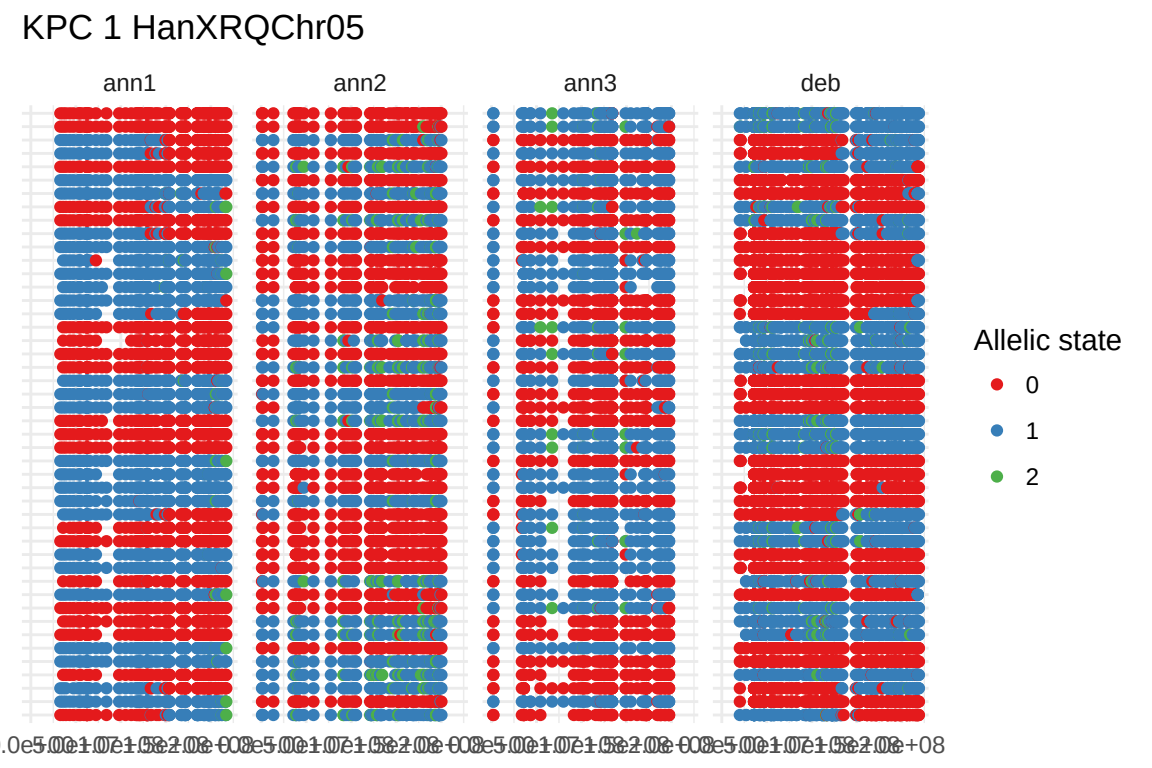
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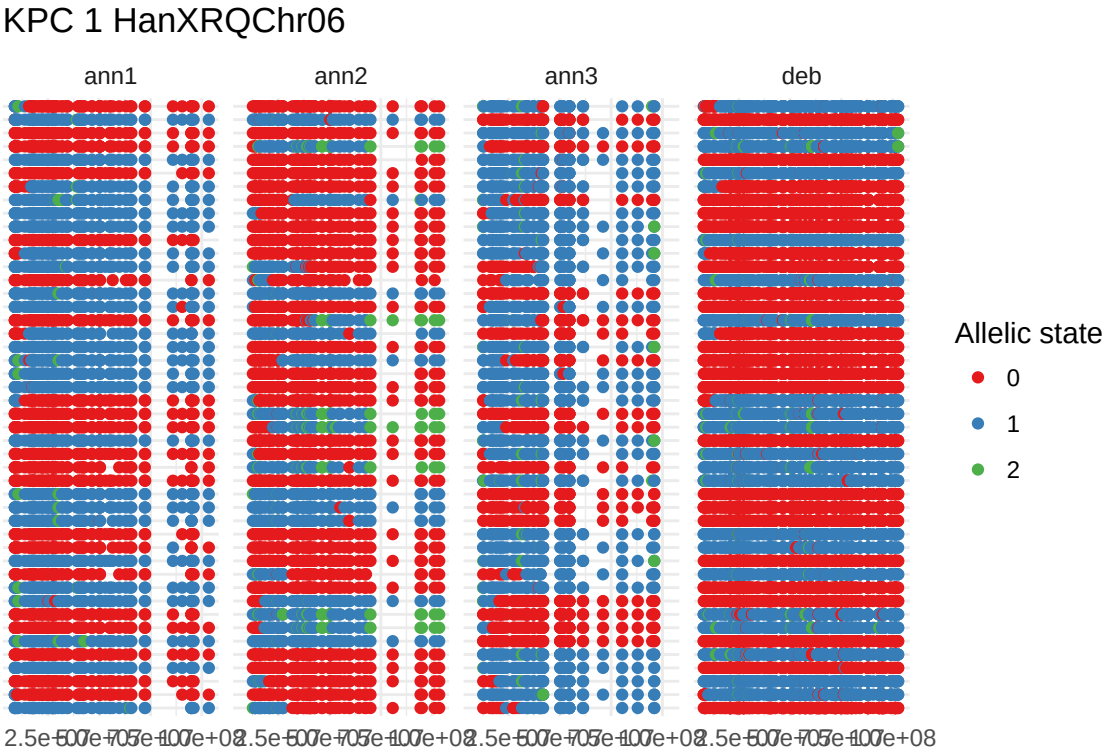
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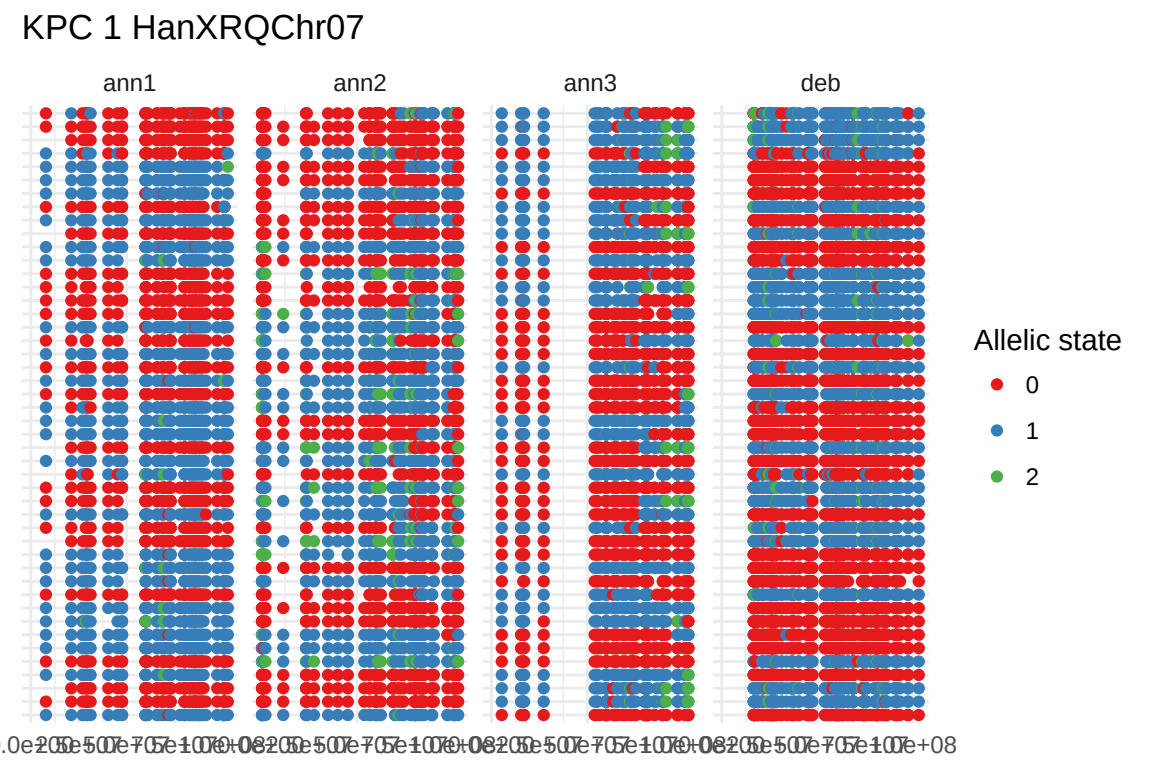
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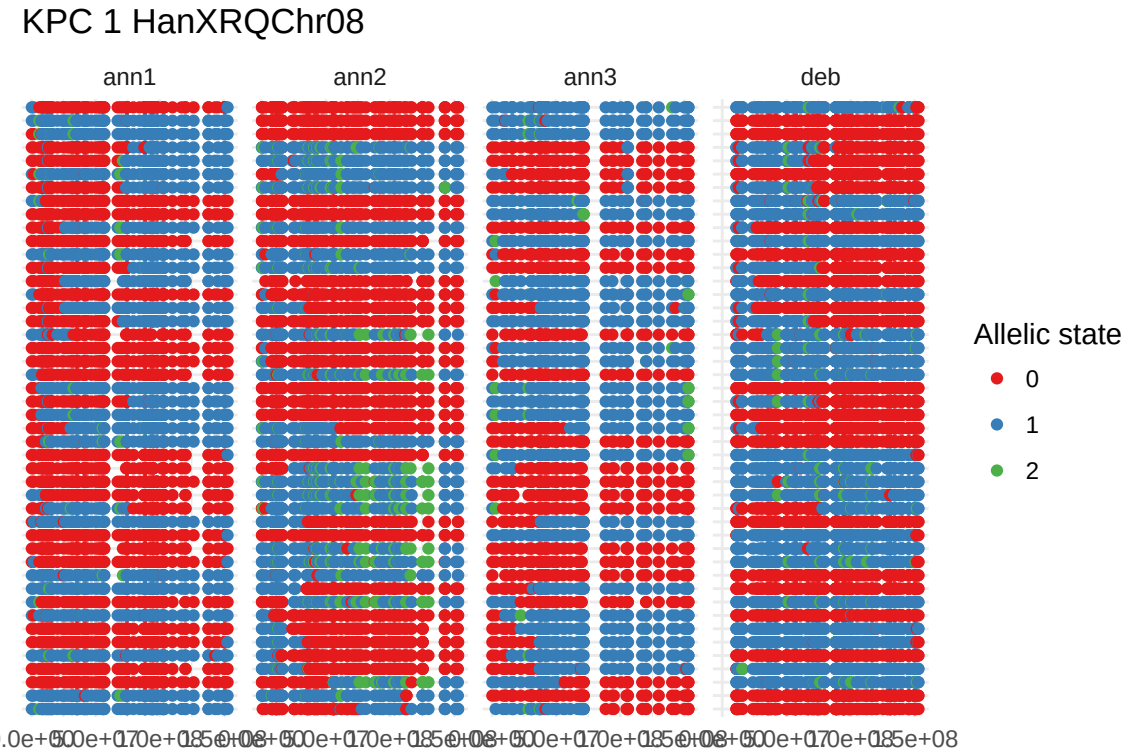
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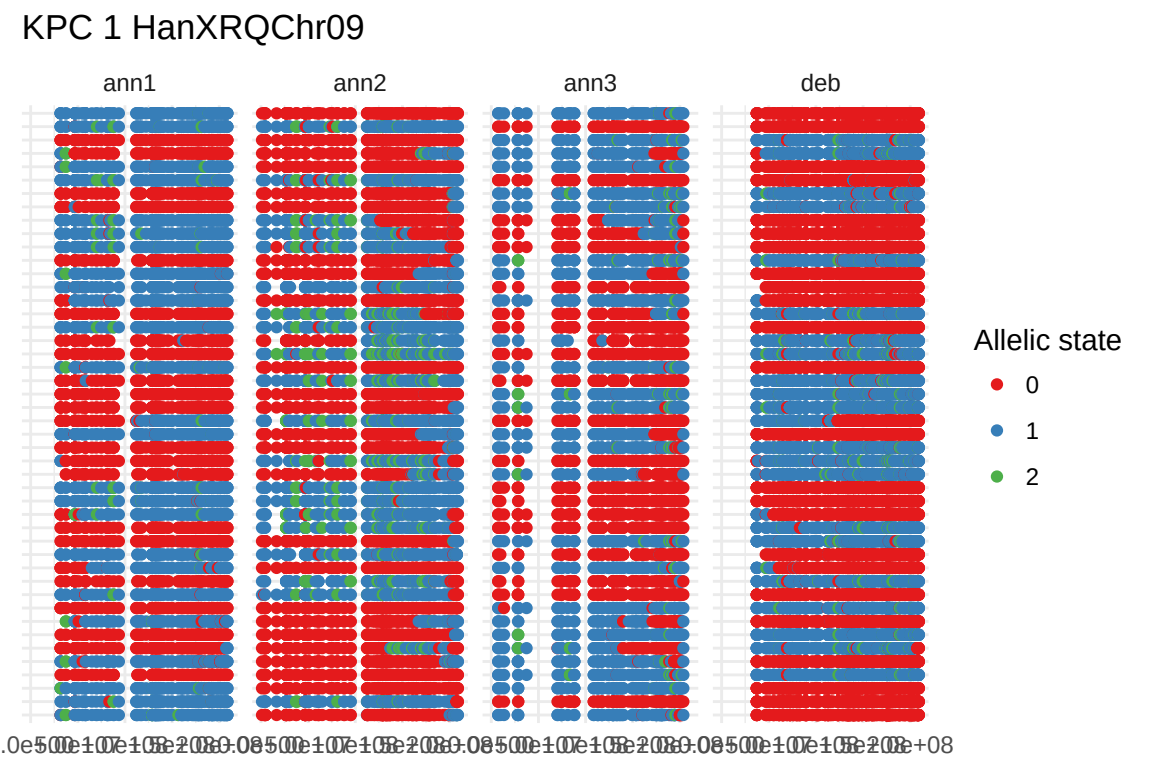
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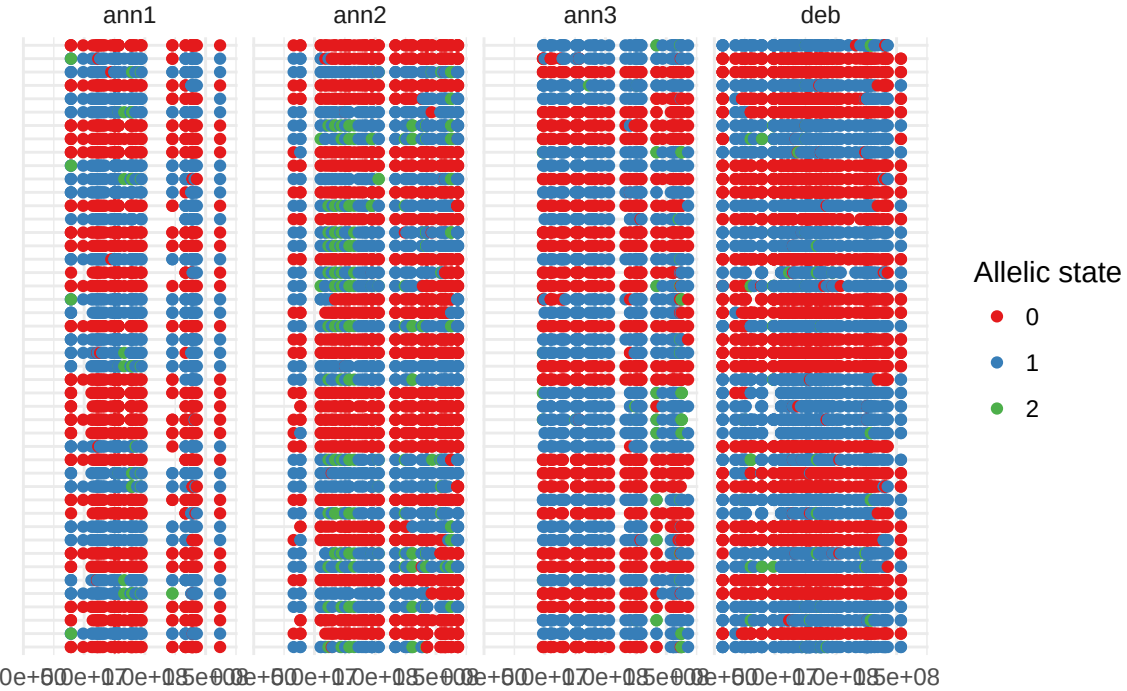

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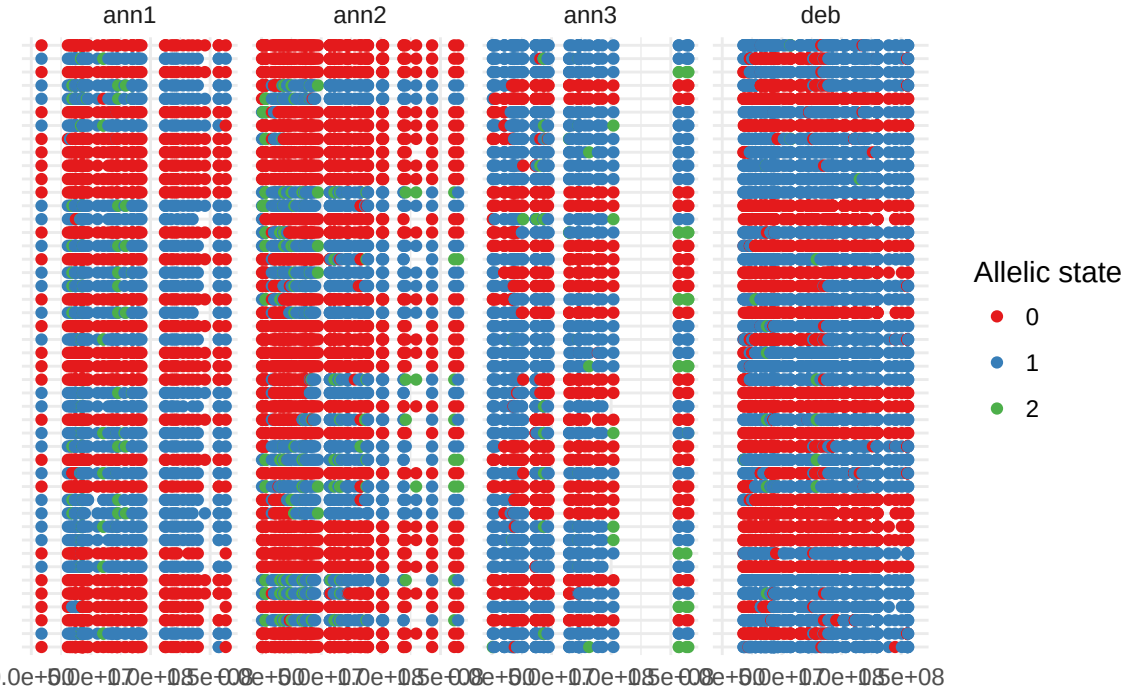

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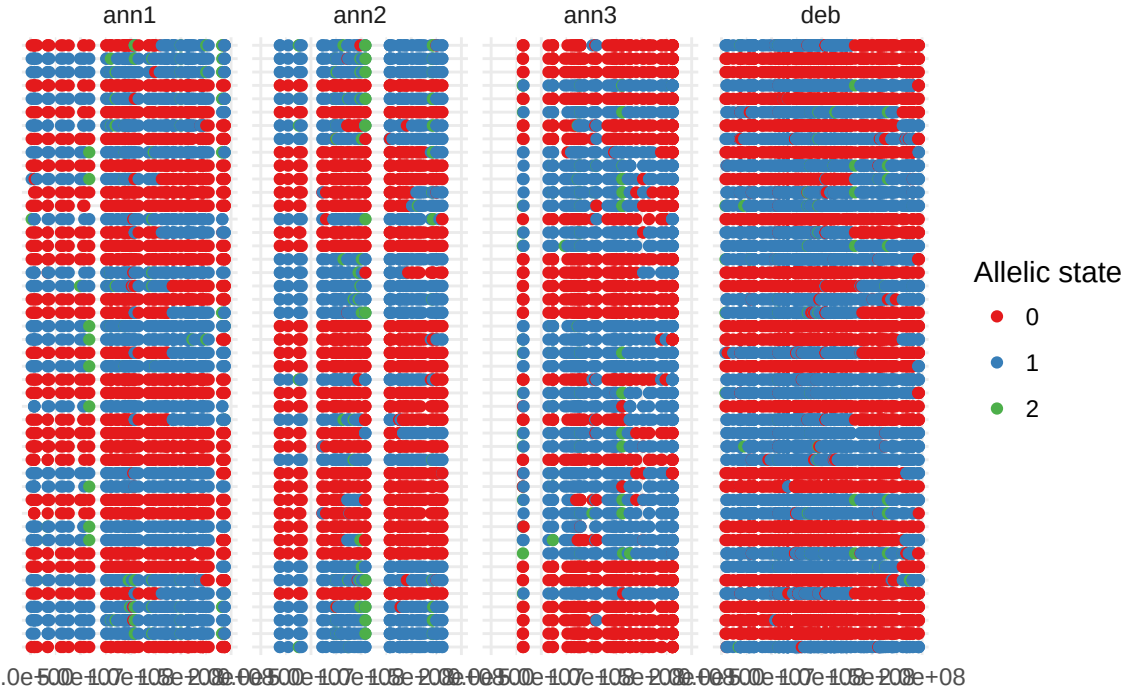

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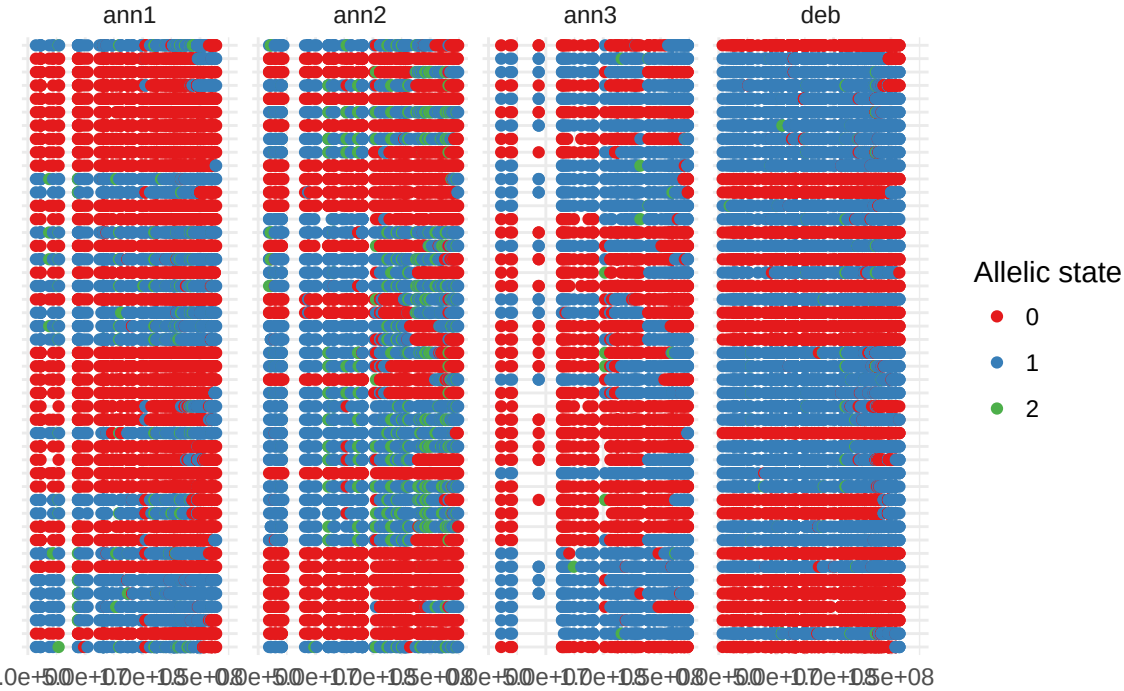
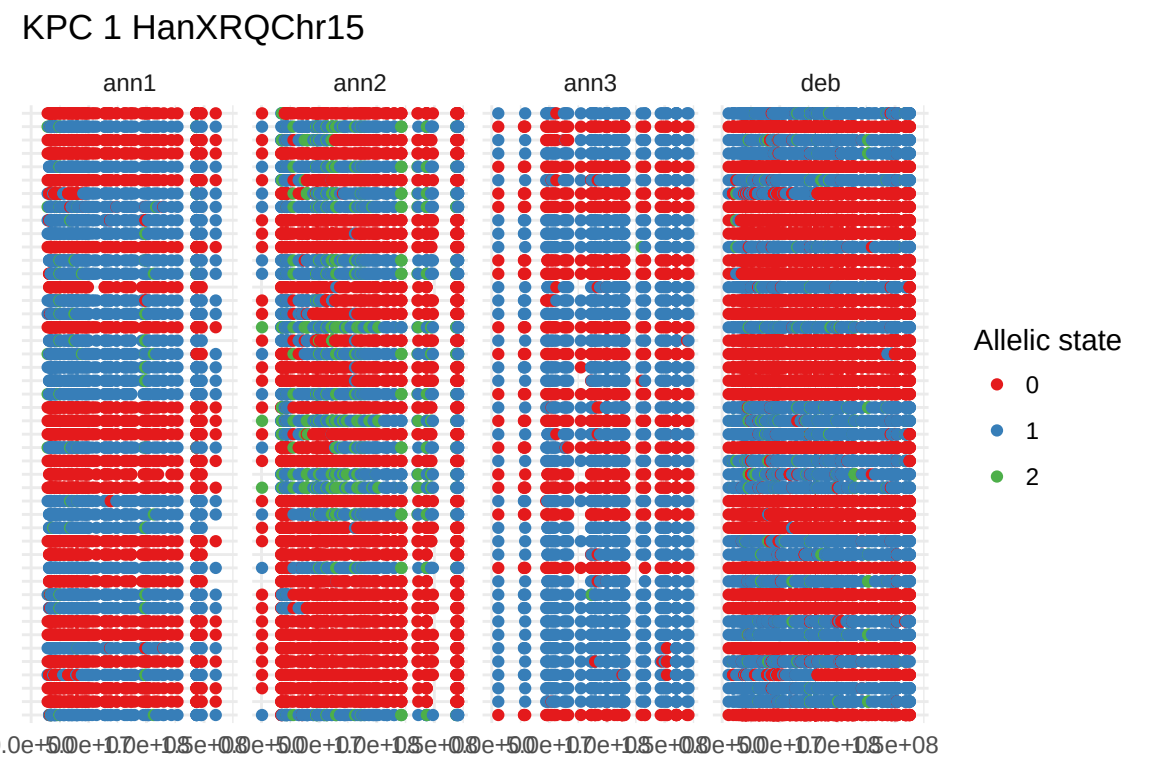
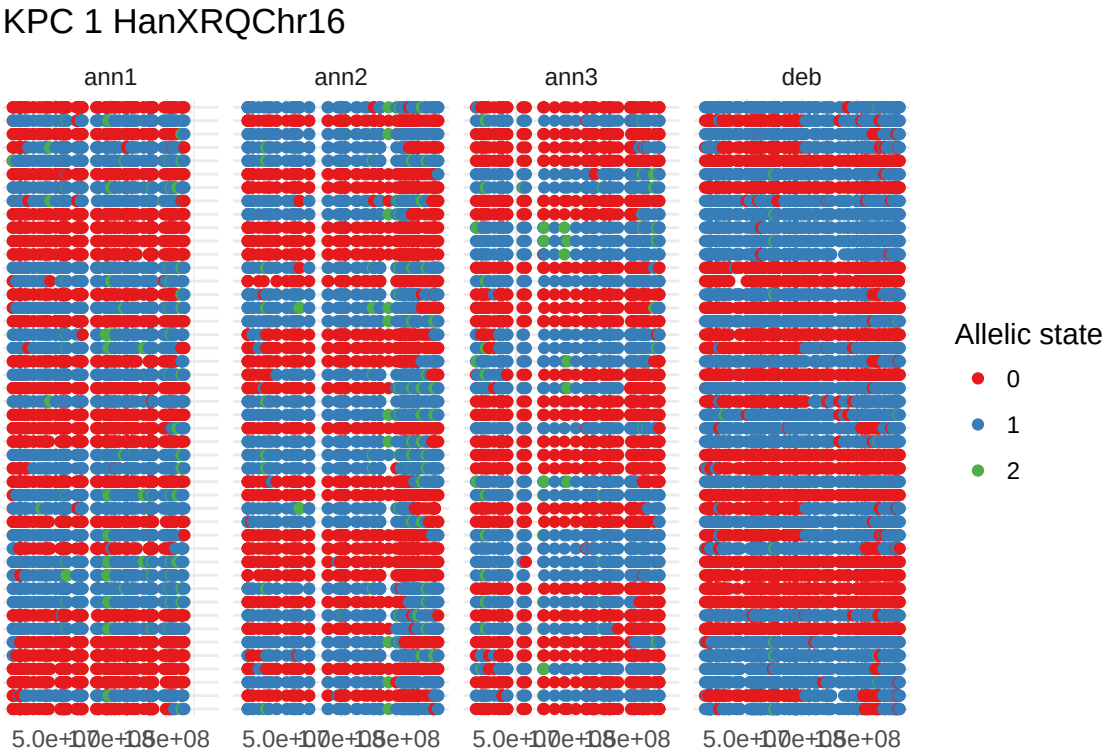
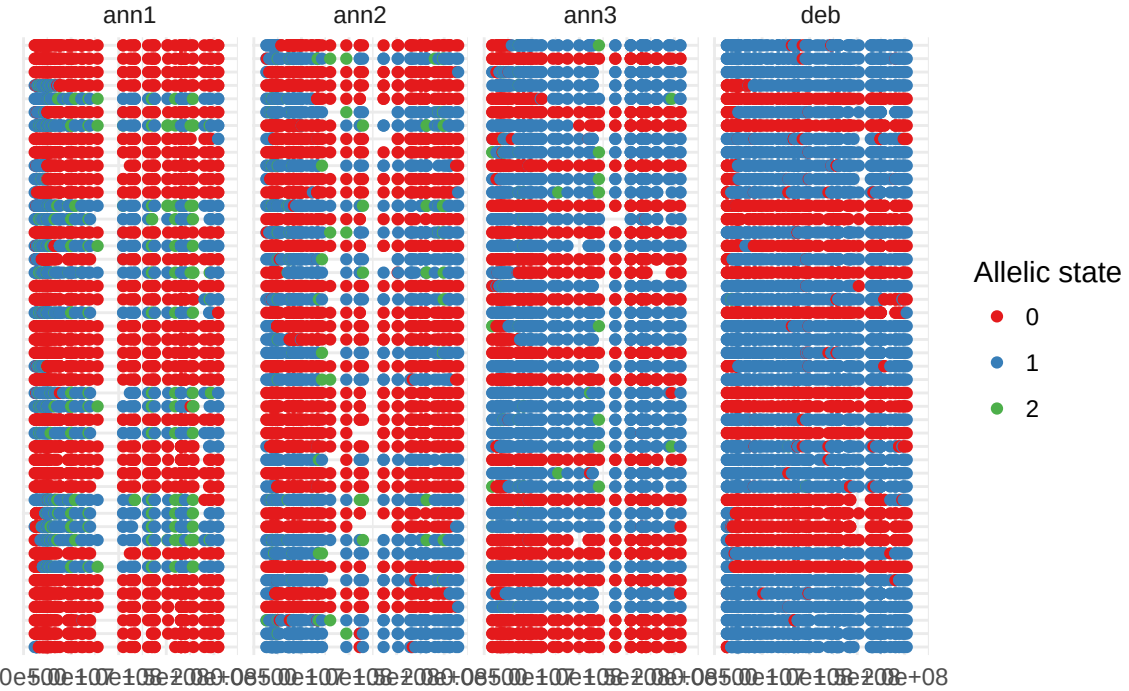
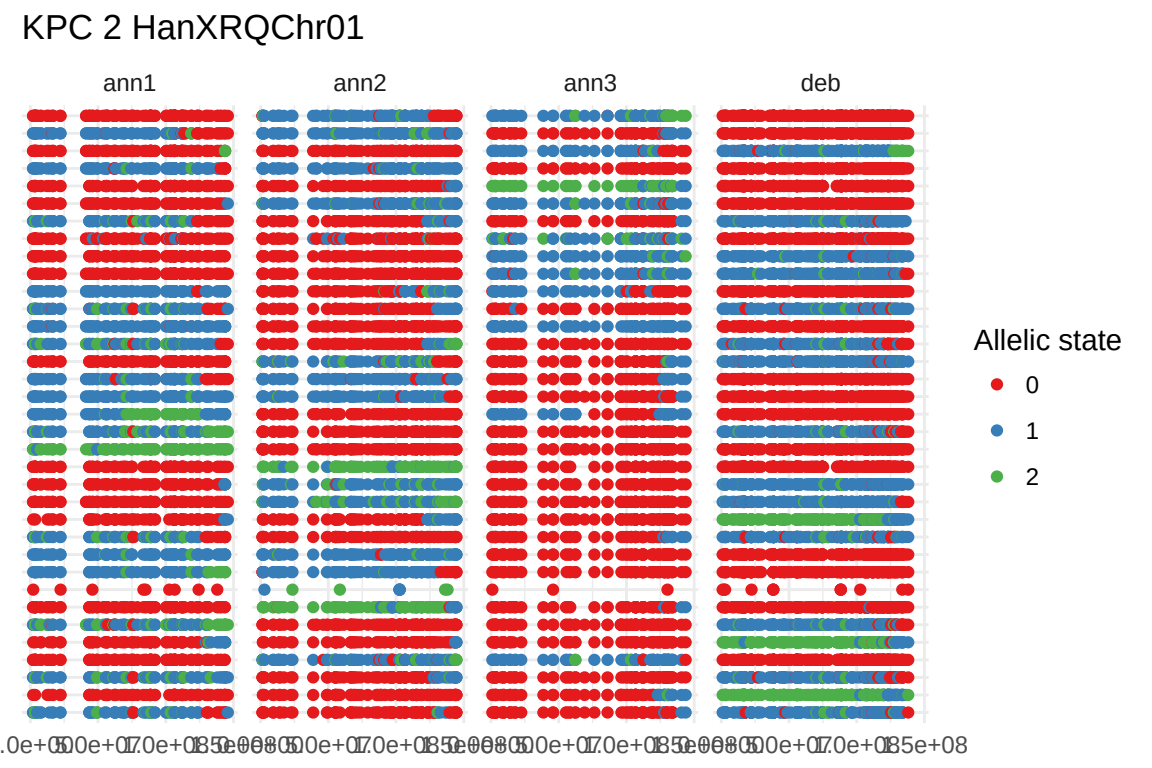



KPC 1 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2

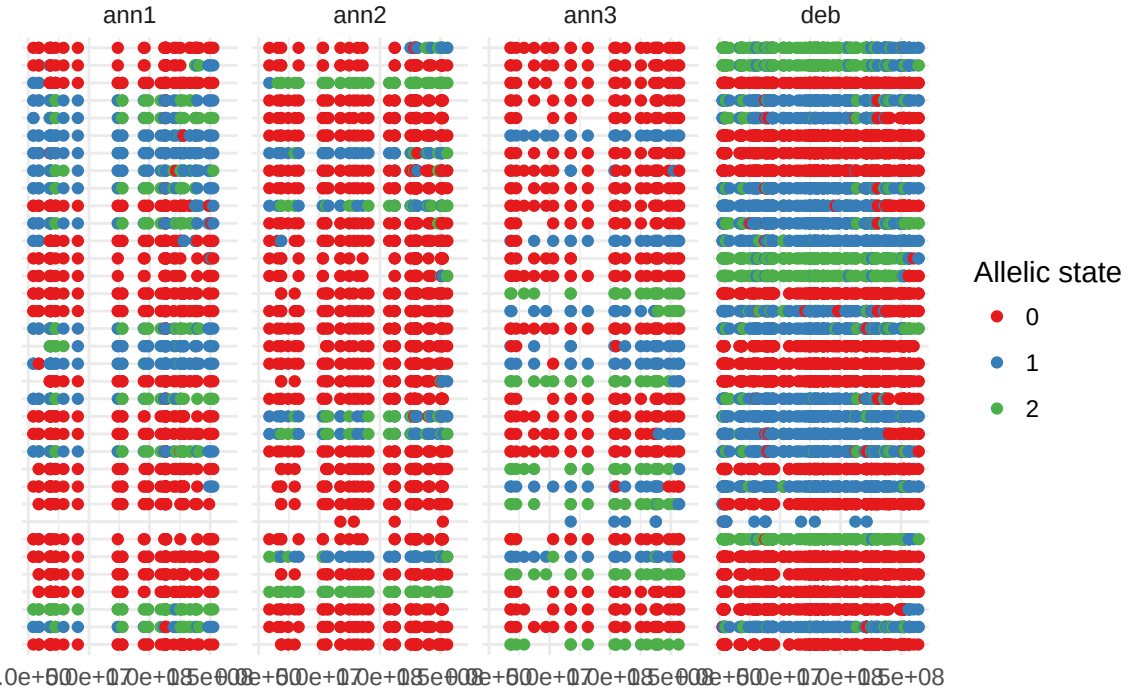

KPC 1 HanXRQChr16
ann1
ann2
ann3
deb
5.0e+07
1.0e+08
1.5e+08
Allelic state
0
1
2

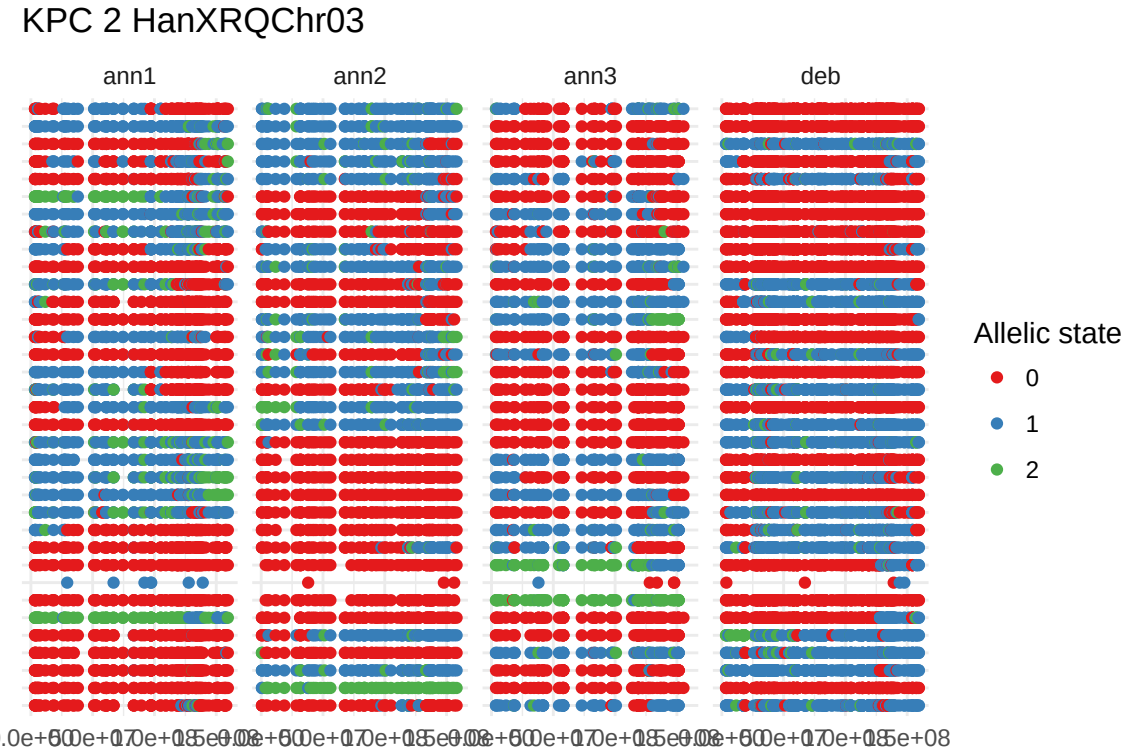
KPC 1 HanXRQChr17

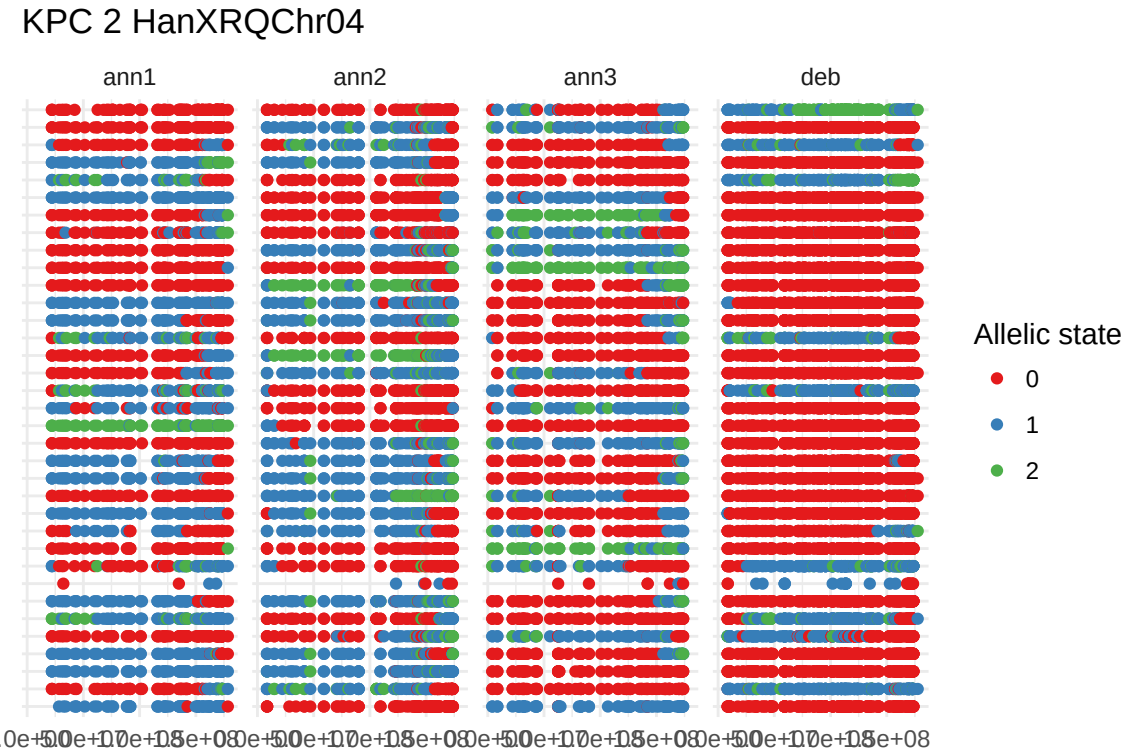



KPC 2 HanXRQChr01
ann1
ann2
ann3
deb
Allelic state
0
1
2

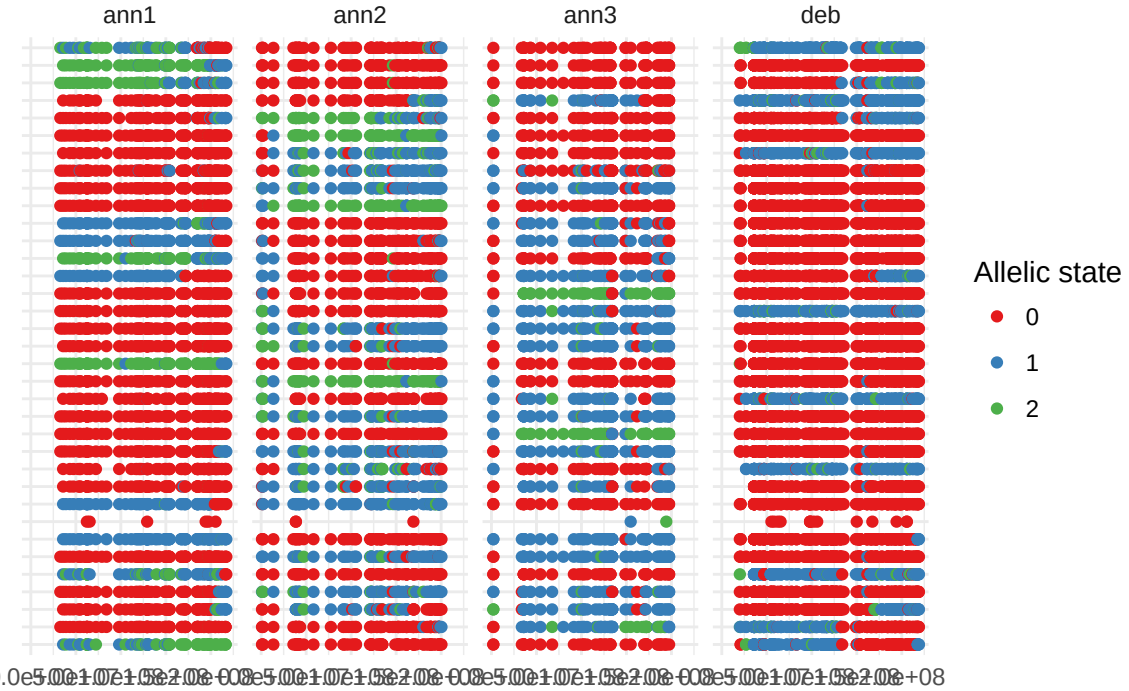
KPC 2 HanXRQChr02




KPC 2 HanXRQChr03
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 2 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 2 HanXRQChr05



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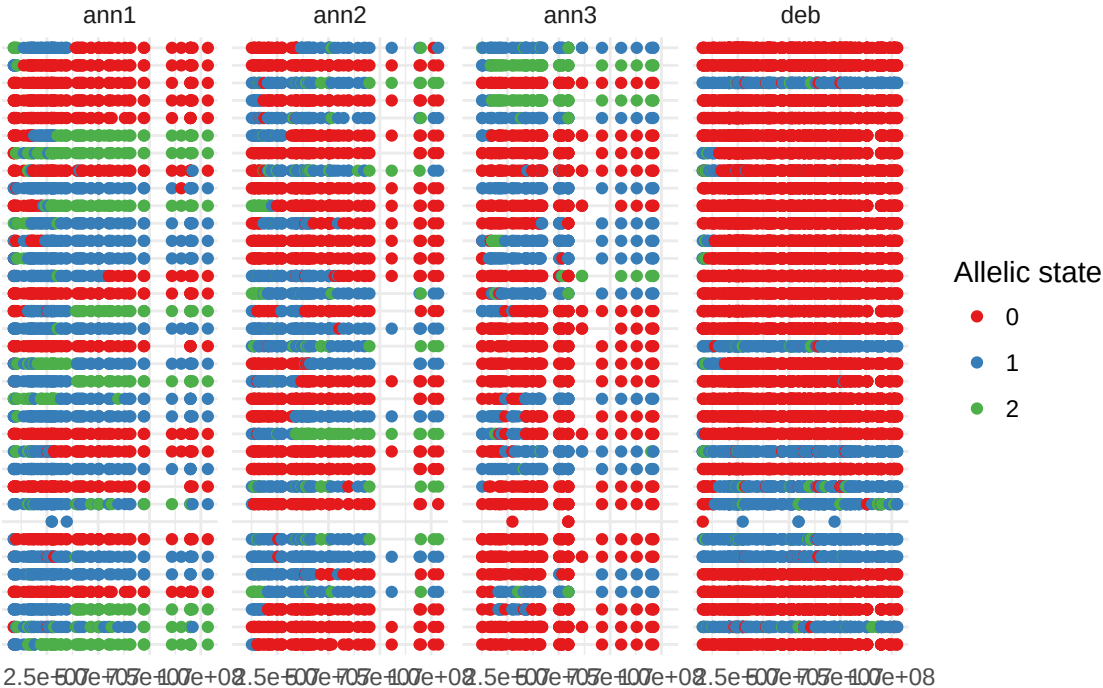
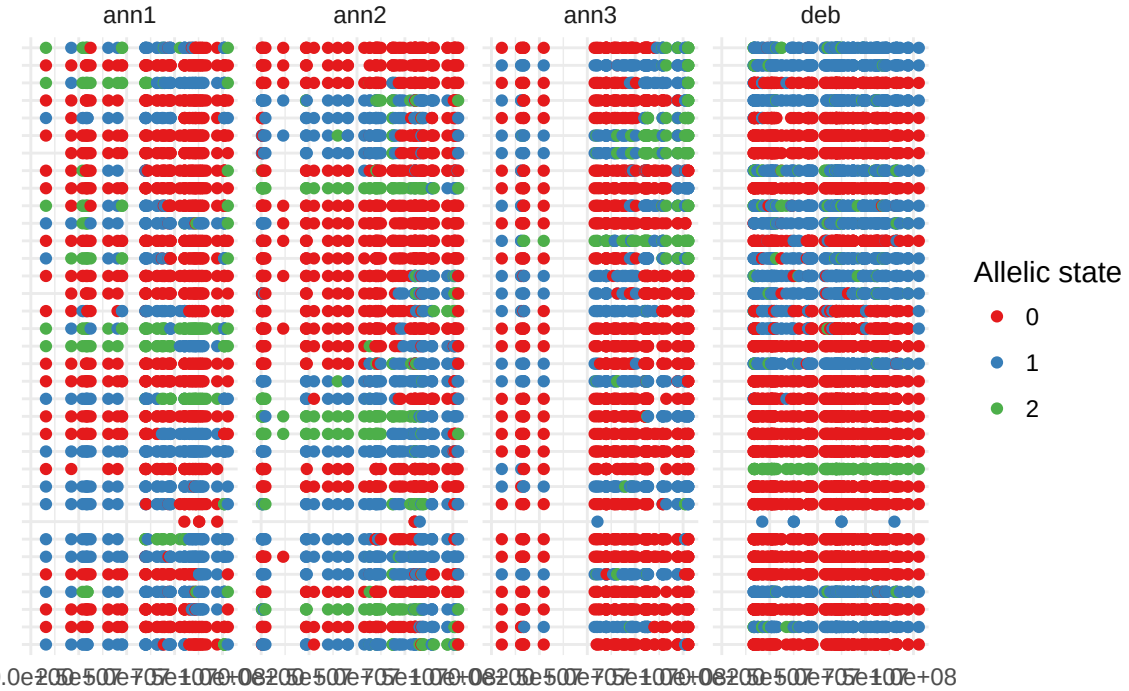


KPC 2 HanXRQChr07



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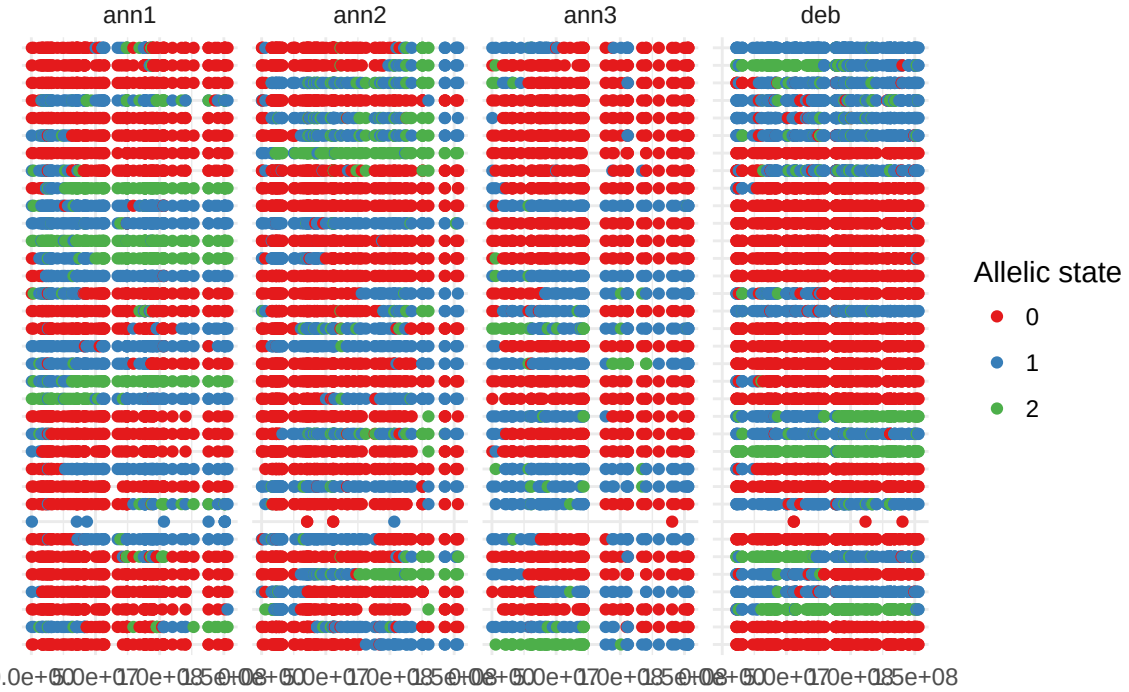
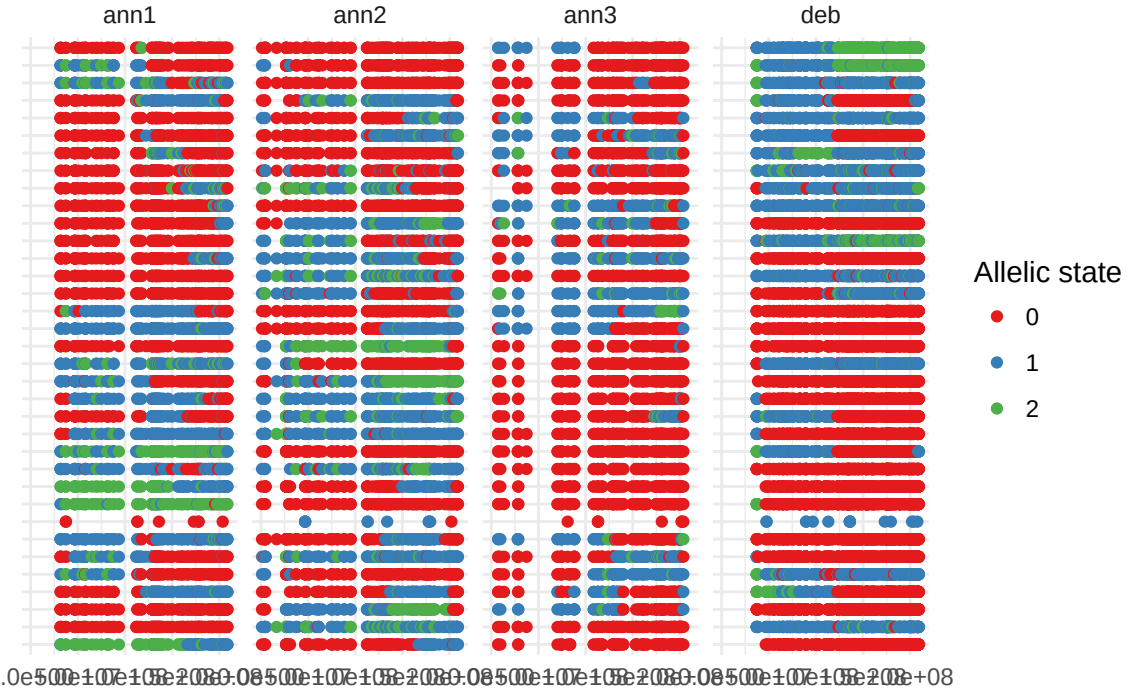
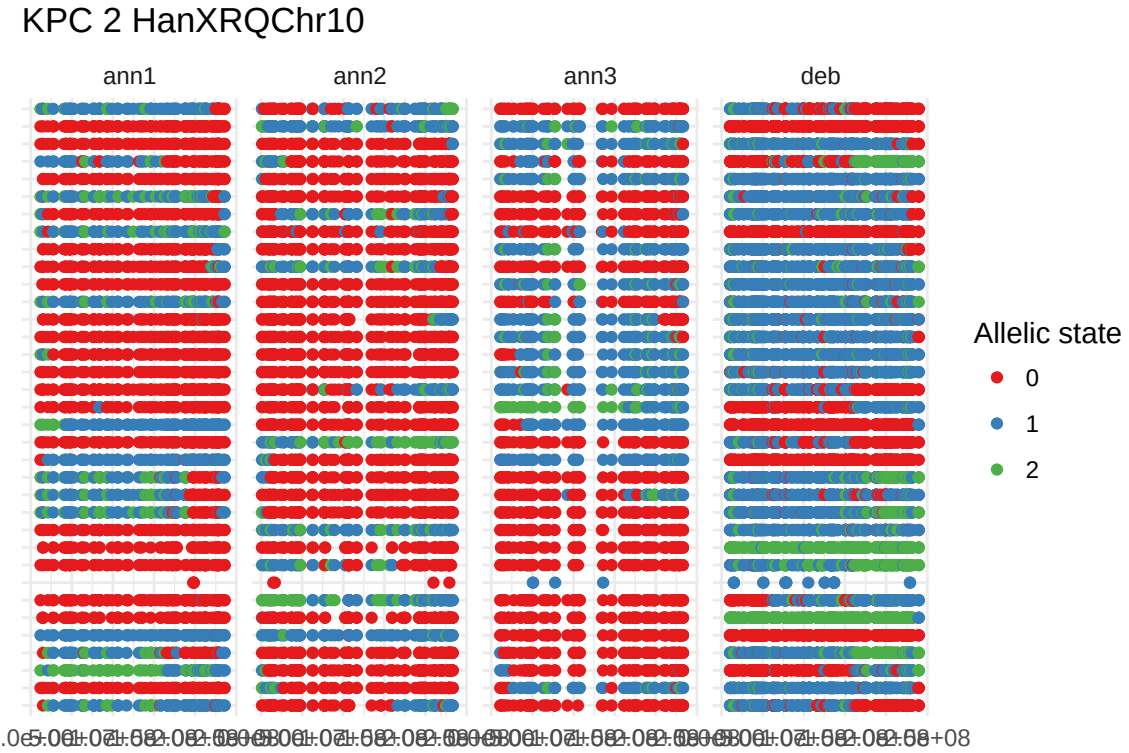
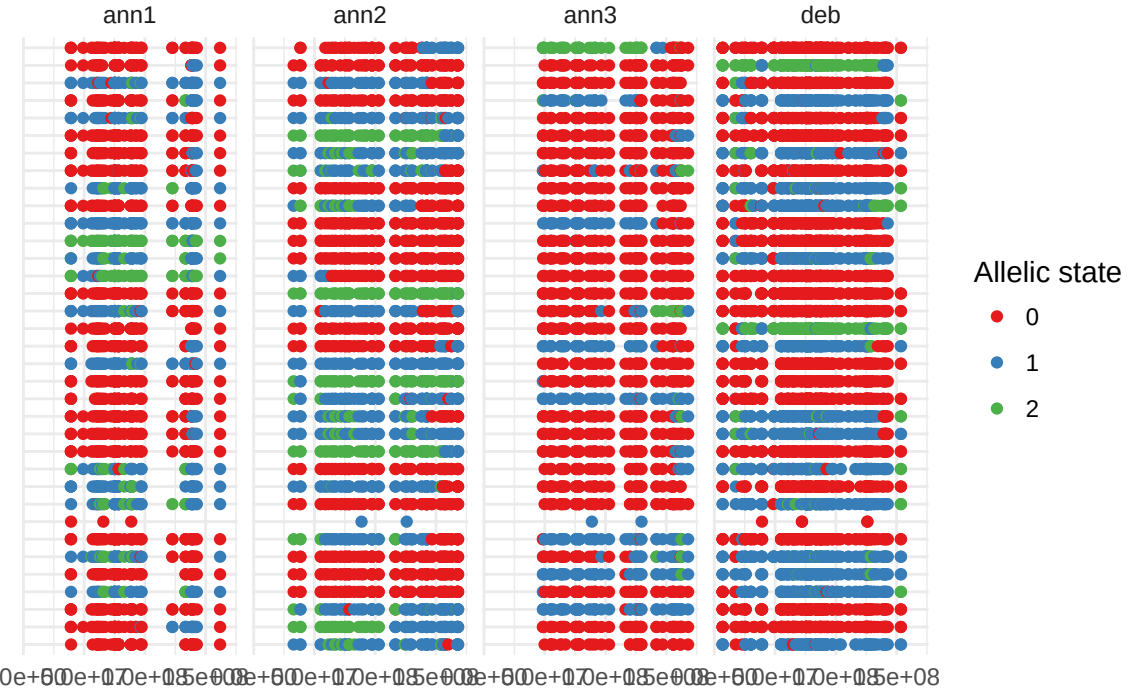


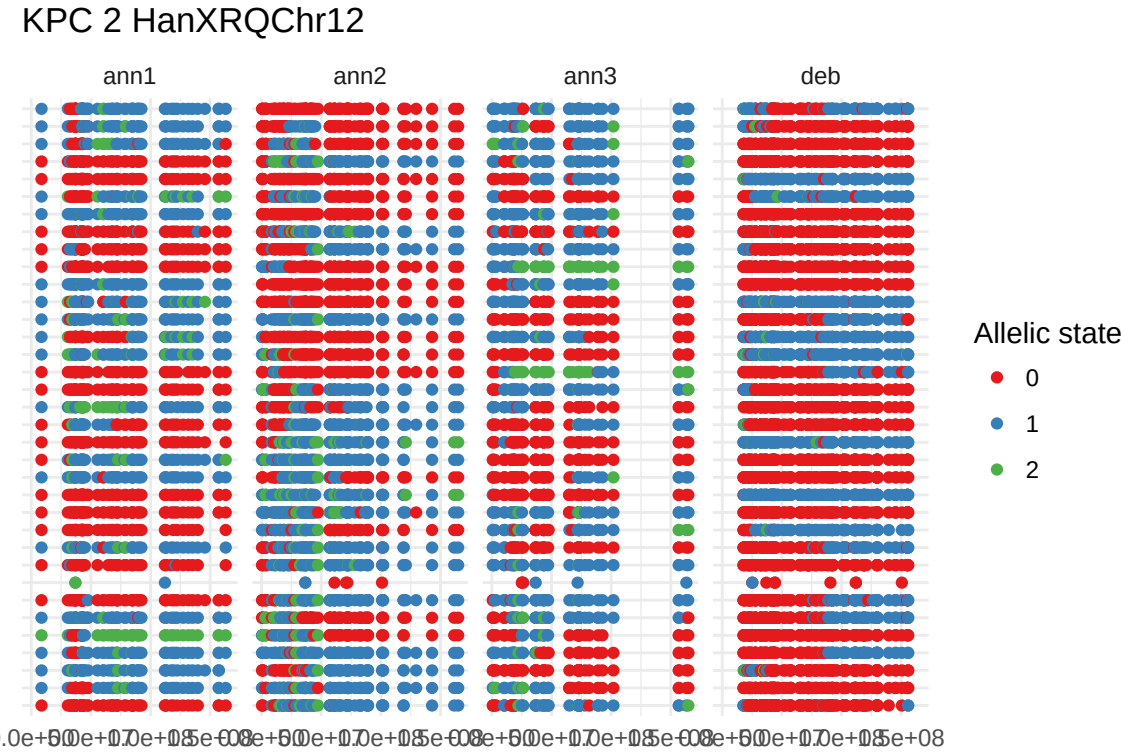
KPC 2 HanXRQChr09

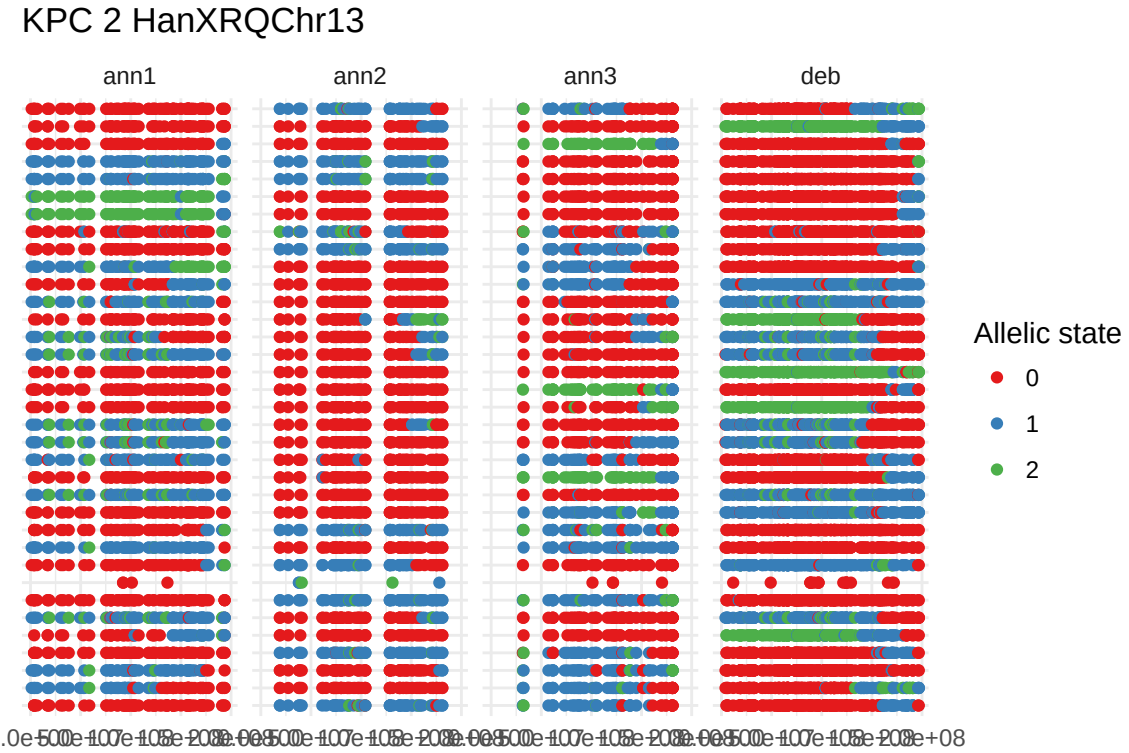



KPC 2 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 2 HanXRQChr11




KPC 2 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 2 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
1.0e+07
2.0e+07
3.0e+08
4.0e+08
5.0e+08
6.0e+08
7.0e+08
8.0e+08
9.0e+08
1.0e+09
1.1e+09
1.2e+09
1.3e+09
1.4e+09
1.5e+09
1.6e+09
1.7e+09
1.8e+09
1.9e+09
2.0e+09
2.1e+09
2.2e+09
2.3e+09
2.4e+09
2.5e+09
2.6e+09
2.7e+09
2.8e+09
2.9e+09
3.0e+09
3.1e+09
3.2e+09
3.3e+09
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4.1e+09
4.2e+09
4.3e+09
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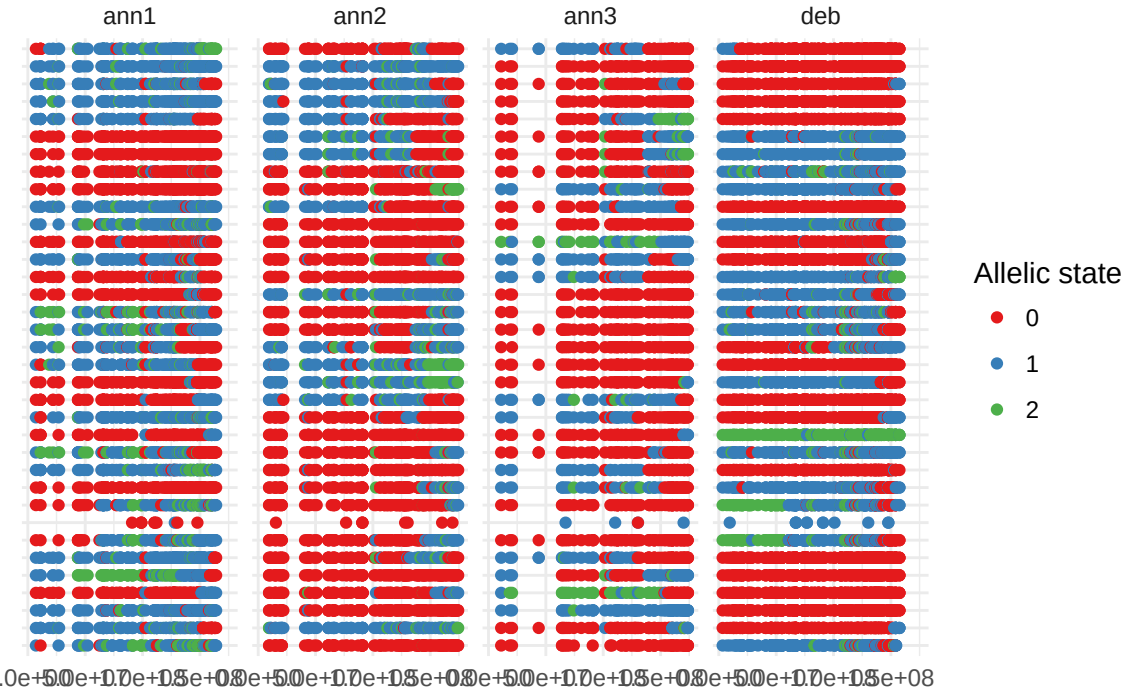
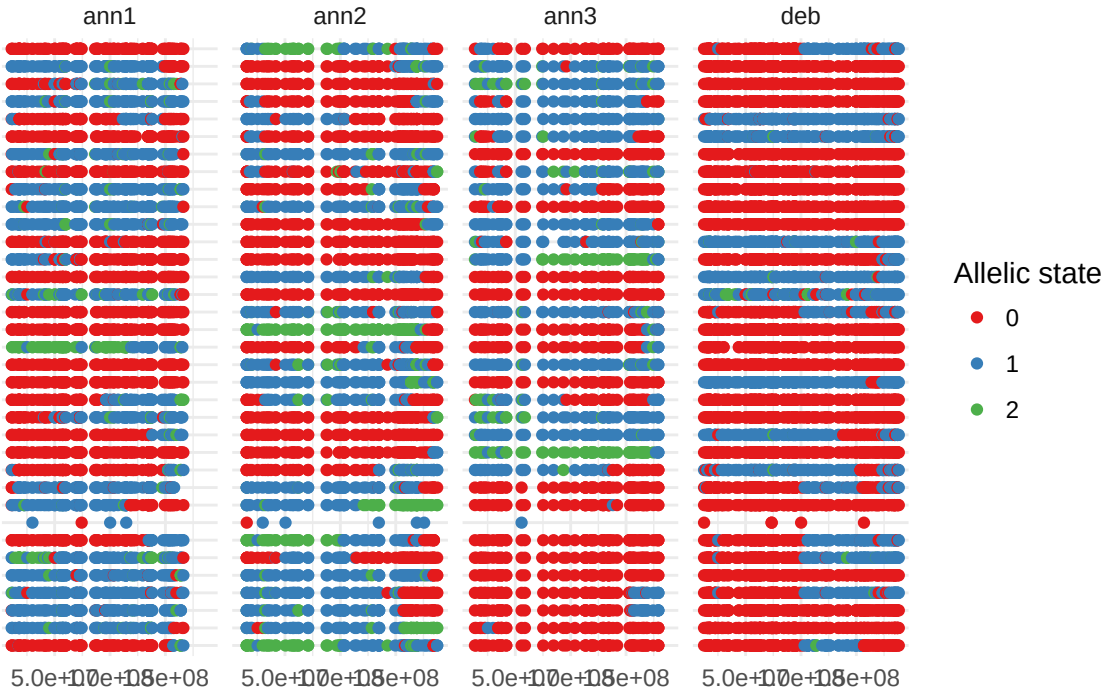
4.6e+09
4.7e+09
4.8e+09
4.9e+09

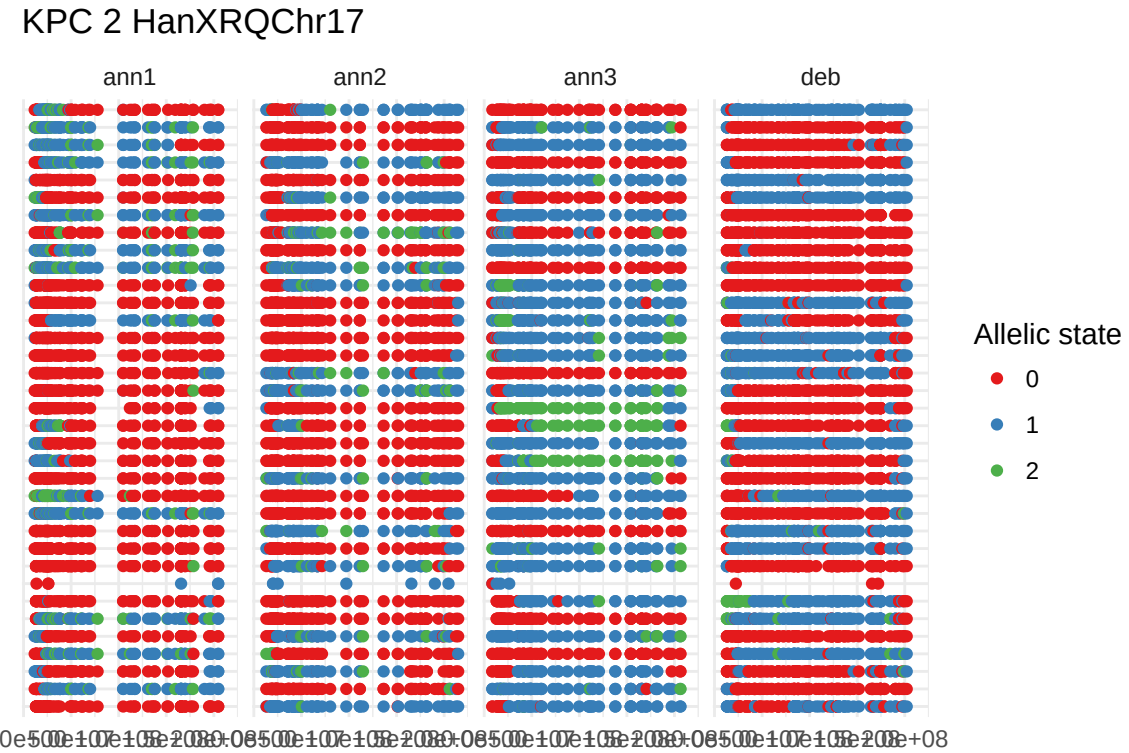
KPC 2 HanXRQChr14



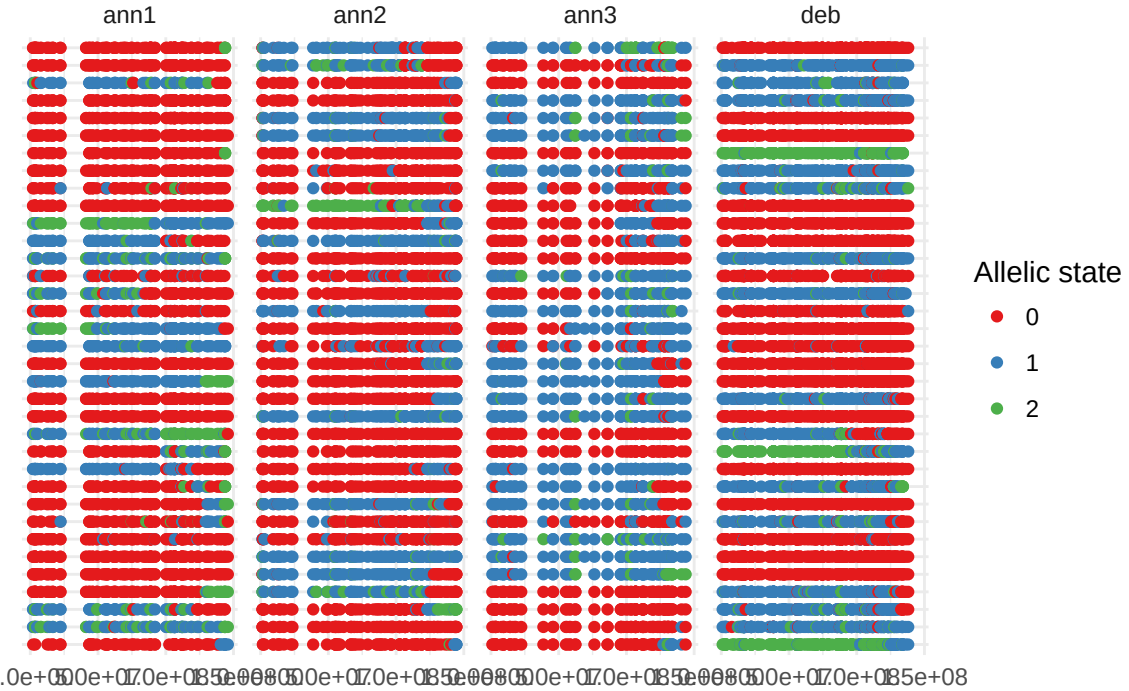
KPC 2 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+08

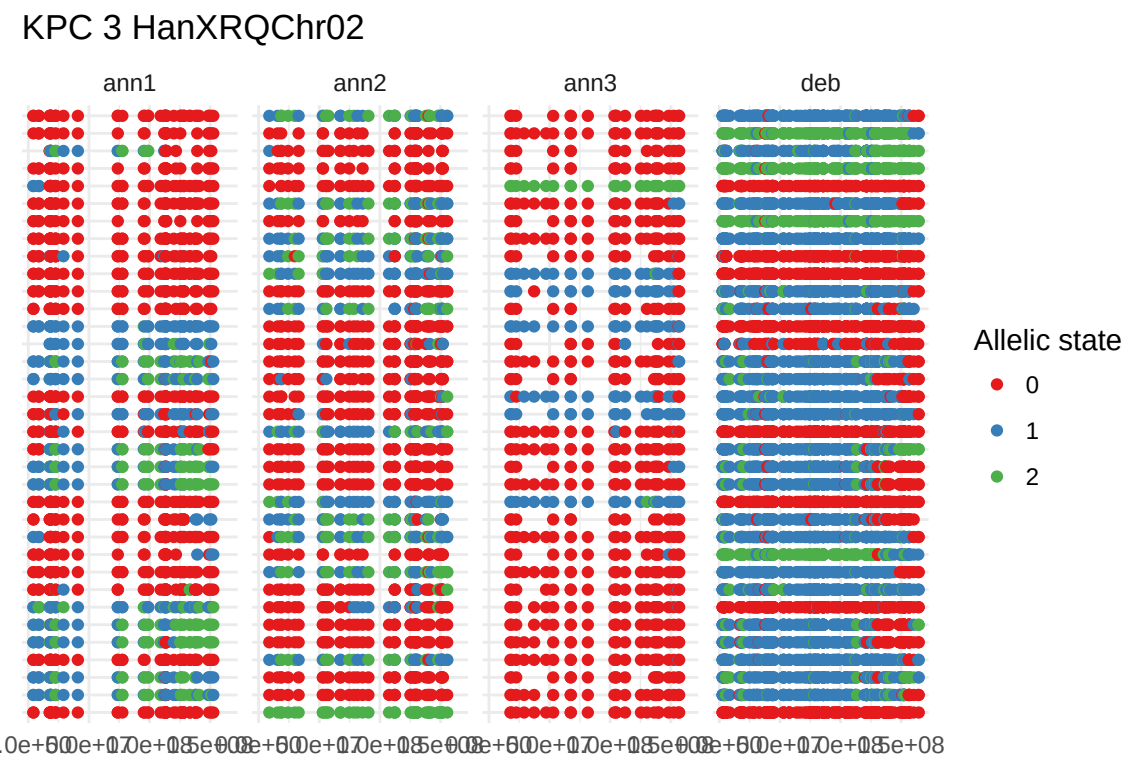
KPC 2 HanXRQChr16



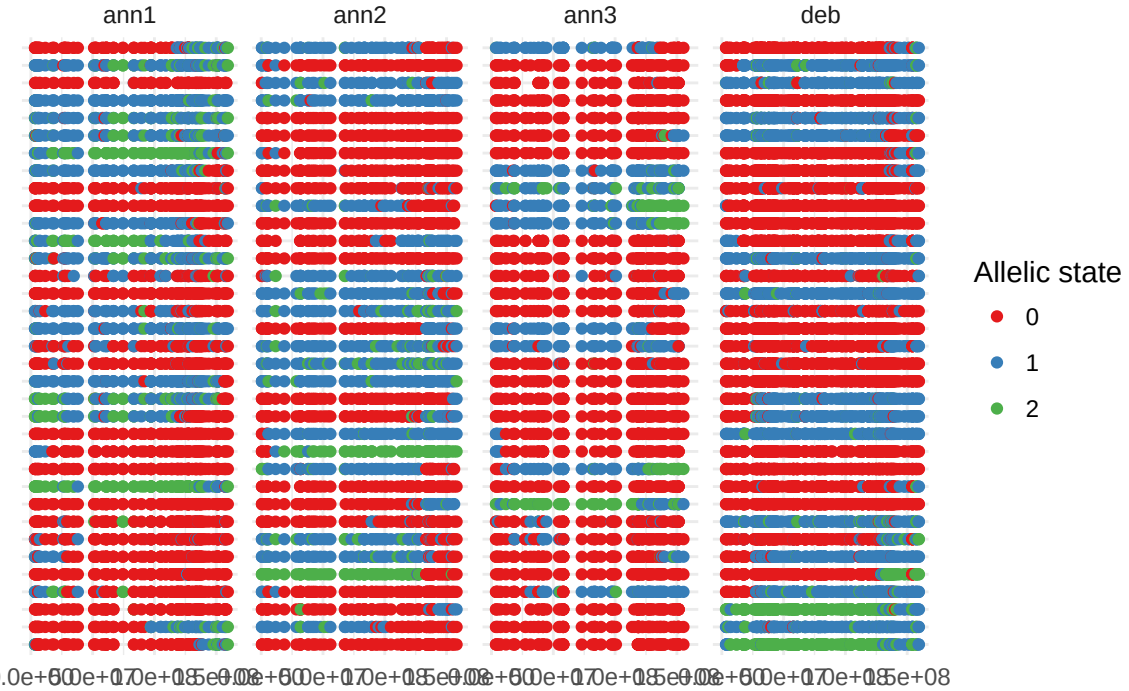

KPC 2 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 3 HanXRQChr01

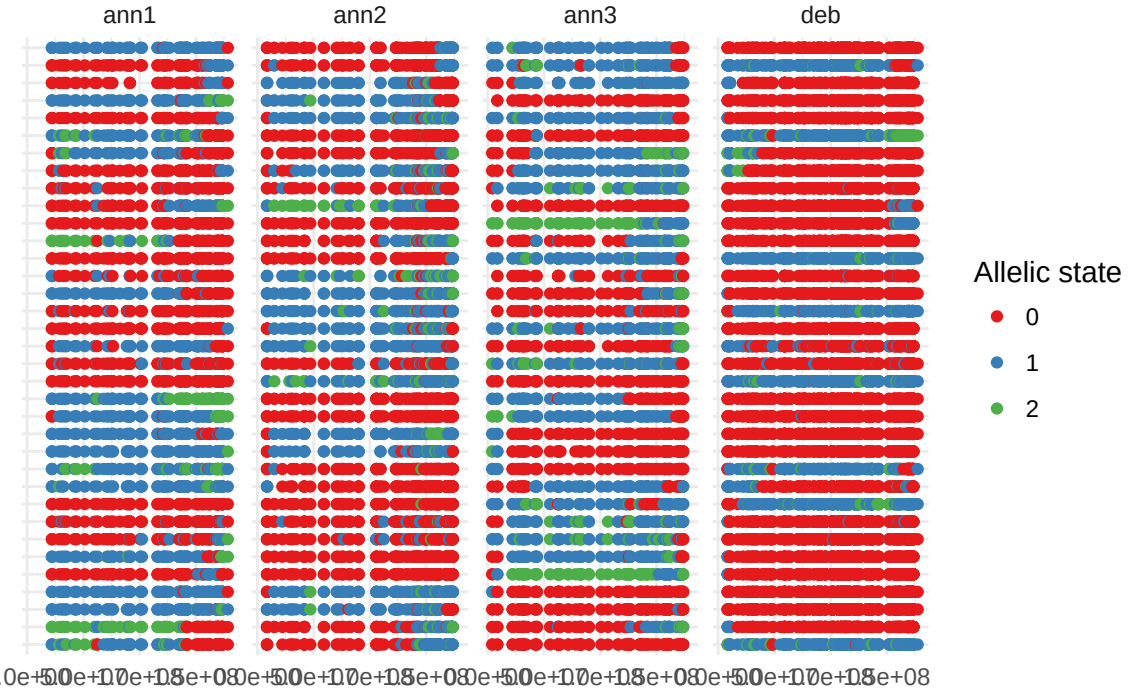


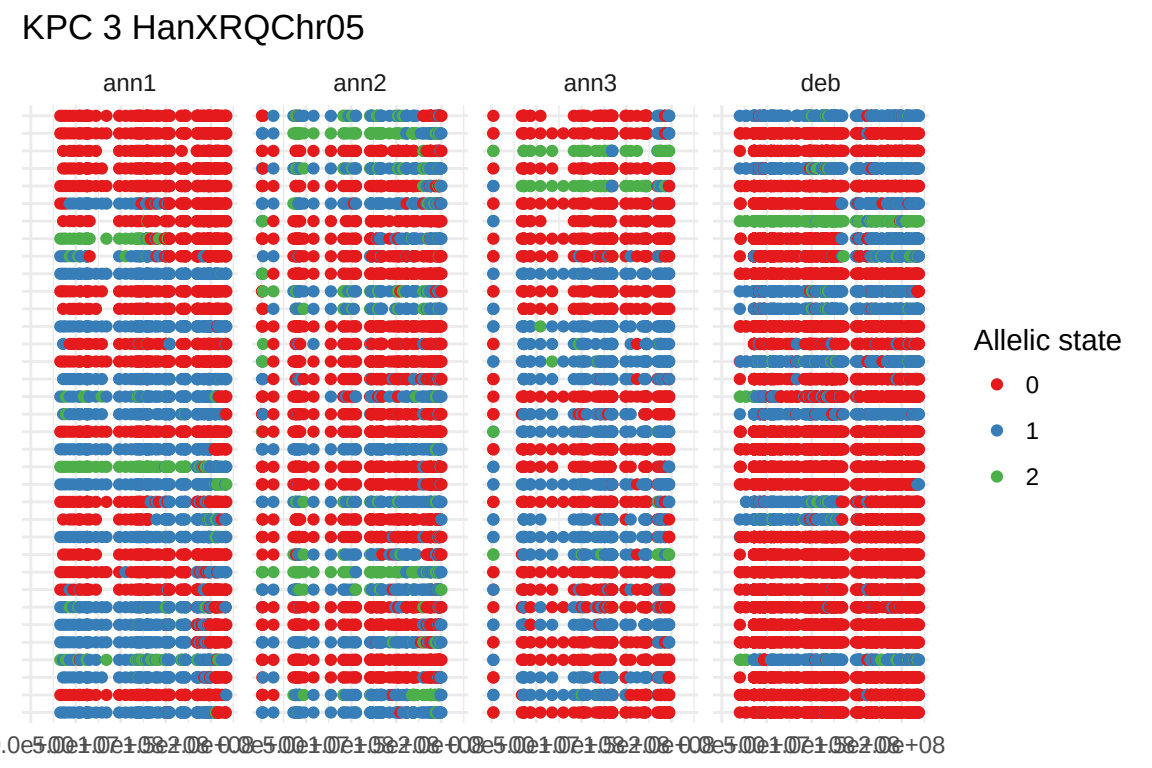

KPC 3 HanXRQChr02
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 3 HanXRQChr03



KPC 3 HanXRQChr04




KPC 3 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
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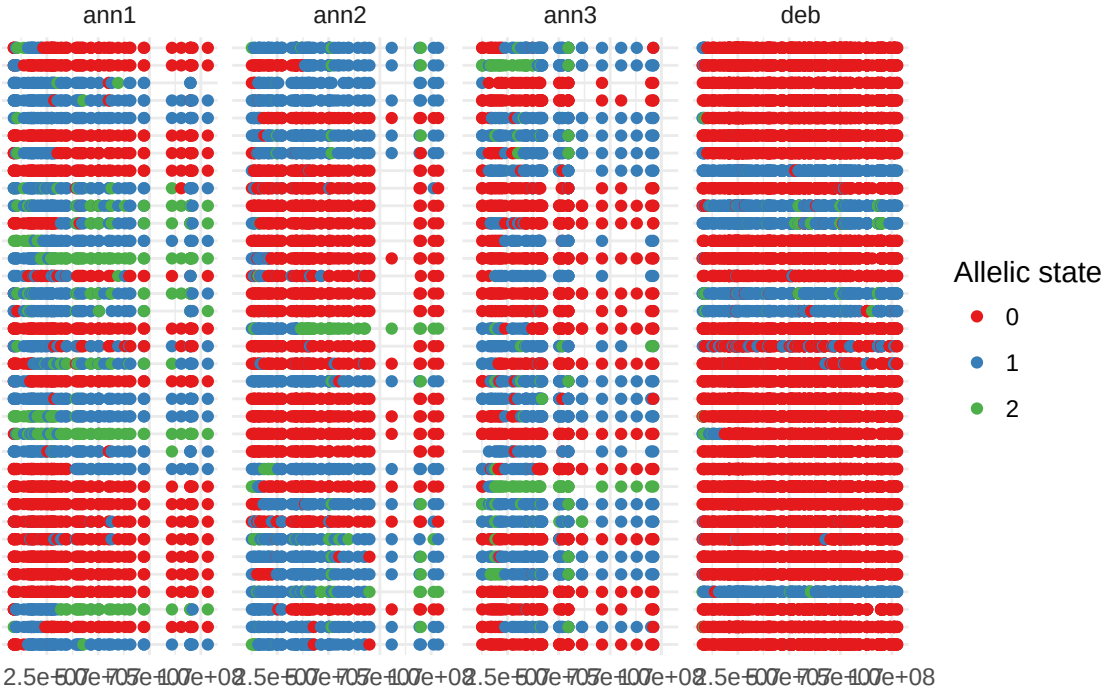
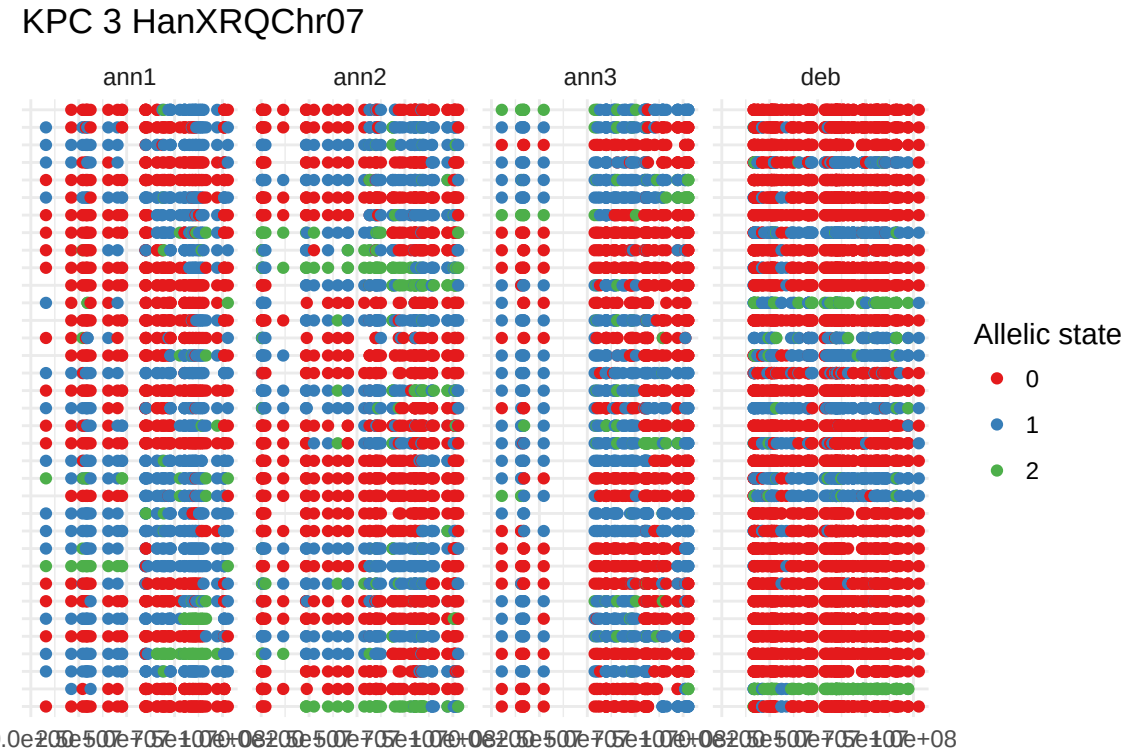
1
2

KPC 3 HanXRQChr06

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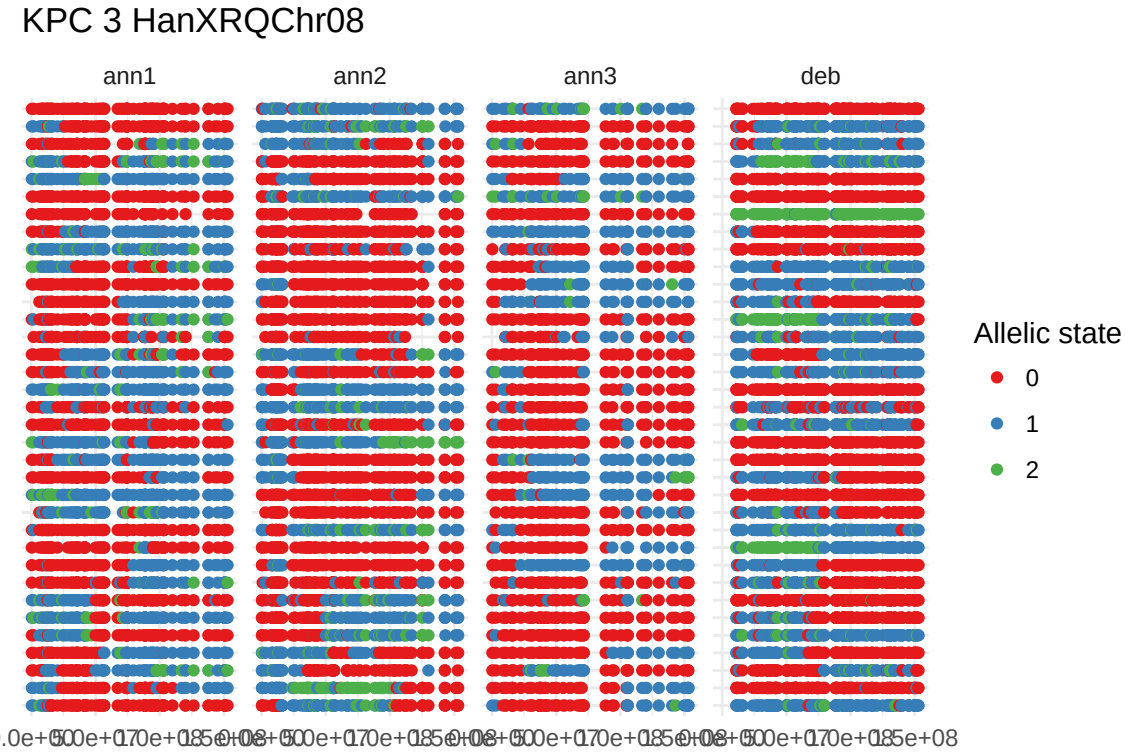
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 3 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
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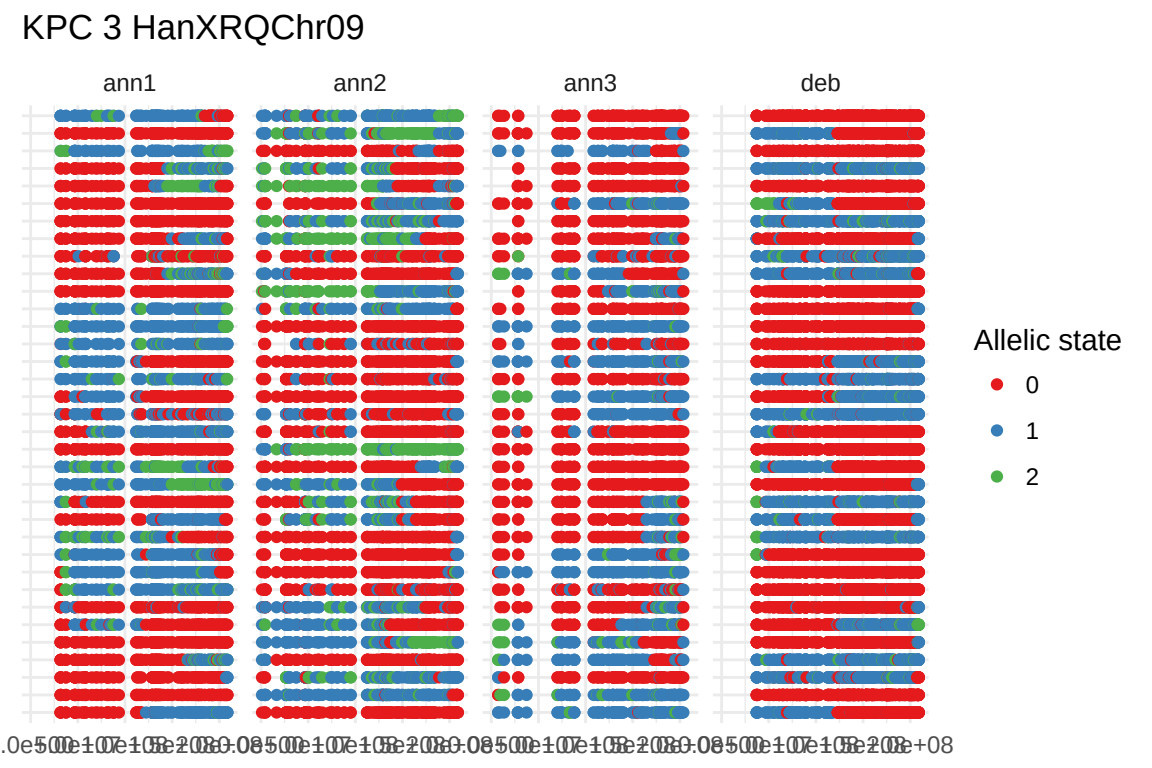
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08


KPC 3 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
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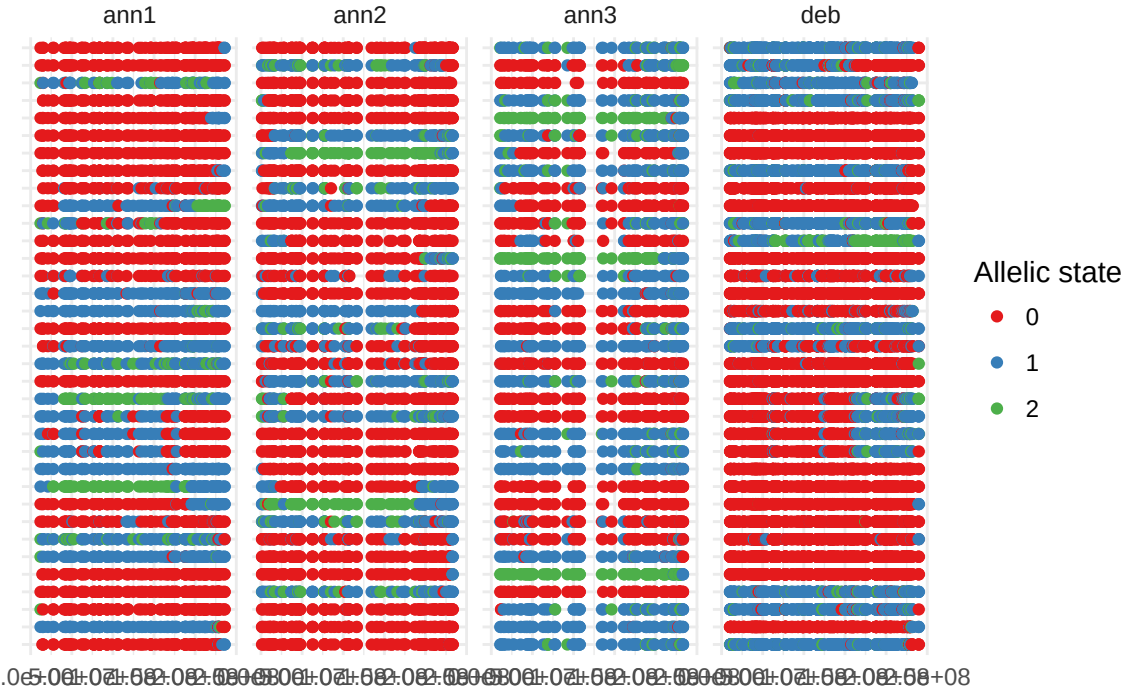
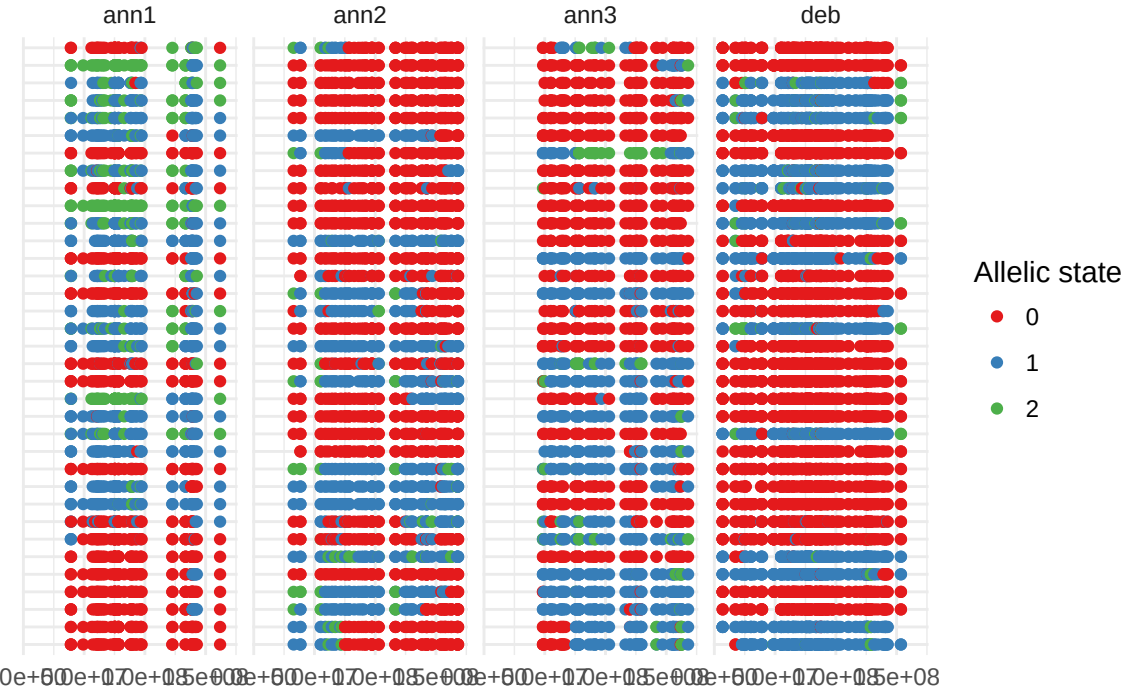
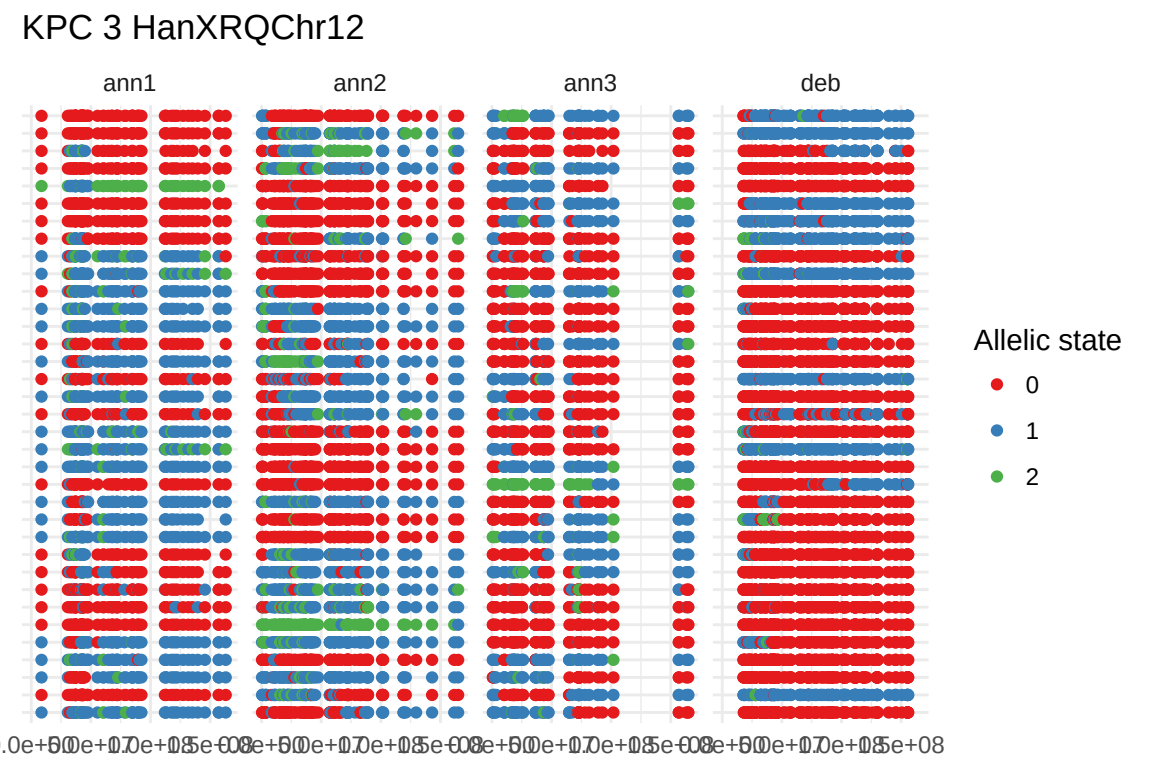
1
2

KPC 3 HanXRQChr10



KPC 3 HanXRQChr11




KPC 3 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
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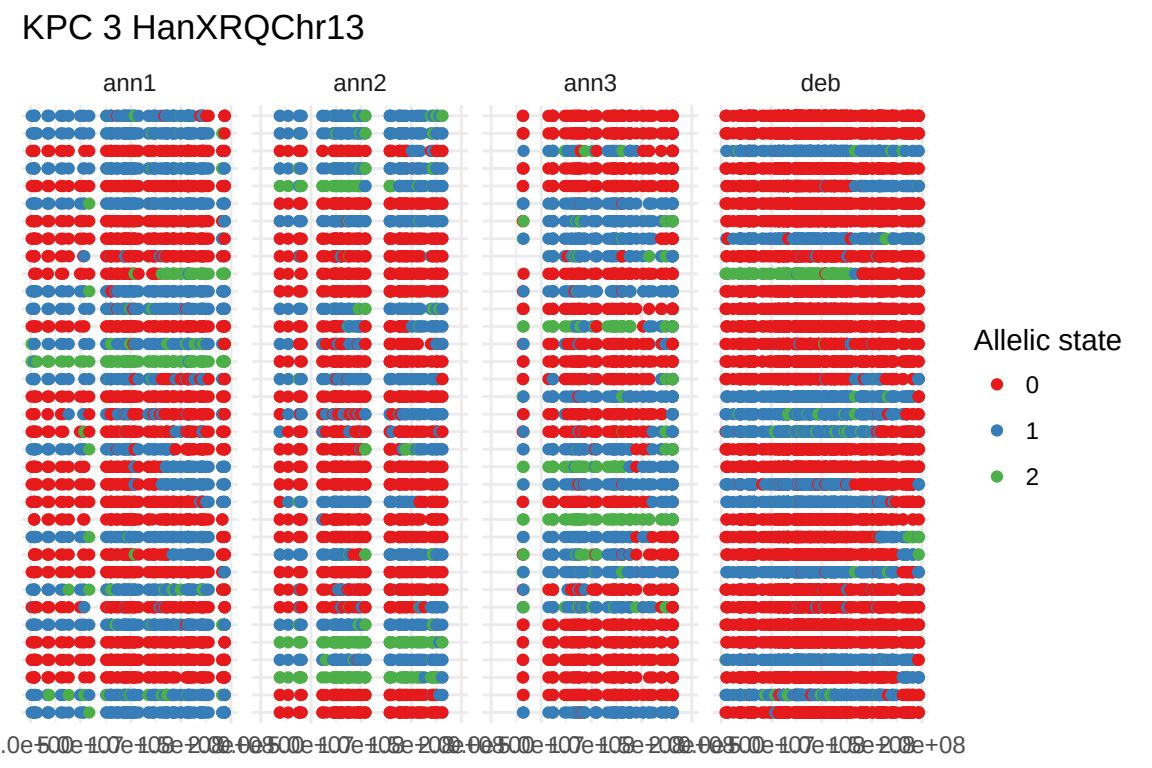
1
2


KPC 3 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
5.0e+07
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1.5e+08
2.0e+08
2.5e+08
3.0e+08
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4.0e+08
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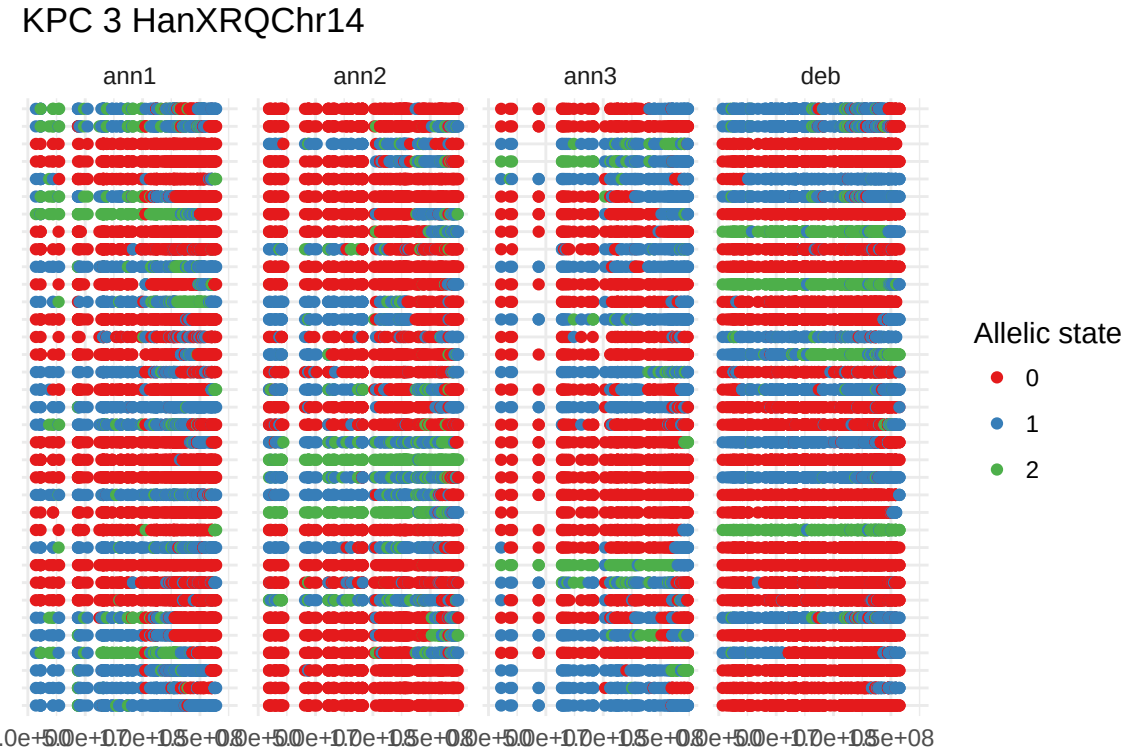
KPC 3 HanXRQChr14
ann1
ann2
ann3
deb
Allelic state
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1
2
0e+5
0e+7
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0e+7
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5e+8
0e+5
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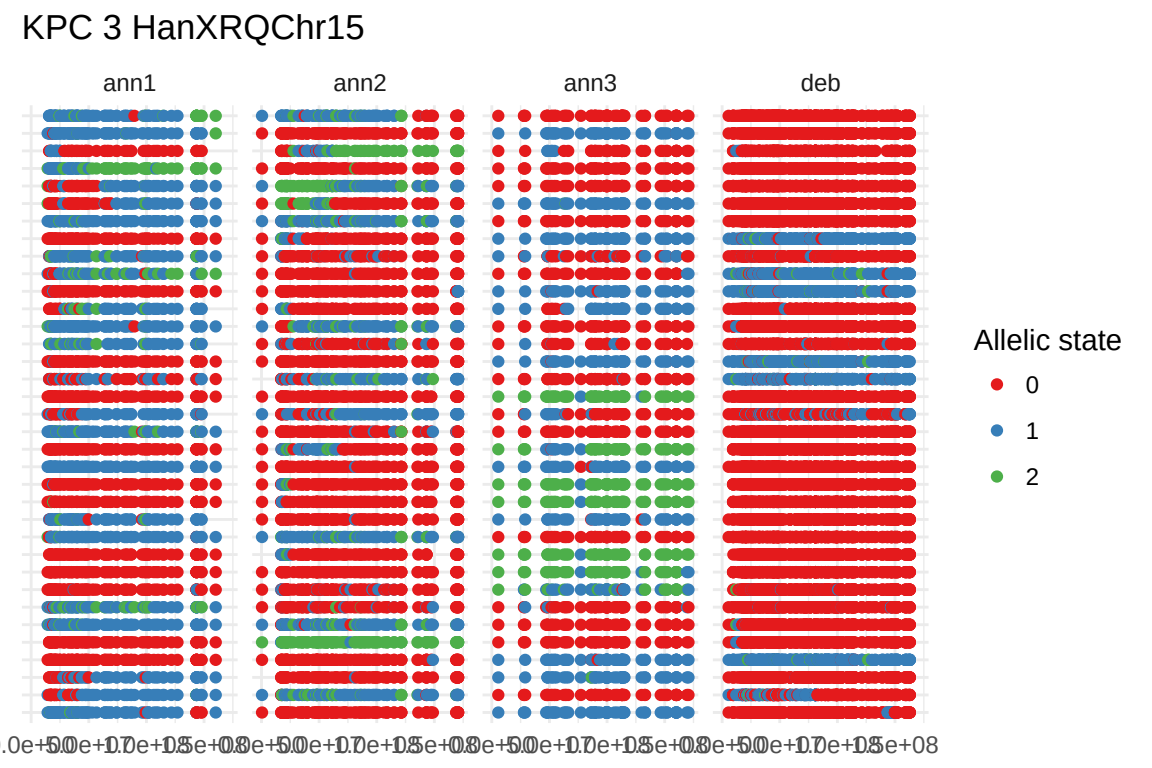
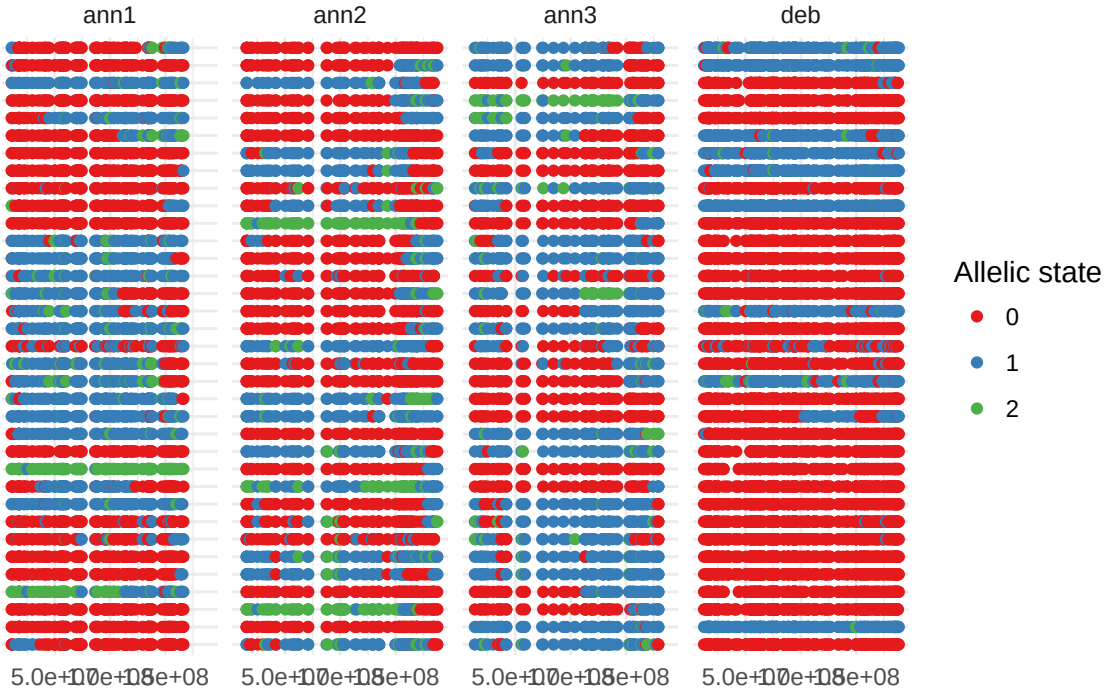
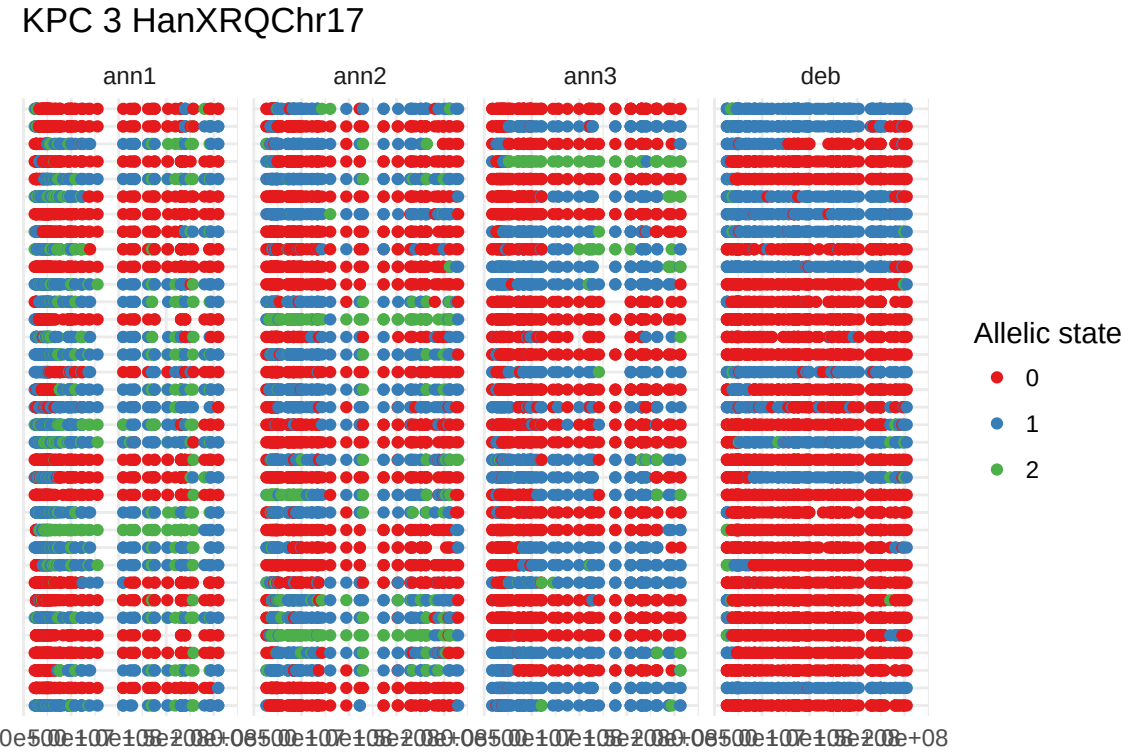
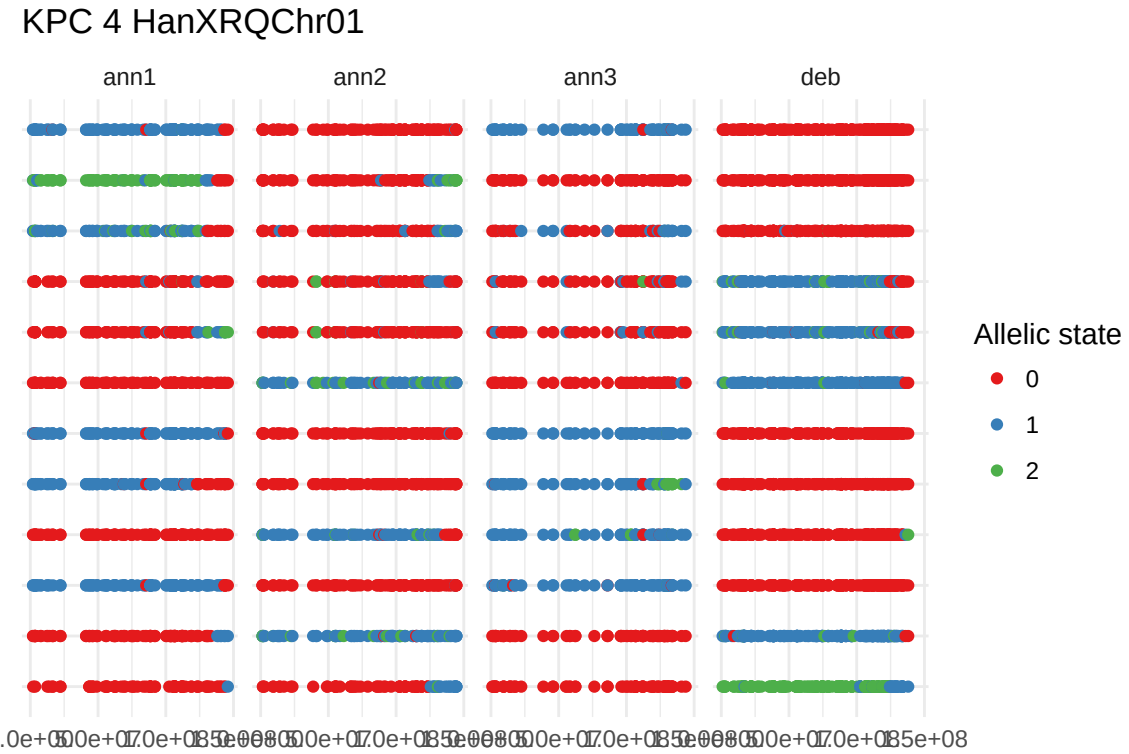
5e+8

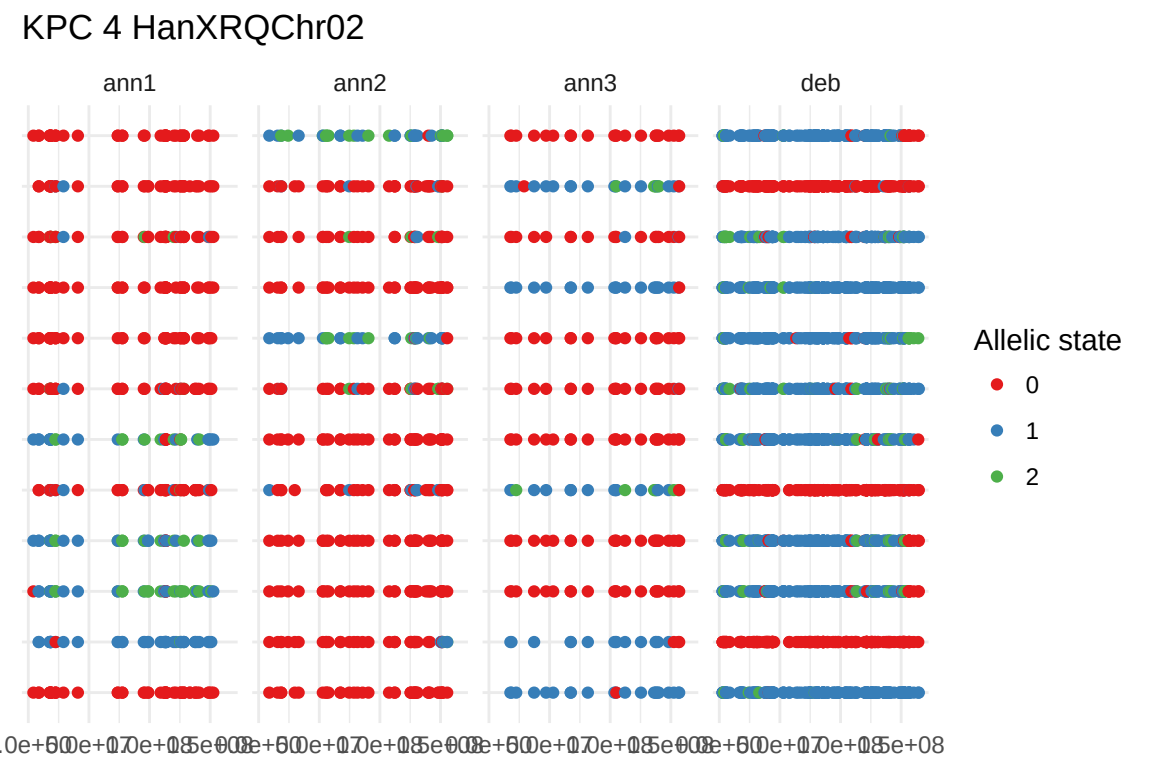

KPC 3 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+8 0.8e+5 0.0e+1 0.7e+1 0.5e+08

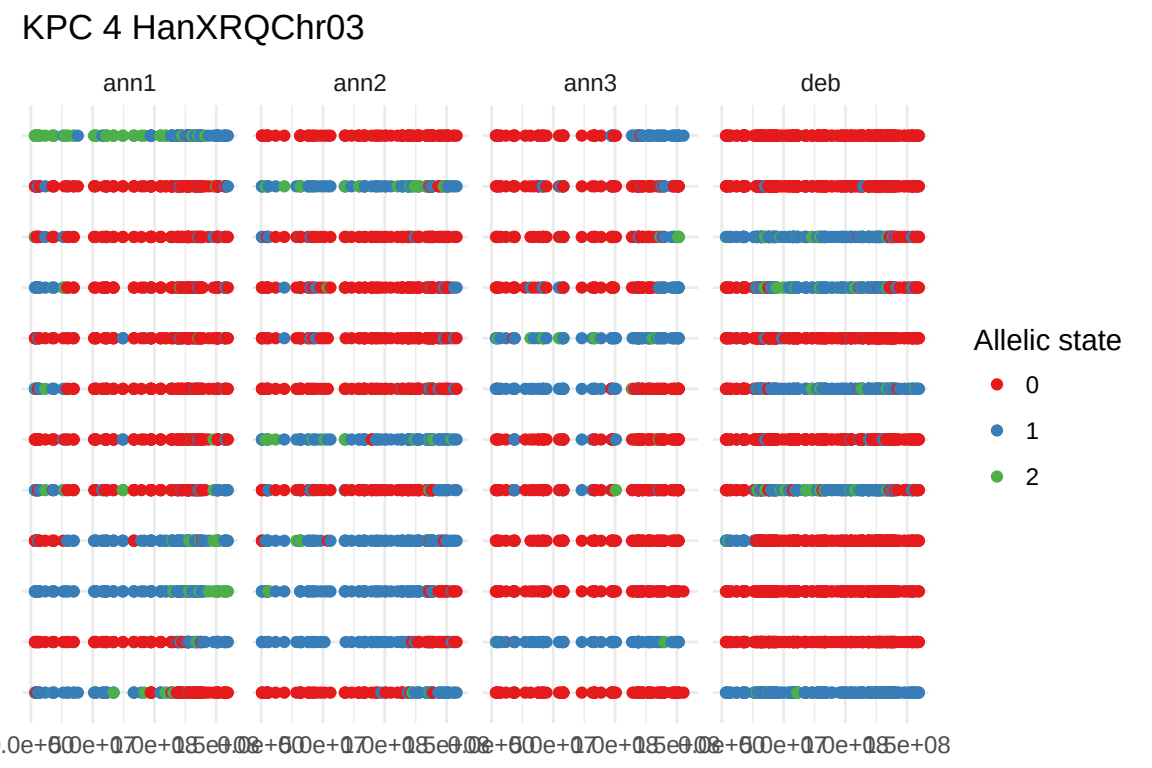
KPC 3 HanXRQChr16

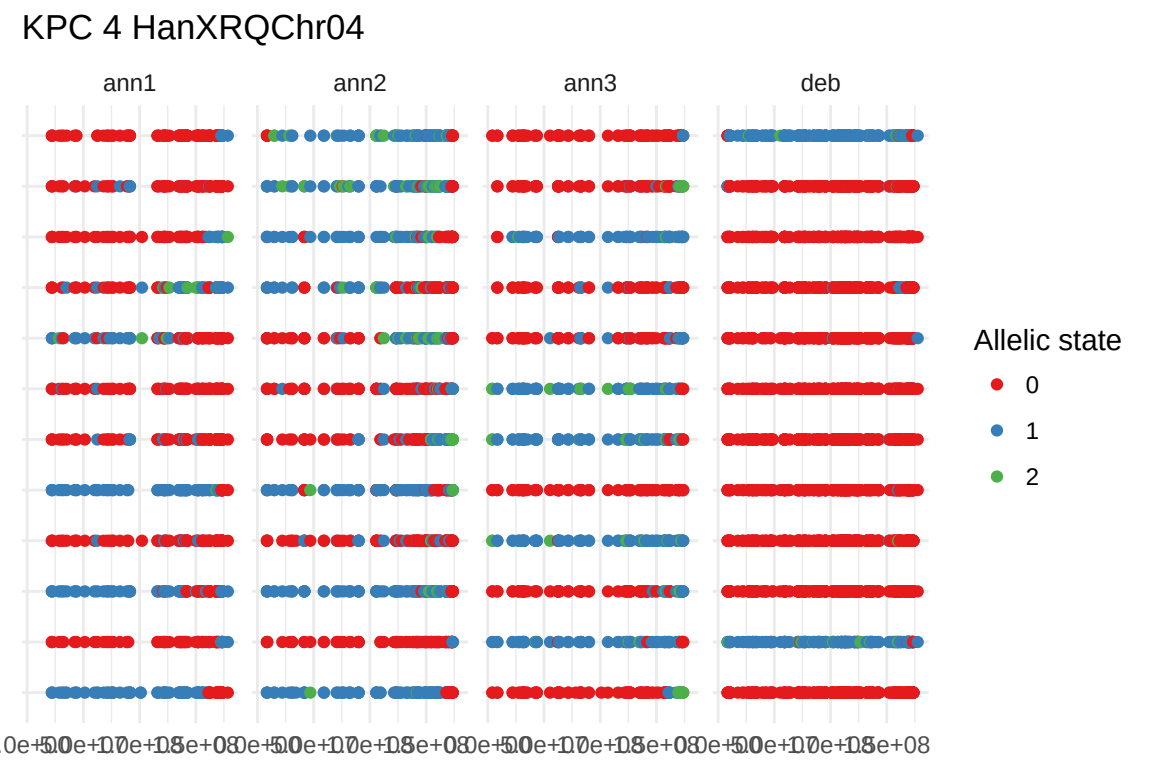


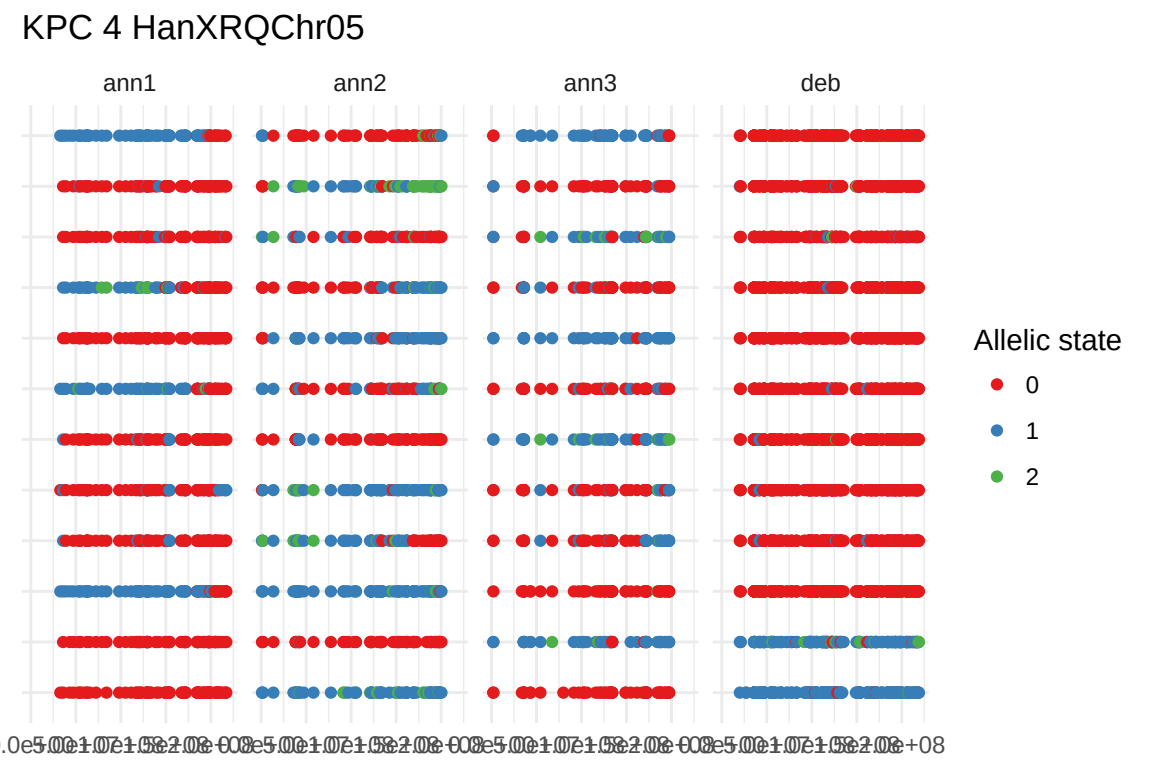

KPC 3 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

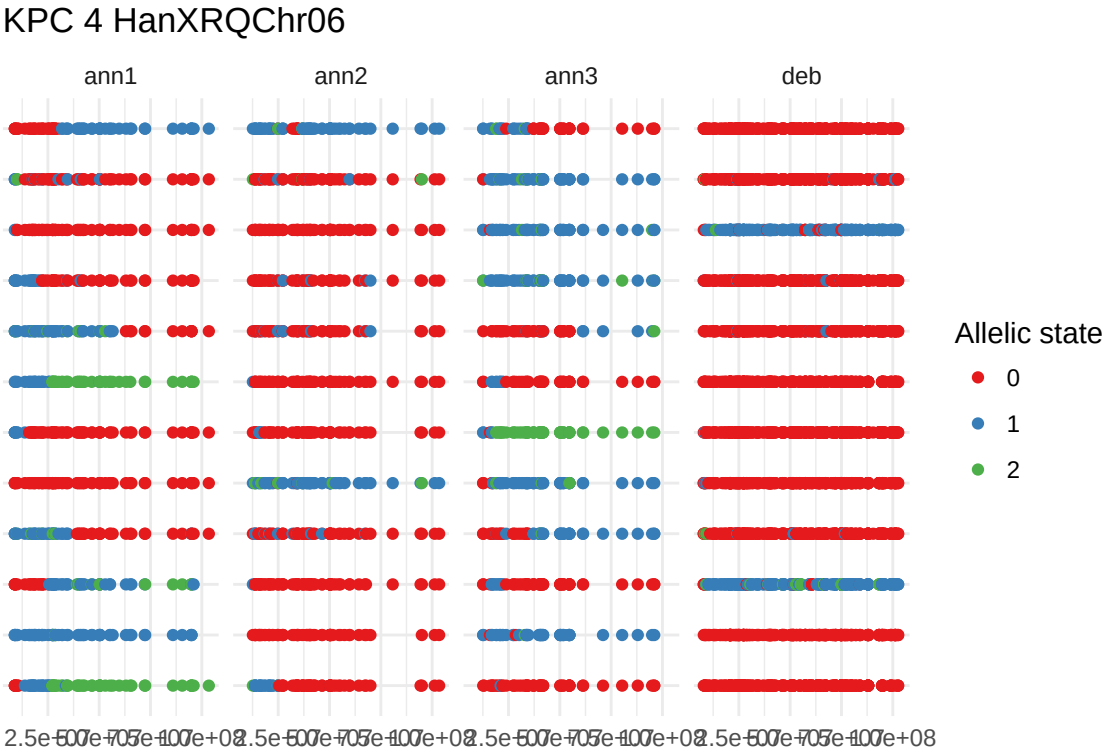

KPC 4 HanXRQChr01
ann1
ann2
ann3
deb
Allelic state
0
1
2

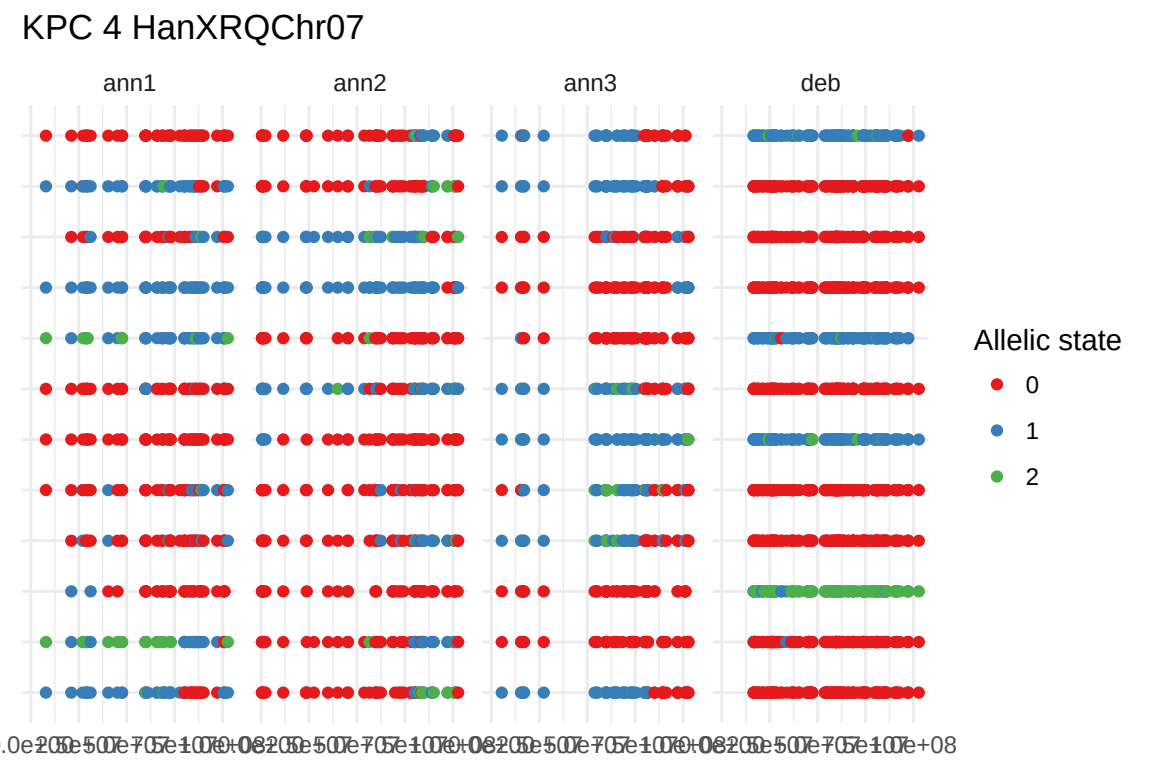

KPC 4 HanXRQChr02
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 4 HanXRQChr03
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 4 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 4 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 4 HanXRQChr06
ann1
ann2
ann3
deb
Allelic state
0
1
2
2.5e+08
5.0e+08
7.5e+08
1.0e+09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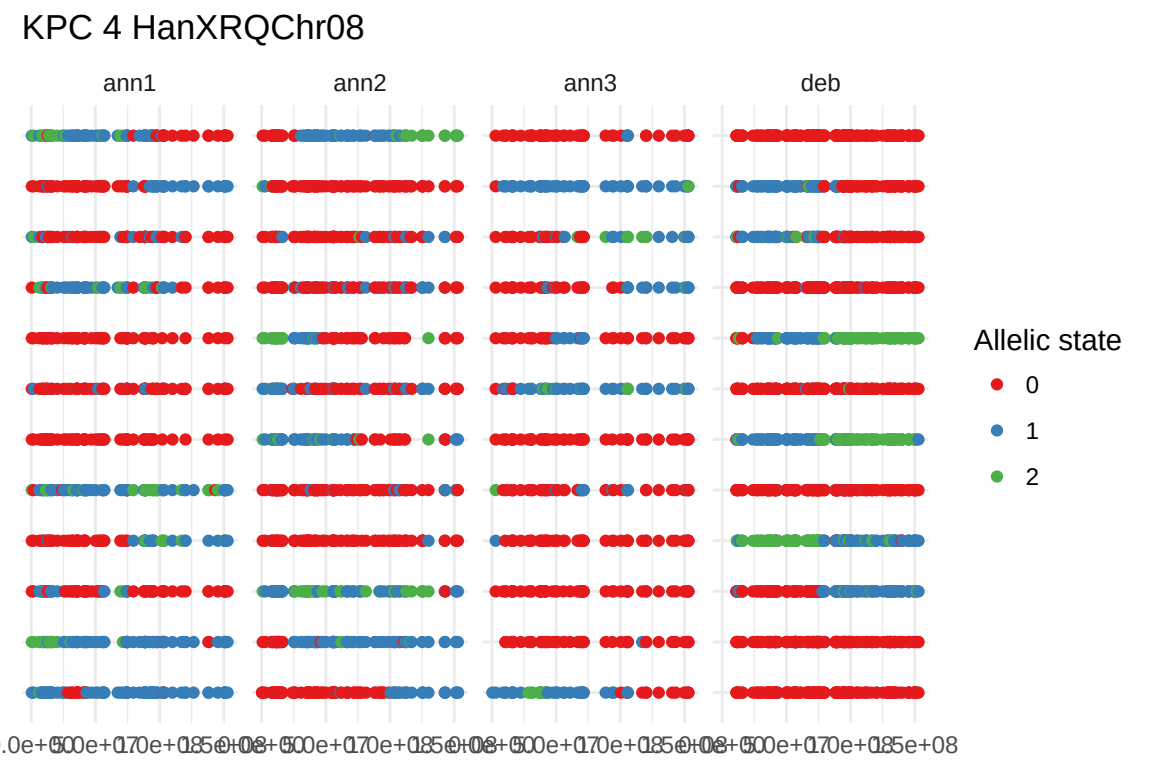
ann1
ann2
ann3
deb
Allelic state
0
1
2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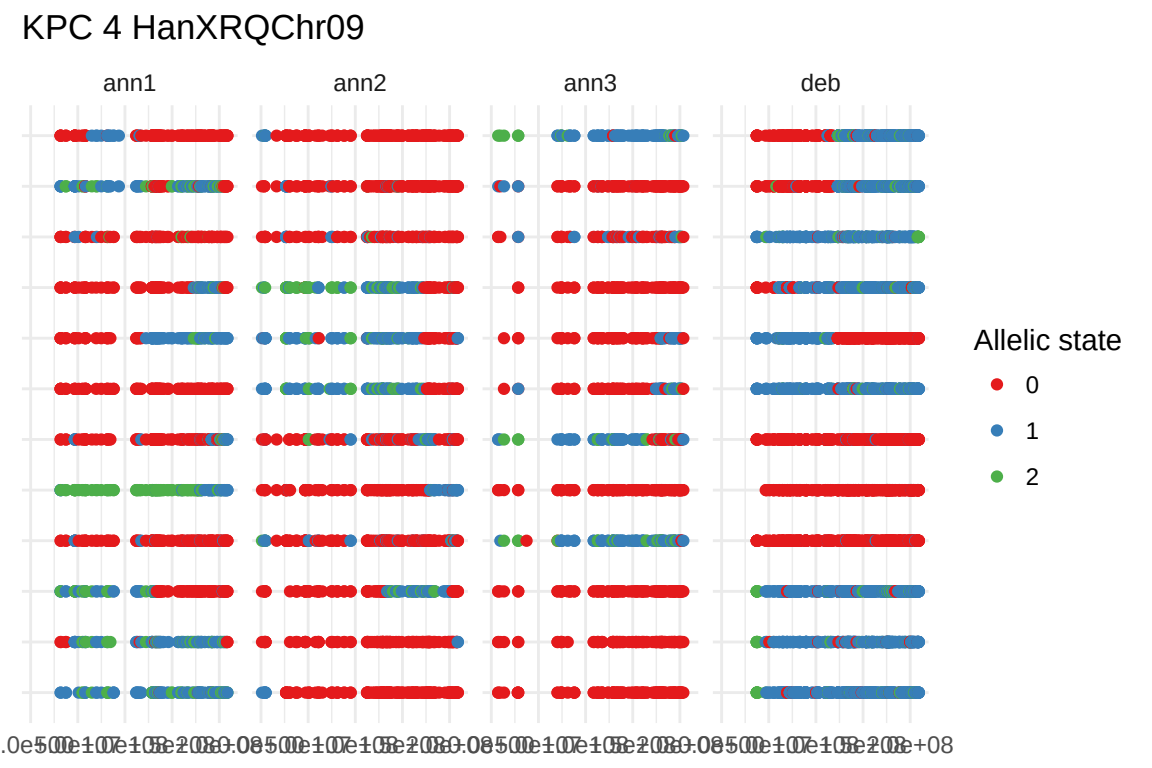
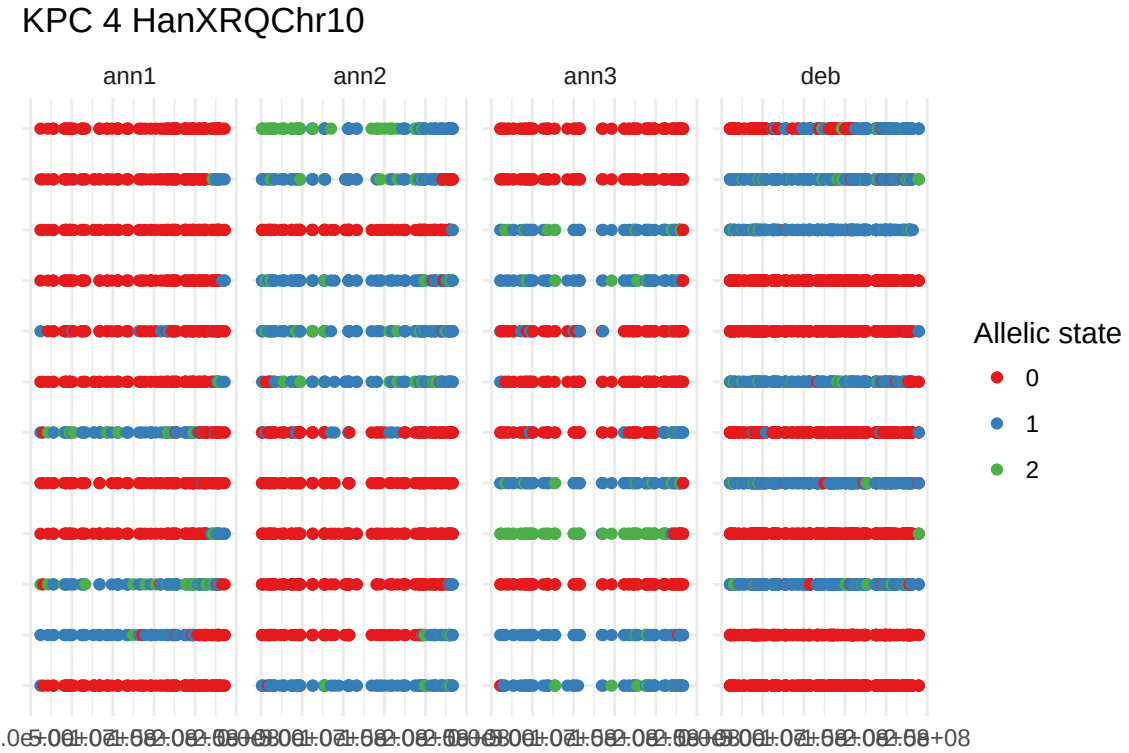
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08


KPC 4 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
0
1
2
0.0e+00
5.0e+07
1.0e+08
1.5e+08
2.0e+08
2.5e+08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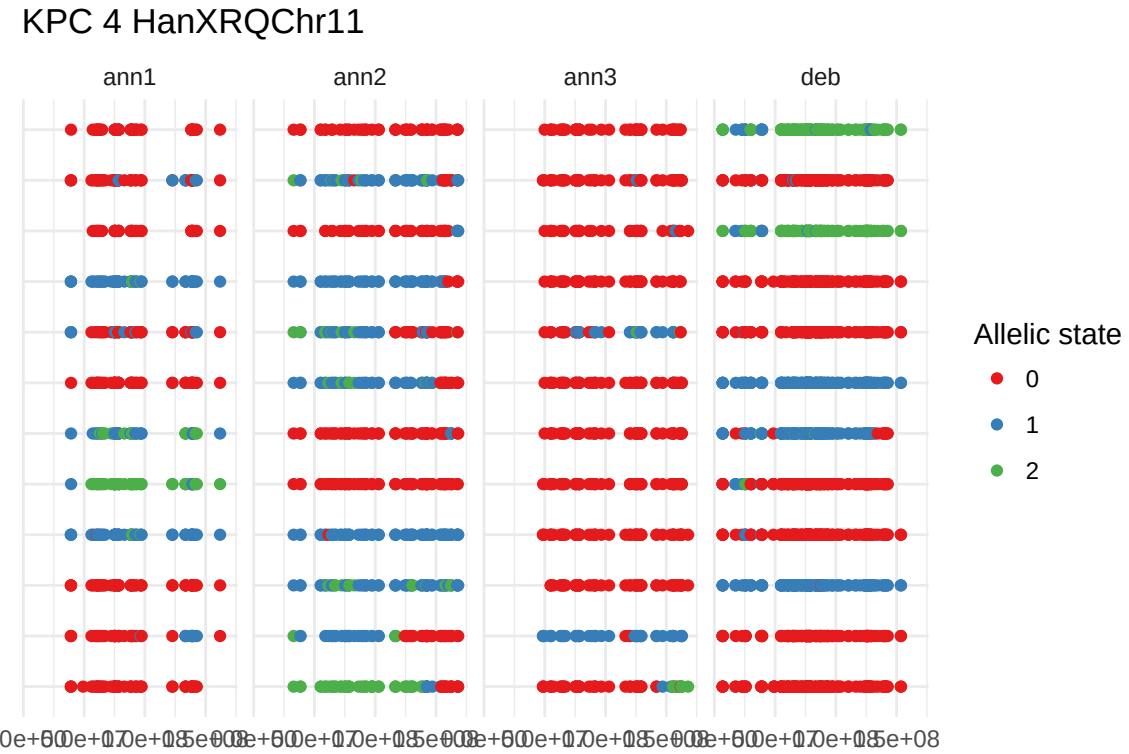
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 4 HanXRQChr11
ann1
ann2
ann3
deb
Allelic state
0
1
2
0e+00
7e+08
5e+08
3e+08
0e+00
7e+08
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3e+08
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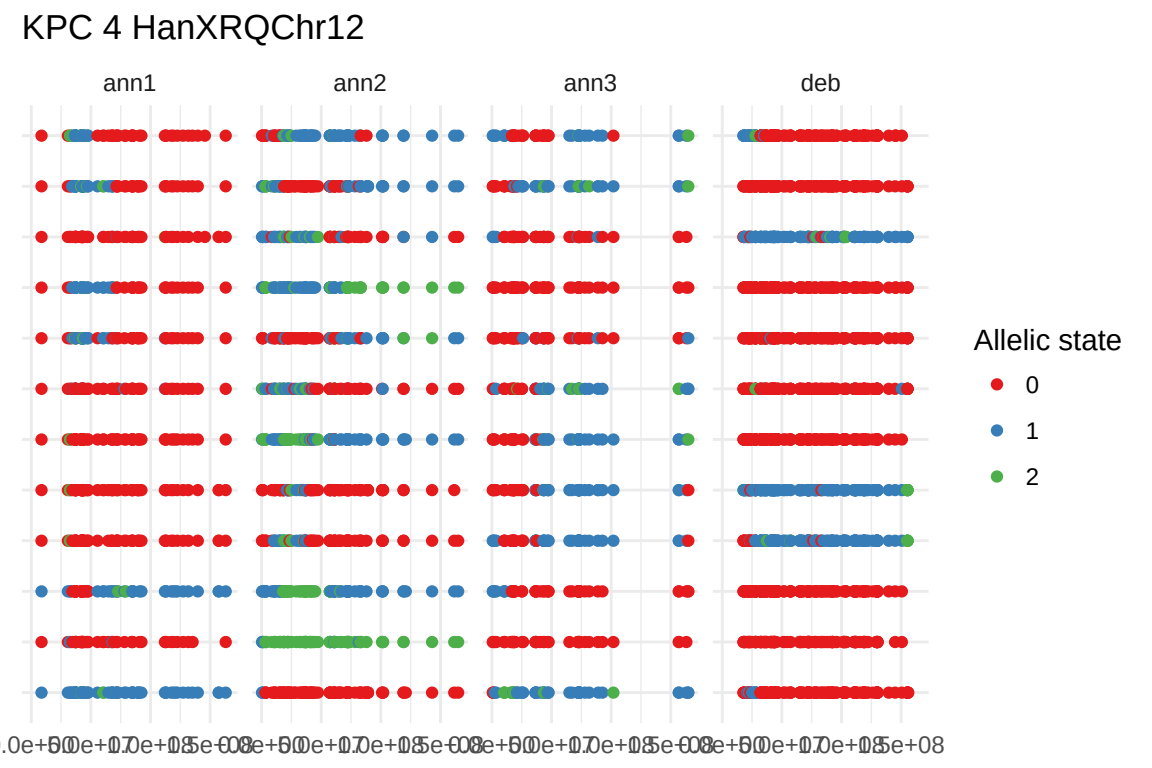
7e+08
5e+08
3e+08
0e+00
7e+08
5e+08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ann1
ann2
ann3
deb
Allelic state
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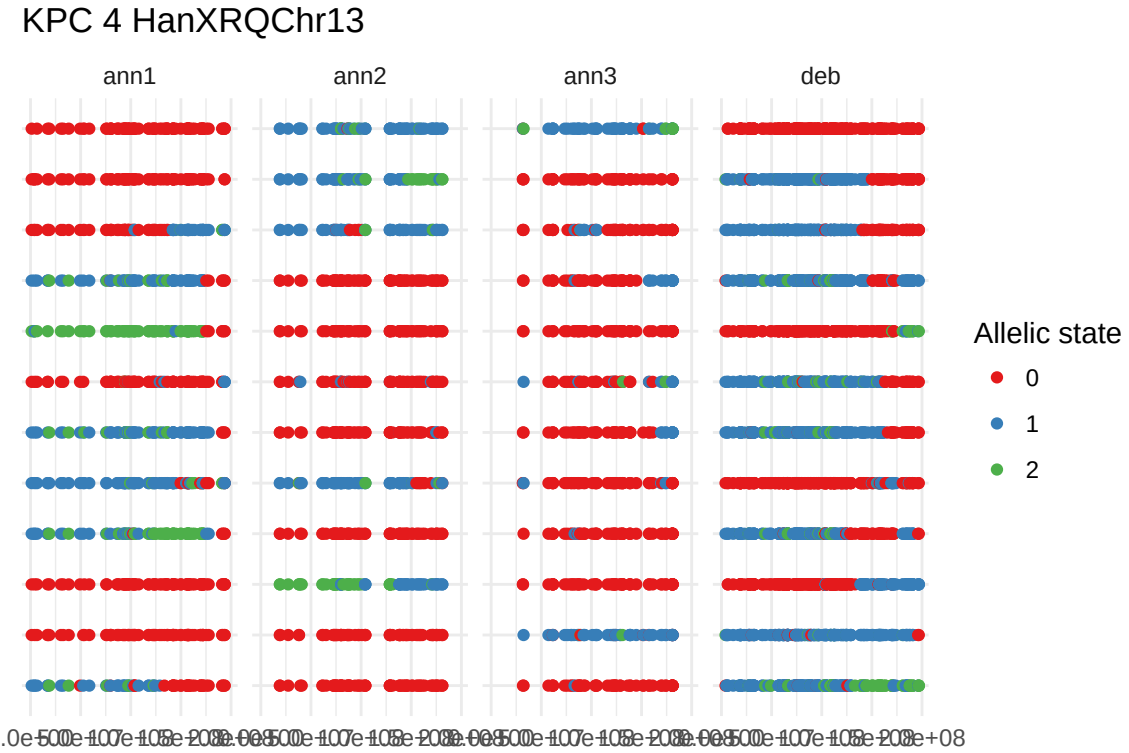
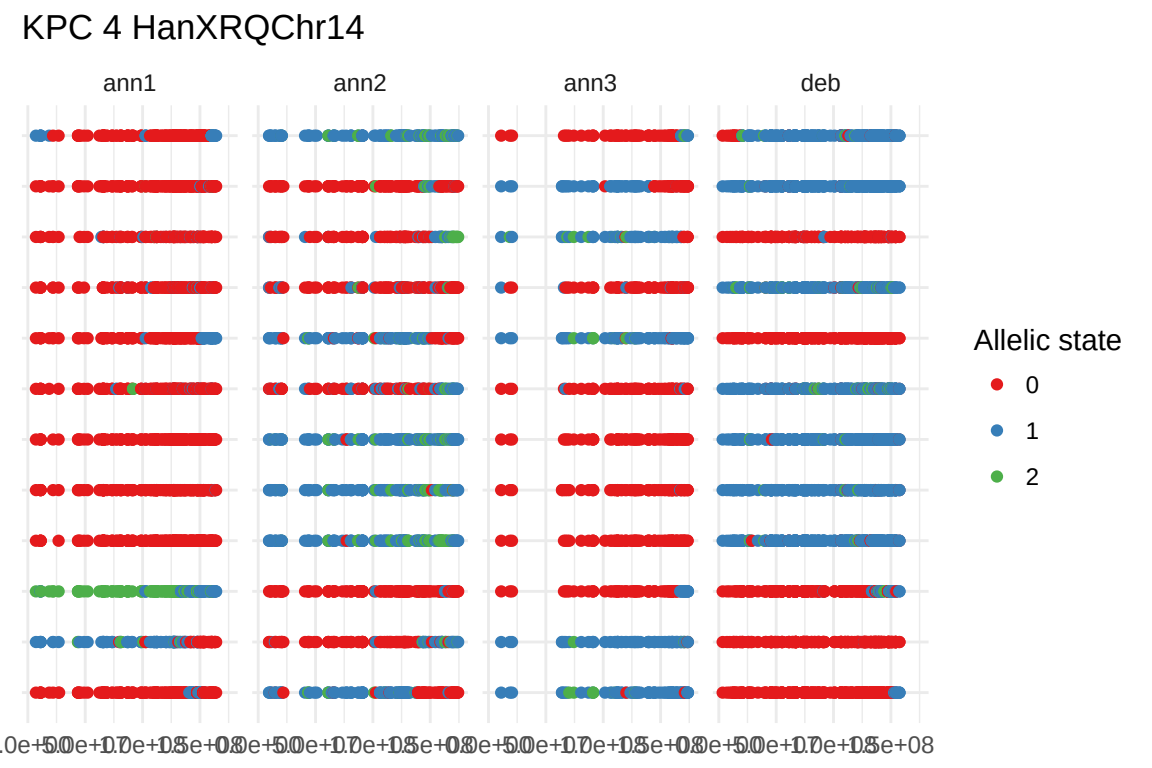
1
2


KPC 4 HanXRQChr13
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08
2.0e+08
2.5e+08


KPC 4 HanXRQChr14
ann1
ann2
ann3
deb
Allelic state
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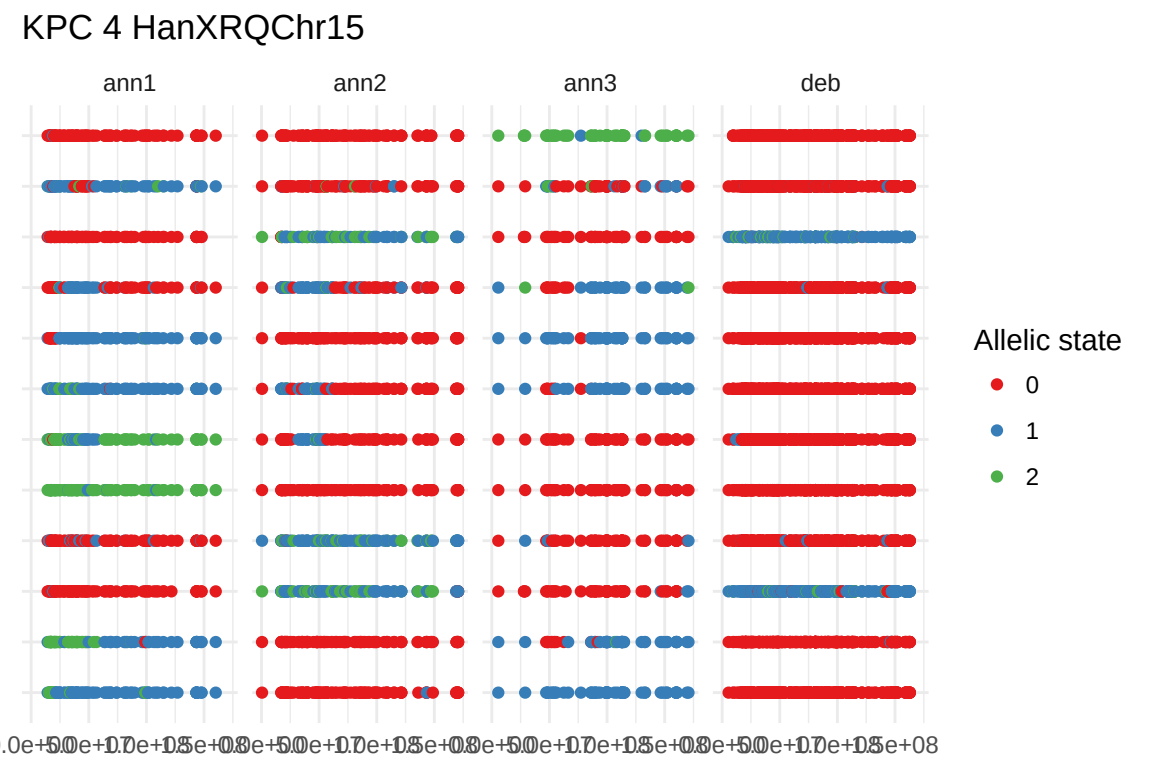
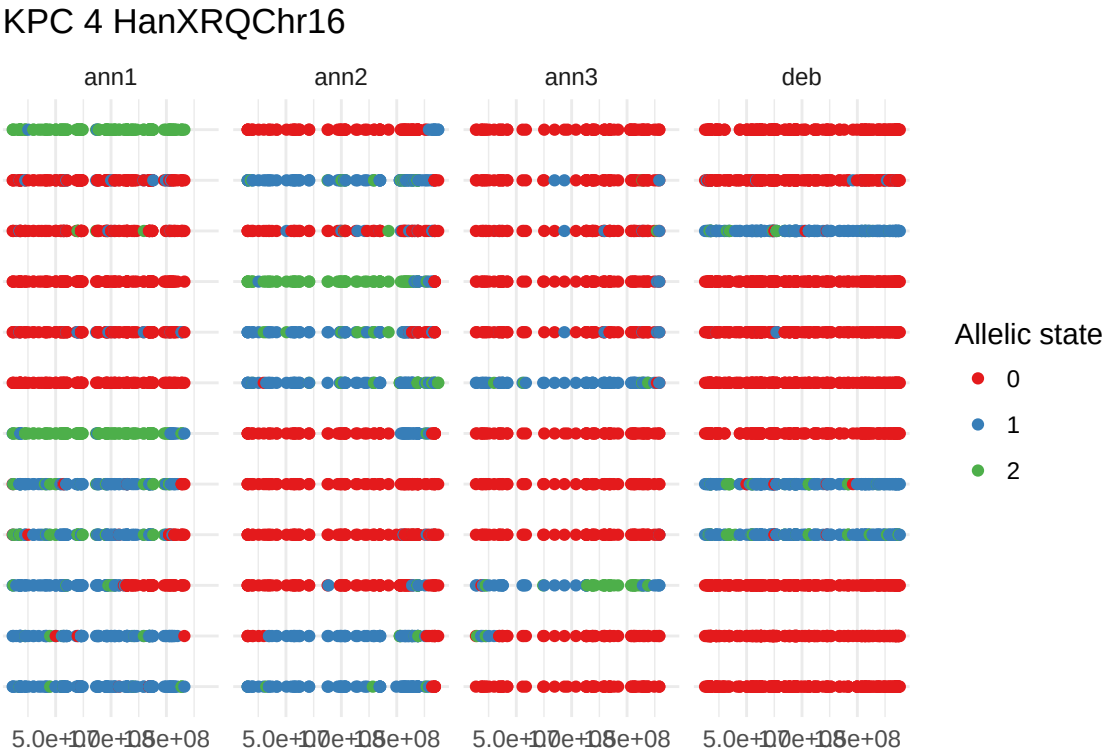
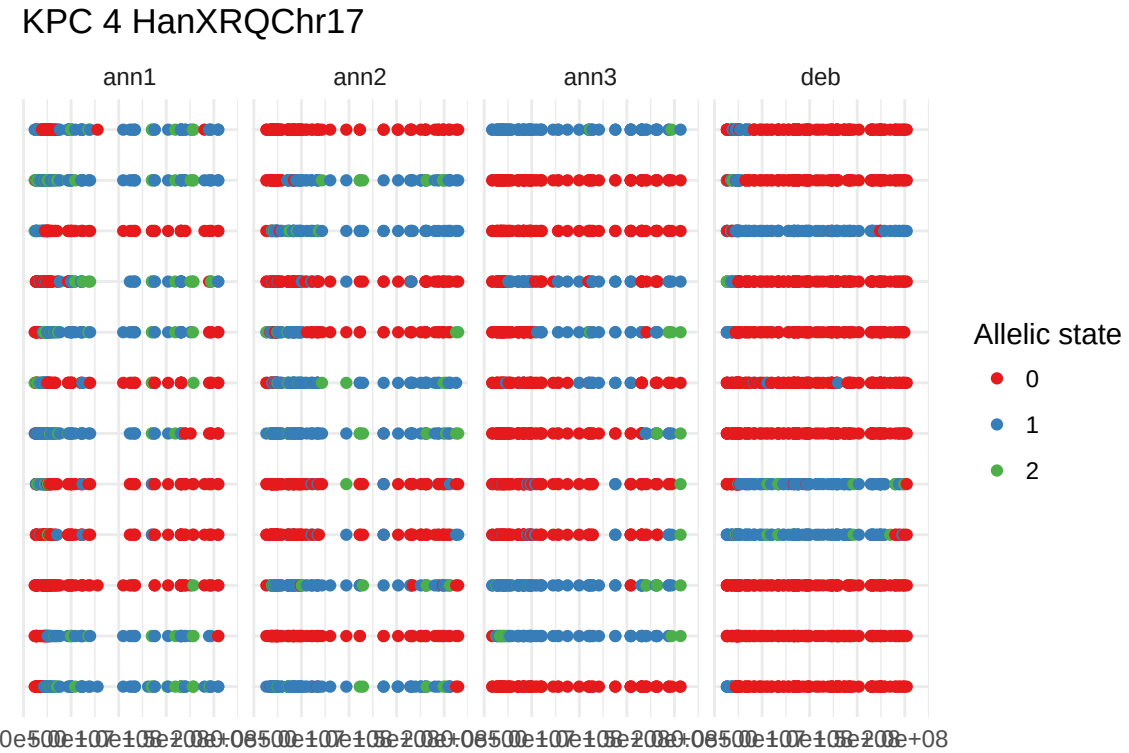
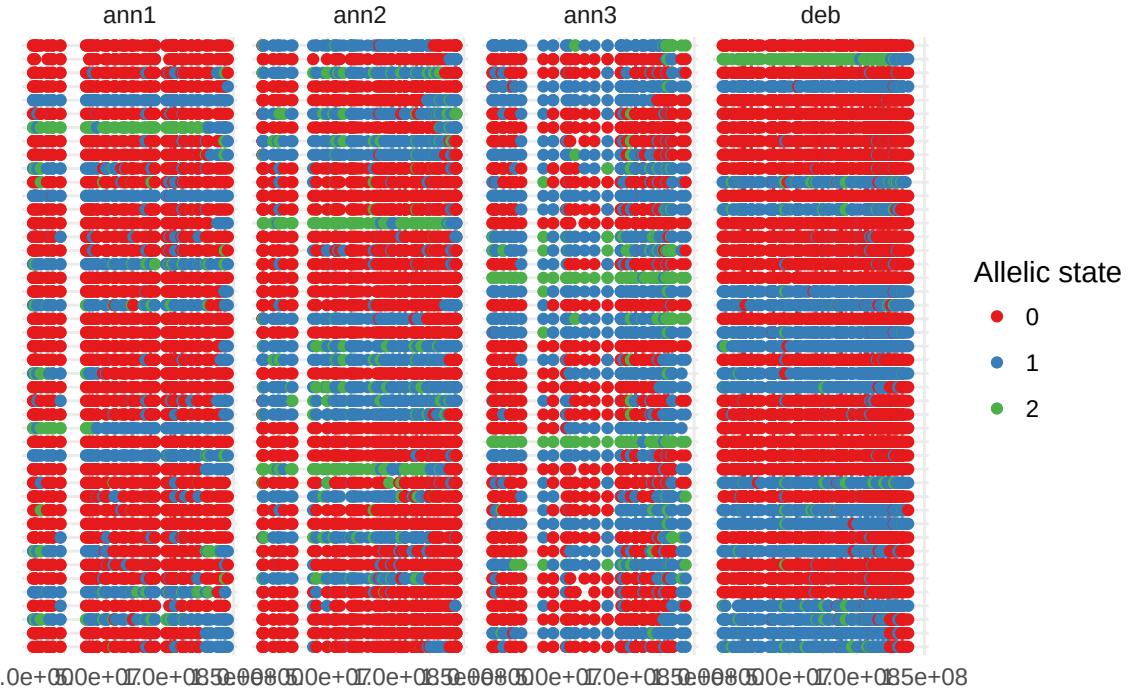
1
2
0e+5 0e+7 5e+8 0e+5 0e+7 5e+8 0e+5 0e+7 5e+8 0e+5 0e+7 5e+8


KPC 4 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+08

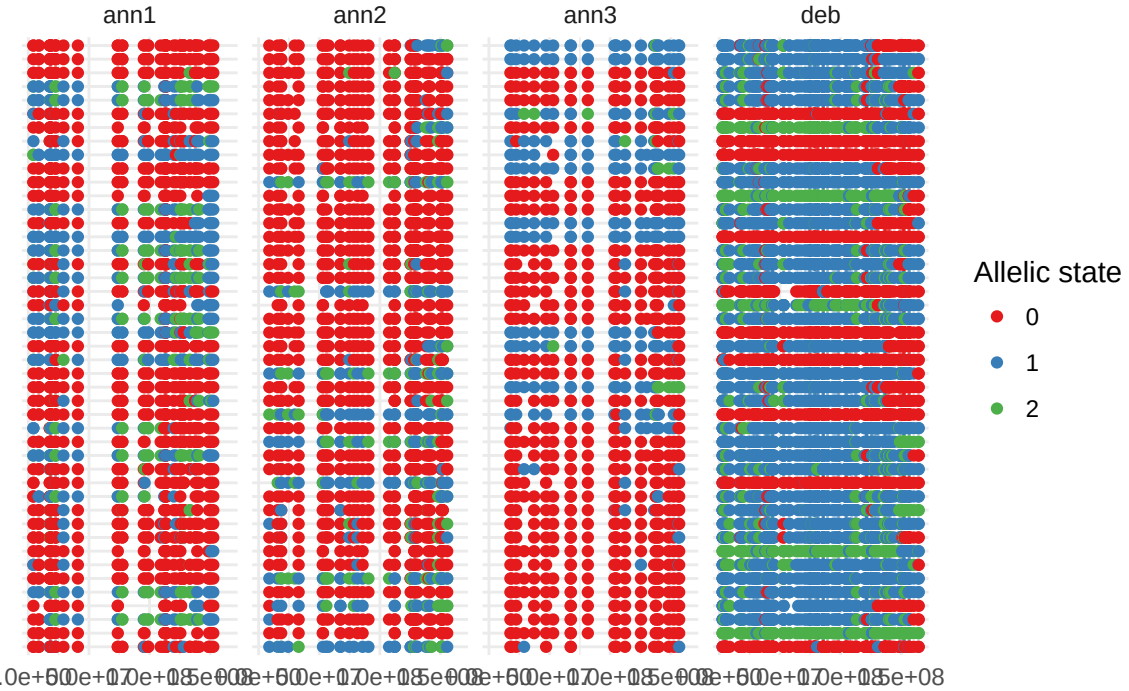

KPC 4 HanXRQChr16
ann1
ann2
ann3
deb
5.0e+07
1.0e+08
1.5e+08
Allelic state
0
1
2


KPC 4 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

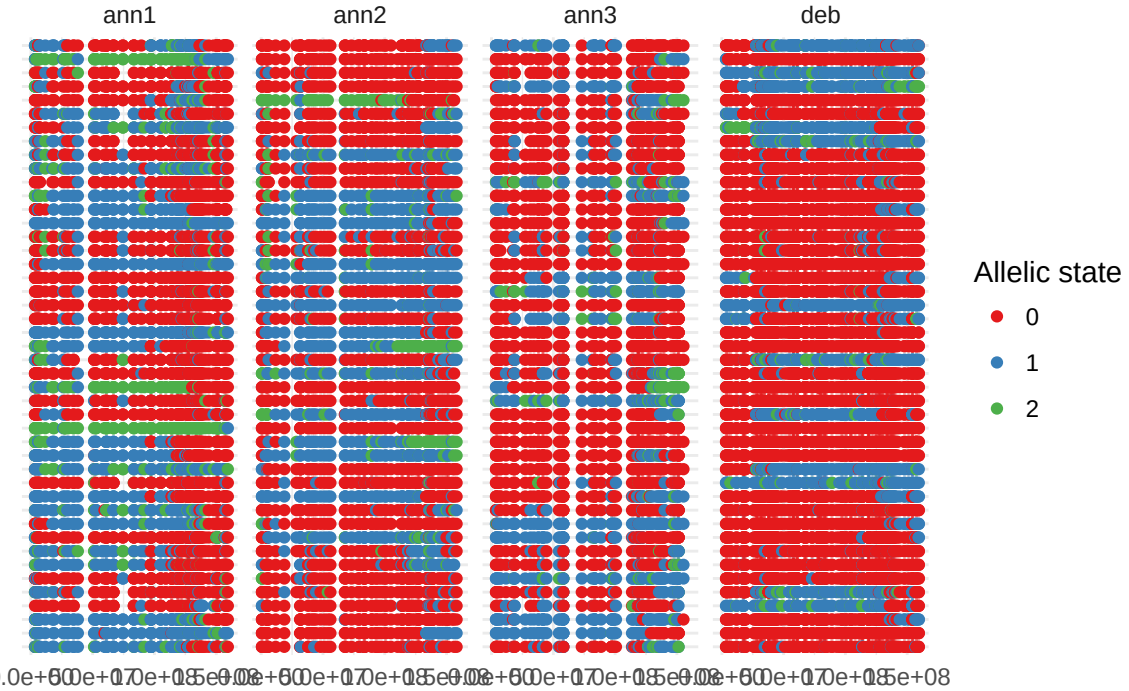
KPC 5 HanXRQChr01

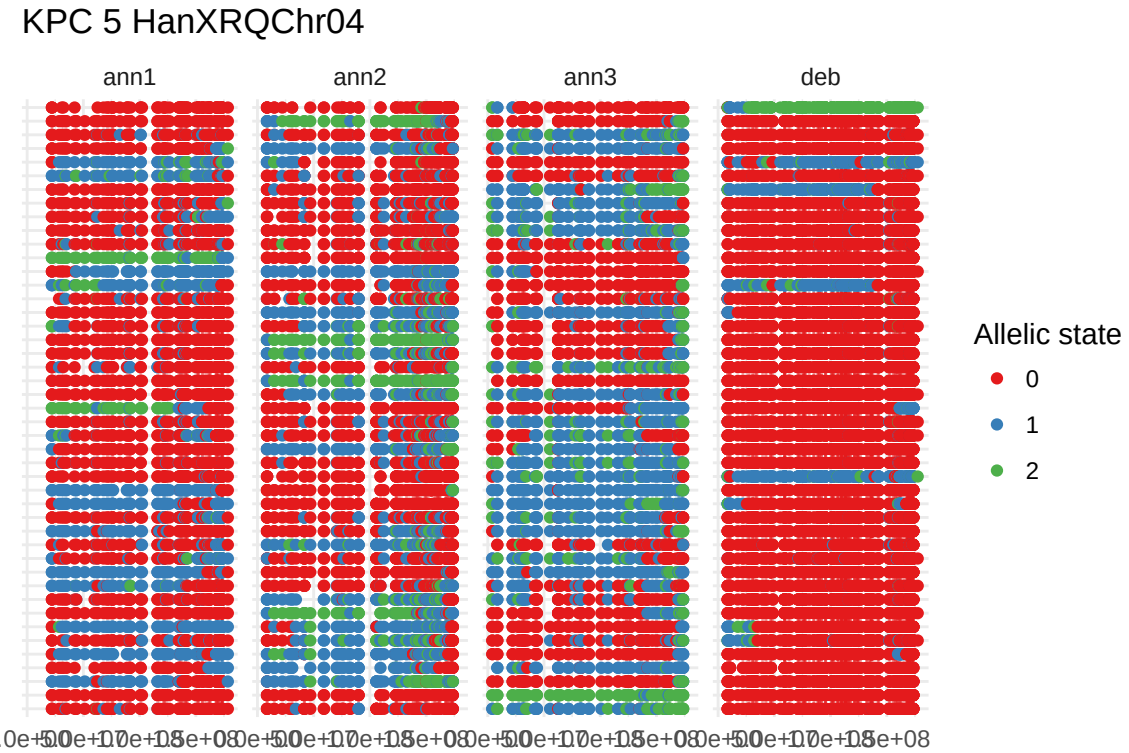


KPC 5 HanXRQChr02



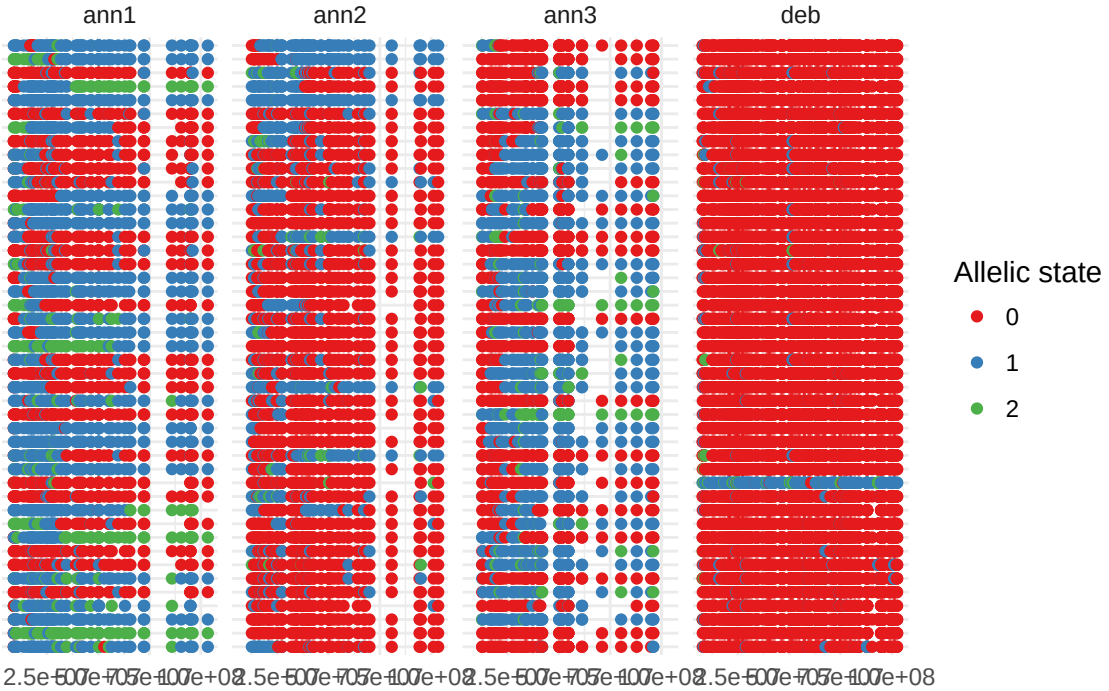
KPC 5 HanXRQChr03

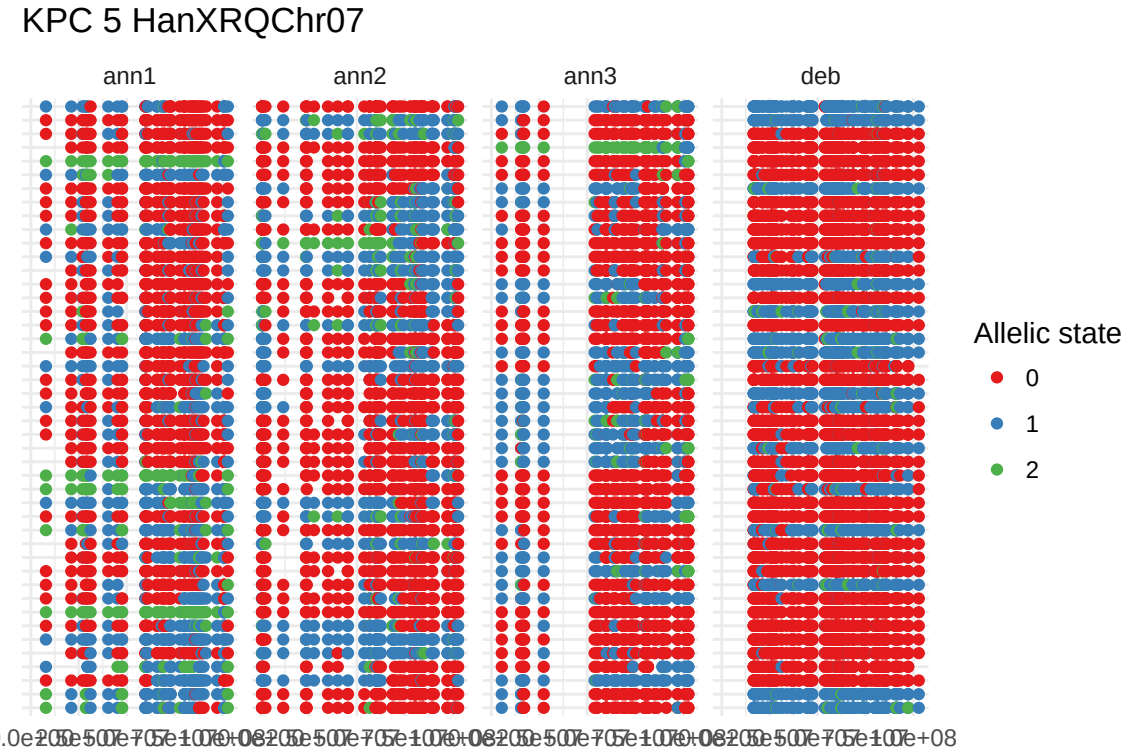



KPC 5 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2
0e+00
7e+07
5e+08

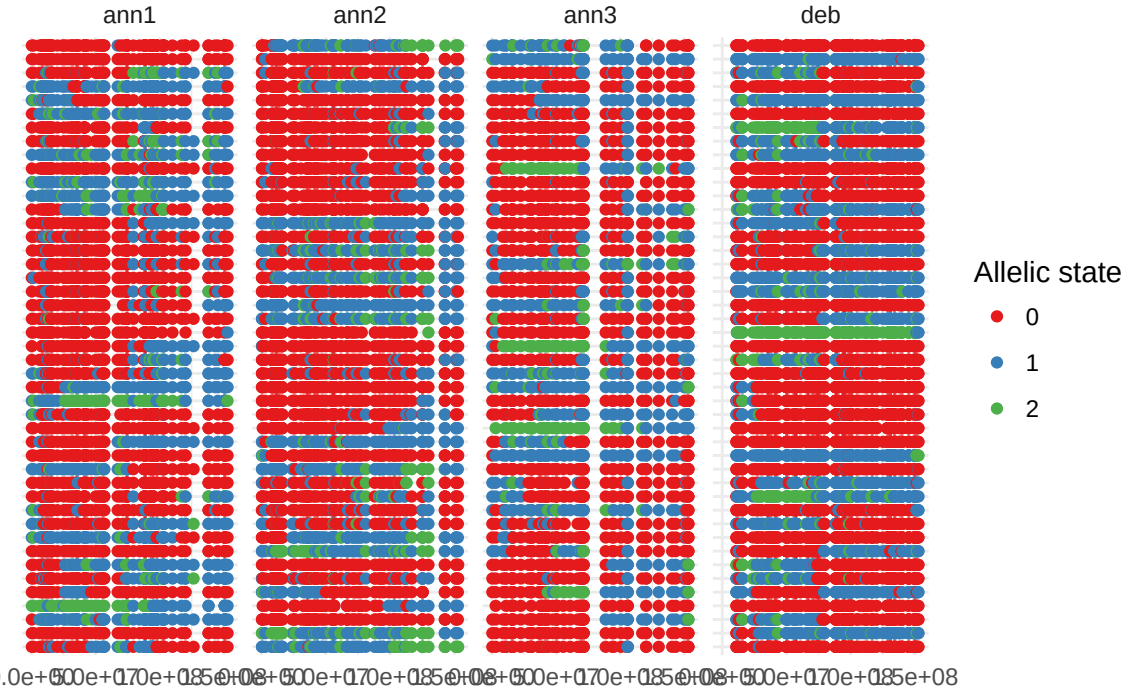
KPC 5 HanXRQChr05

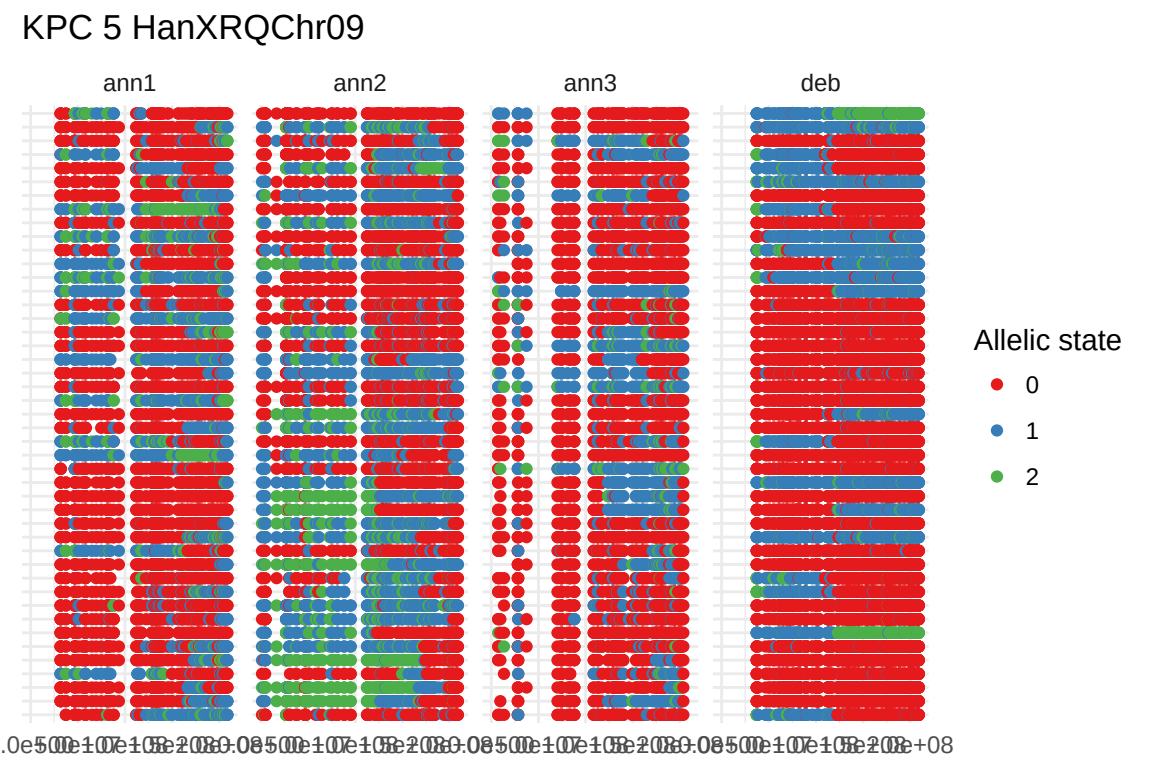
KPC 5 HanXRQChr06

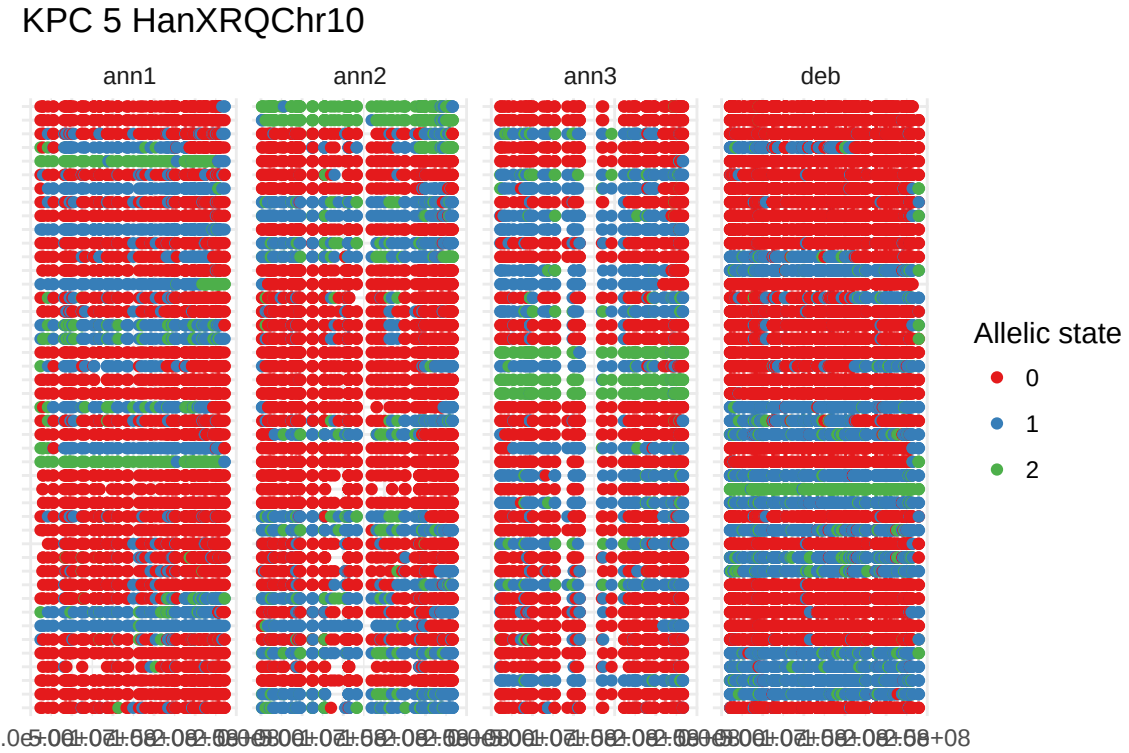



KPC 5 HanXRQChr07
ann1
ann2
ann3
deb
Allelic state
0
1
2

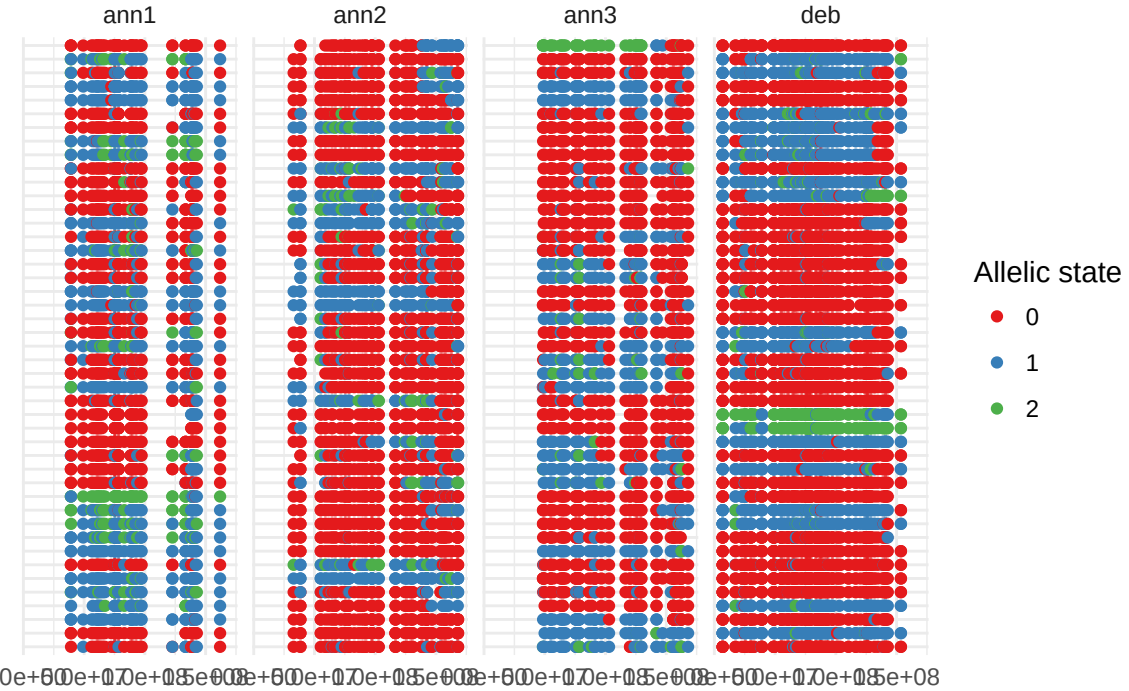
KPC 5 HanXRQChr08

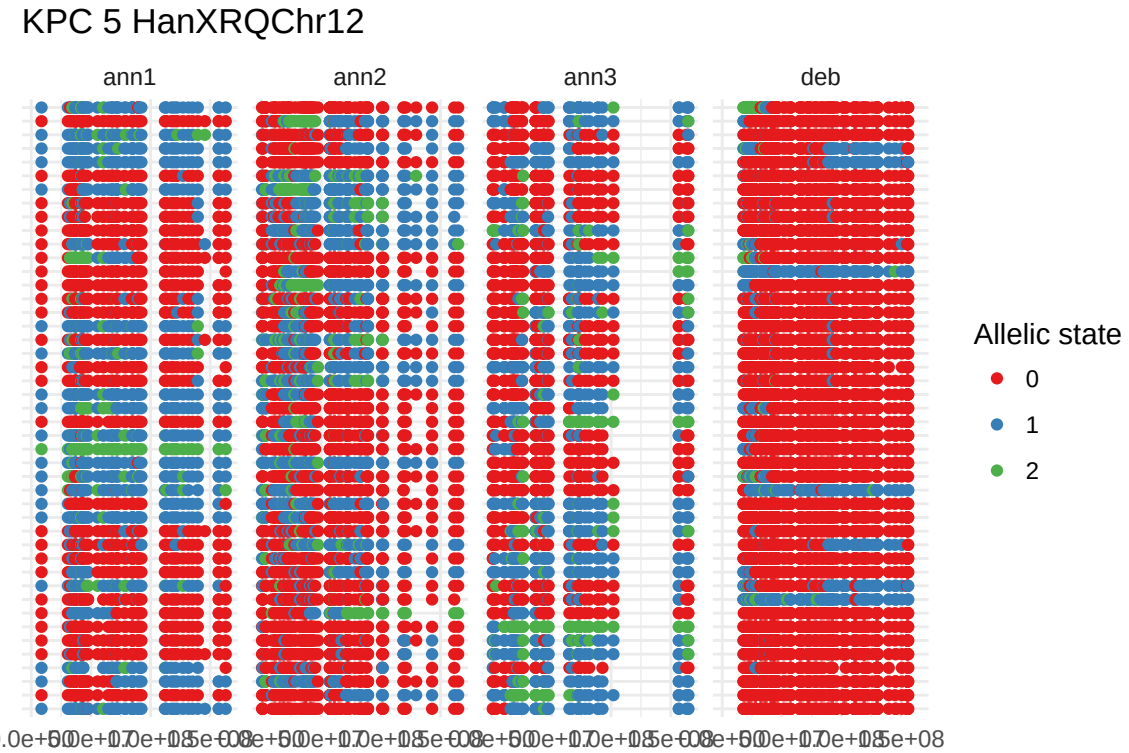



KPC 5 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
0
1
2

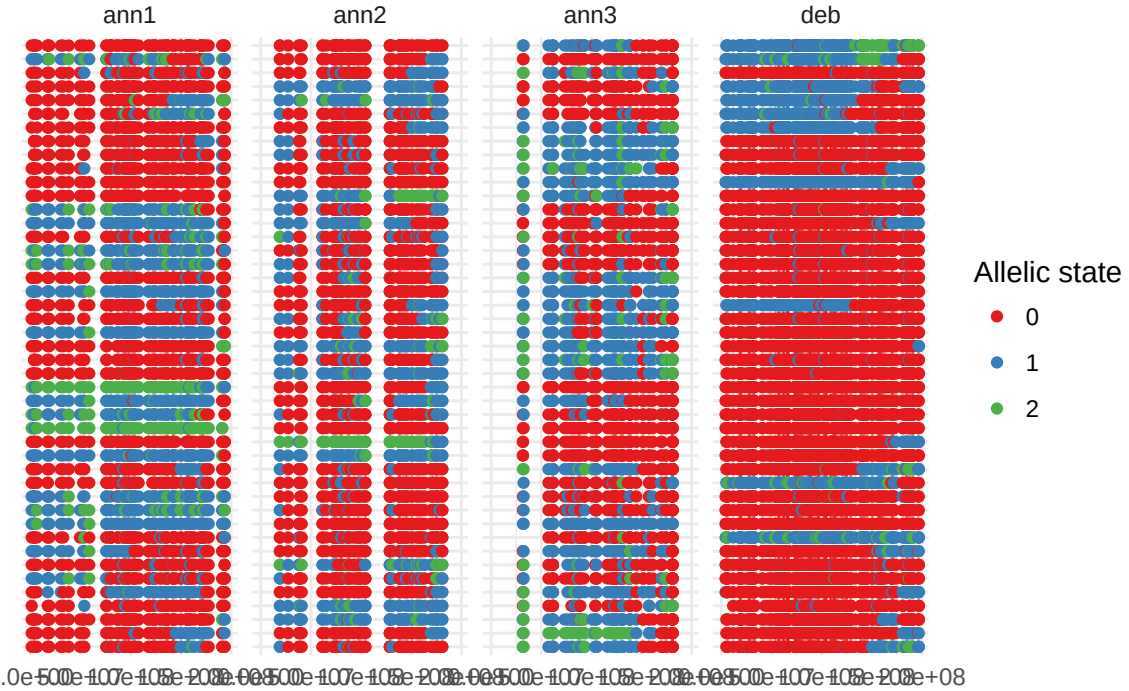

KPC 5 HanXRQChr10
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 5 HanXRQChr11

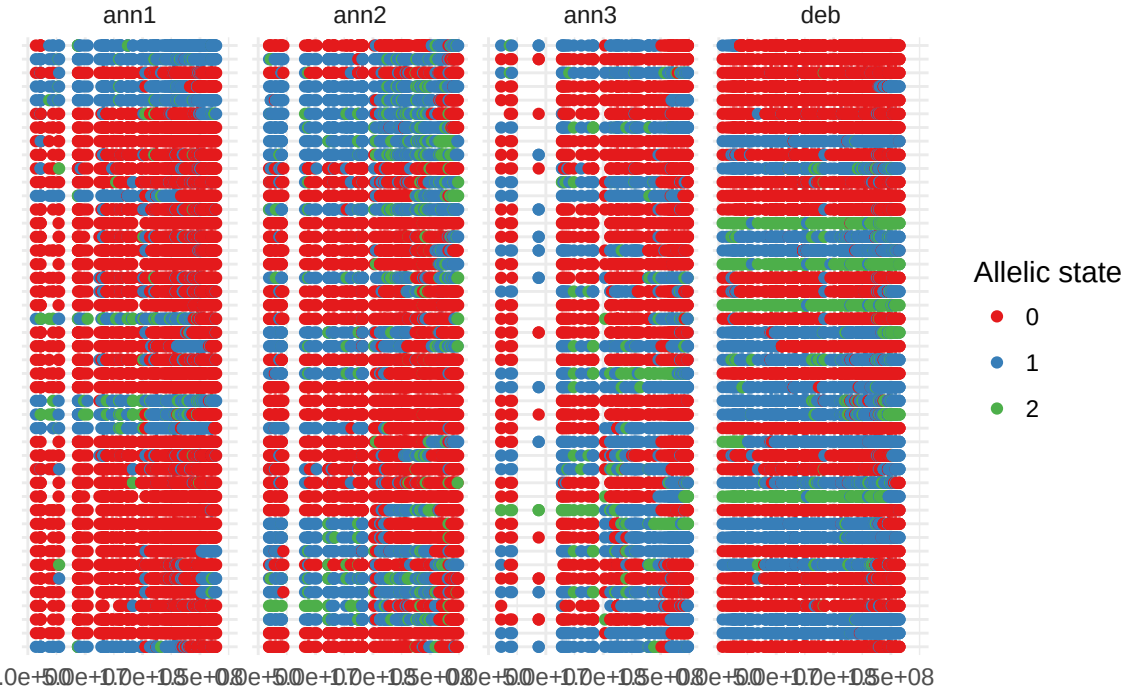


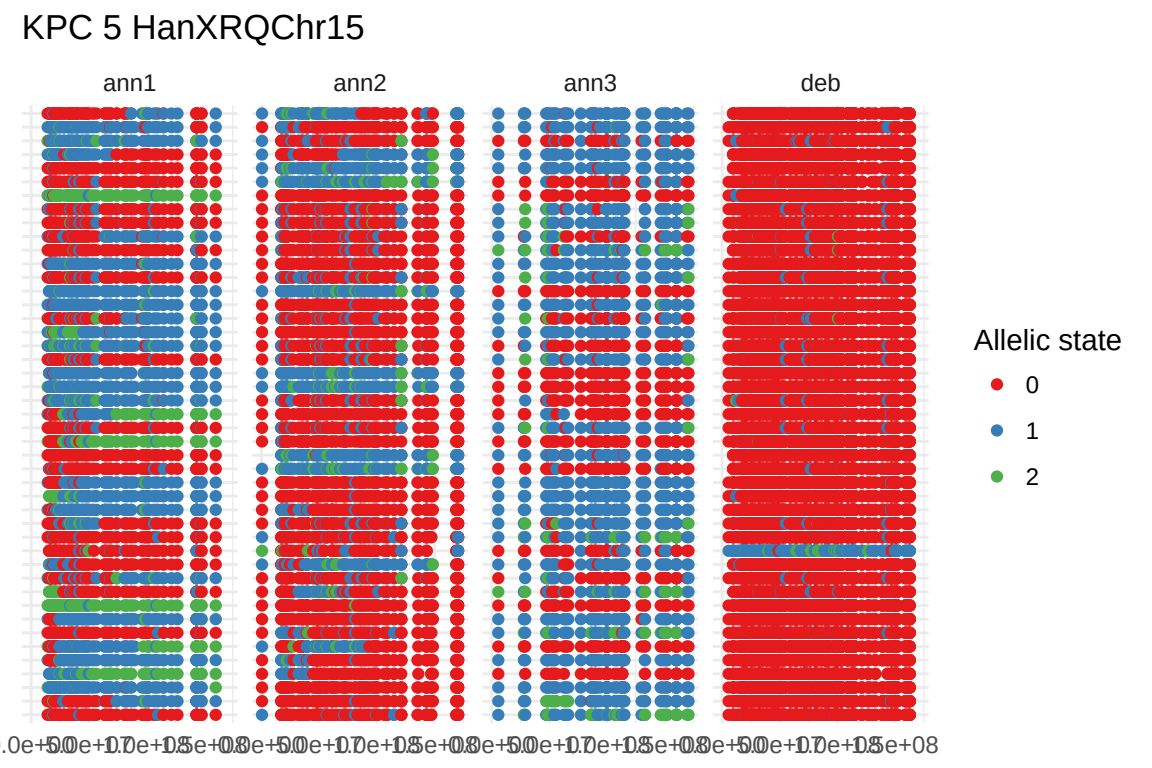

KPC 5 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 5 HanXRQChr13

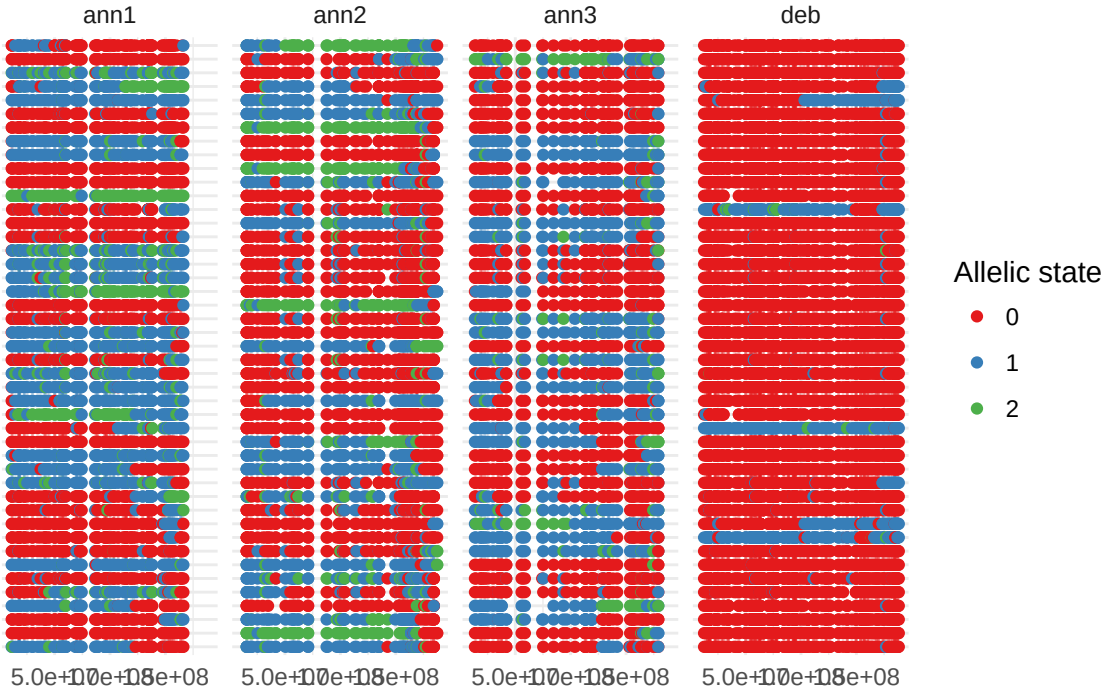


KPC 5 HanXRQChr14

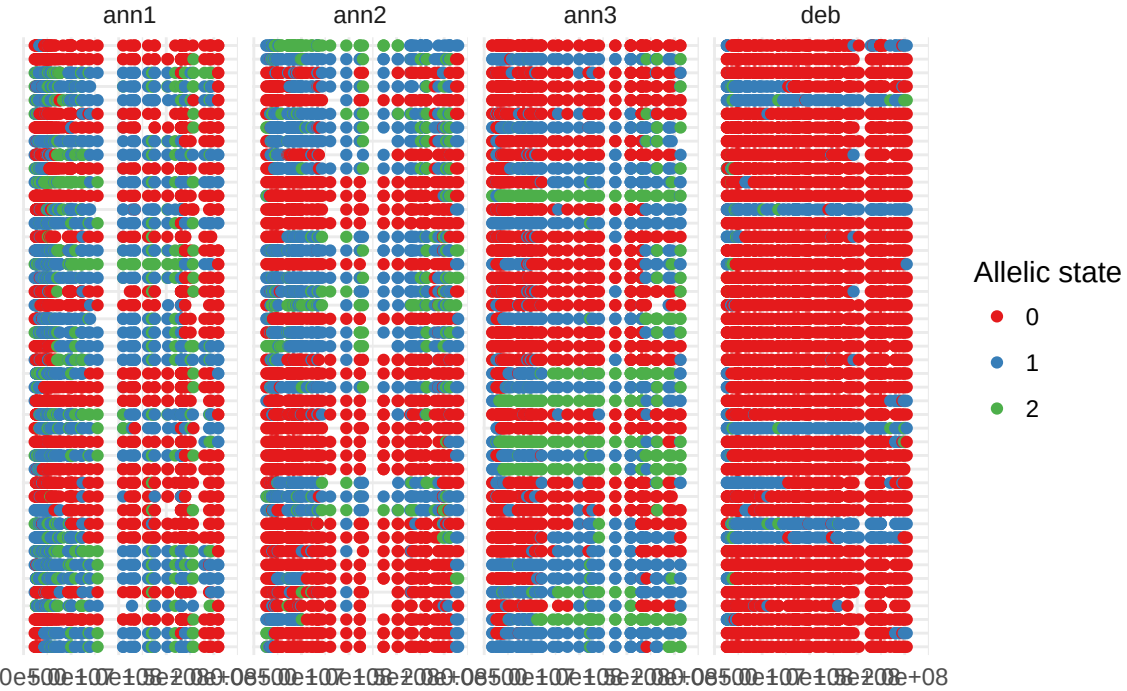



KPC 5 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+0 0.8e+5 0.0e+1 0.7e+1 0.5e+08

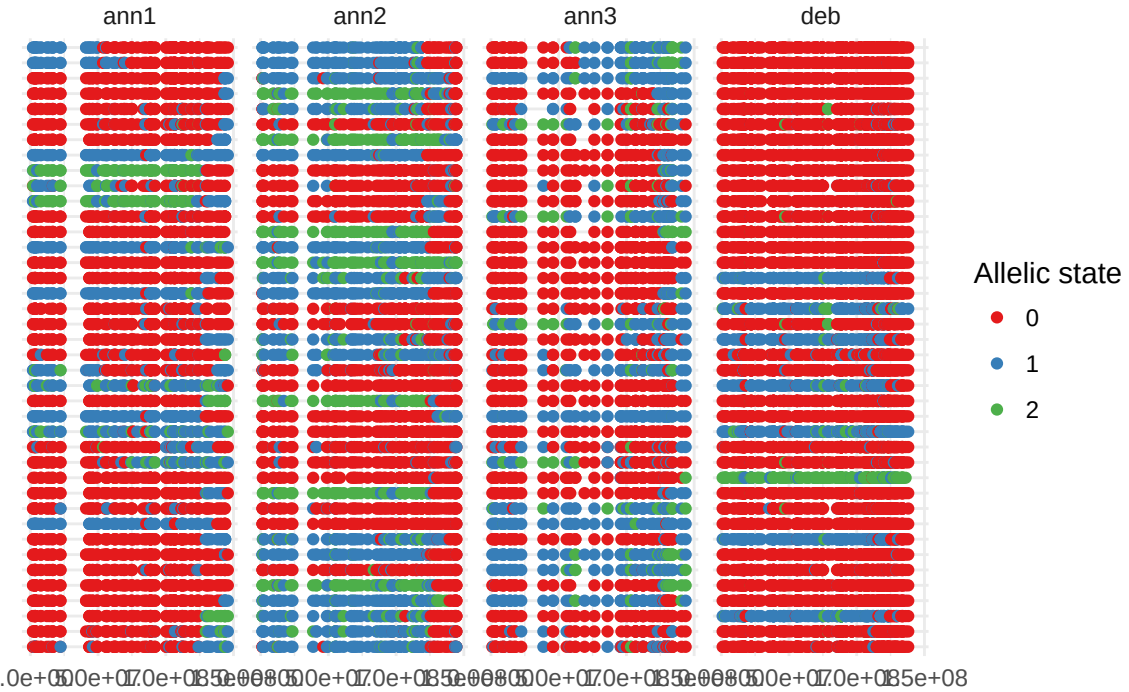
KPC 5 HanXRQChr16

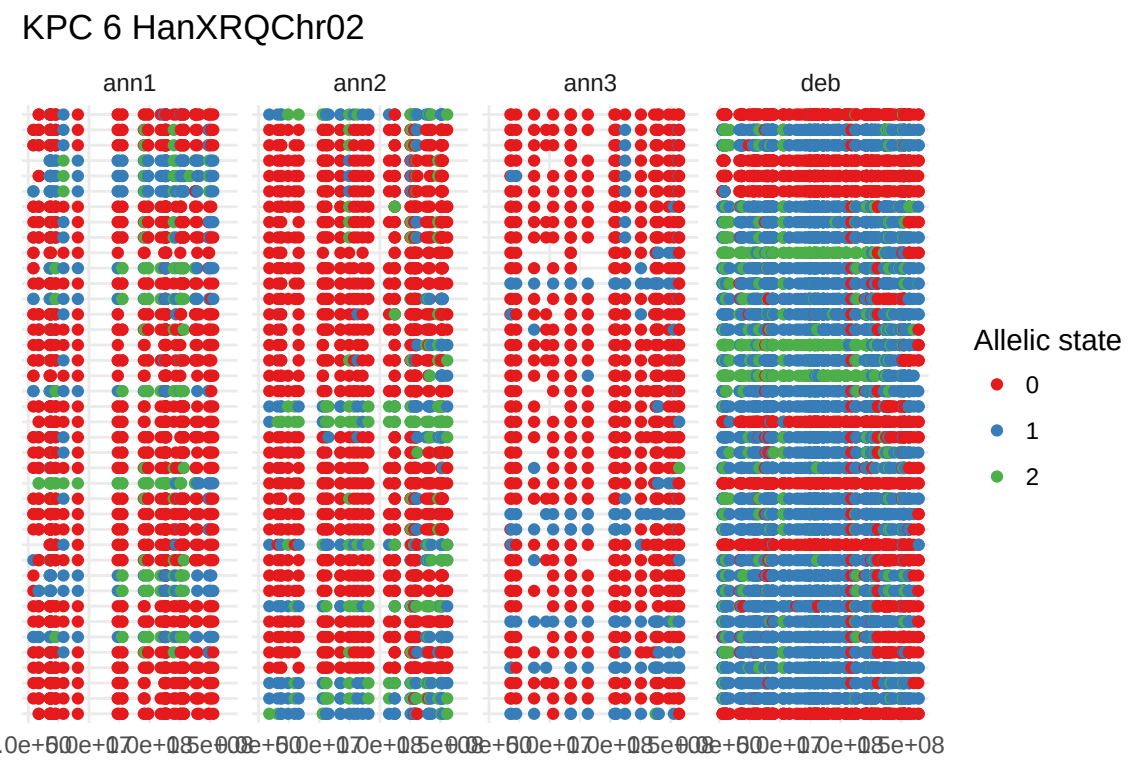


KPC 5 HanXRQChr17

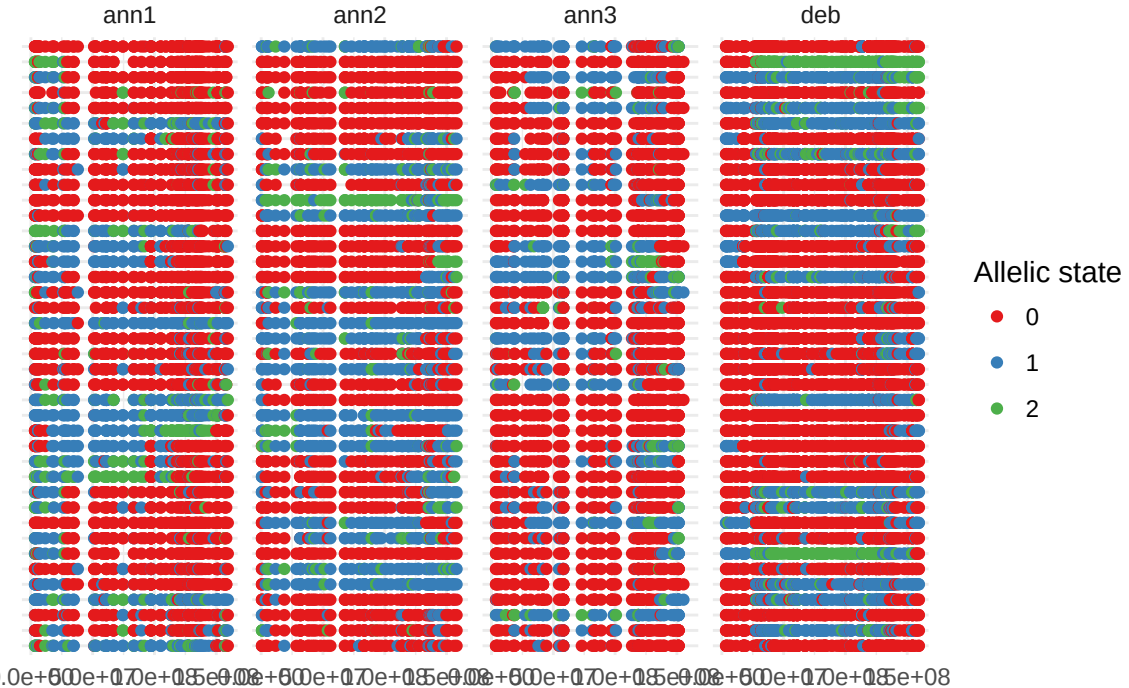


KPC 6 HanXRQChr01

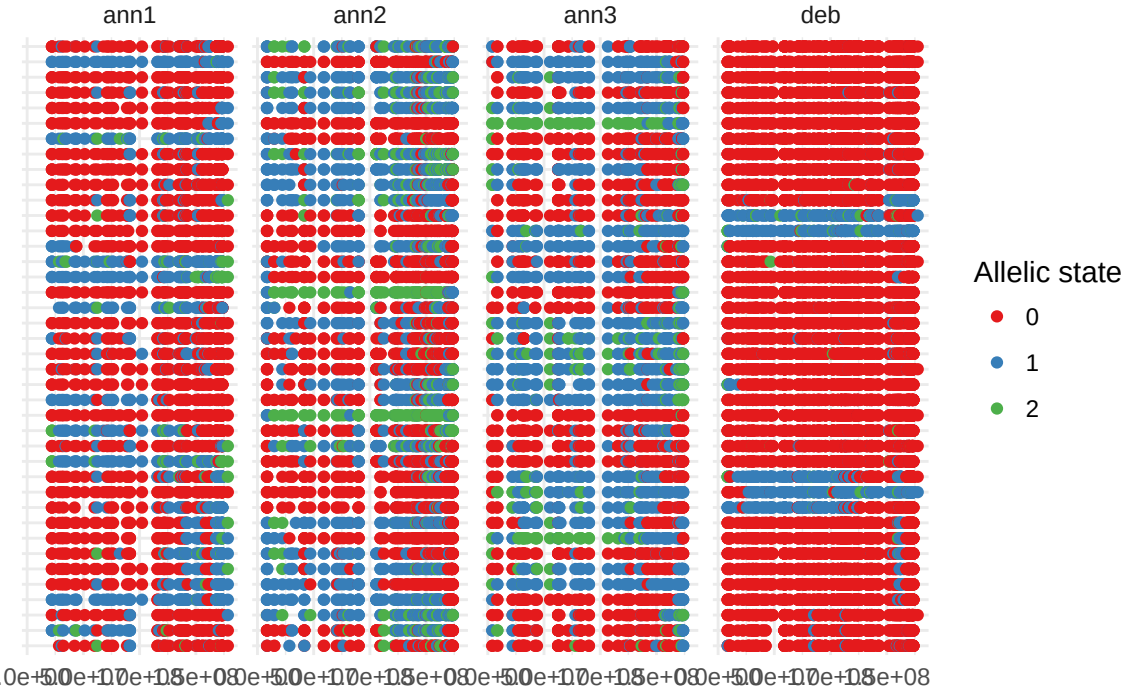



KPC 6 HanXRQChr02
ann1
ann2
ann3
deb
Allelic state
0
1
2

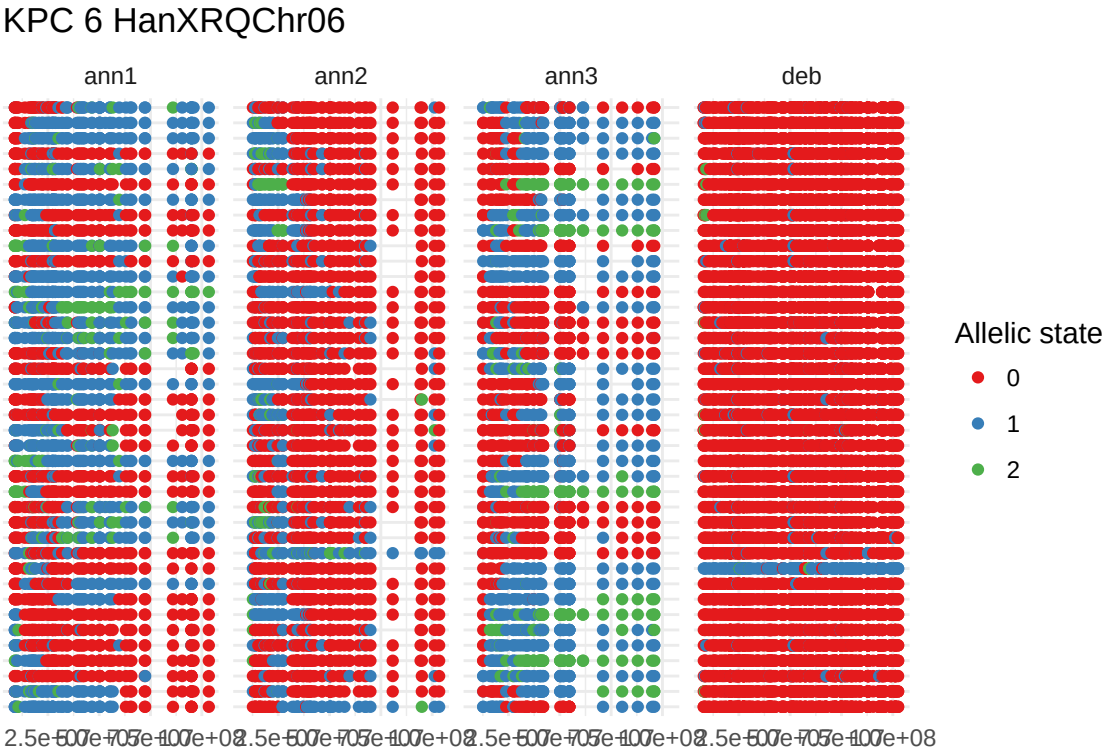
KPC 6 HanXRQChr03

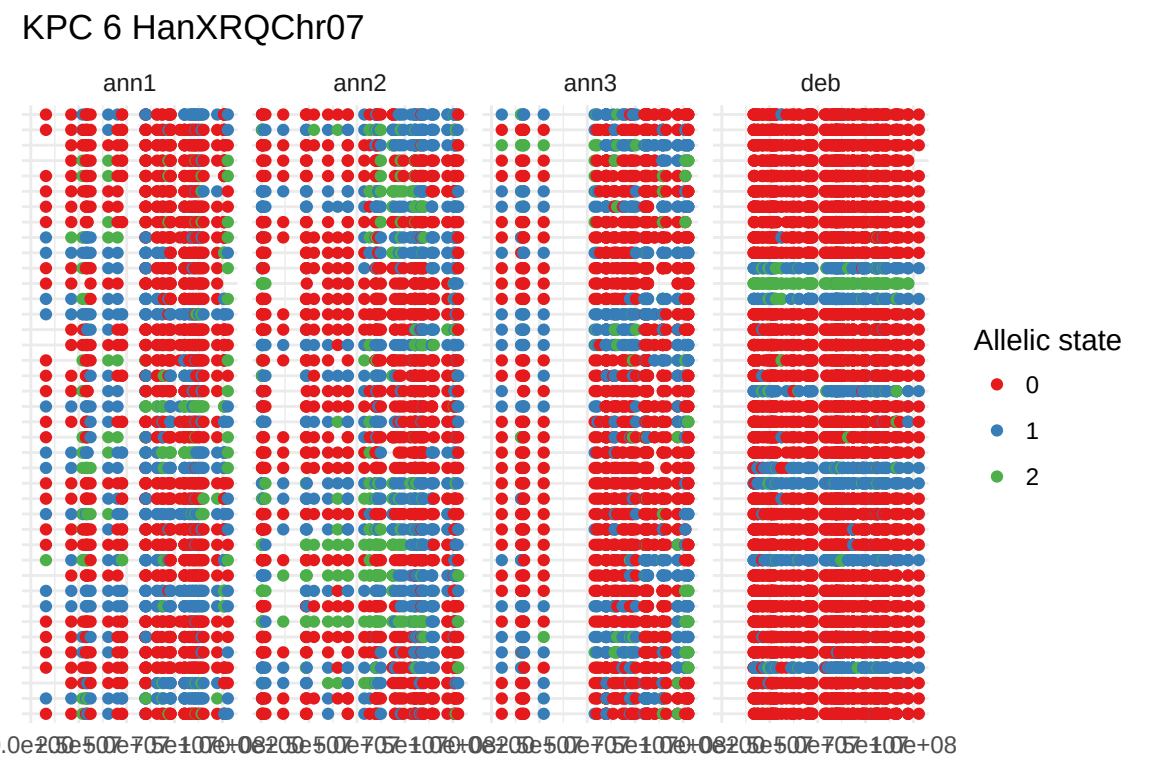


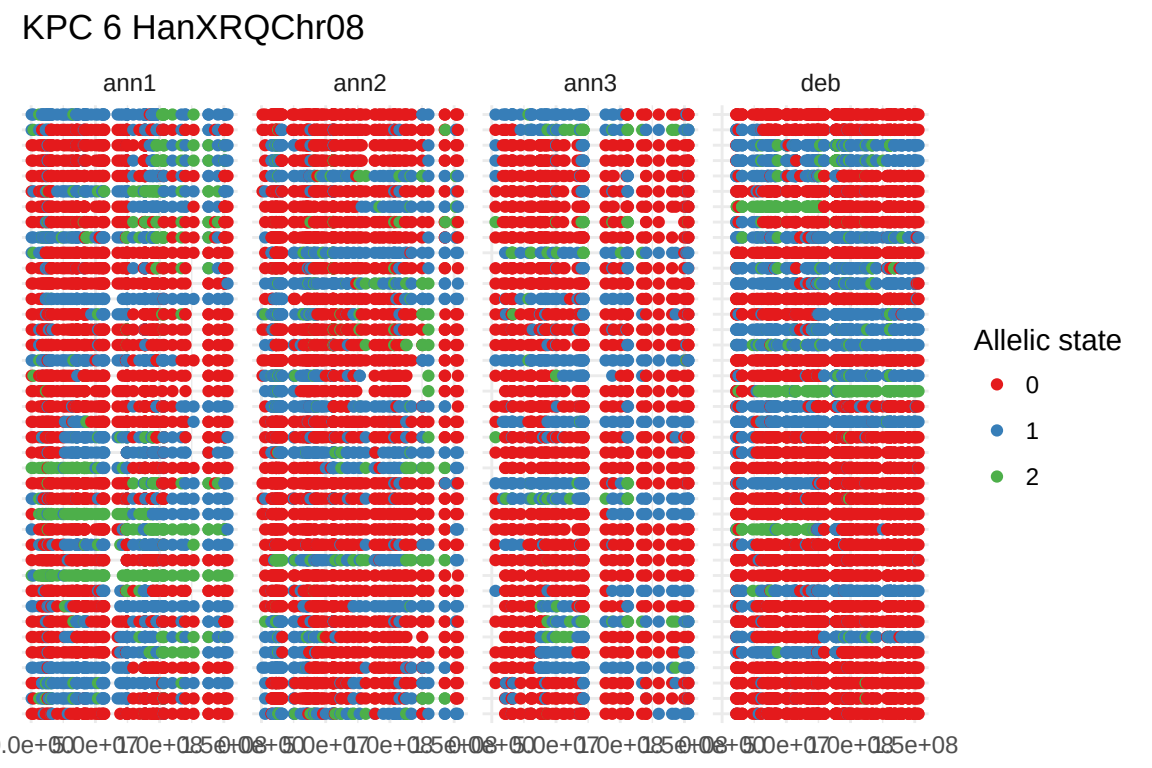
KPC 6 HanXRQChr04



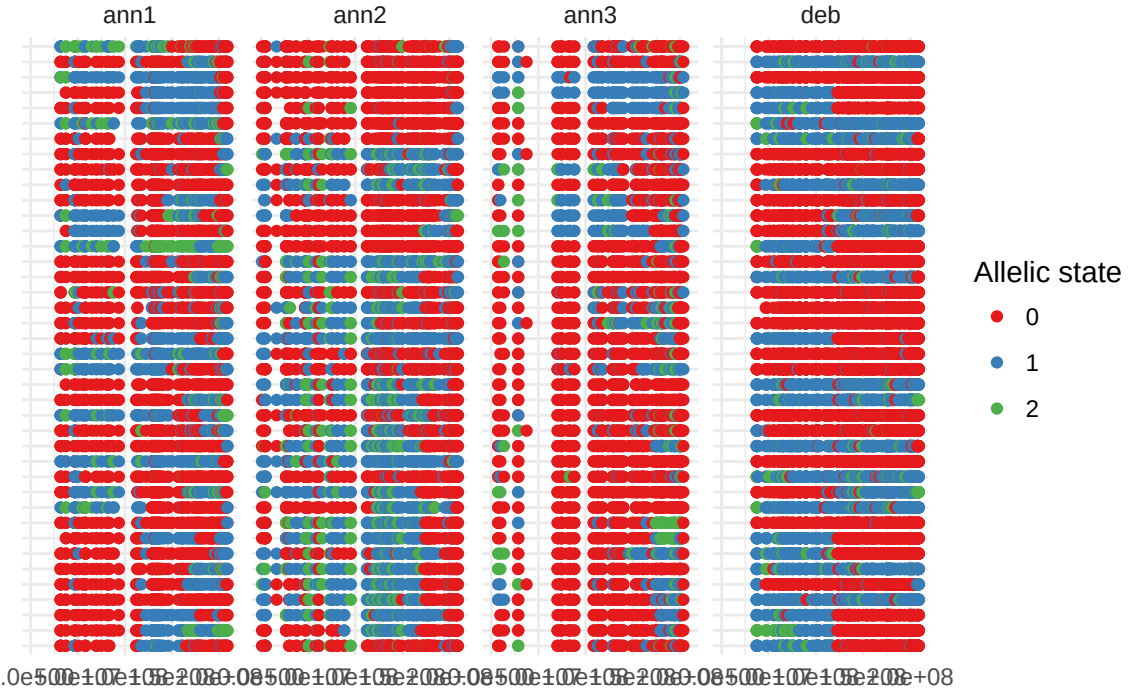
KPC 6 HanXRQChr05
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 6 HanXRQChr06
ann1
ann2
ann3
deb
2.5e+07
5.0e+07
7.5e+07
1.0e+08
Allelic state
0
1
2

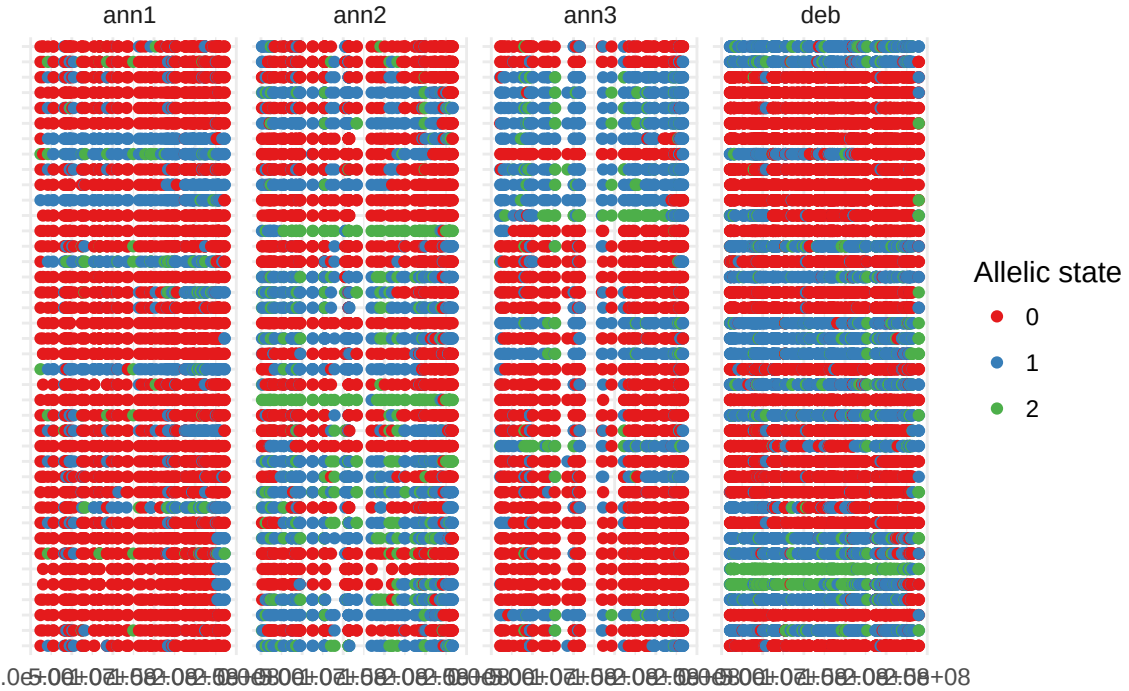

KPC 6 HanXRQChr07
ann1
ann2
ann3
deb
Allelic state
0
1
2


KPC 6 HanXRQChr08
ann1
ann2
ann3
deb
Allelic state
0
1
2

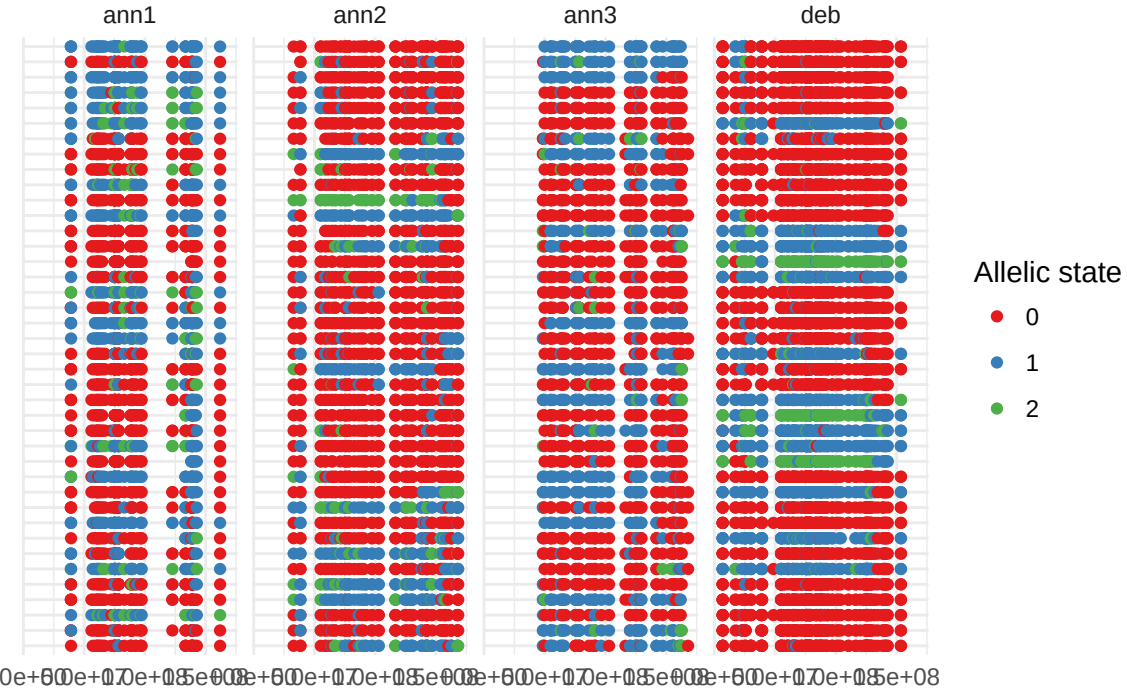
KPC 6 HanXRQChr09



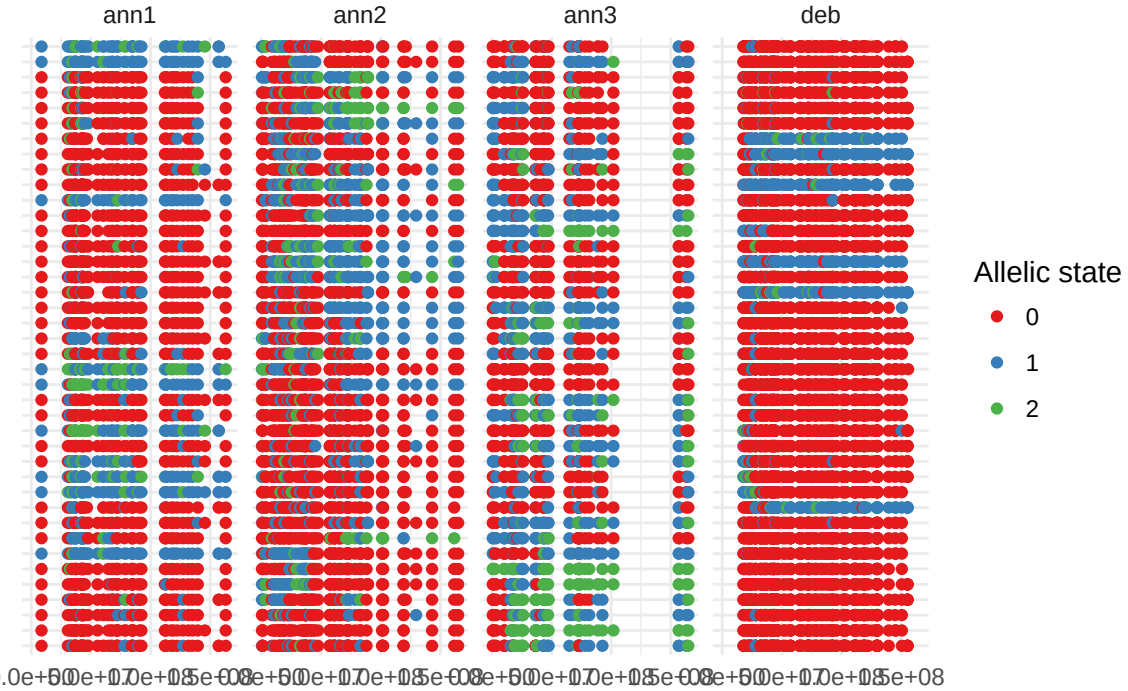
KPC 6 HanXRQChr10



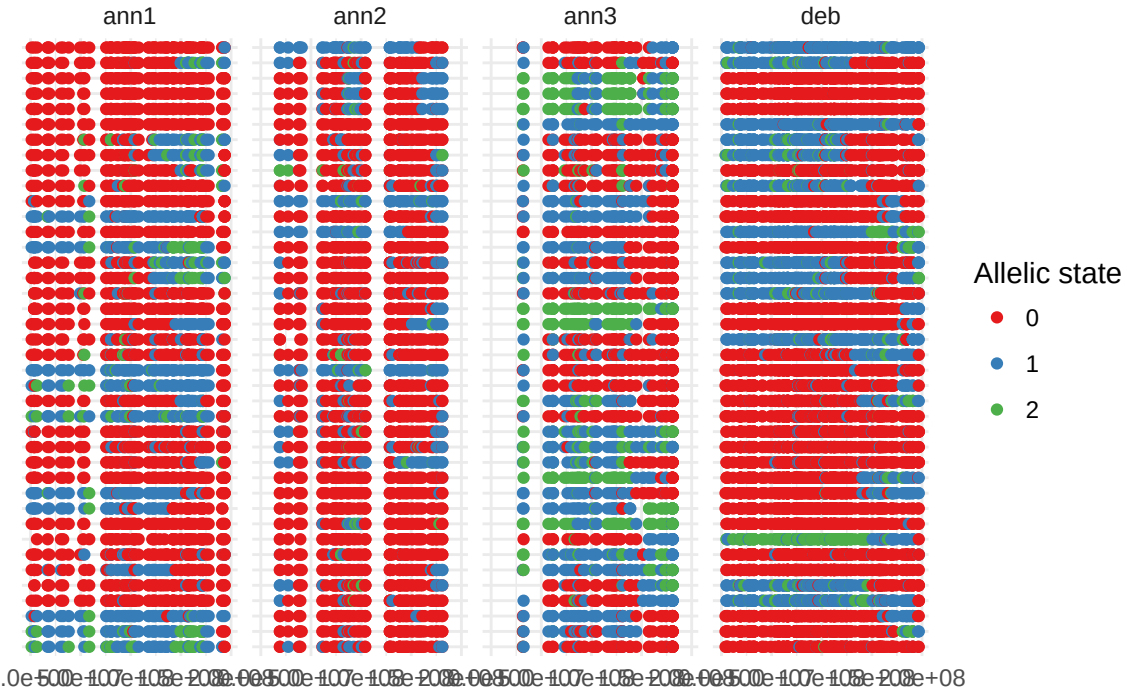
KPC 6 HanXRQChr11

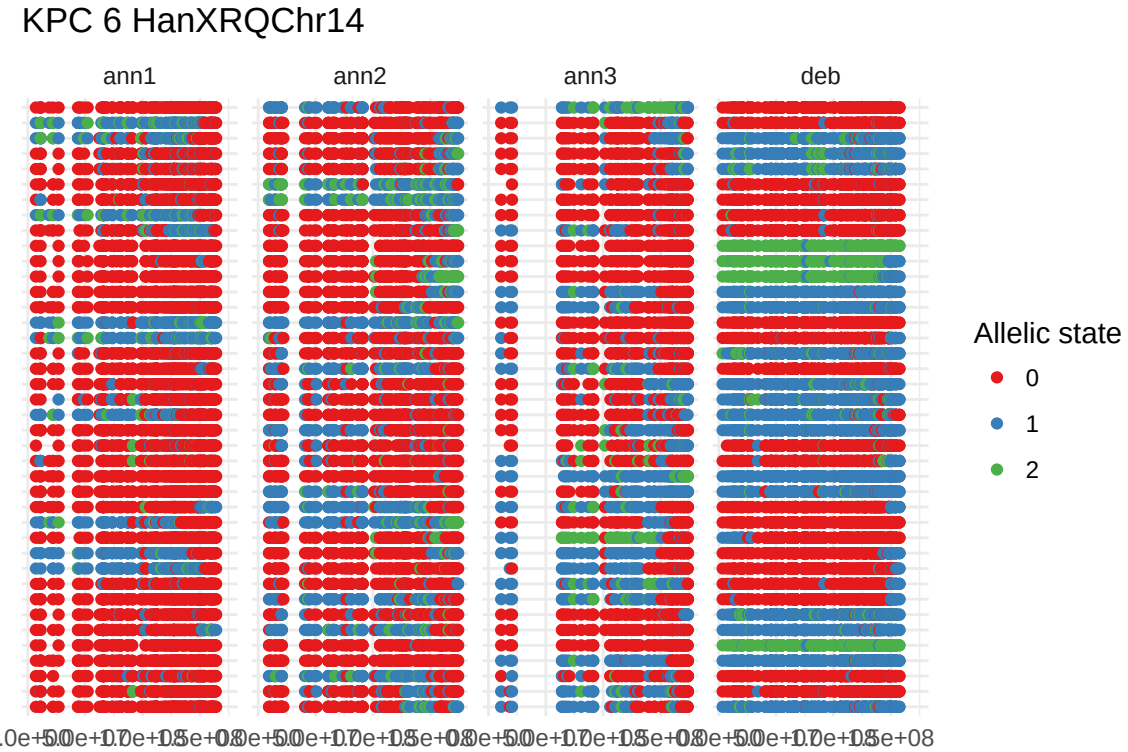


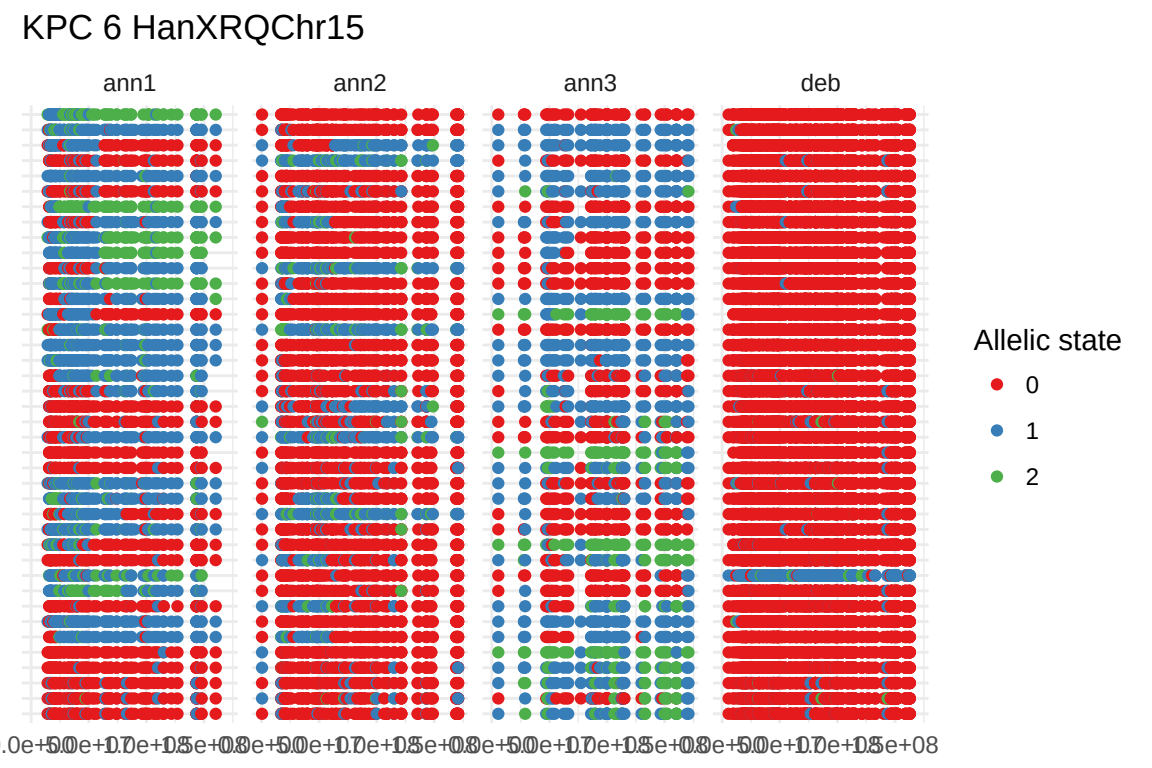
KPC 6 HanXRQChr12



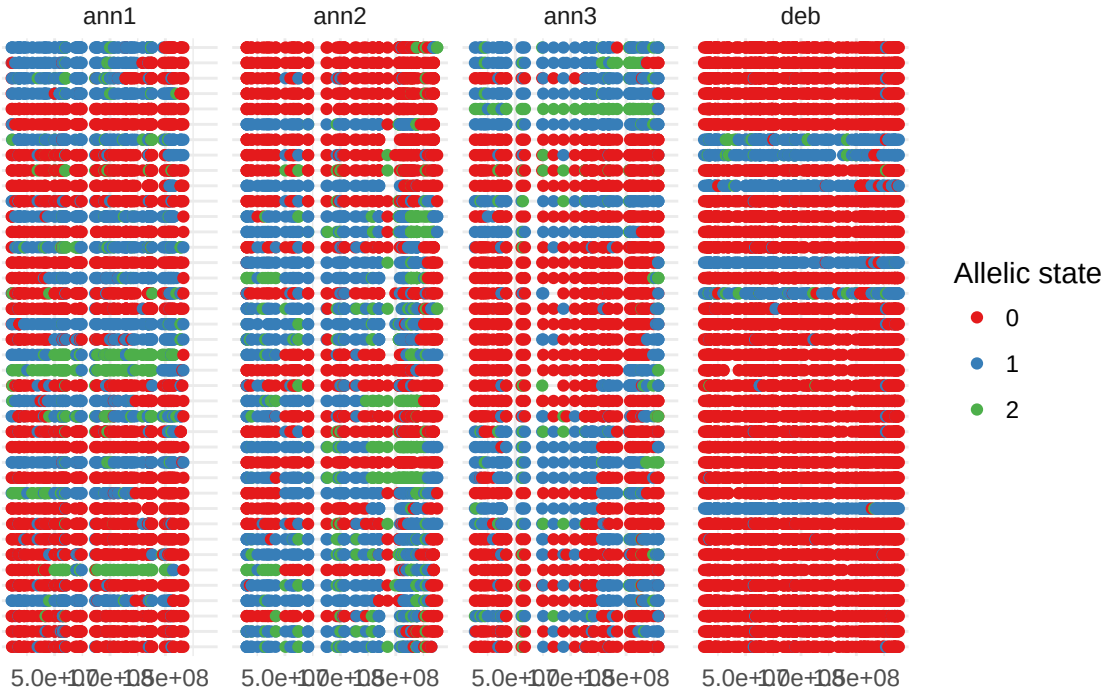
KPC 6 HanXRQChr13

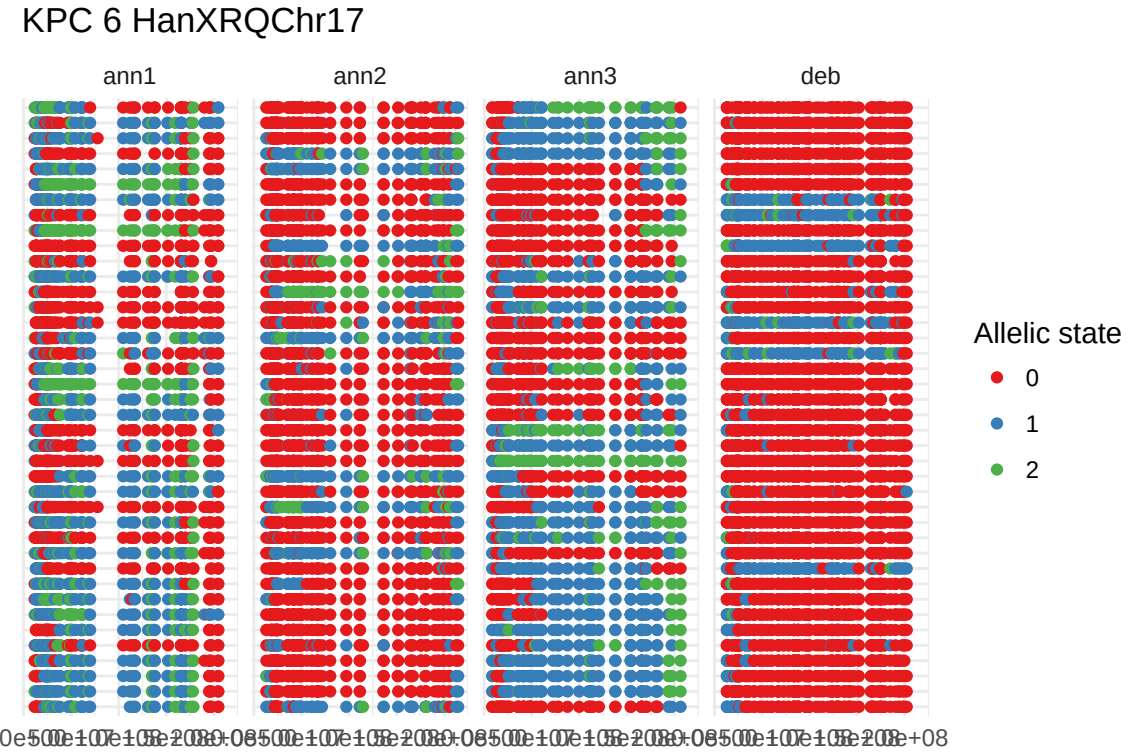



KPC 6 HanXRQChr14
ann1
ann2
ann3
deb
Allelic state
0
1
2

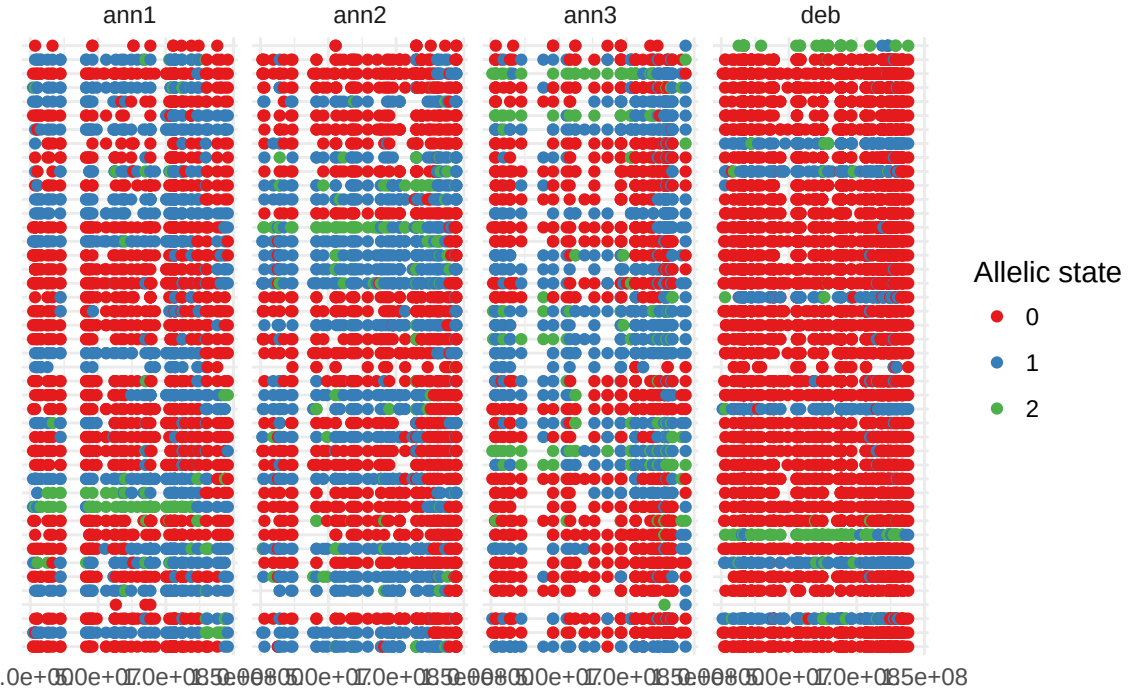

KPC 6 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5
0.0e+1
0.7e+1
0.5e+0
0.8e+5
0.0e+1
0.7e+1
0.5e+0
0.8e+5
0.0e+1
0.7e+1
0.5e+0
0.8e+5
0.0e+1
0.7e+1
0.5e+08

KPC 6 HanXRQChr16

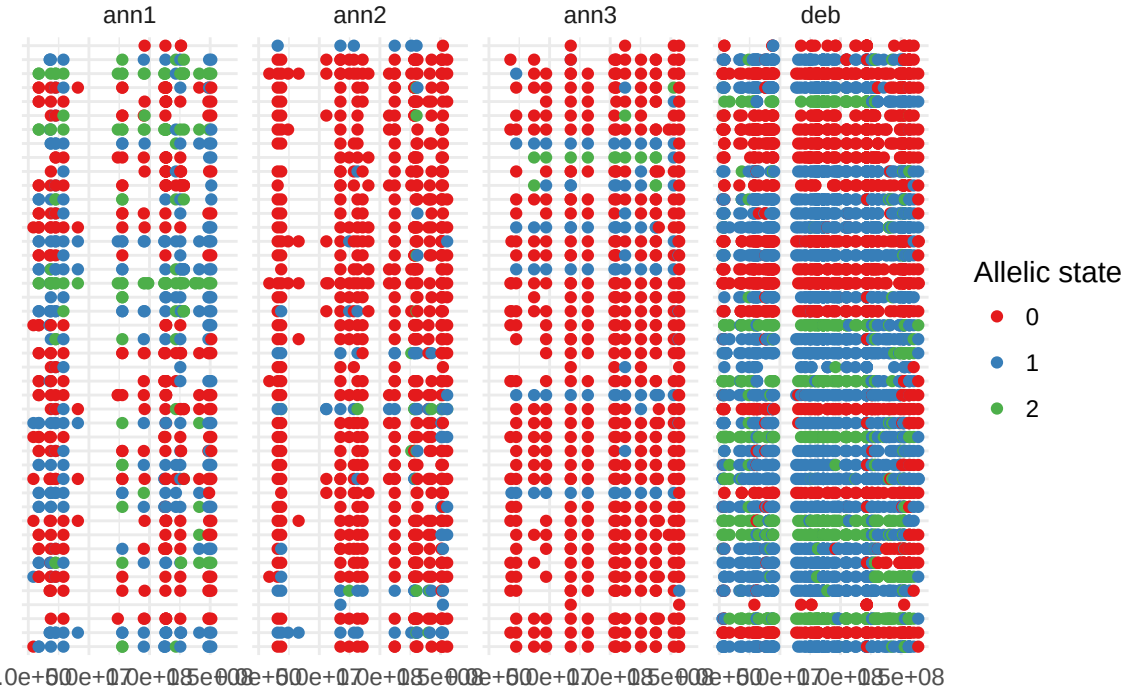


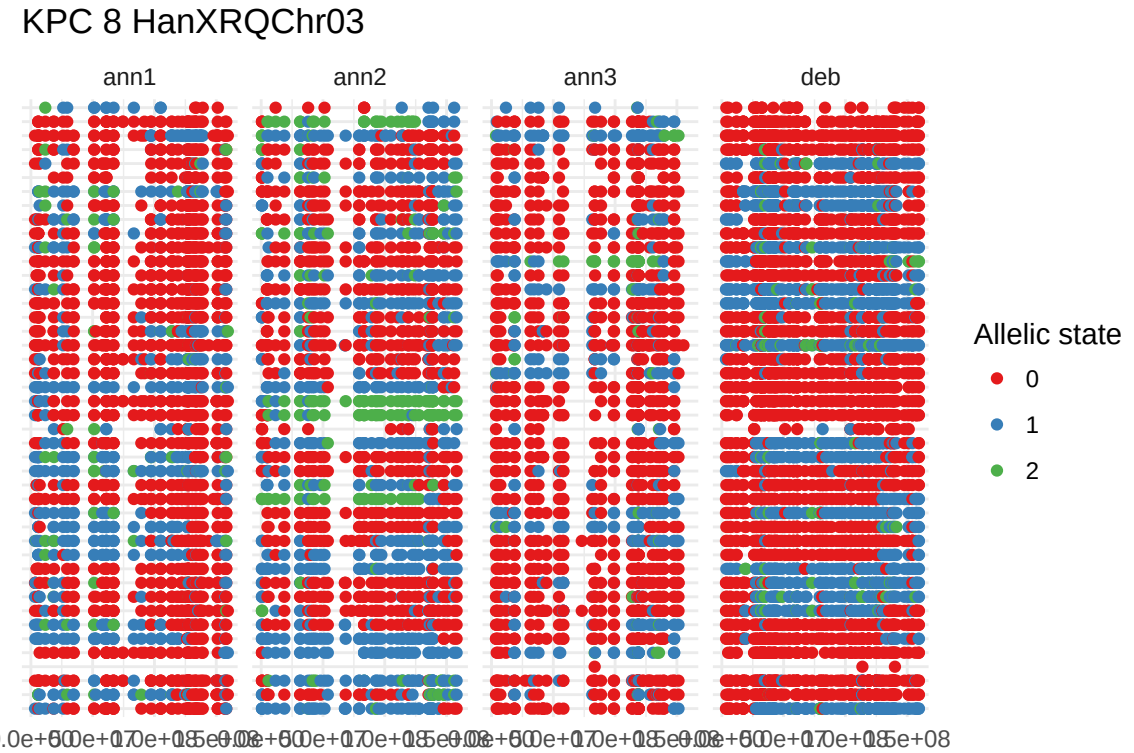

KPC 6 HanXRQChr17
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 8 HanXRQChr01



KPC 8 HanXRQChr02

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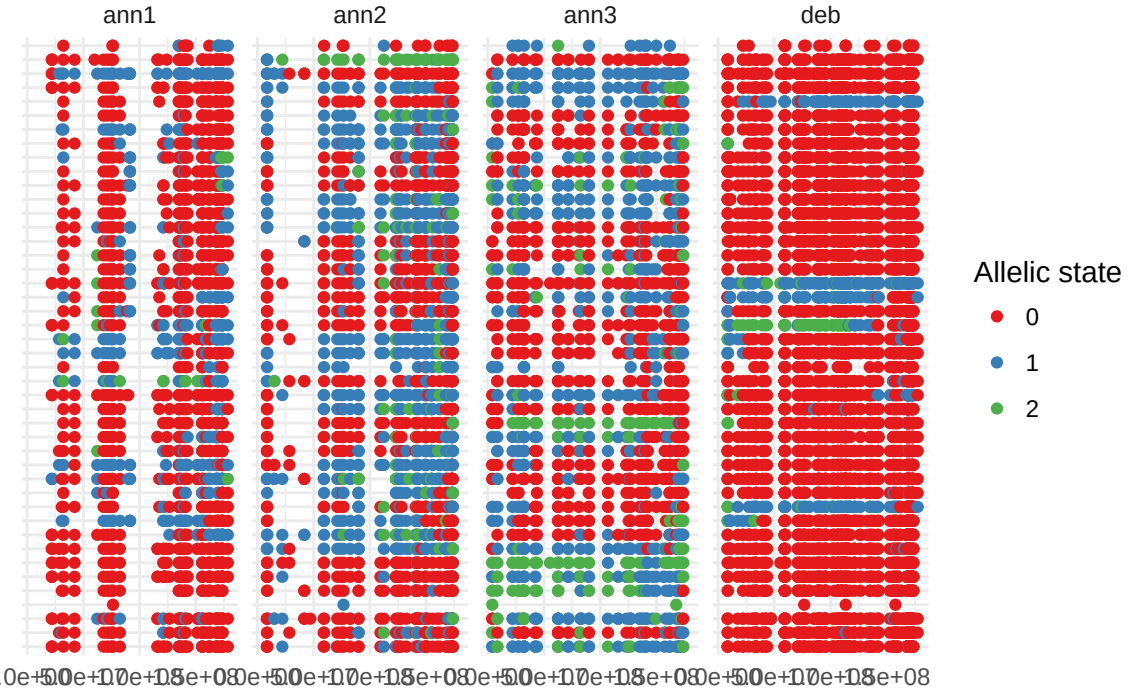
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 8 HanXRQChr04



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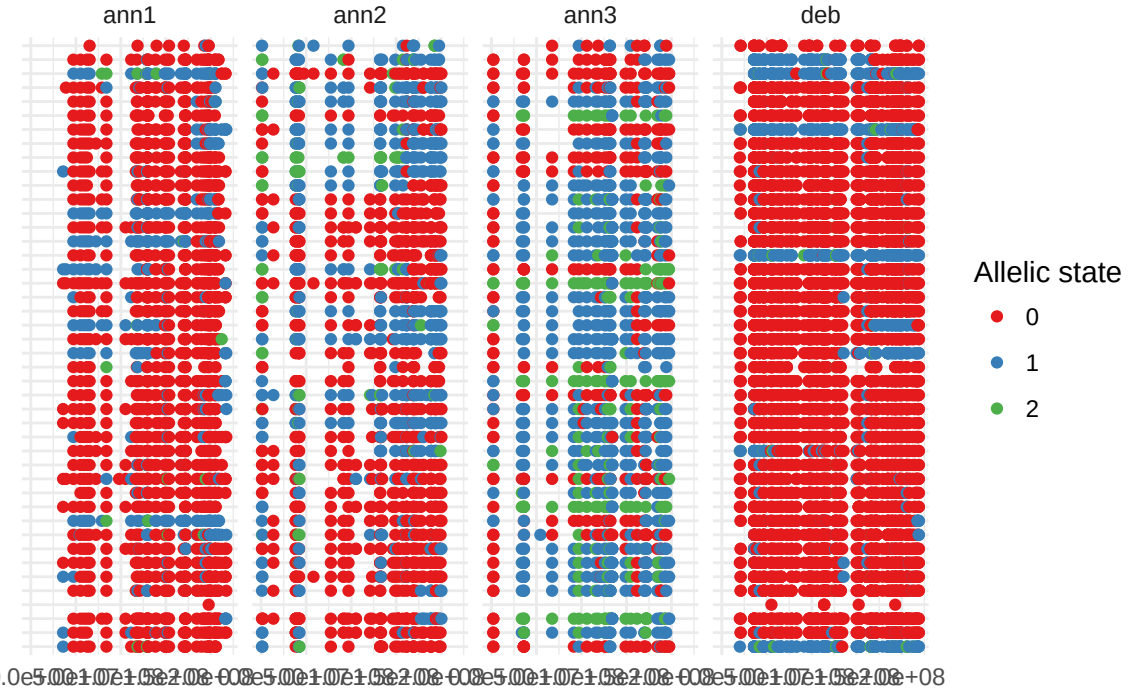

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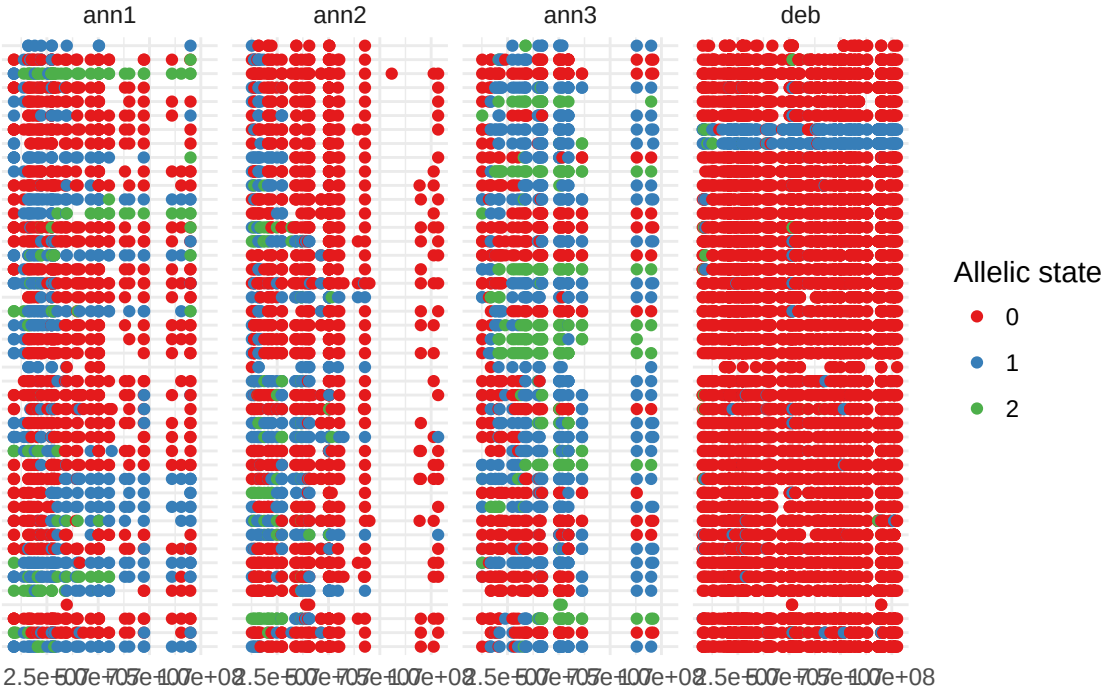

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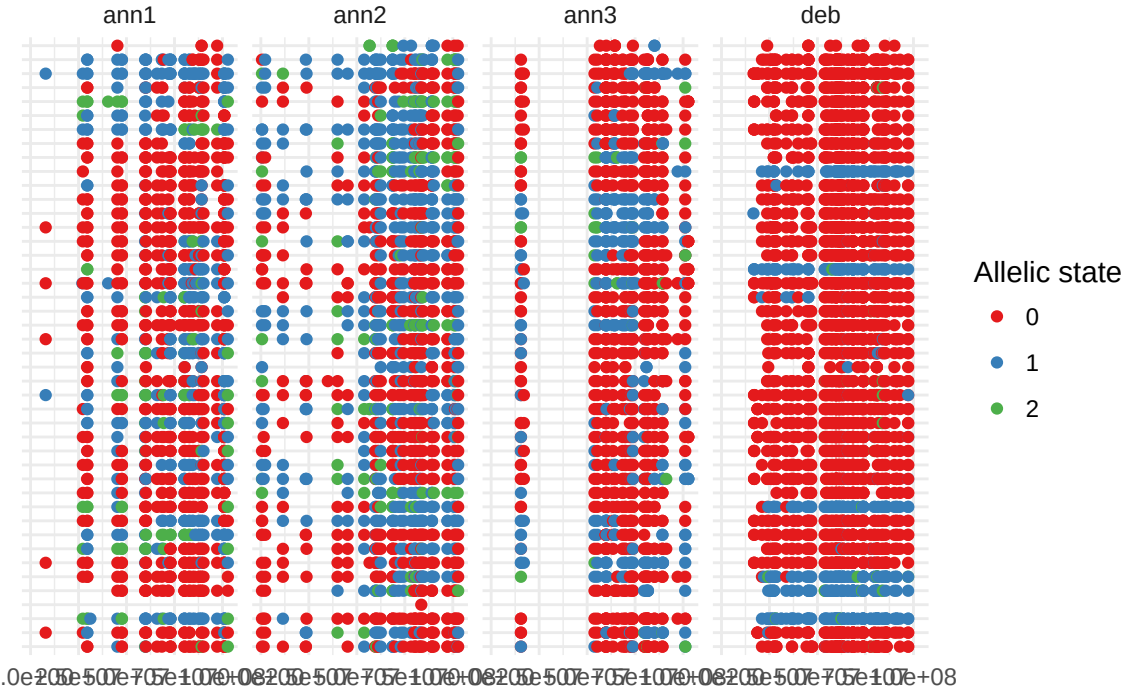

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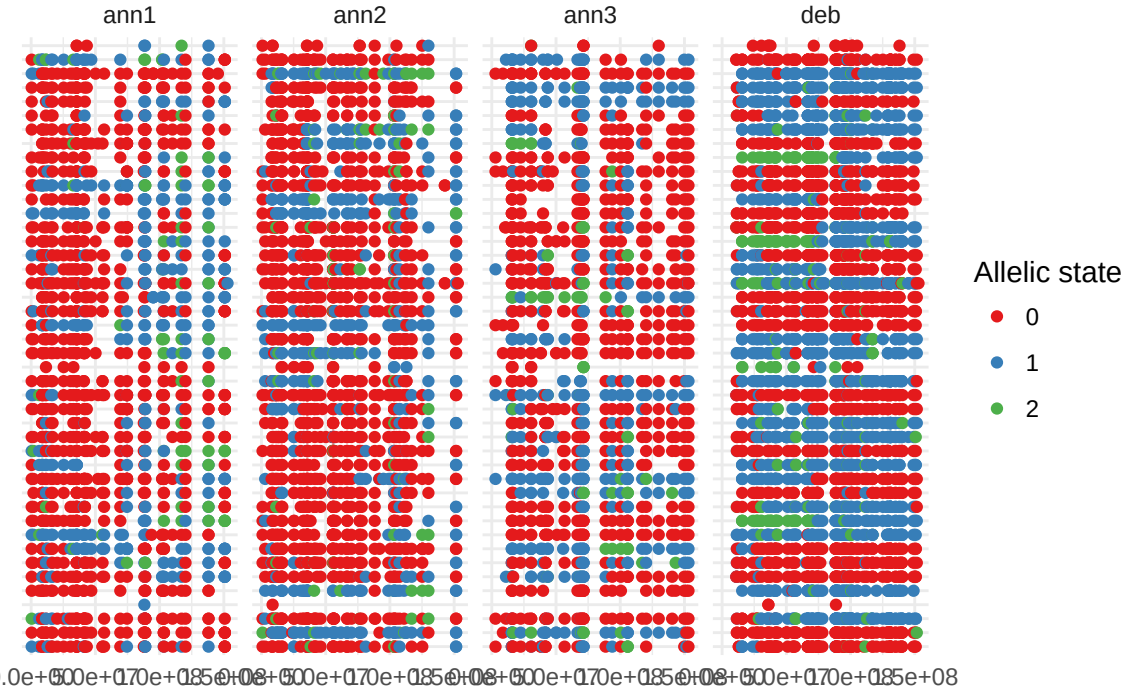
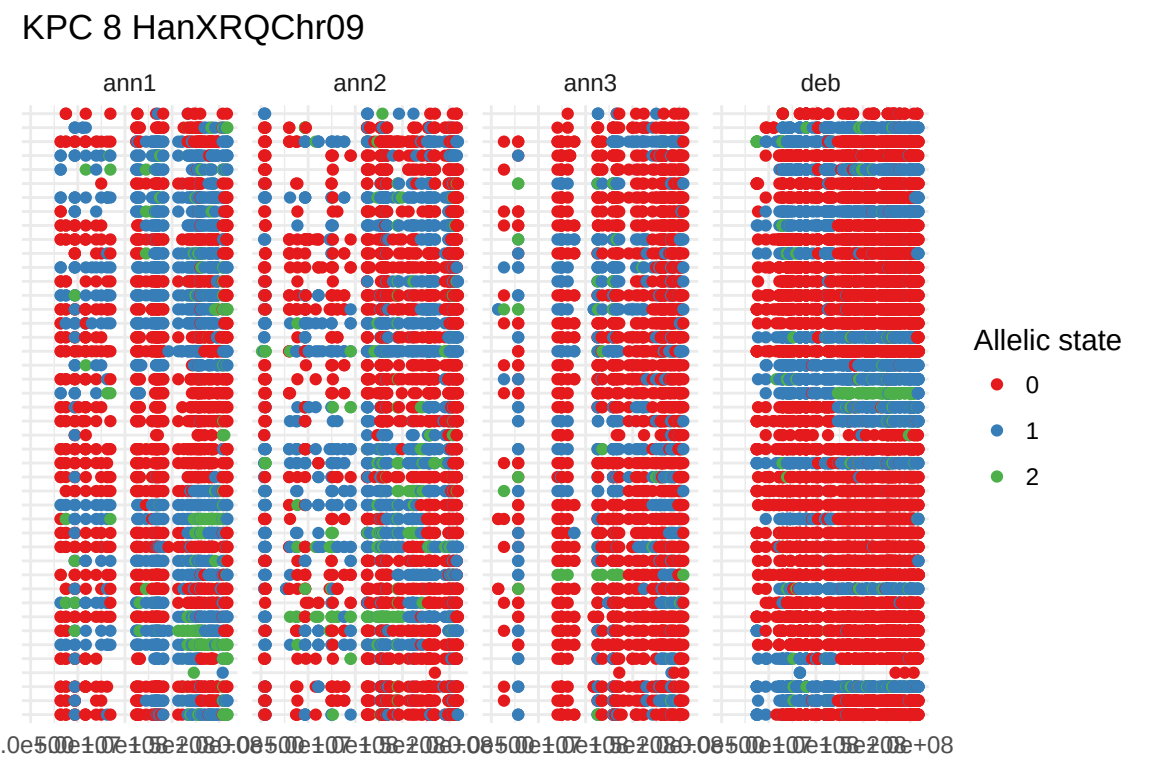
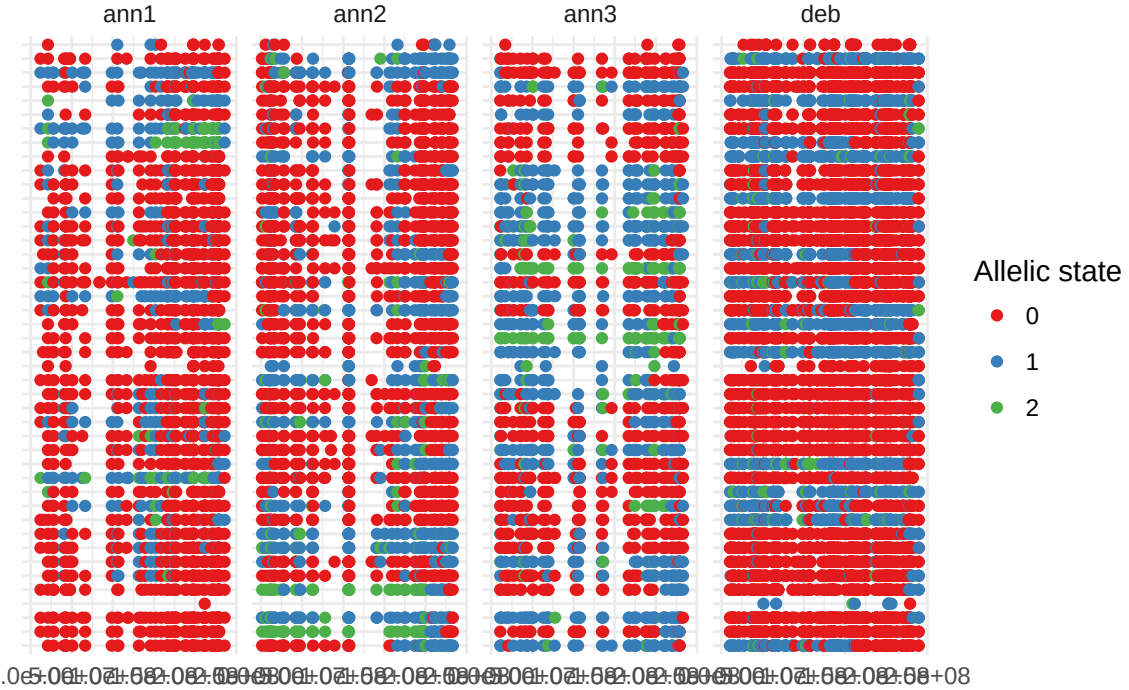



KPC 8 HanXRQChr09
ann1
ann2
ann3
deb
Allelic state
0
1
2

KPC 8 HanXRQChr10



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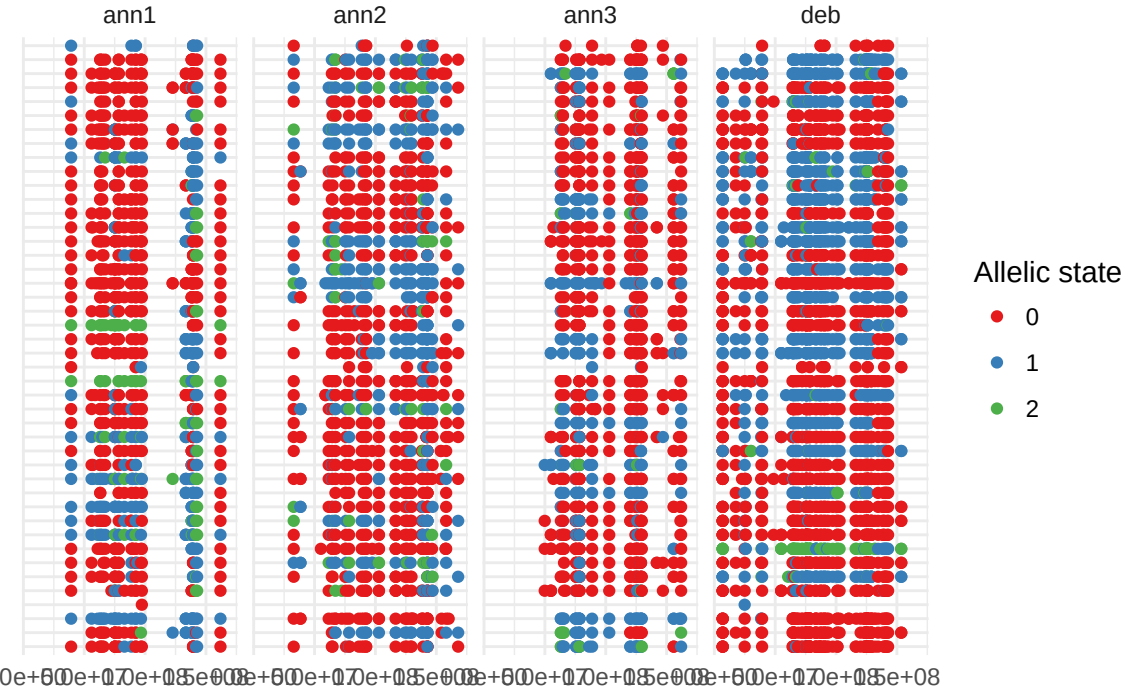

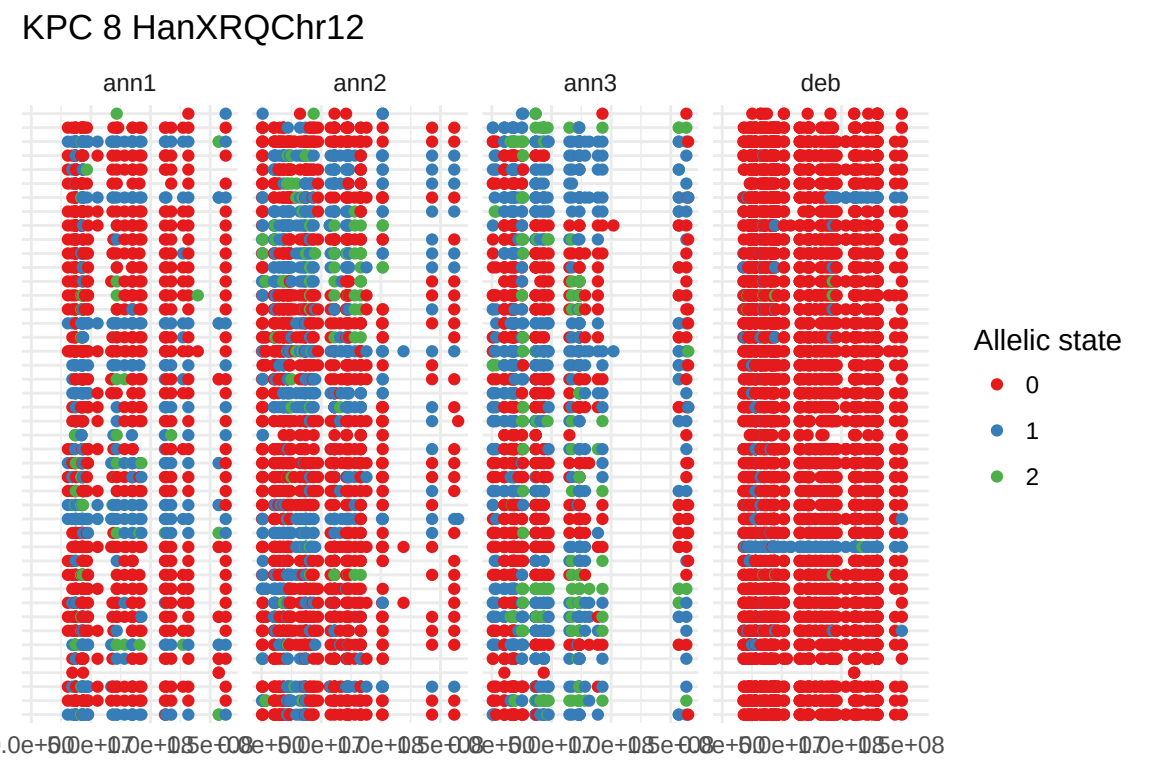
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ann1
ann2
ann3
deb
Allelic state
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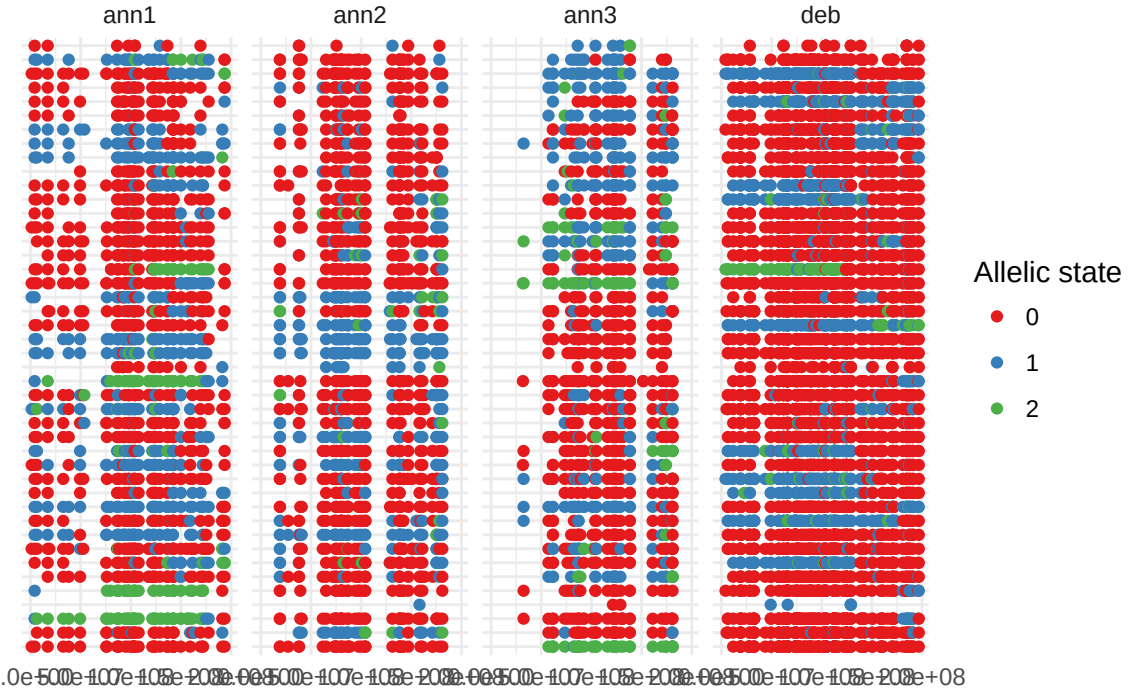
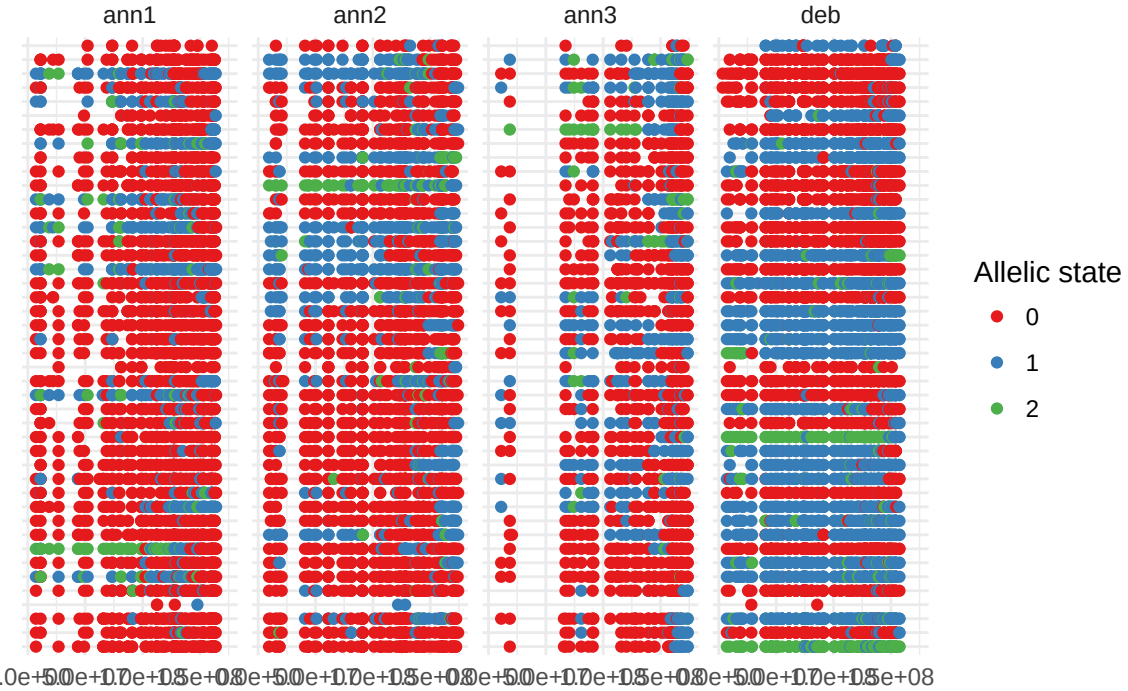
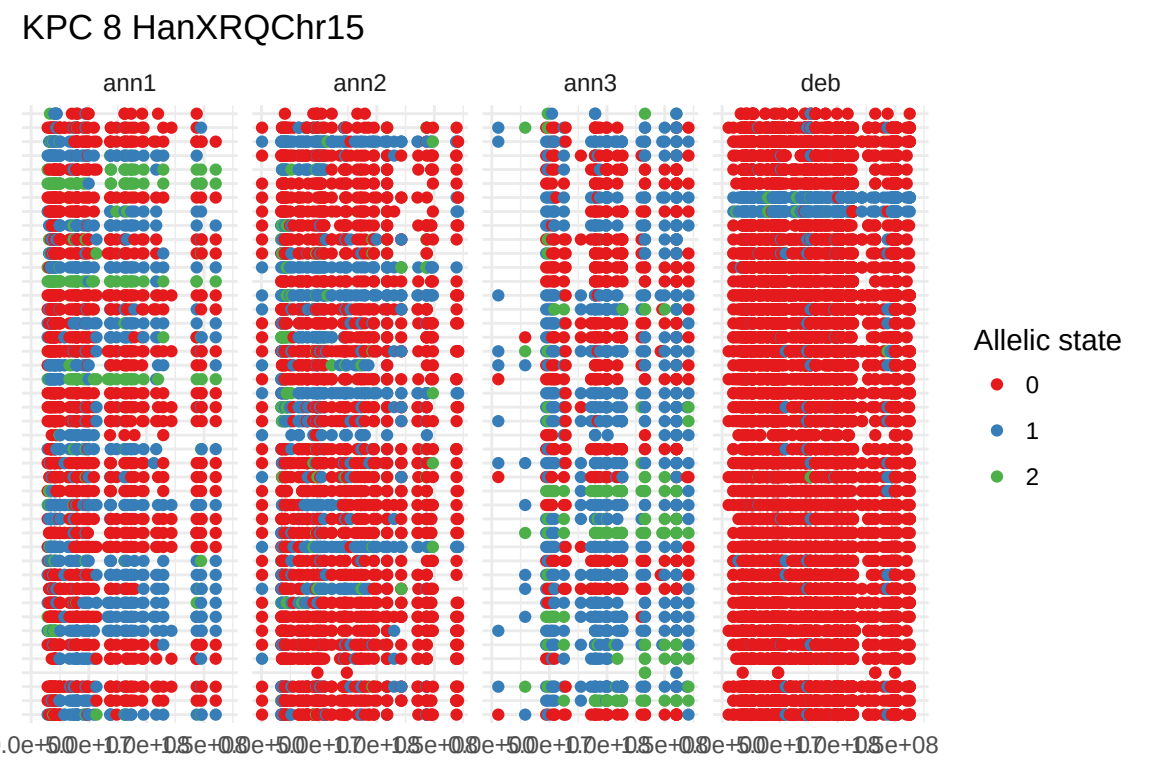
1
2

KPC 8 HanXRQChr13



KPC 8 HanXRQChr14




KPC 8 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
0
1
2
.0e+5
0.0e+1
7.7e+1
5.5e+0
8.8e+5
0.0e+1
7.7e+1
5.5e+0
8.8e+5
0.0e+1
7.7e+1
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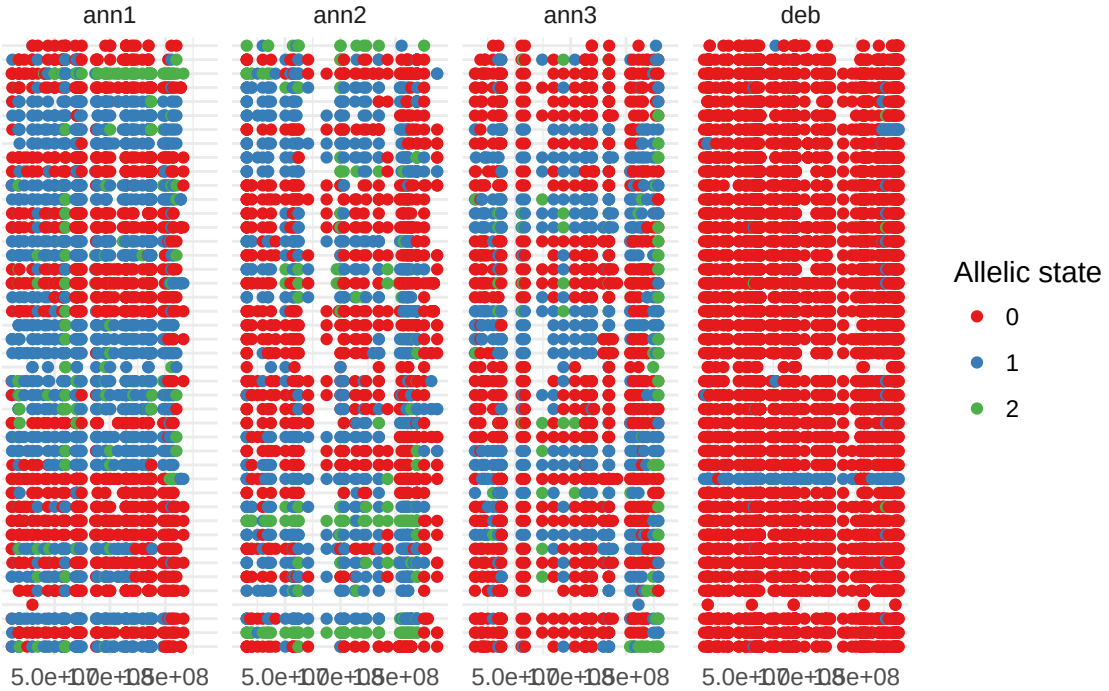
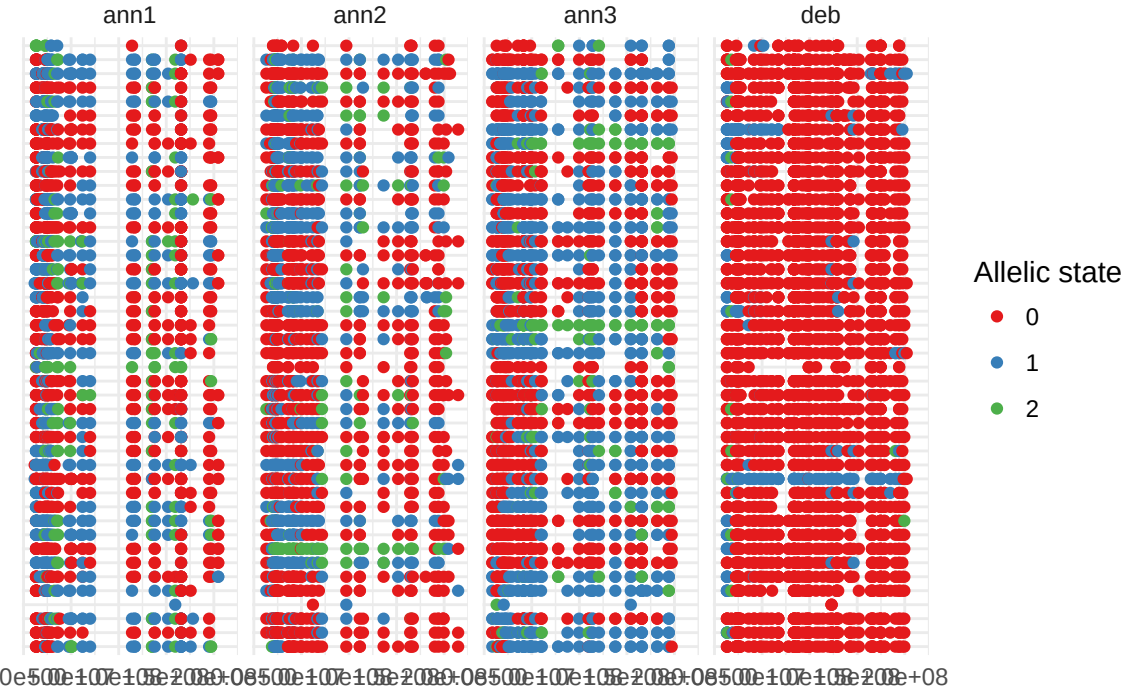
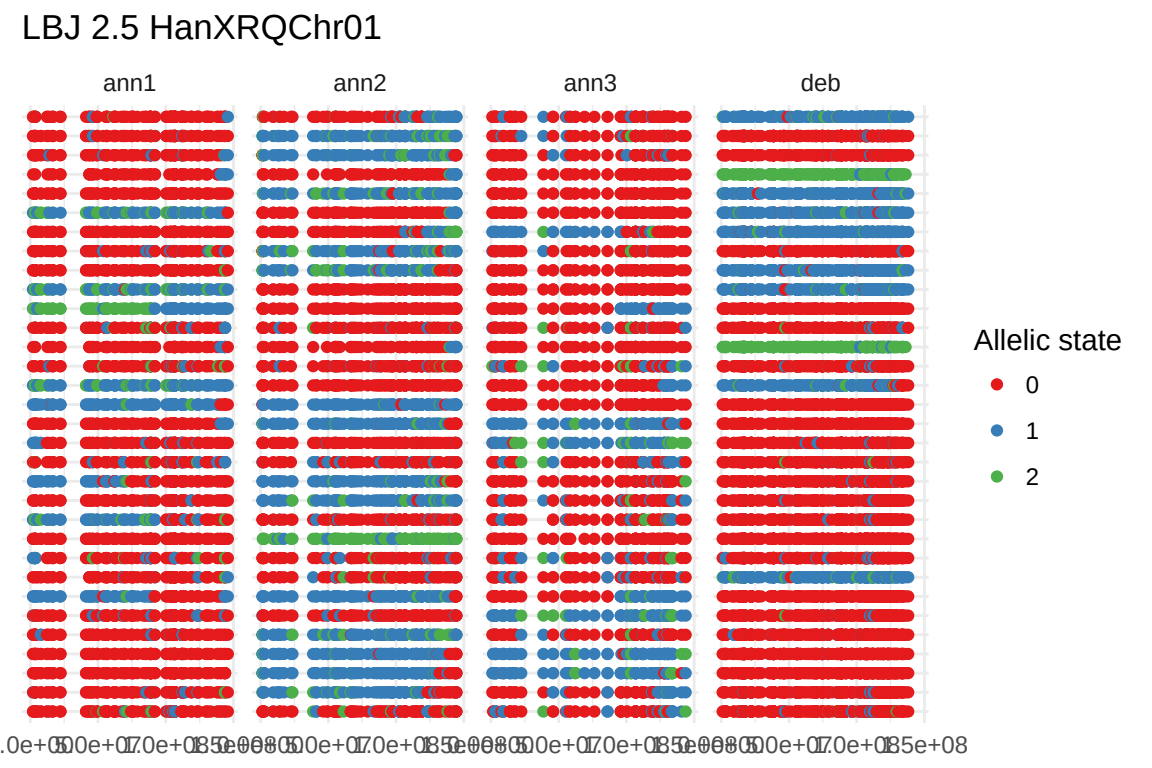
0.0e+1
7.7e+1
5.5e+0
8.8e+08

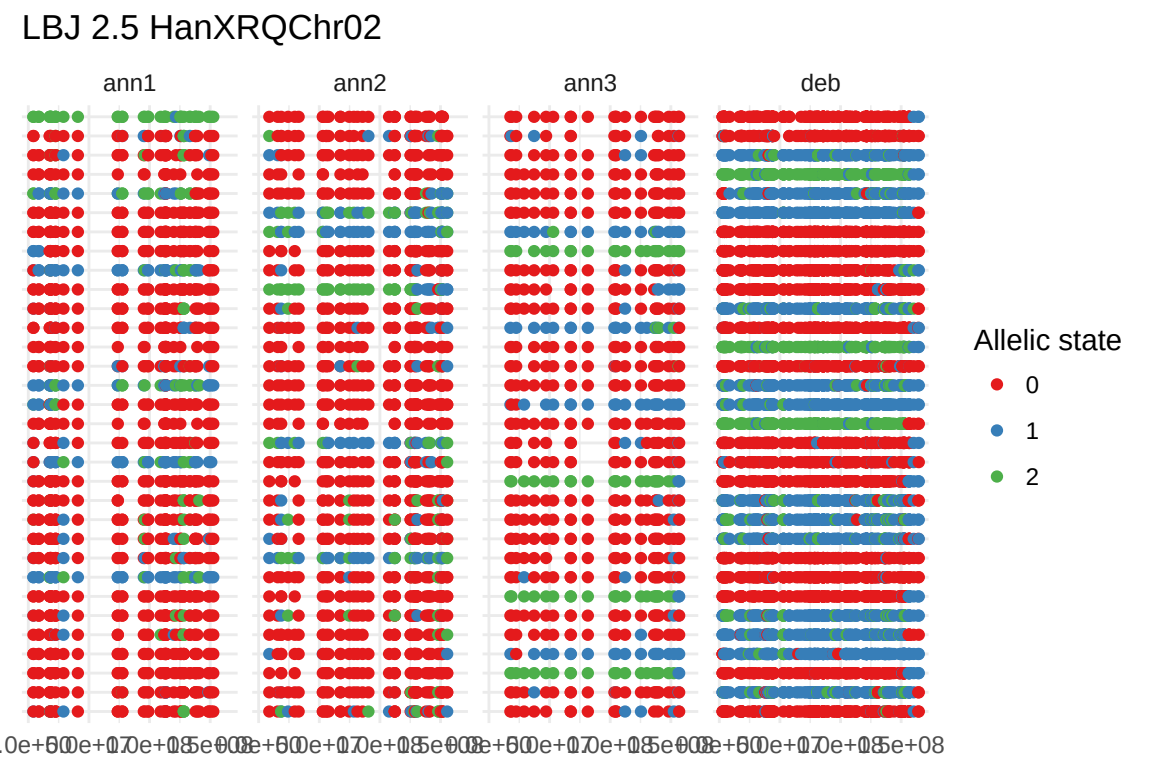
KPC 8 HanXRQChr16



KPC 8 HanXRQChr17




LBJ 2.5 HanXRQChr01
ann1
ann2
ann3
deb
Allelic state
0
1
2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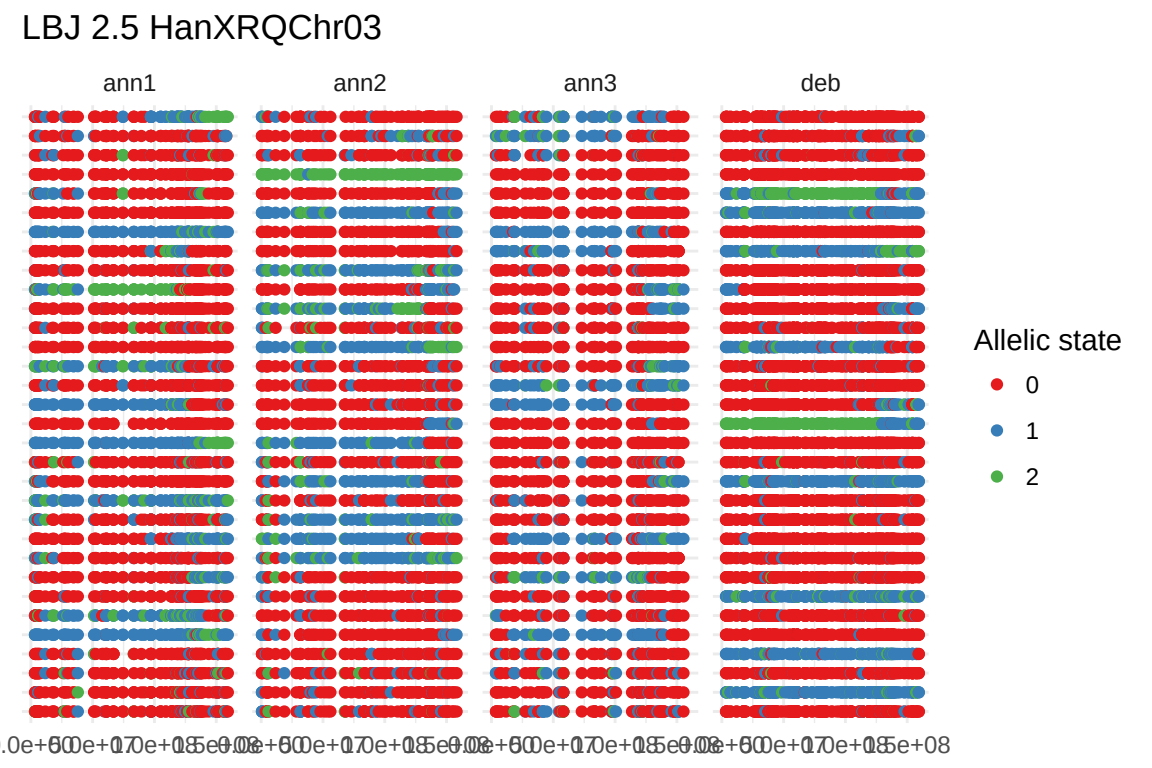
ann1
ann2
ann3
deb
Allelic state
0
1
2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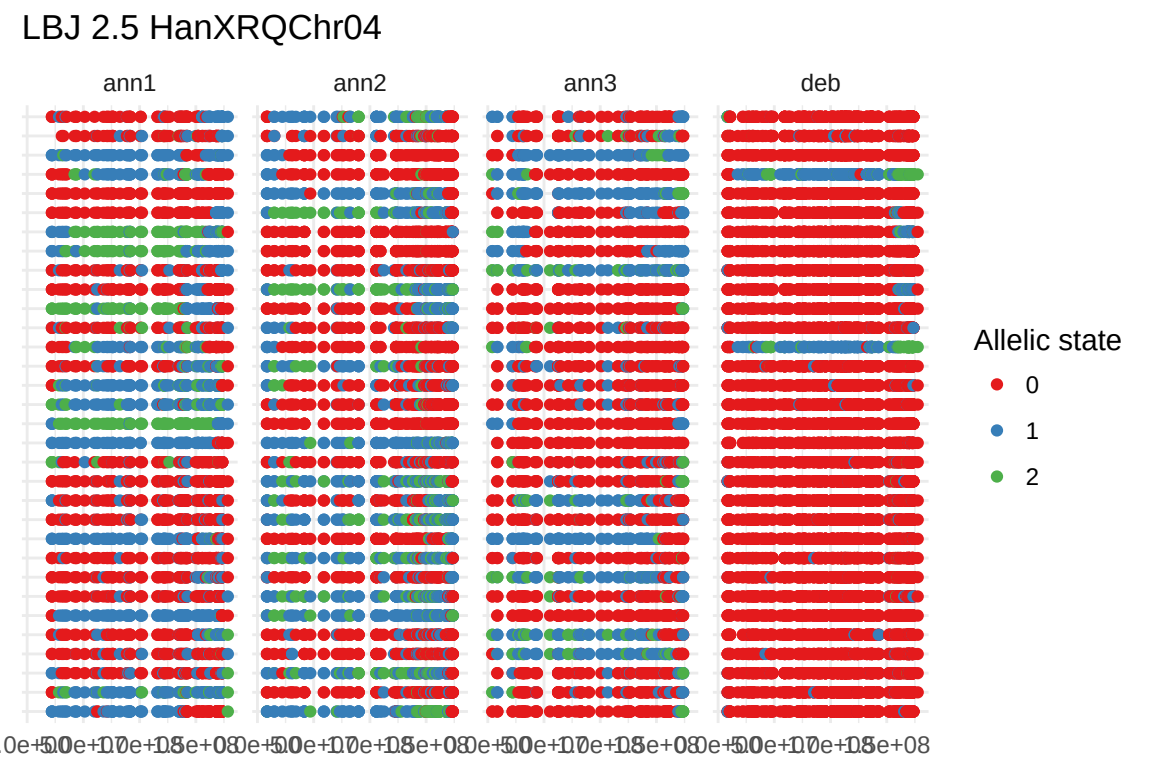
ann1
ann2
ann3
deb
Allelic state
0
1
2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ann2
ann3
deb
Allelic state
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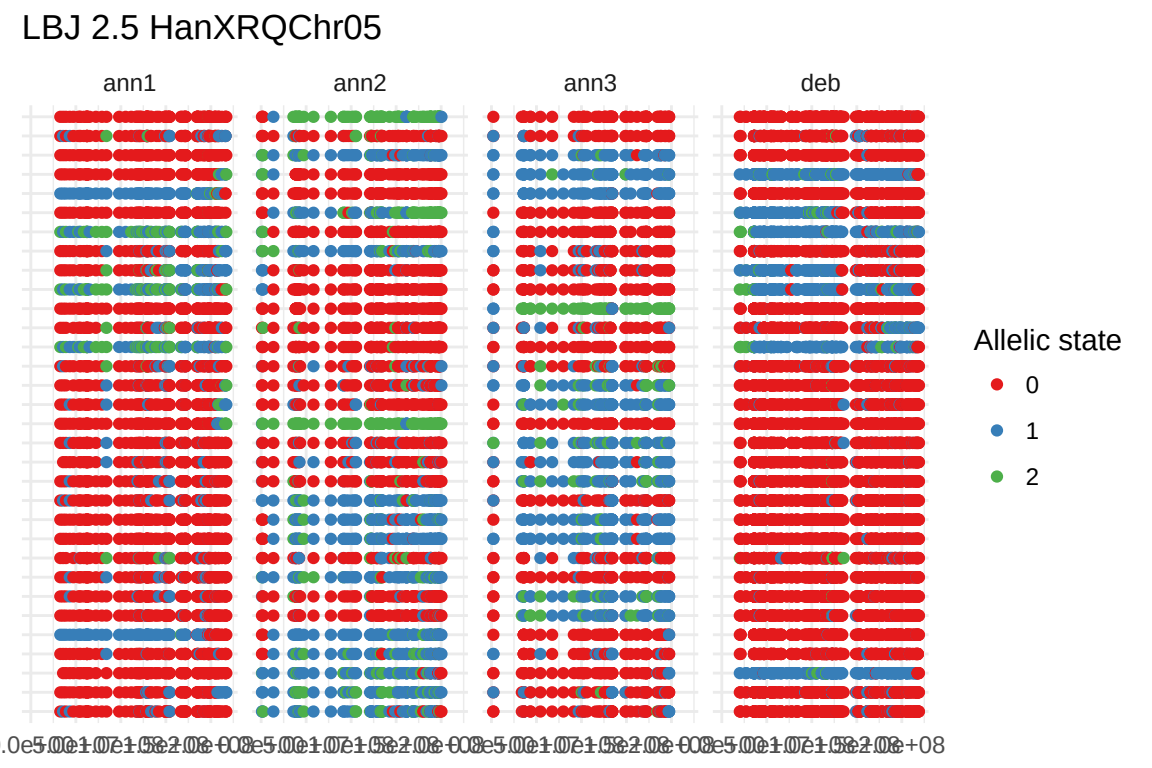
1
2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ann2
ann3
deb
Allelic state
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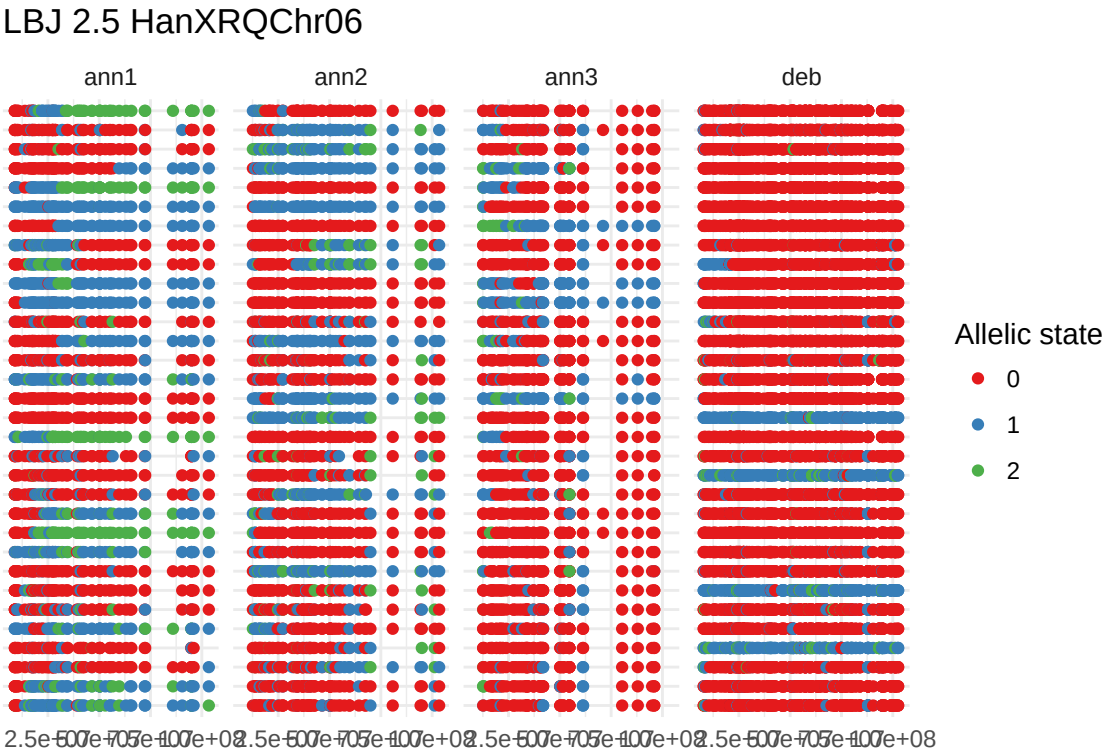
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ann2
ann3
deb
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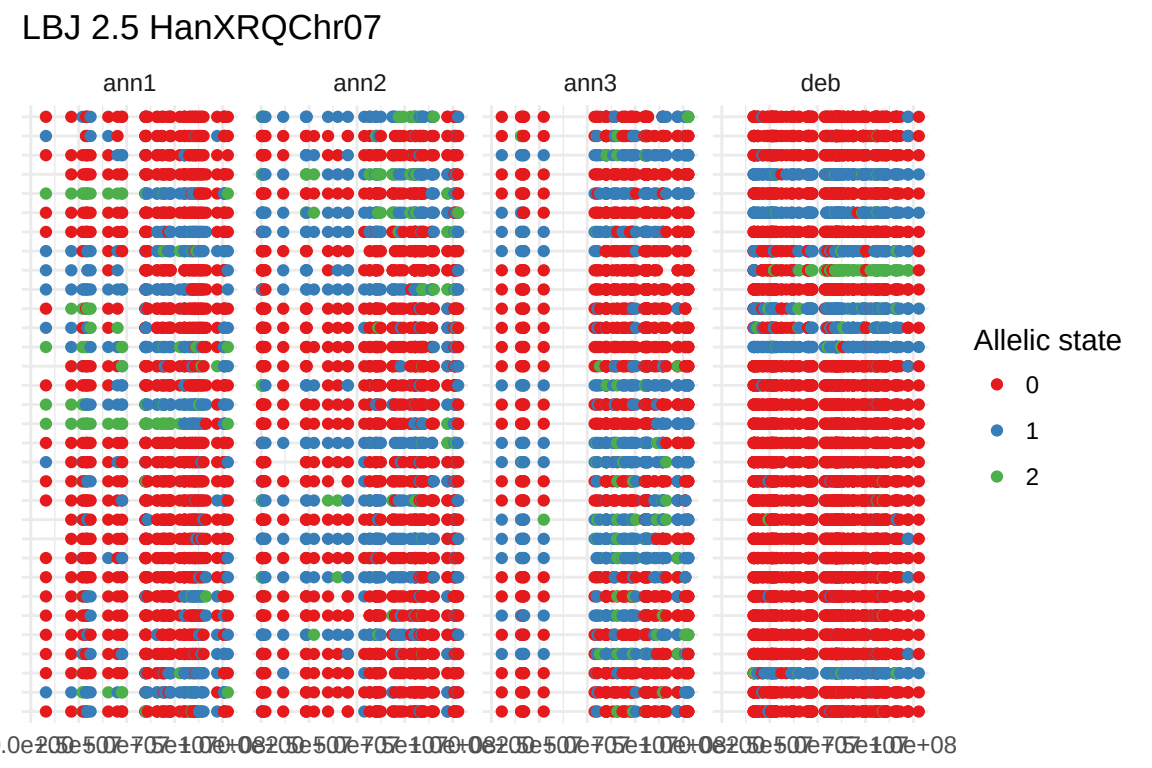
5.0e+07
7.5e+07
1.0e+08
Allelic state
0
1
2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ann2
ann3
deb
Allelic state
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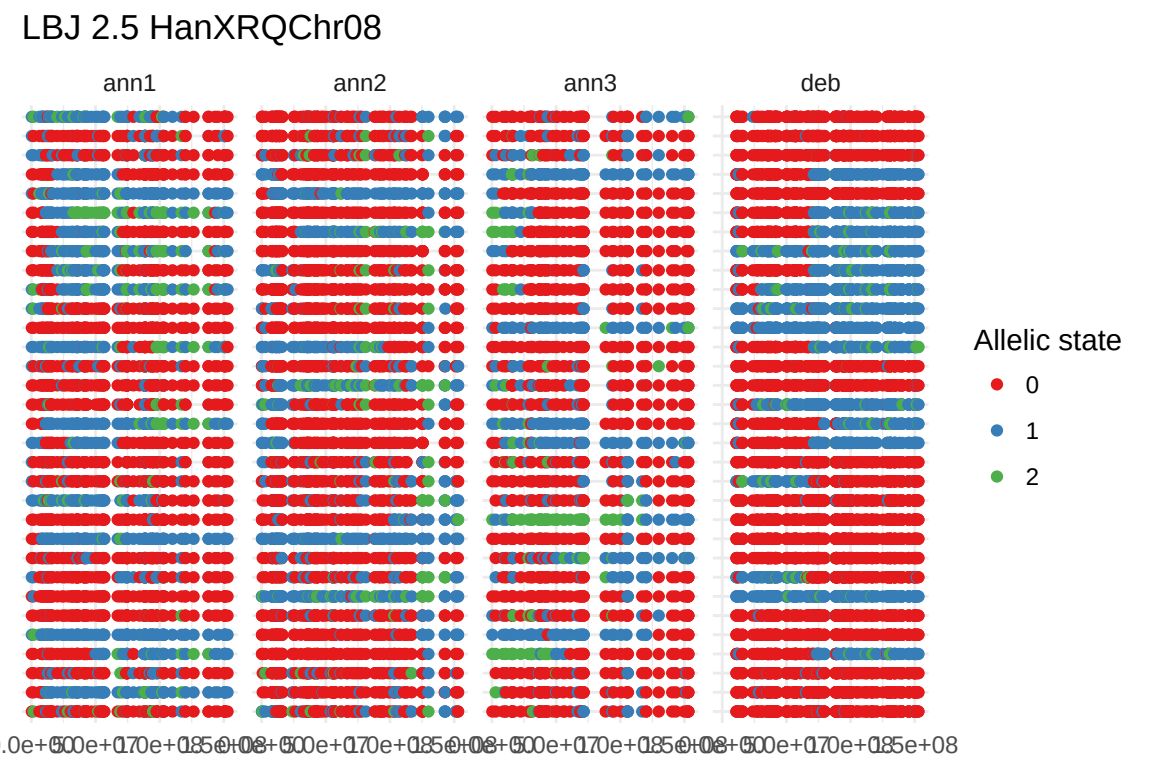
1
2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ann1
ann2
ann3
deb
Allelic state
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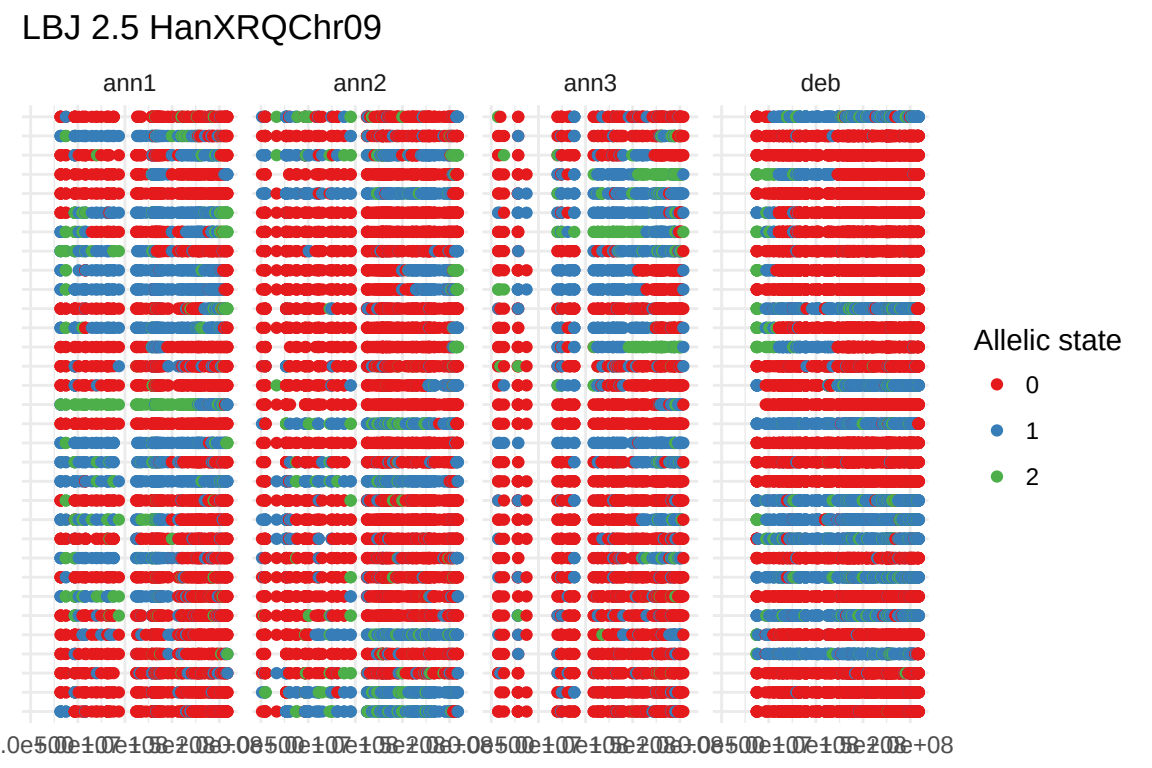
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08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ann2
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1
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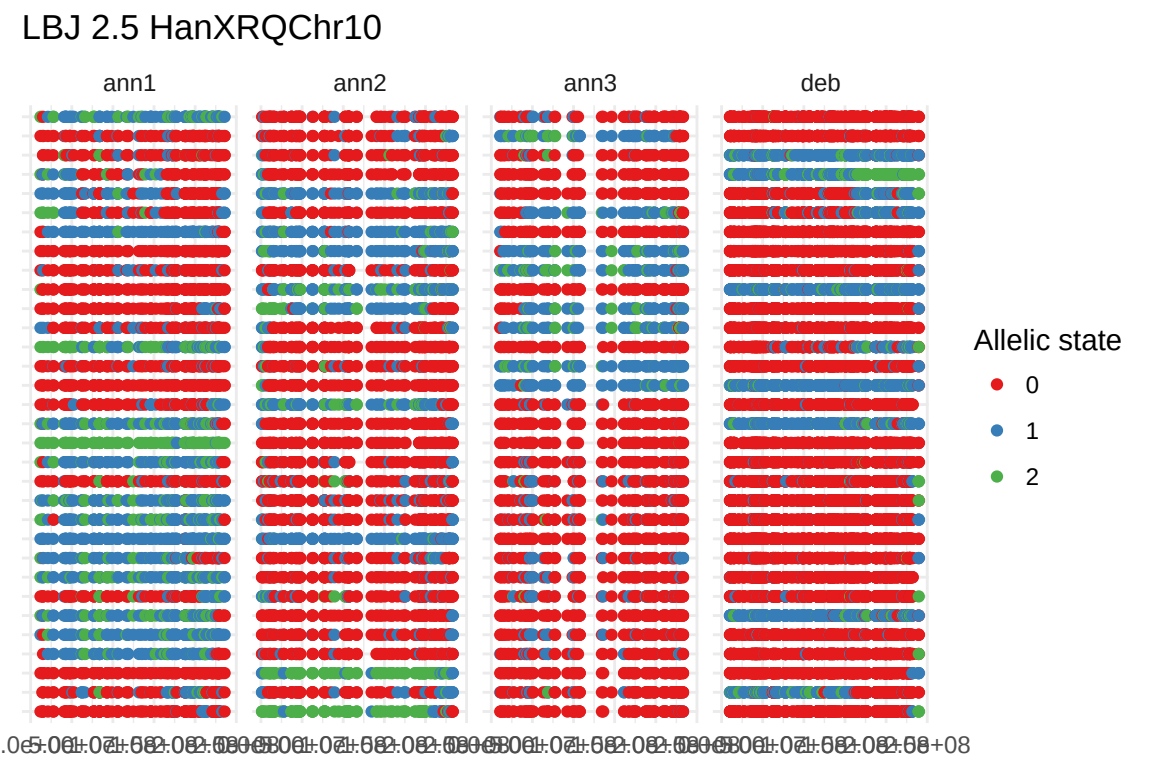
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ann3
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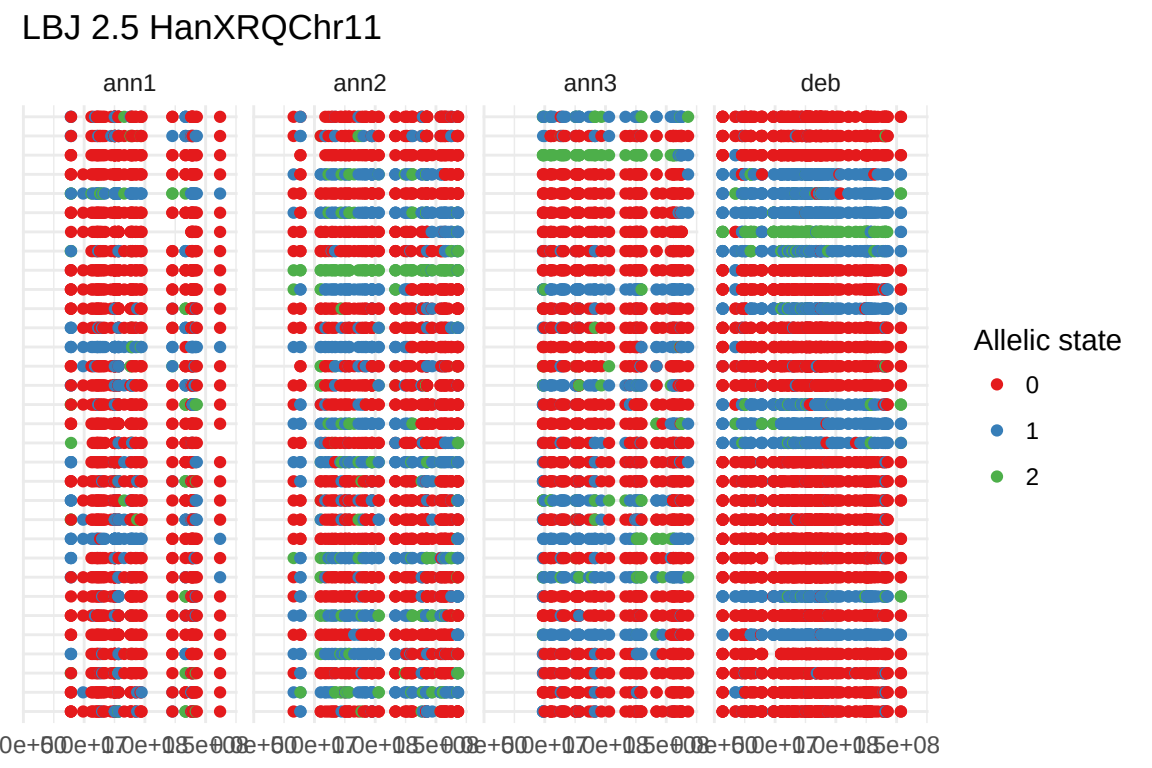
LBJ 2.5 HanXRQChr11
ann1
ann2
ann3
deb
Allelic state
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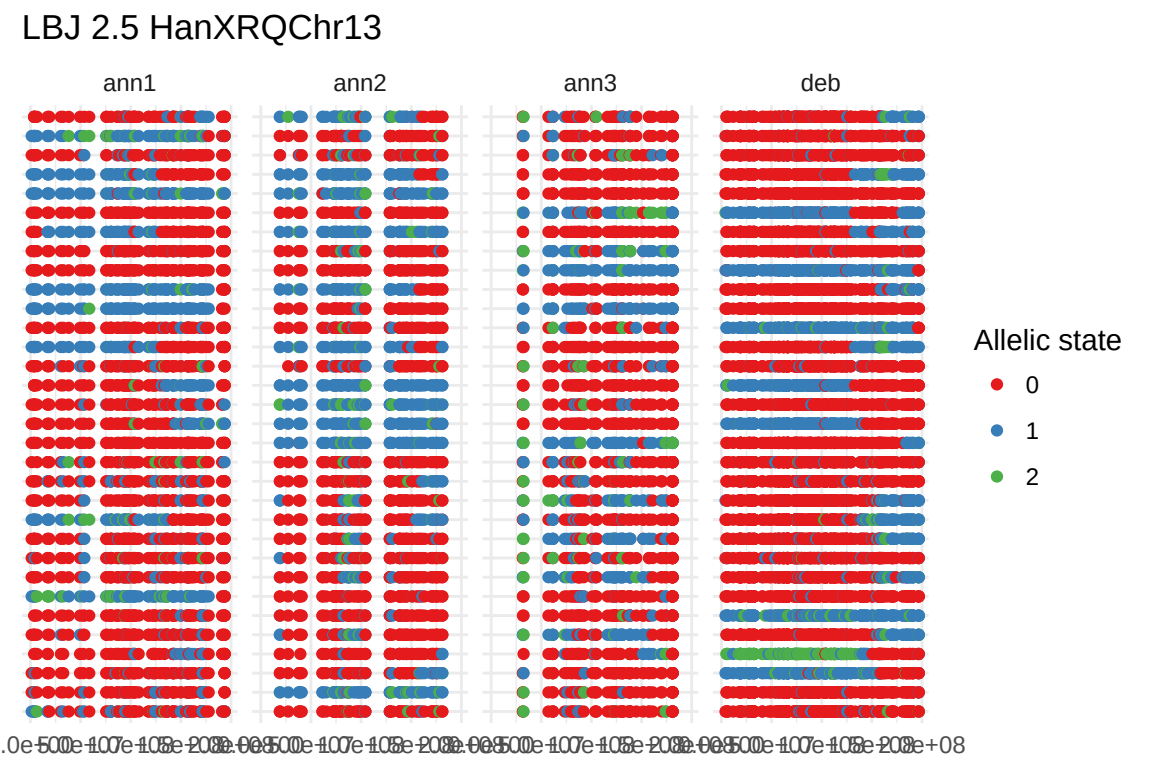
1
2

LBJ 2.5 HanXRQChr12
ann1
ann2
ann3
deb
Allelic state
0
1
2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ann2
ann3
deb
Allelic state
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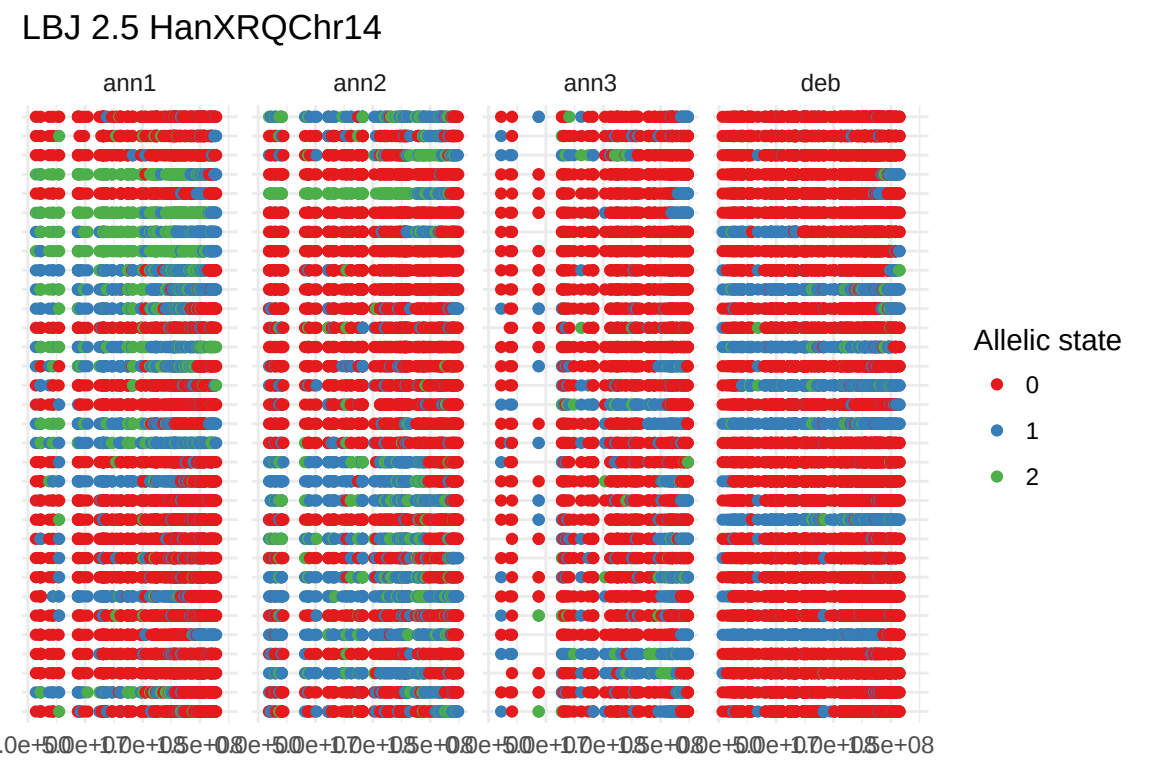
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ann3
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Allelic state
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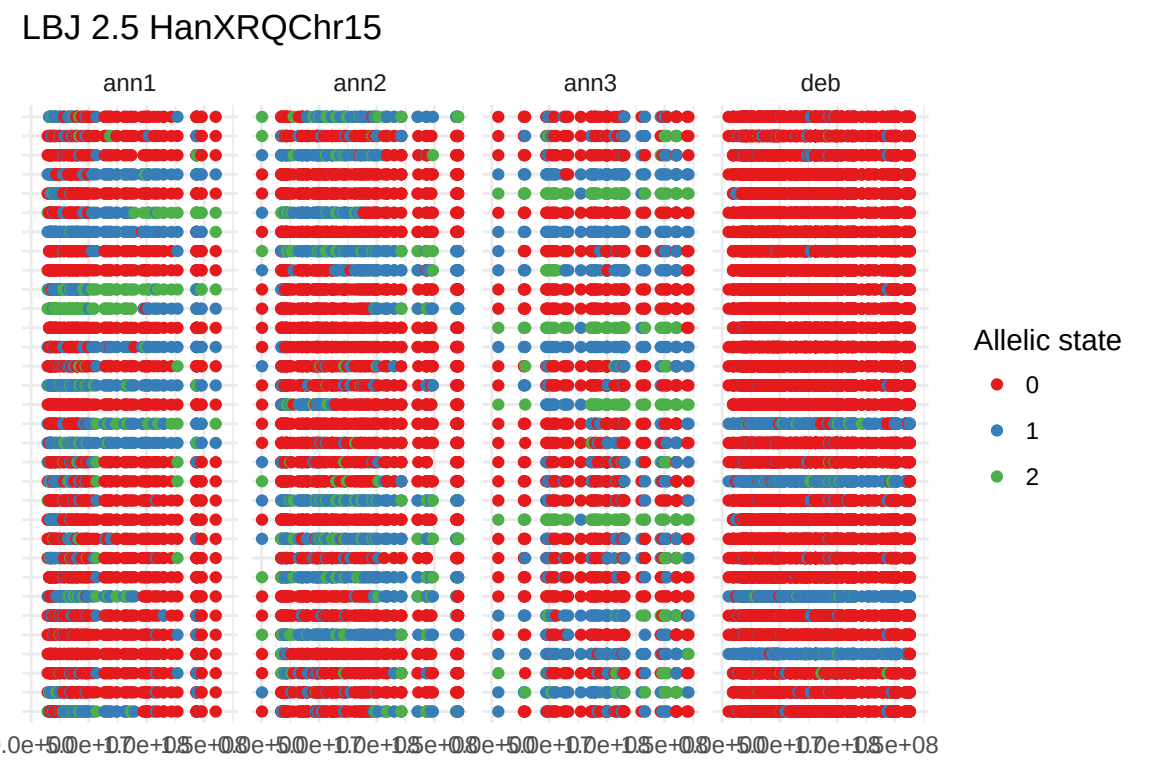
LBJ 2.5 HanXRQChr15
ann1
ann2
ann3
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Allelic state
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1
2
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0.0e+1
0.7e+1
0.5e+8
0.8e+5
0.0e+1
0.7e+1
0.5e+8
0.8e+5
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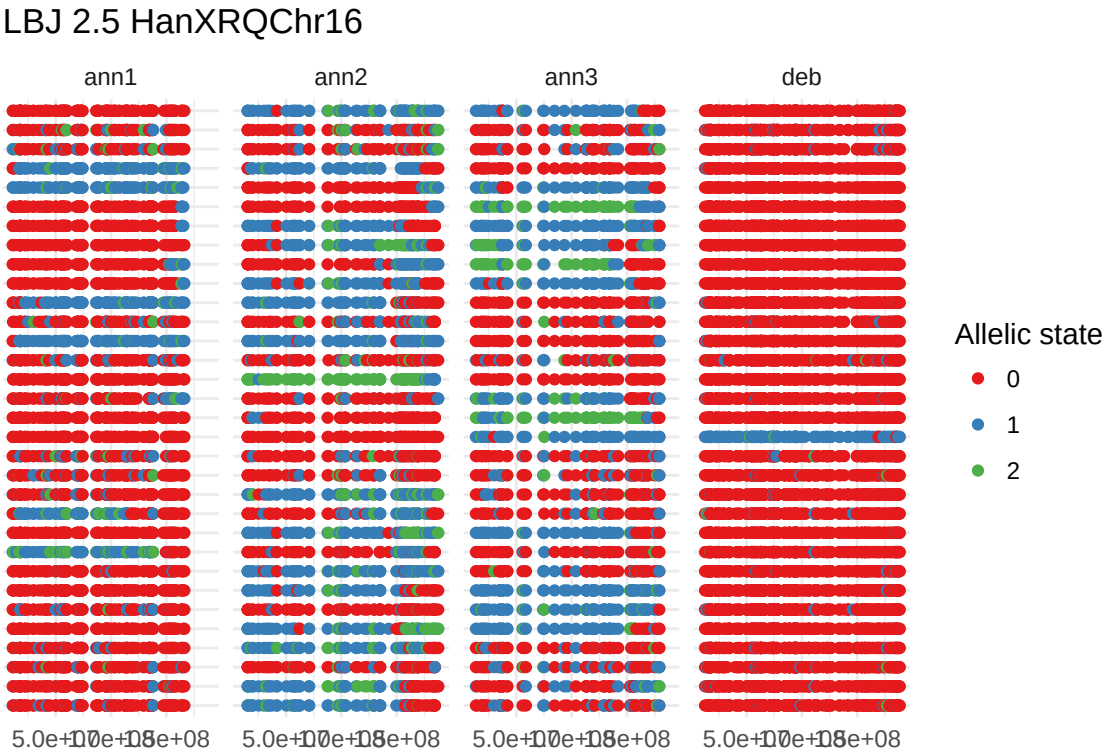
0.5e+8


LBJ 2.5 HanXRQChr16
ann1
ann2
ann3
deb
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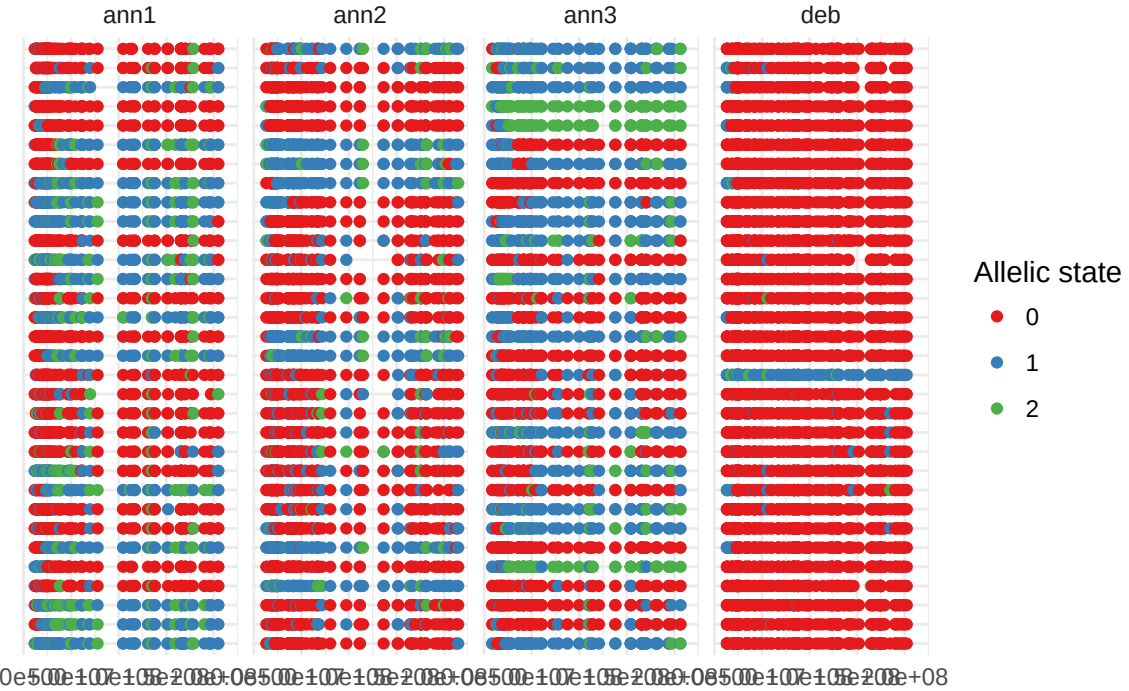
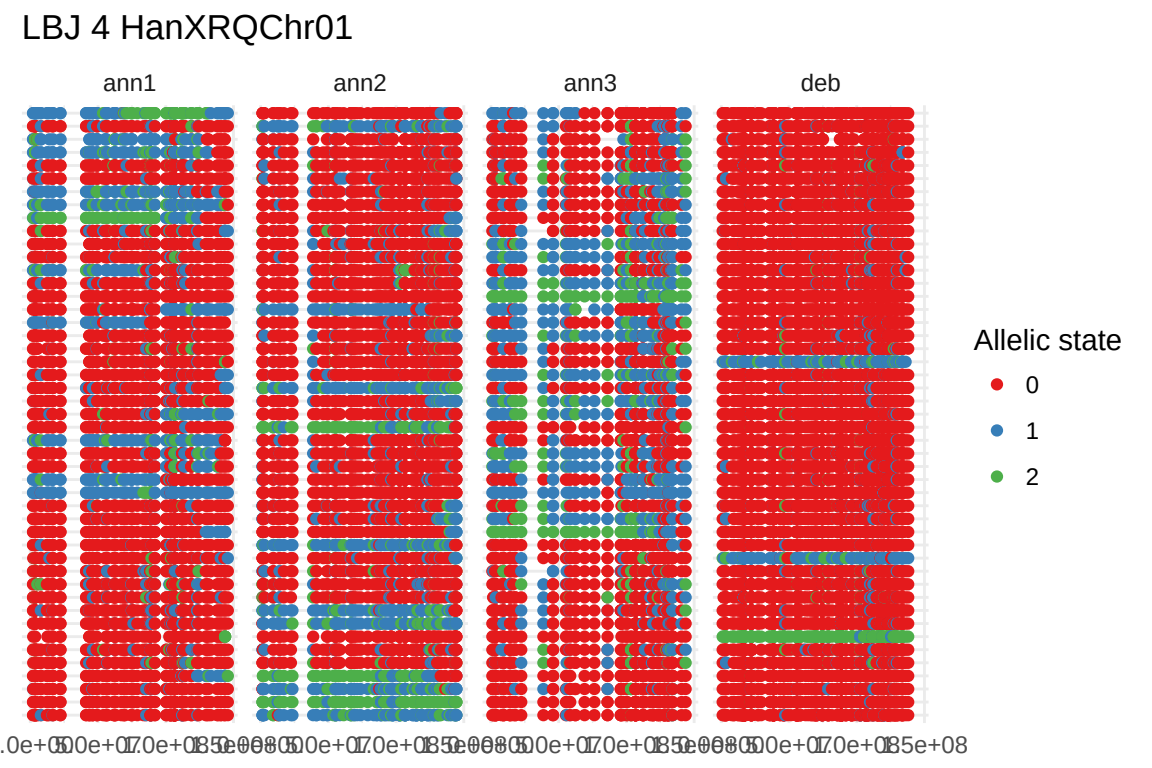
7.0e+07
9.0e+07
Allelic state
0
1
2

LBJ 2.5 HanXRQChr17

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ann3
deb
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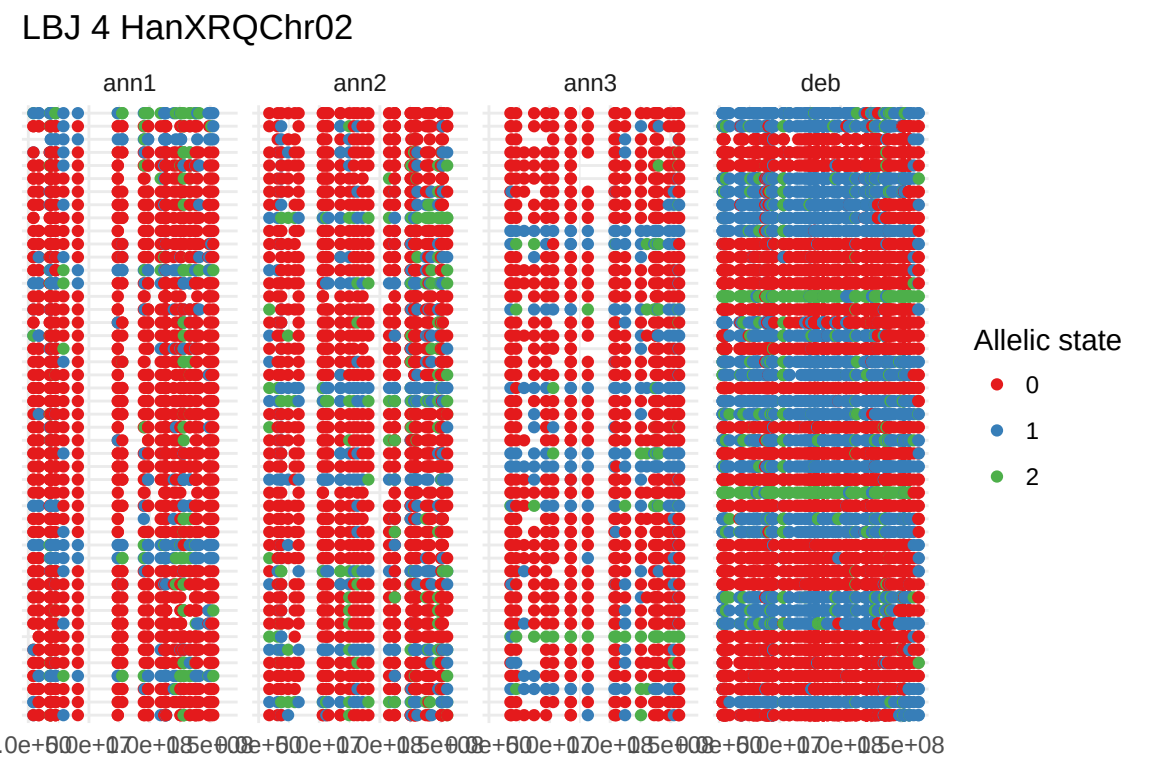
1
2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ann1
ann2
ann3
deb
Allelic state
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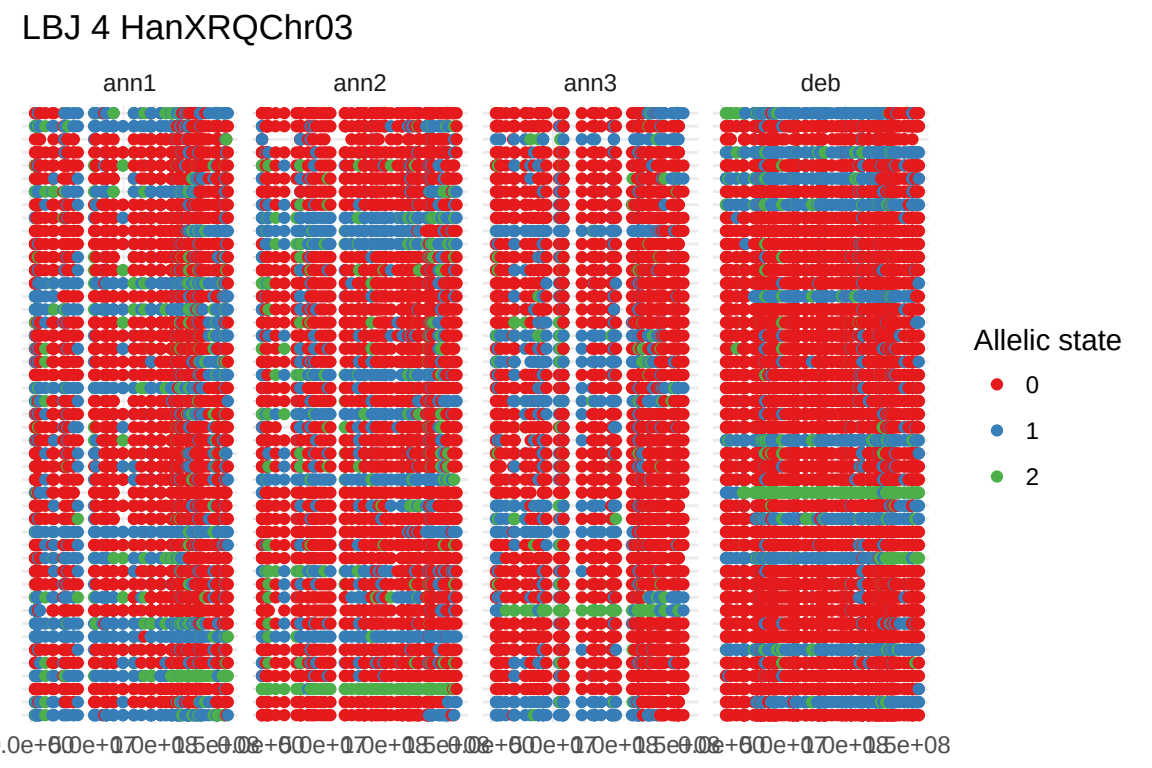
1
2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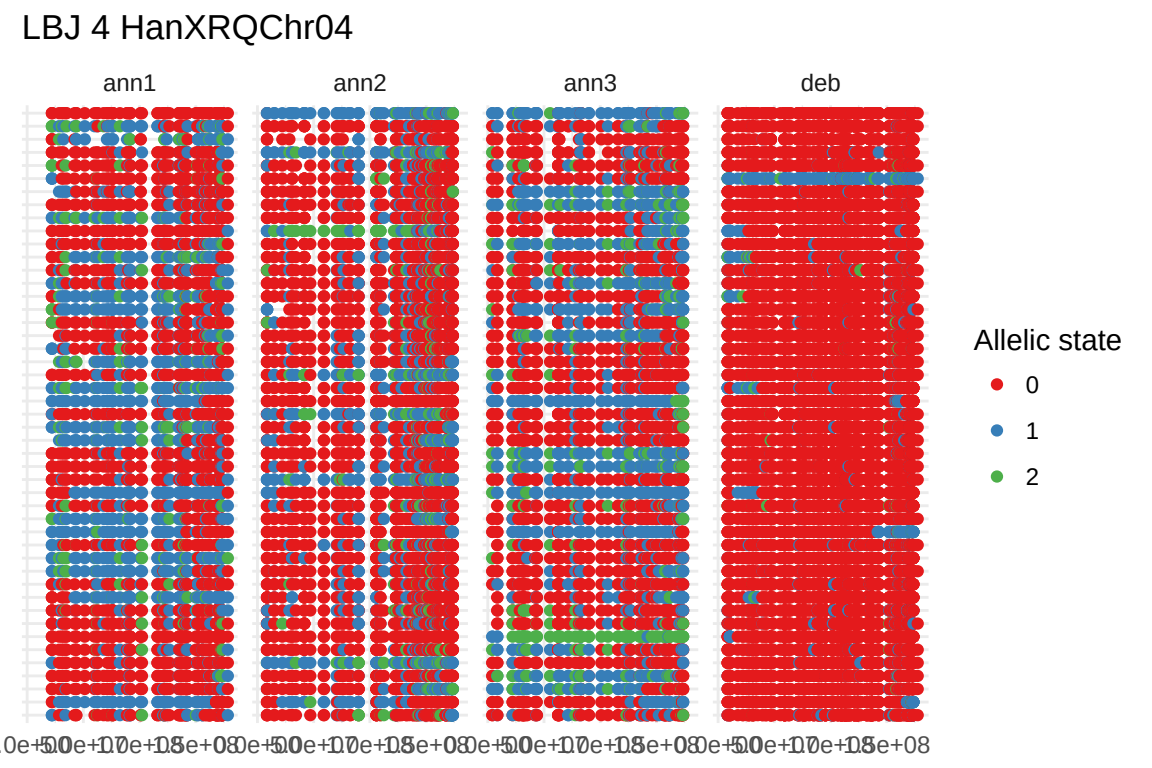
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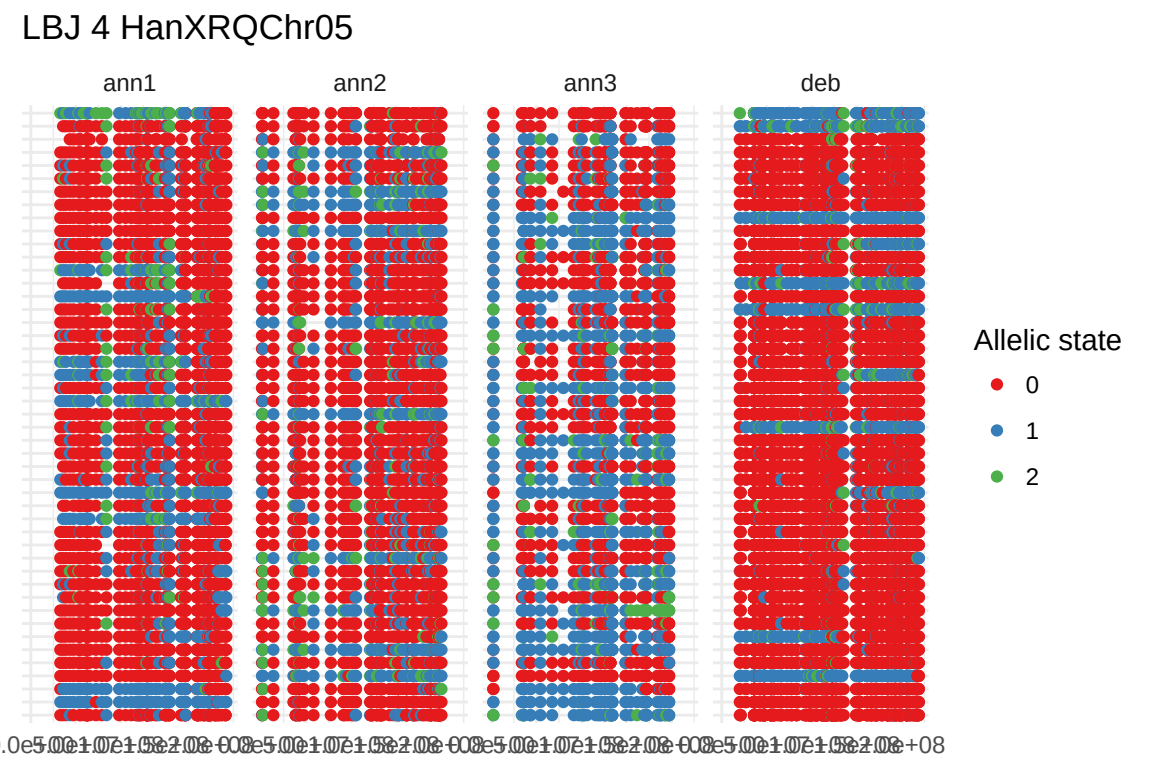
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Allelic state
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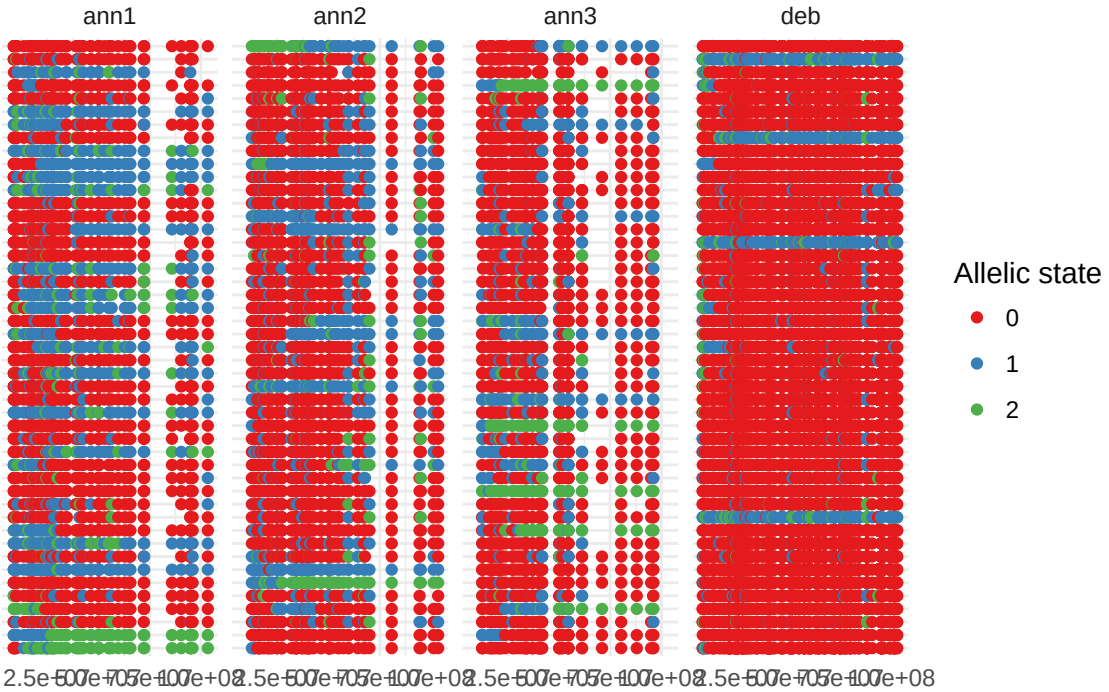
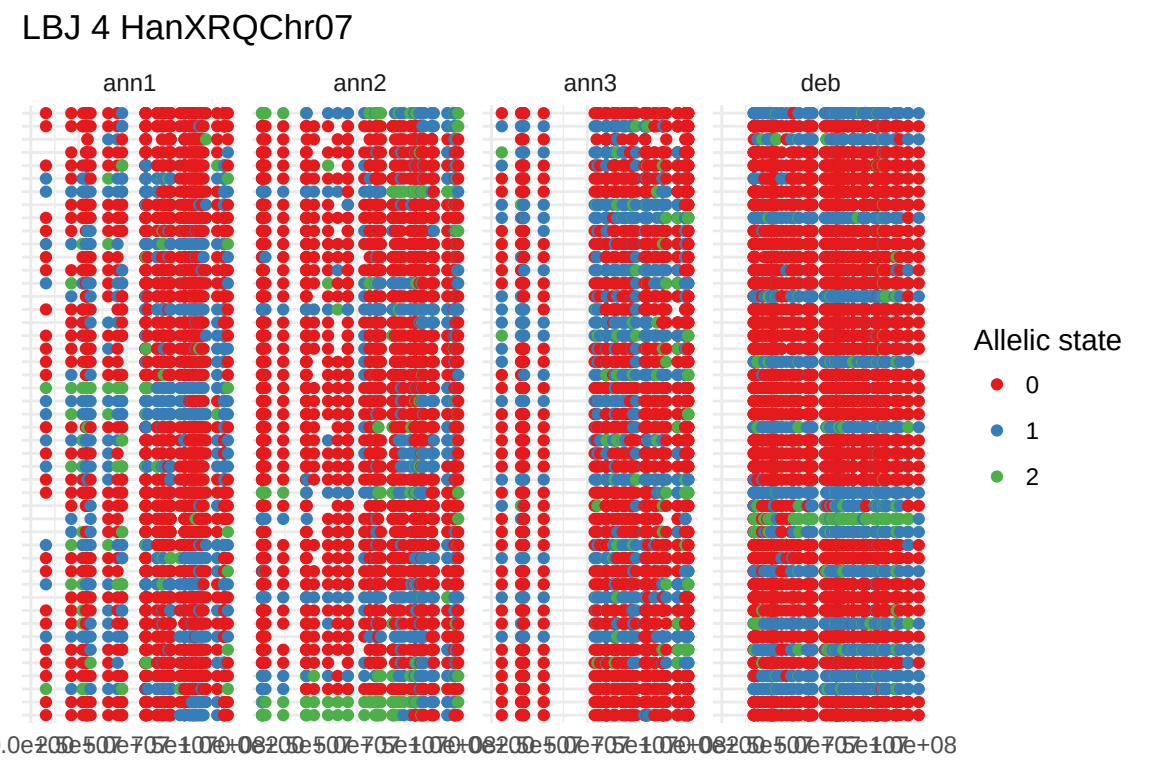
LBJ 4 HanXRQChr06

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ann2
ann3
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Allelic state
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1
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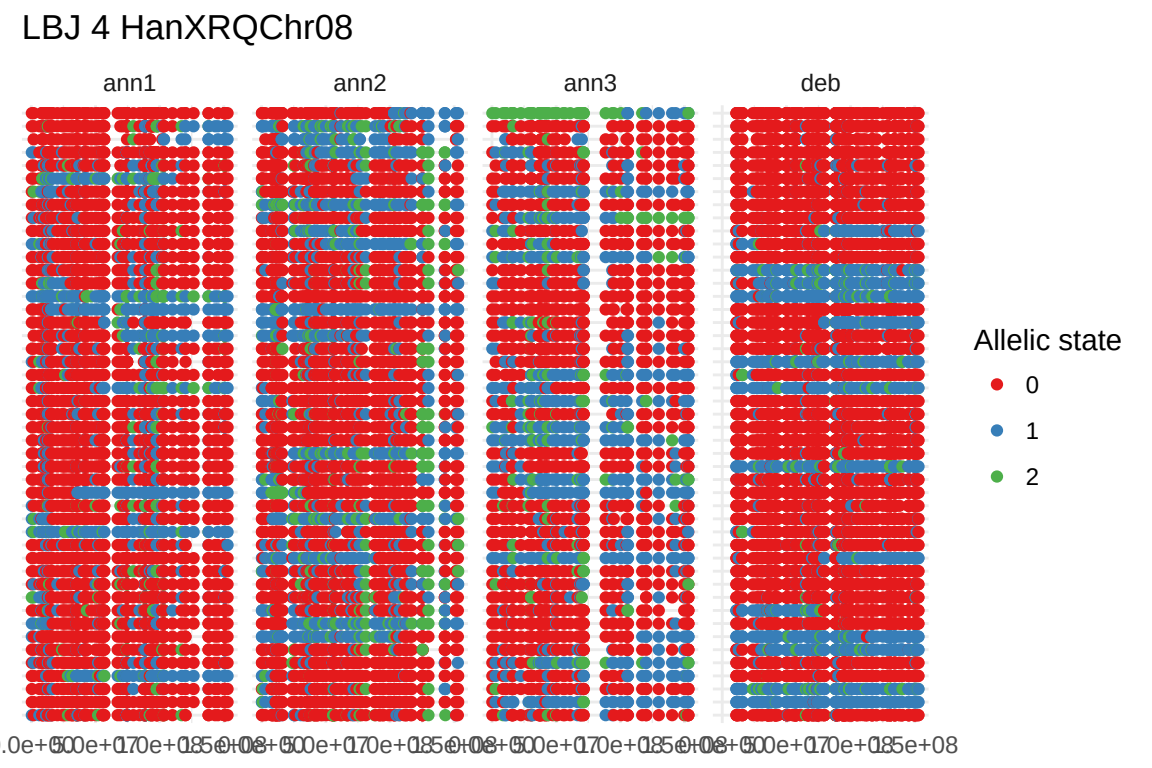
LBJ 4 HanXRQChr08
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ann2
ann3
deb
Allelic state
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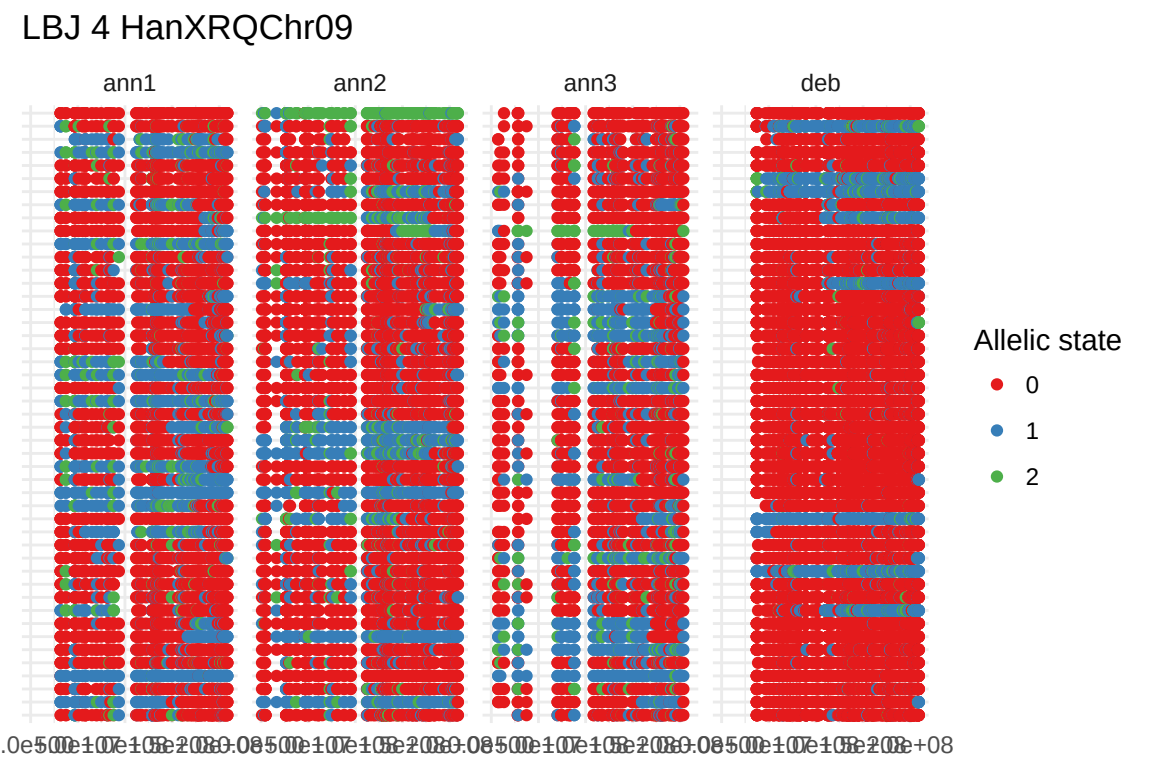
1
2
.0e+00
5.0e+07
1.0e+08
1.5e+08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ann2
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deb
Allelic state
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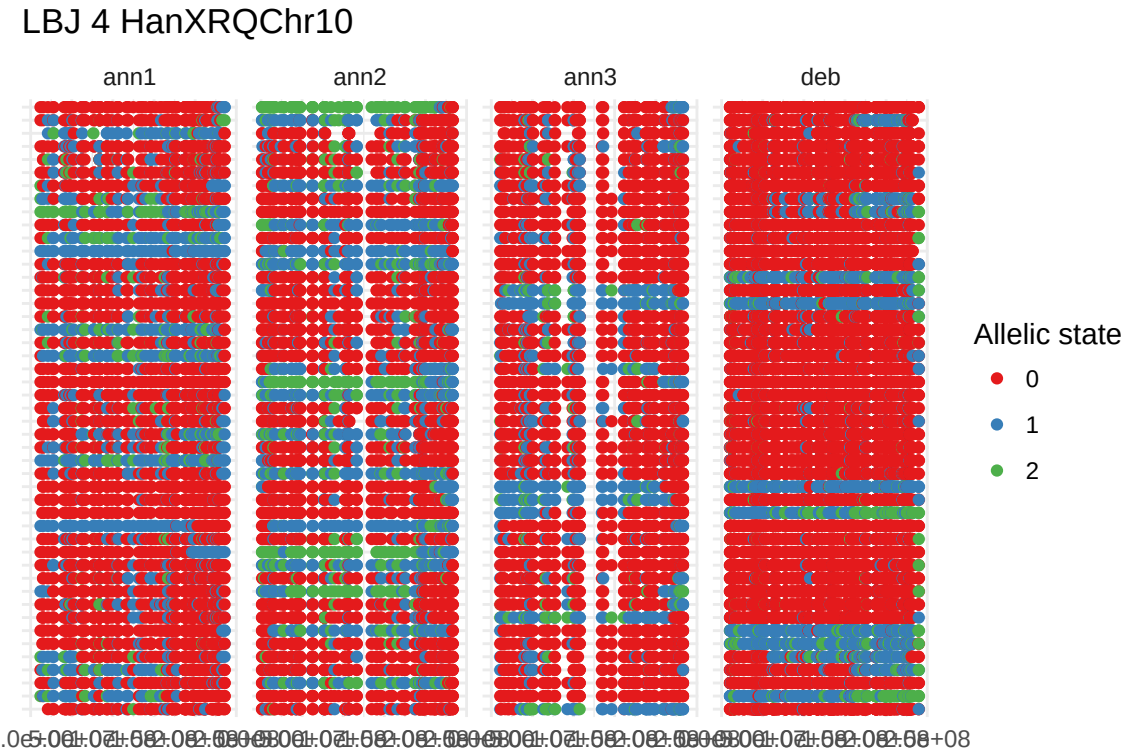
2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ann1
ann2
ann3
deb
Allelic state
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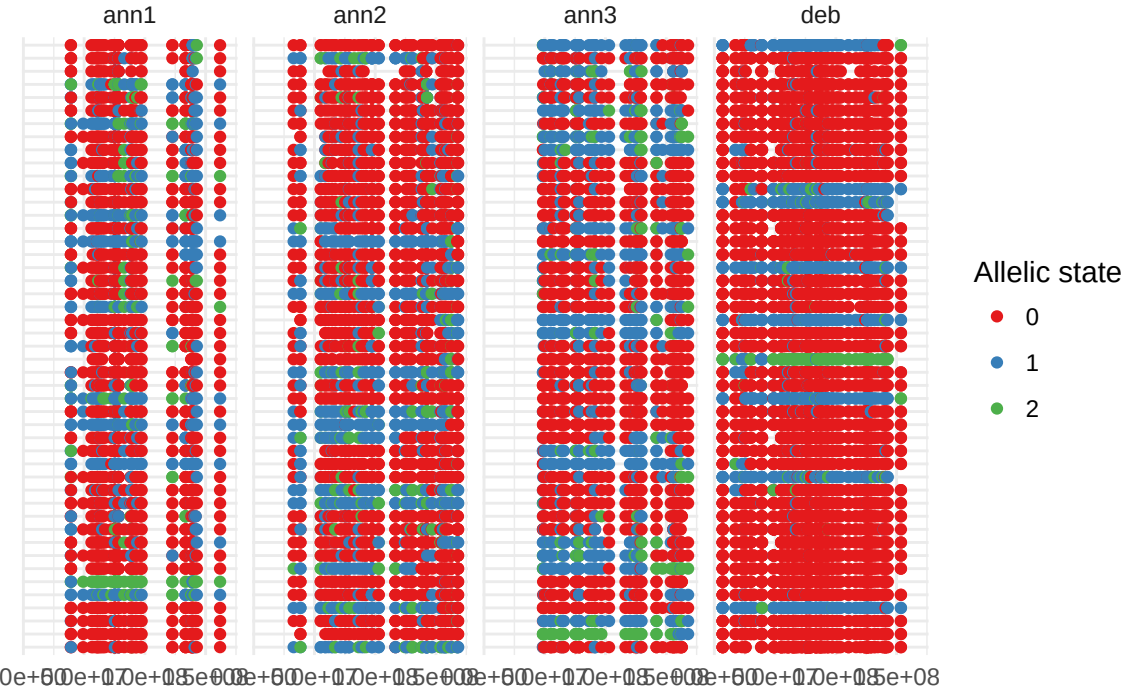
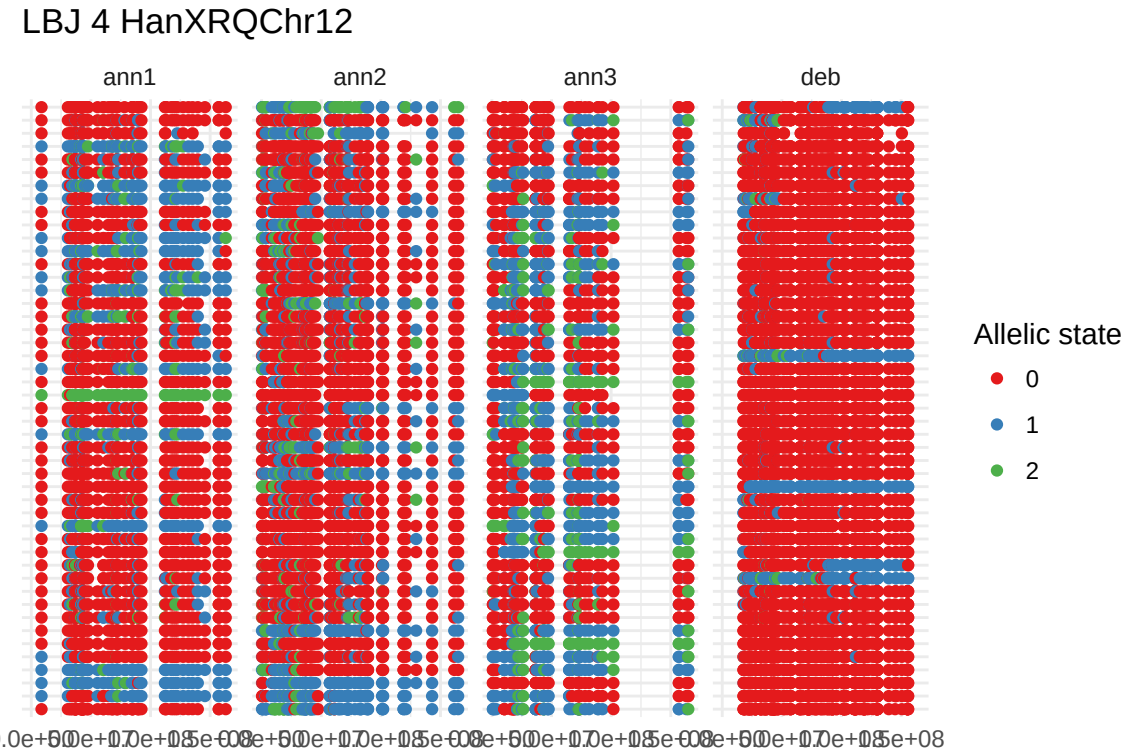
1
2

LBJ 4 HanXRQChr11

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ann1
ann2
ann3
deb
Allelic state
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0e+07
5e+08
0e+00
0e+07
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0e+07
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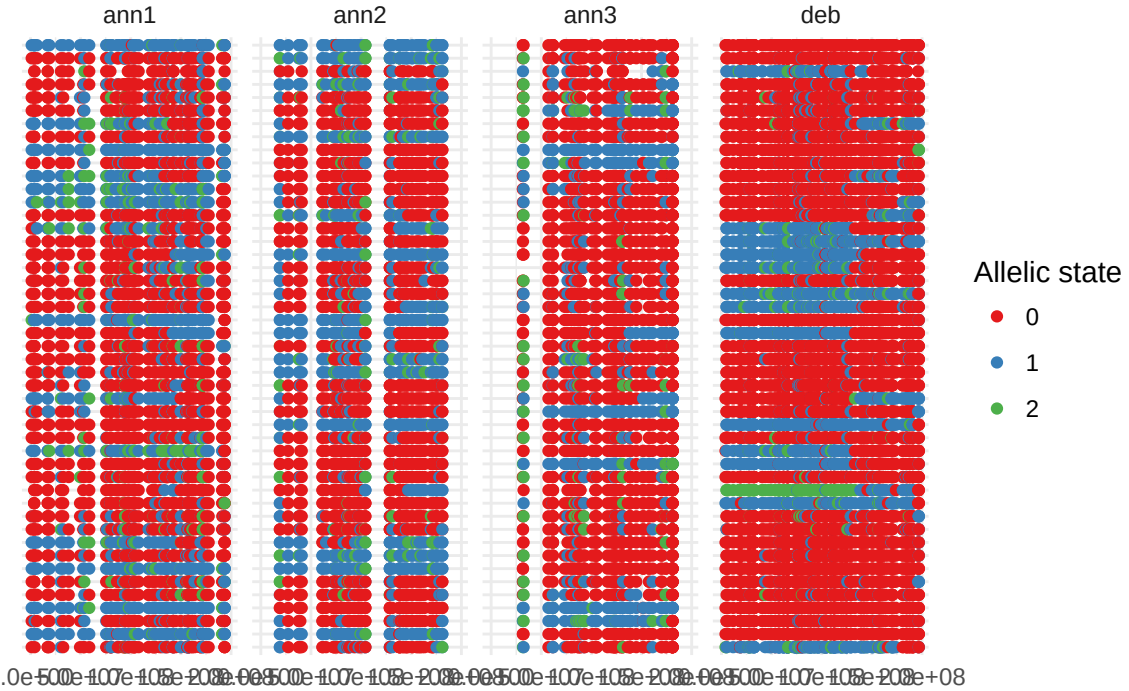
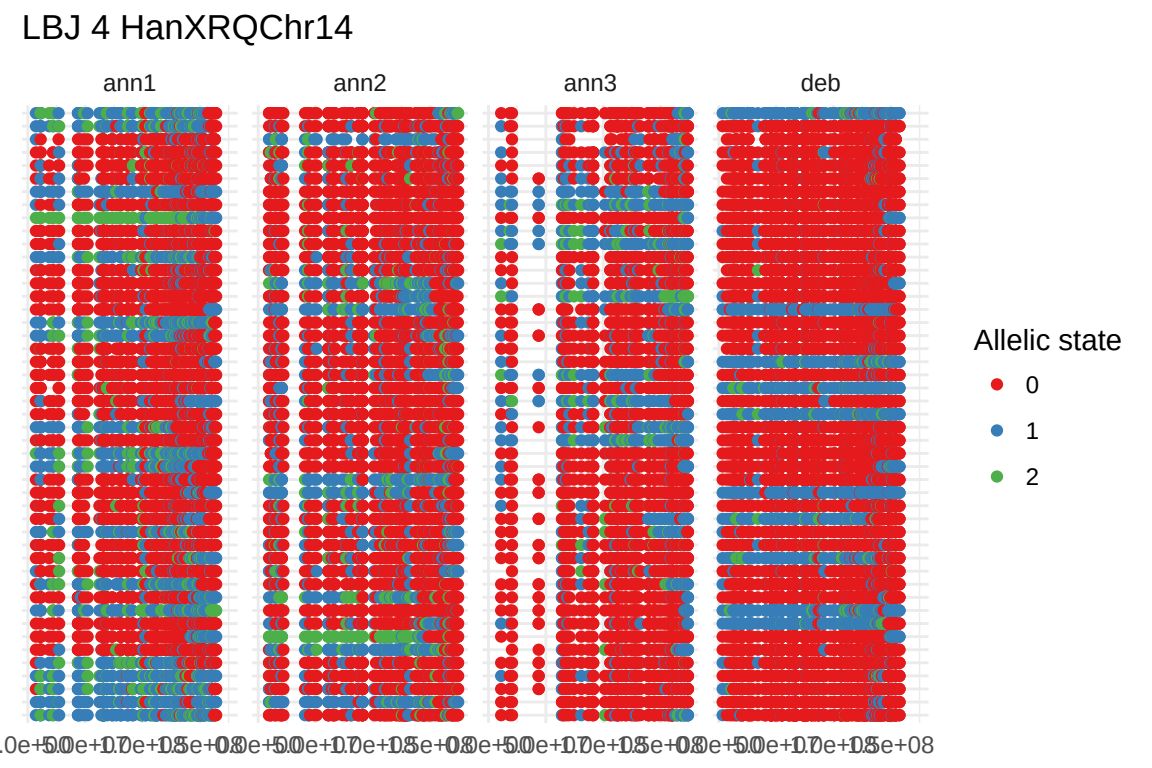
LBJ 4 HanXRQChr13

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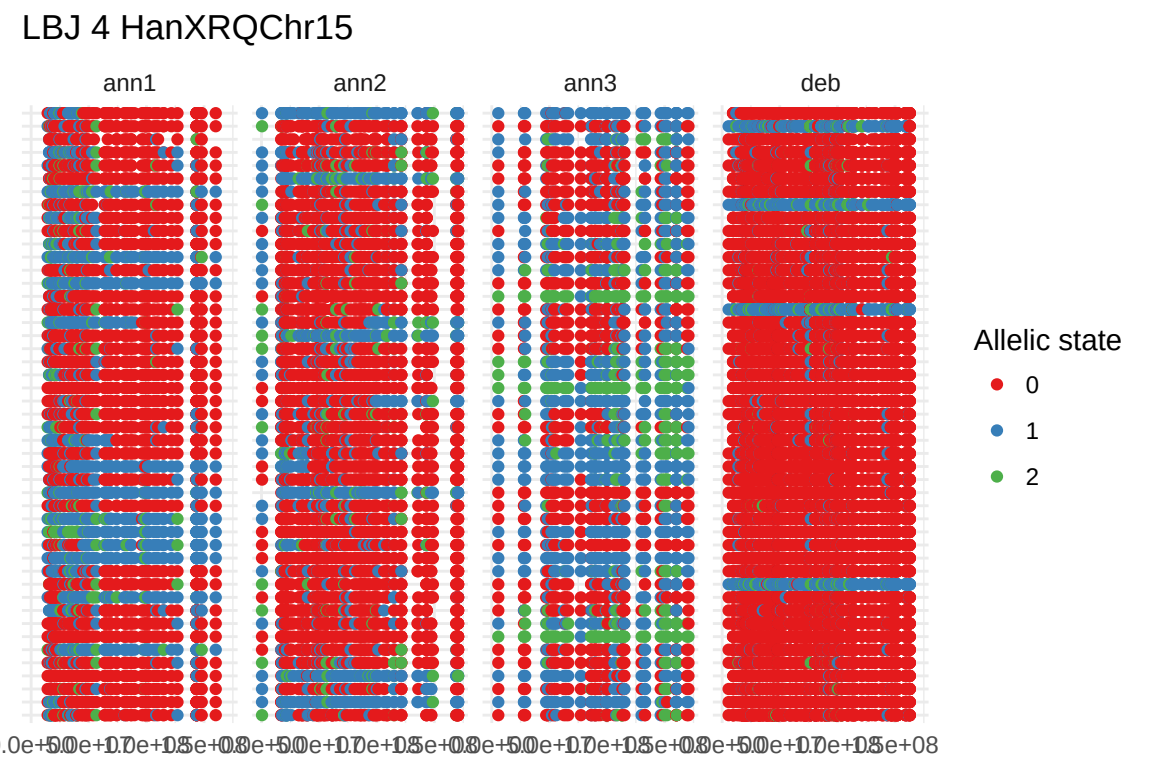
LBJ 4 HanXRQChr15
ann1
ann2
ann3
deb
Allelic state
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1
2
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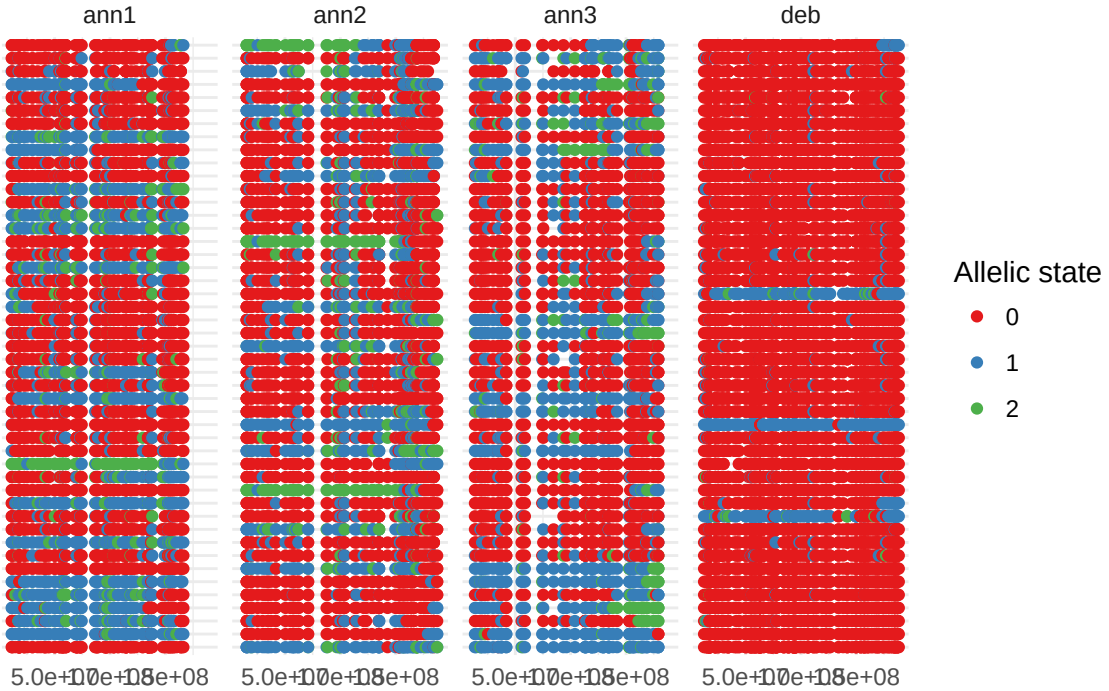
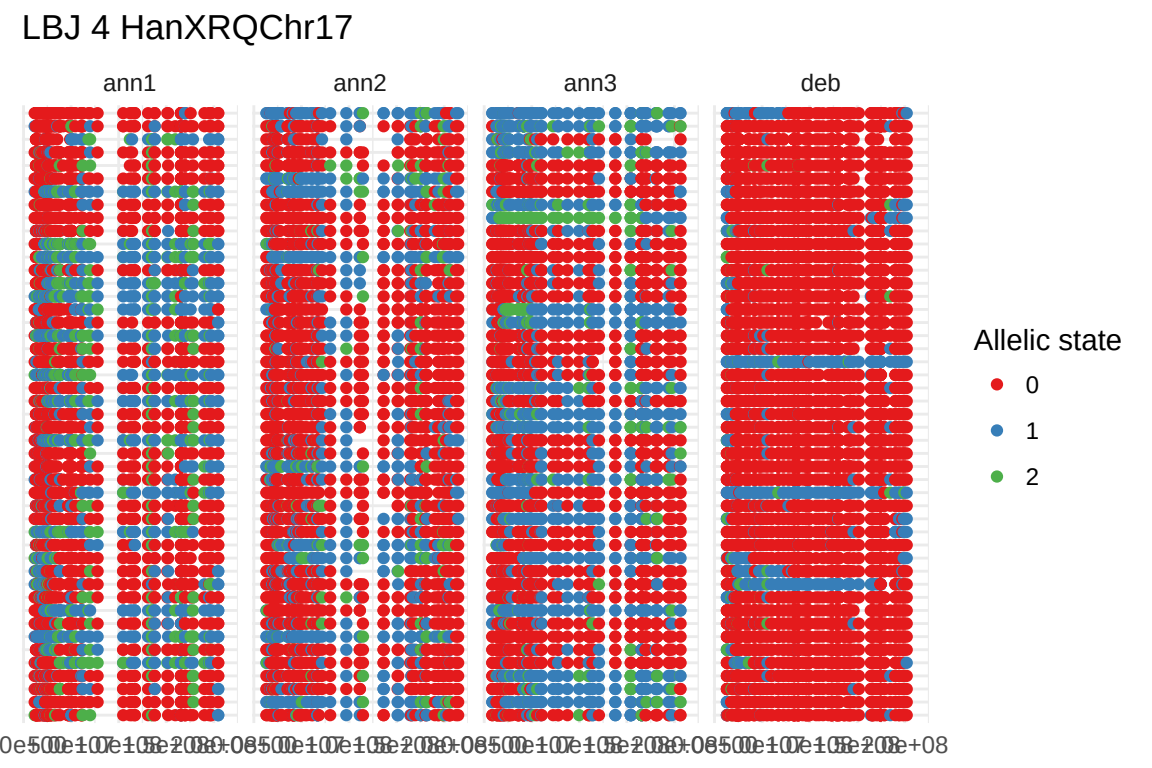
LBJ 4 HanXRQChr16

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ann1
ann2
ann3
deb
Allelic state
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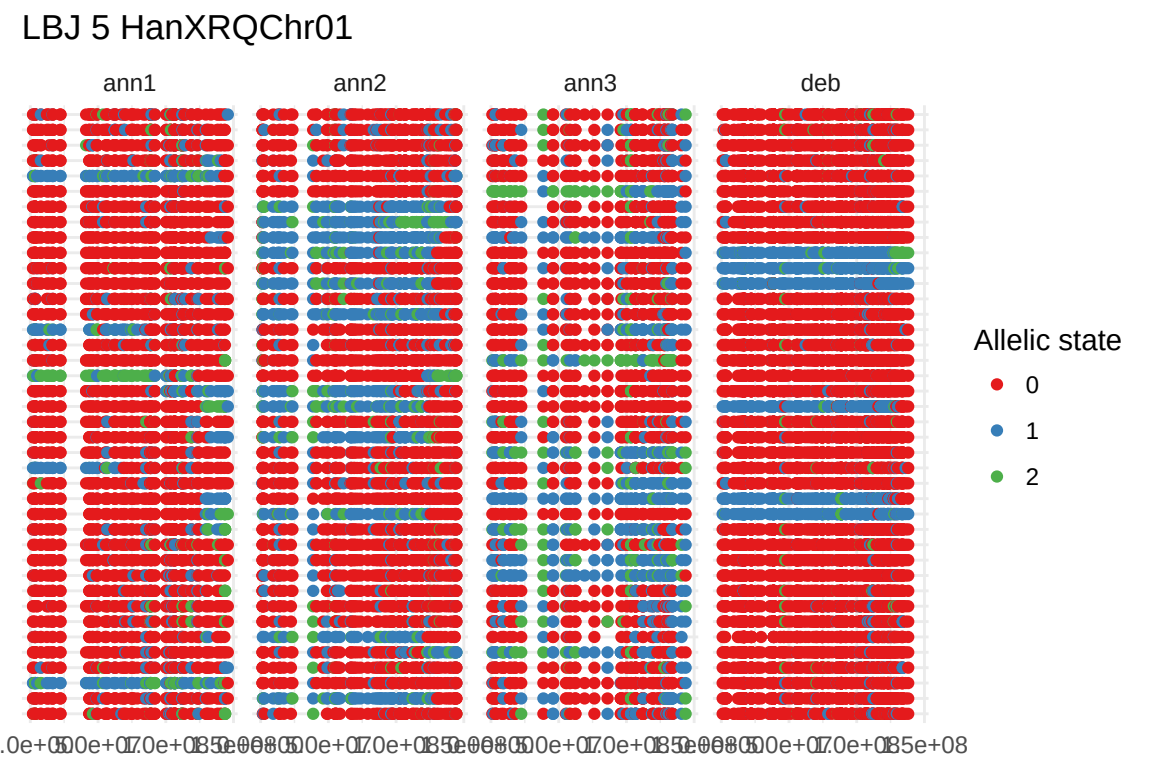
1
2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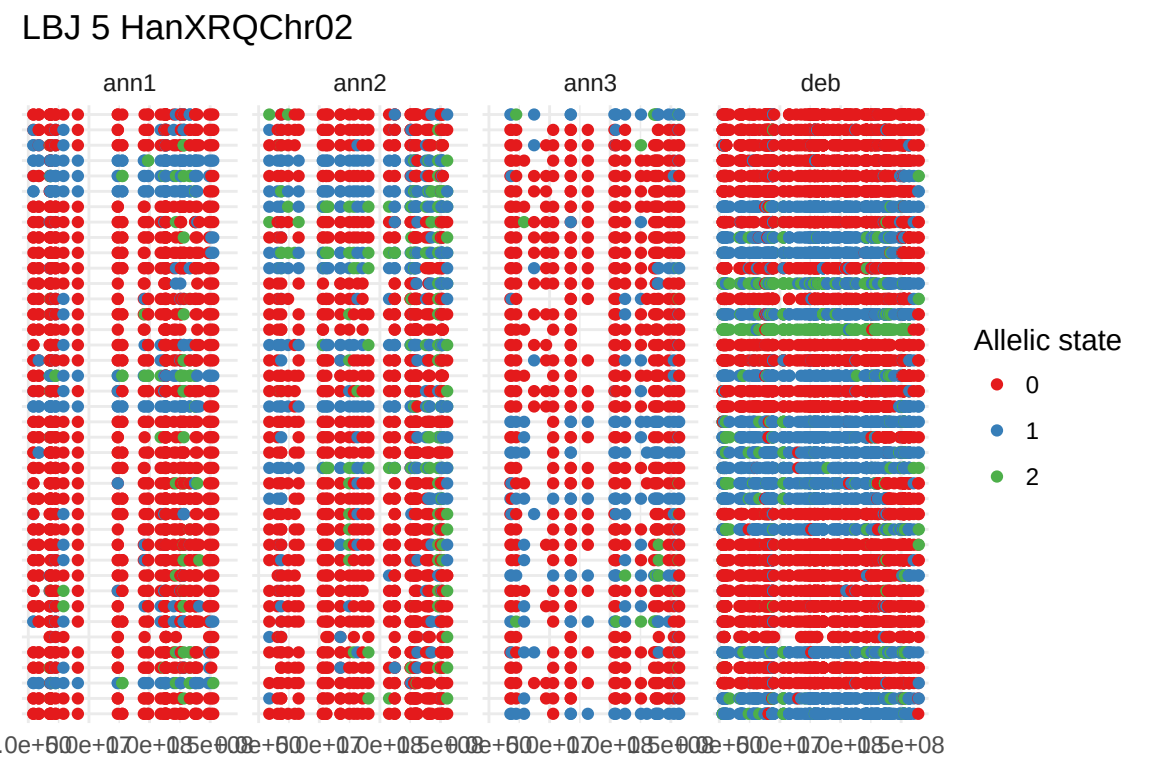
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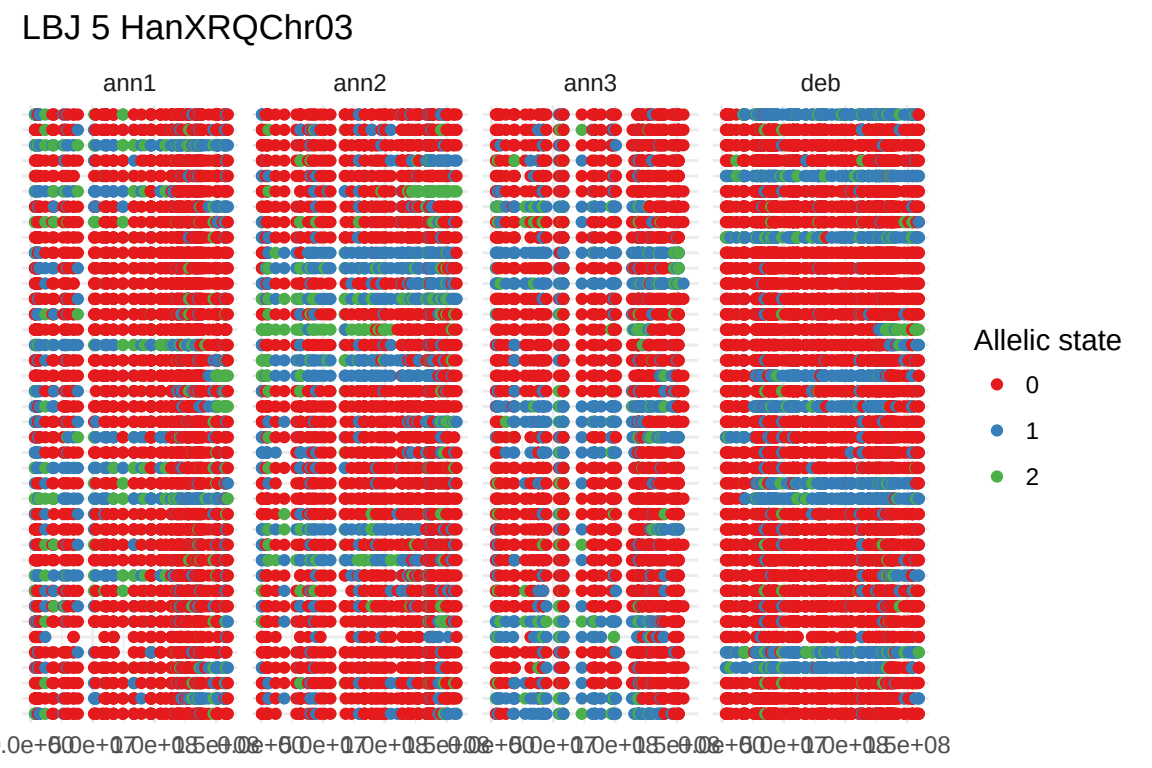
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ann2
ann3
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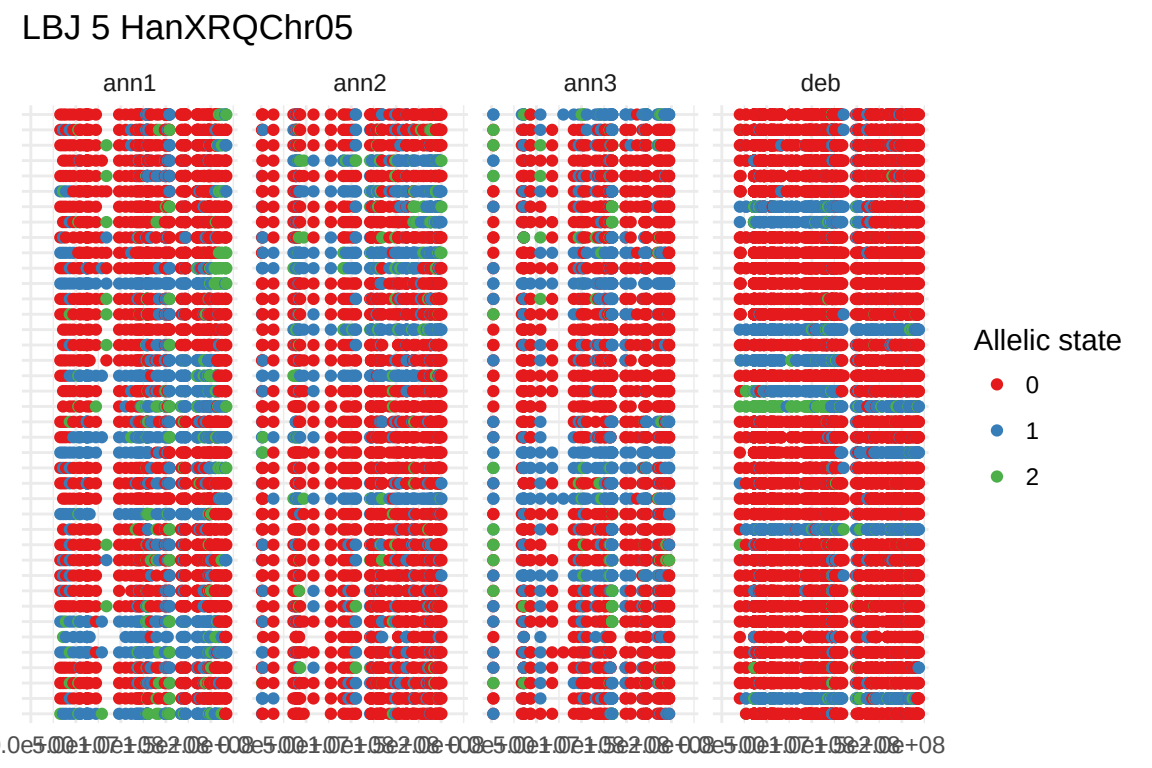
2

LBJ 5 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
0
1
2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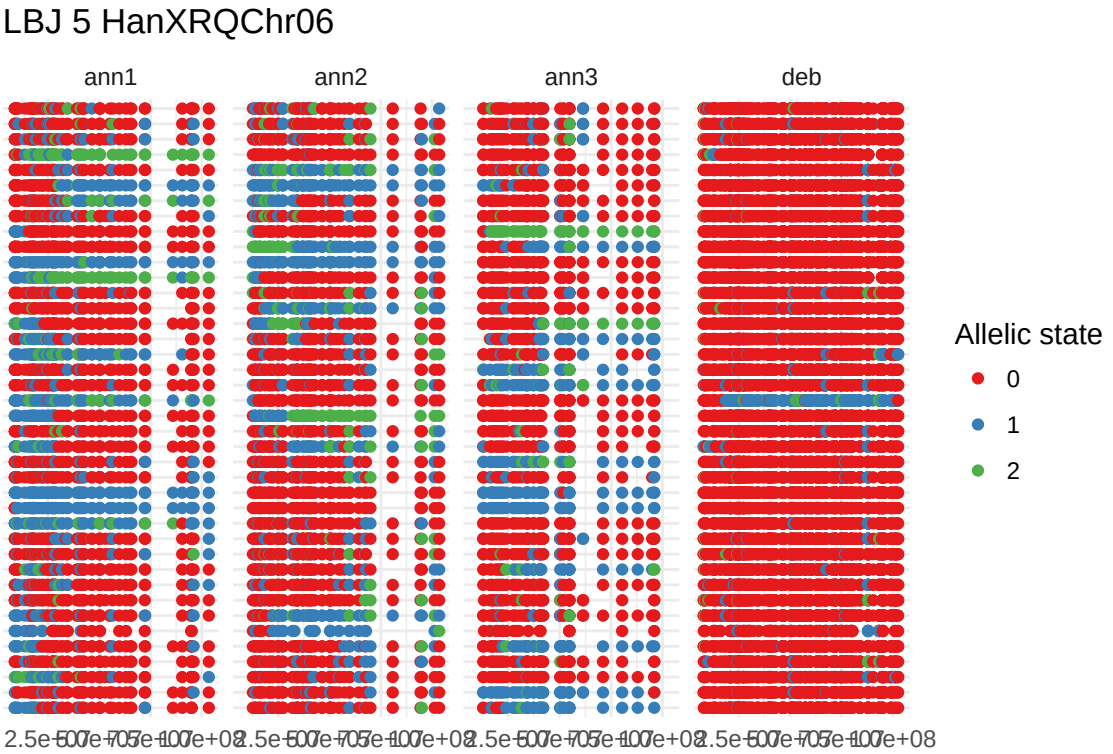
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ann3
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5e+07
7.5e+07
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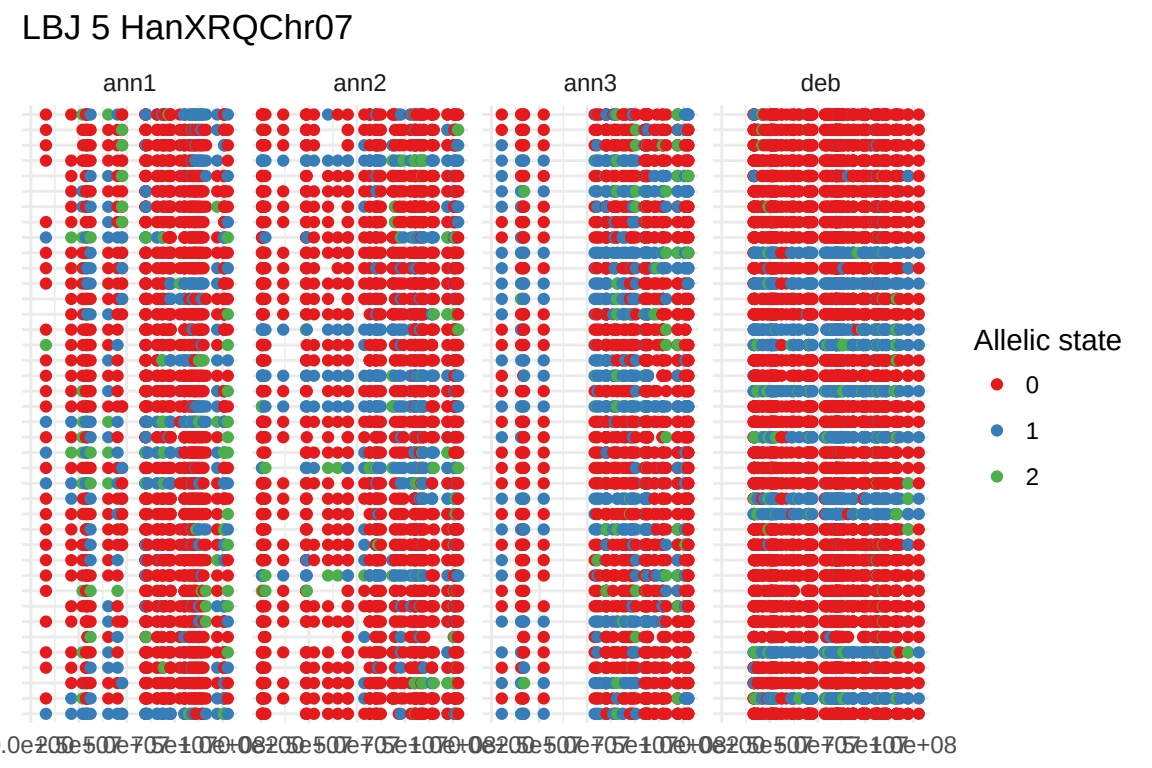
Allelic state
0
1
2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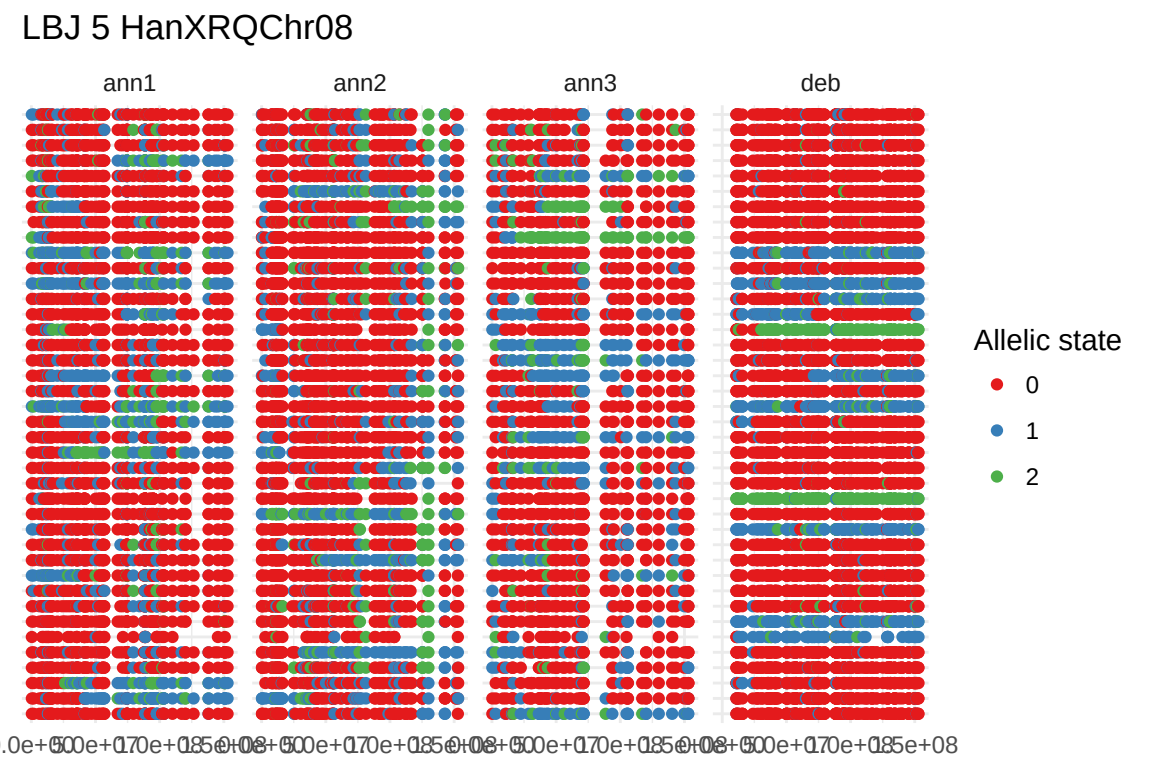
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ann3
deb
Allelic state
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1
2
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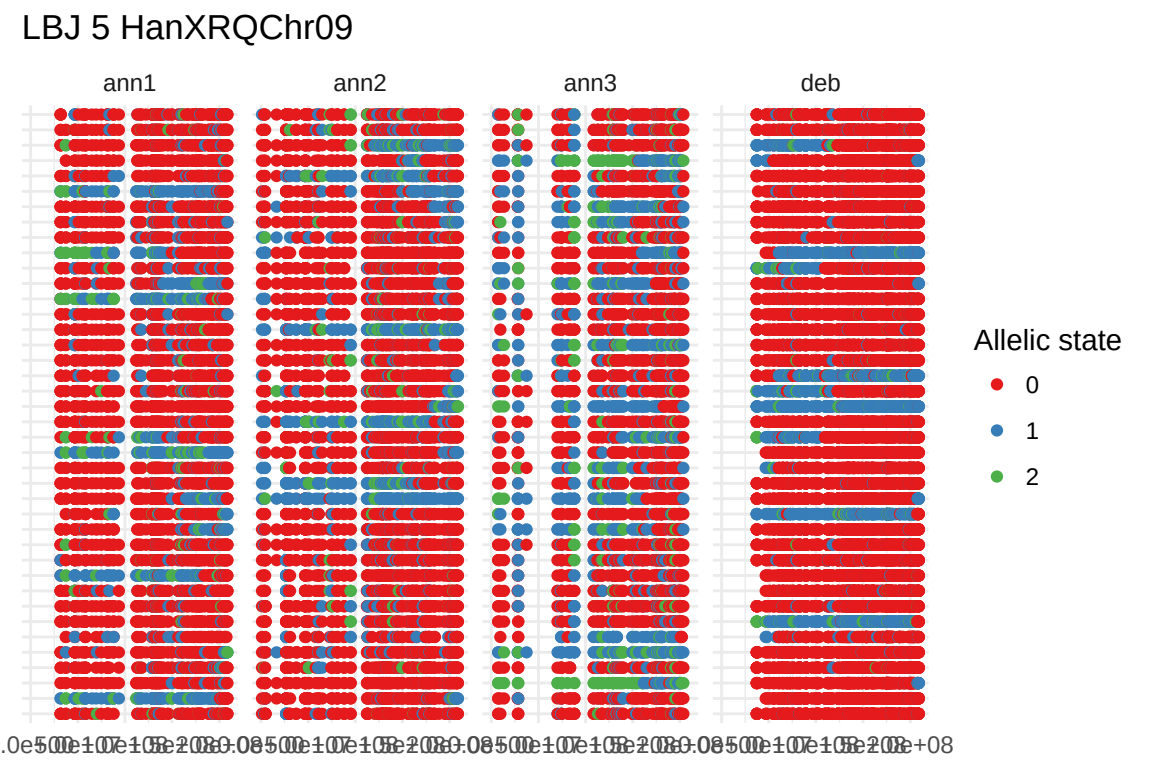
5.0e+07
1.0e+08
1.5e+08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deb
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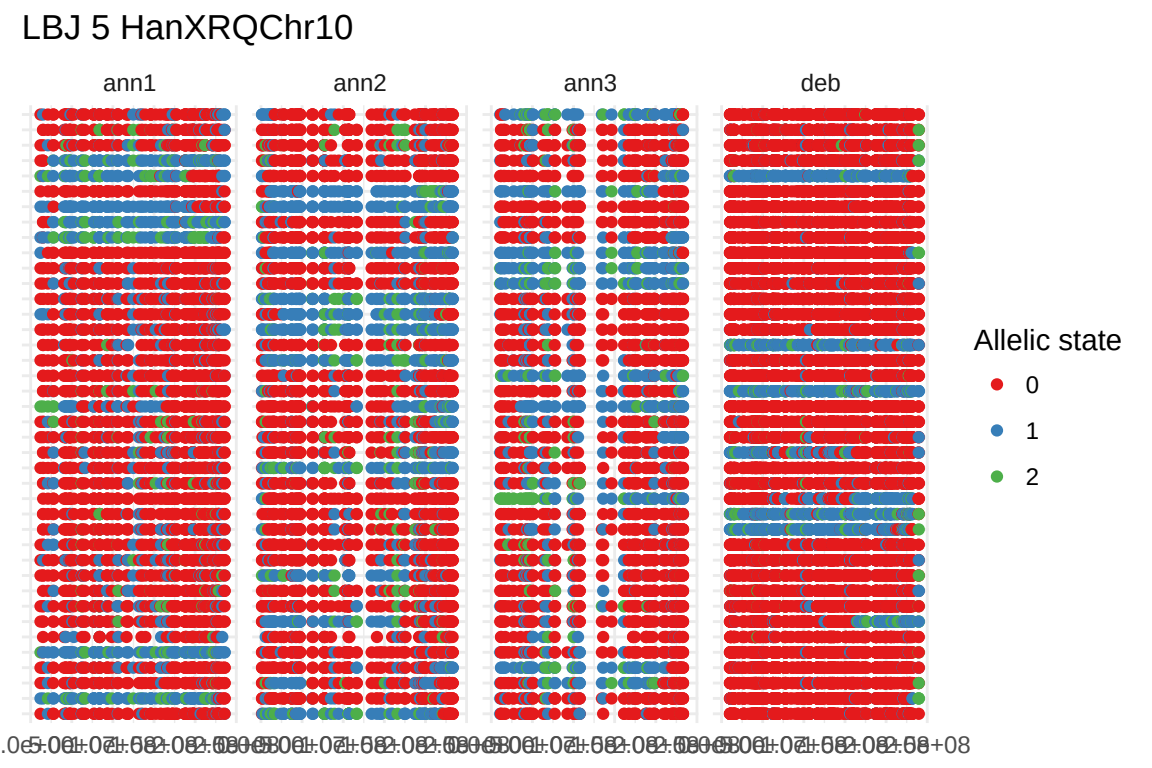
1
2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ann2
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deb
Allelic state
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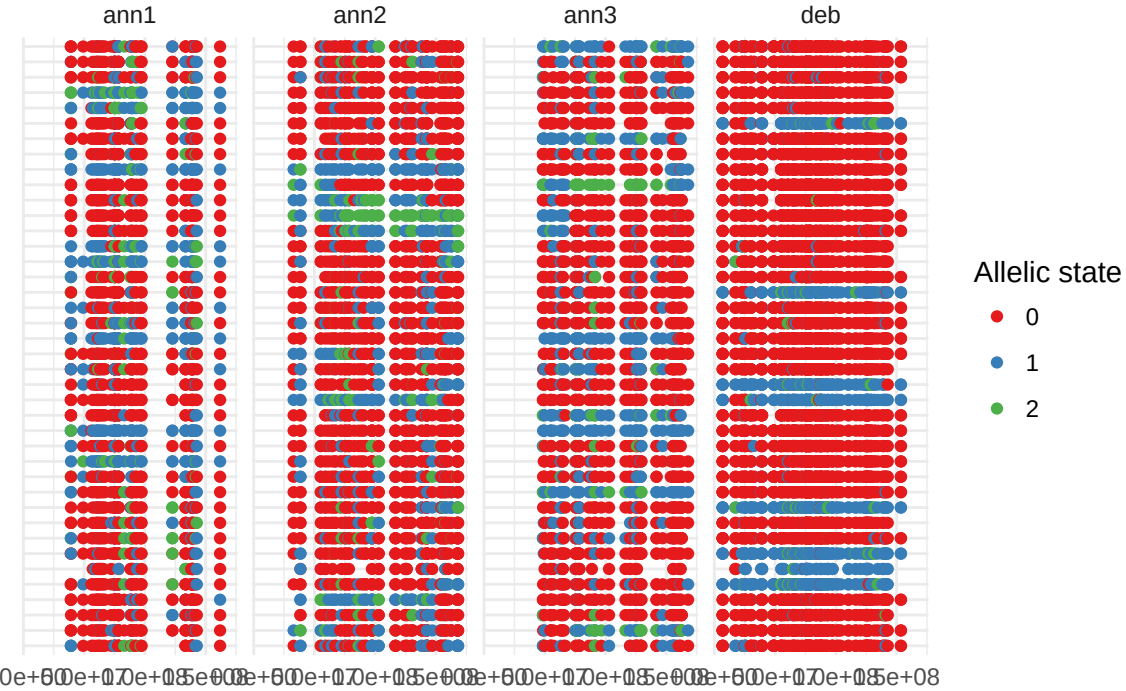
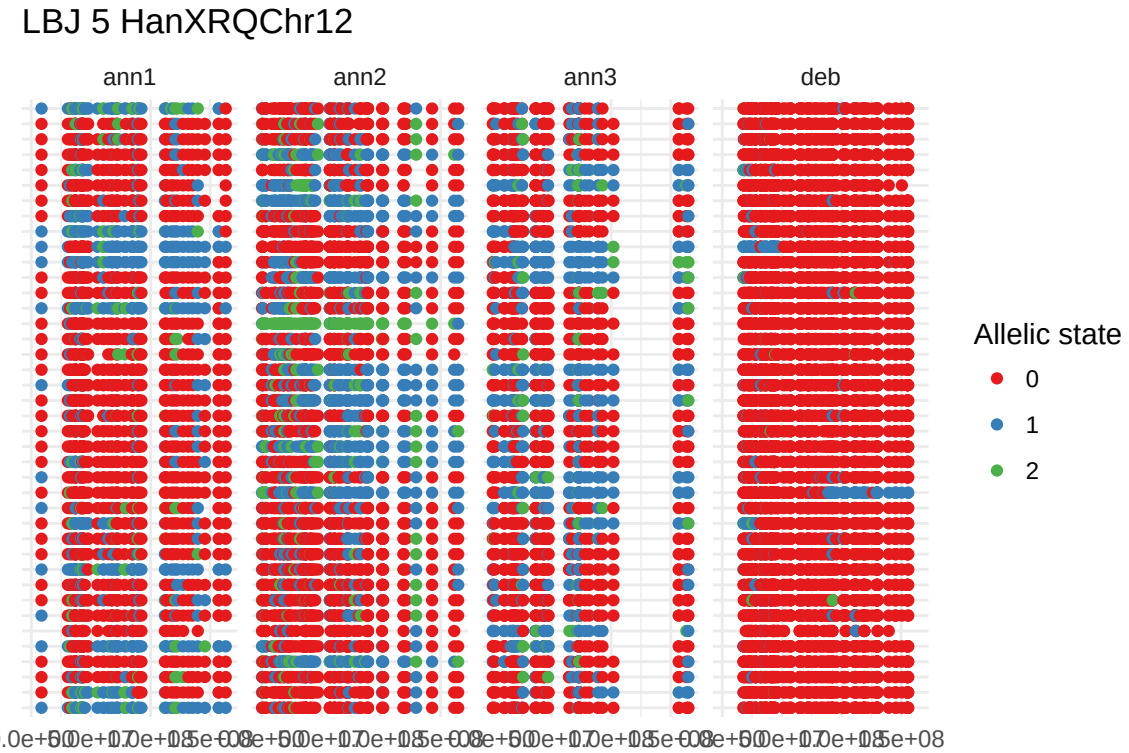
1
2

LBJ 5 HanXRQChr11

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deb
Allelic state
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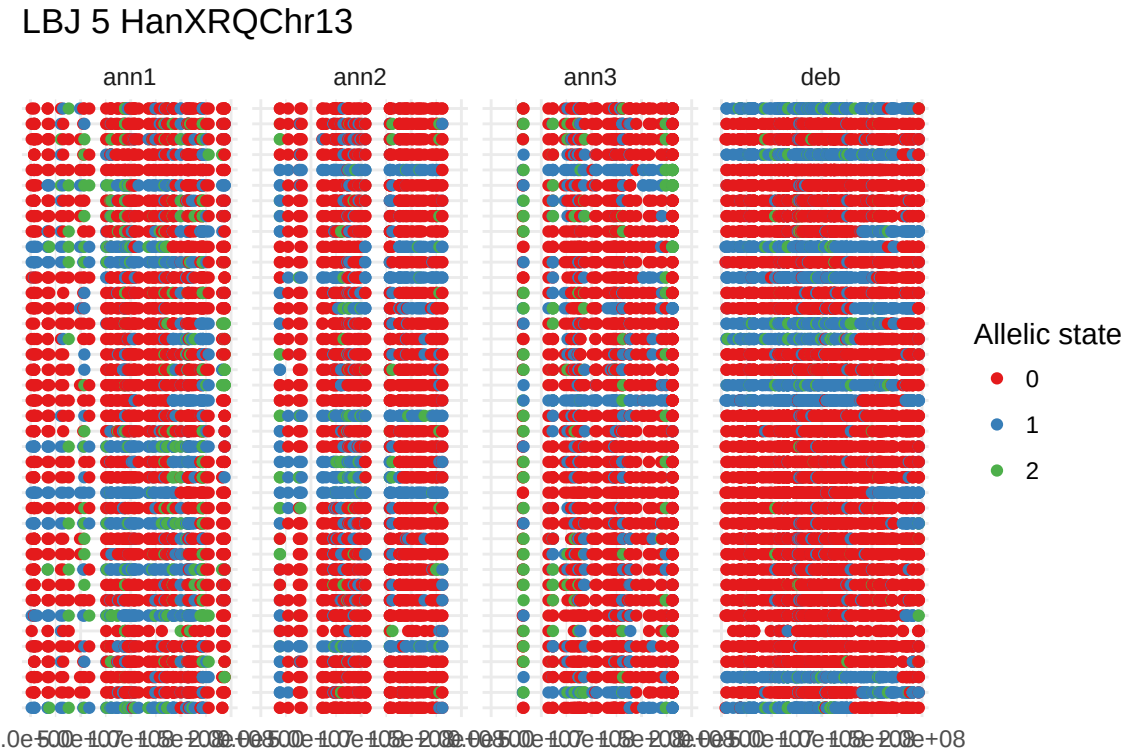
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ann1
ann2
ann3
deb
Allelic state
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5.0e+07
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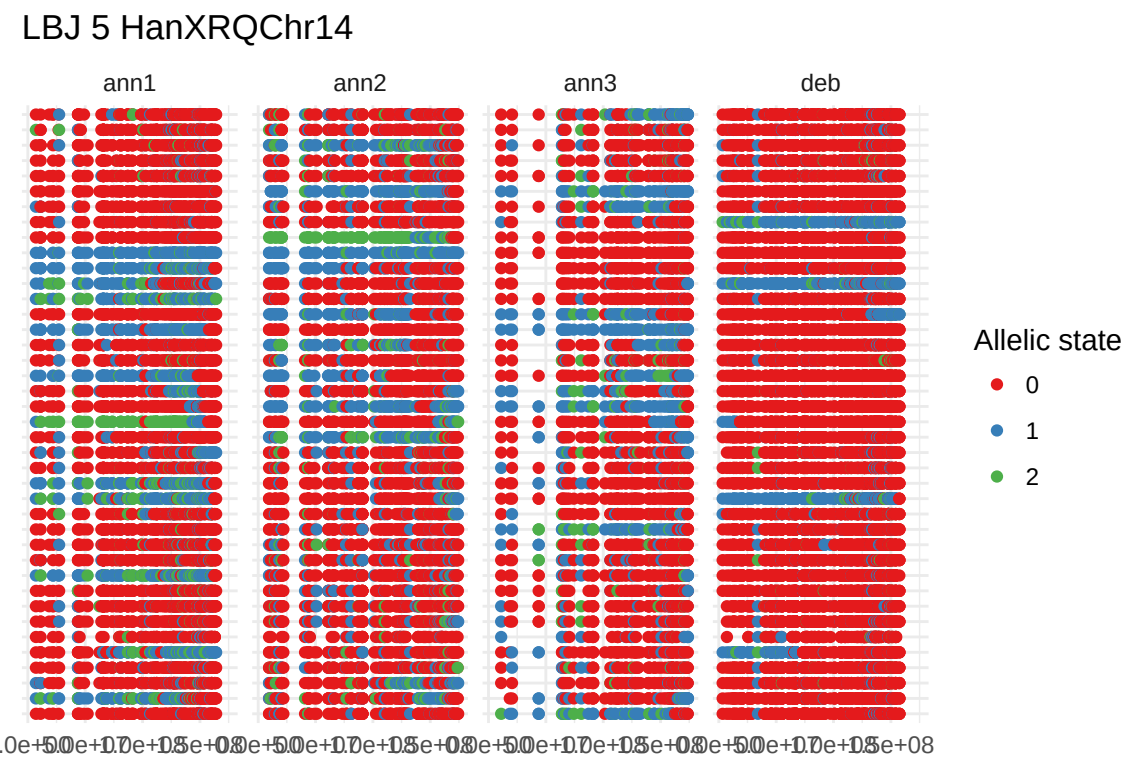
LBJ 5 HanXRQChr14
ann1
ann2
ann3
deb
Allelic state
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1
2
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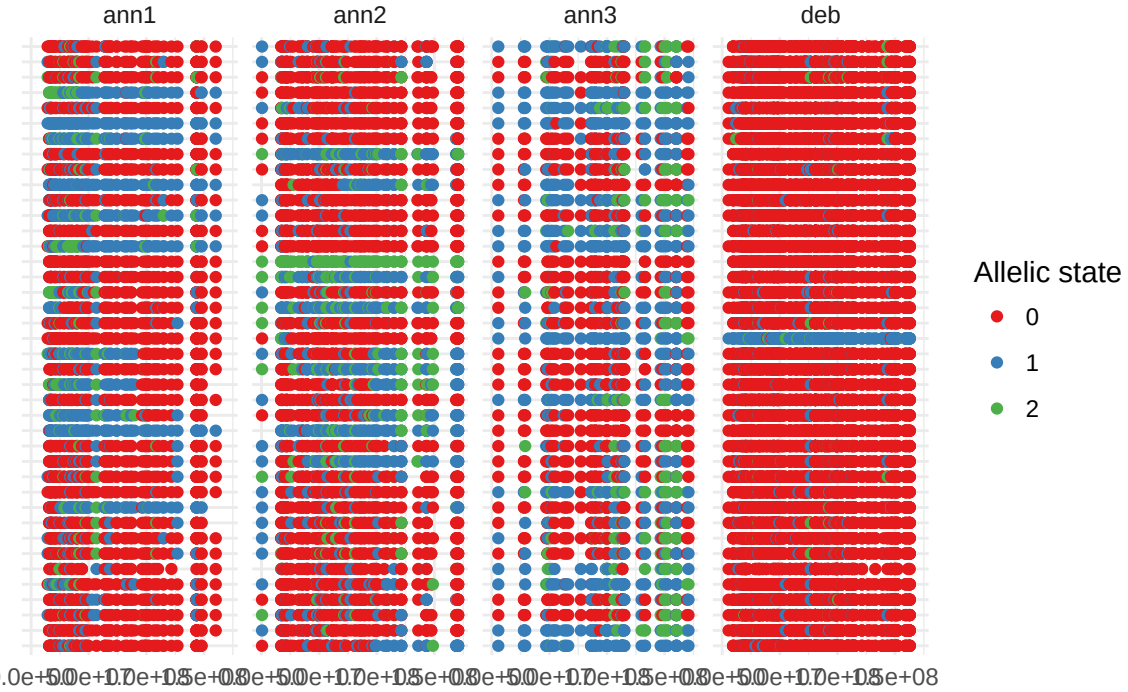
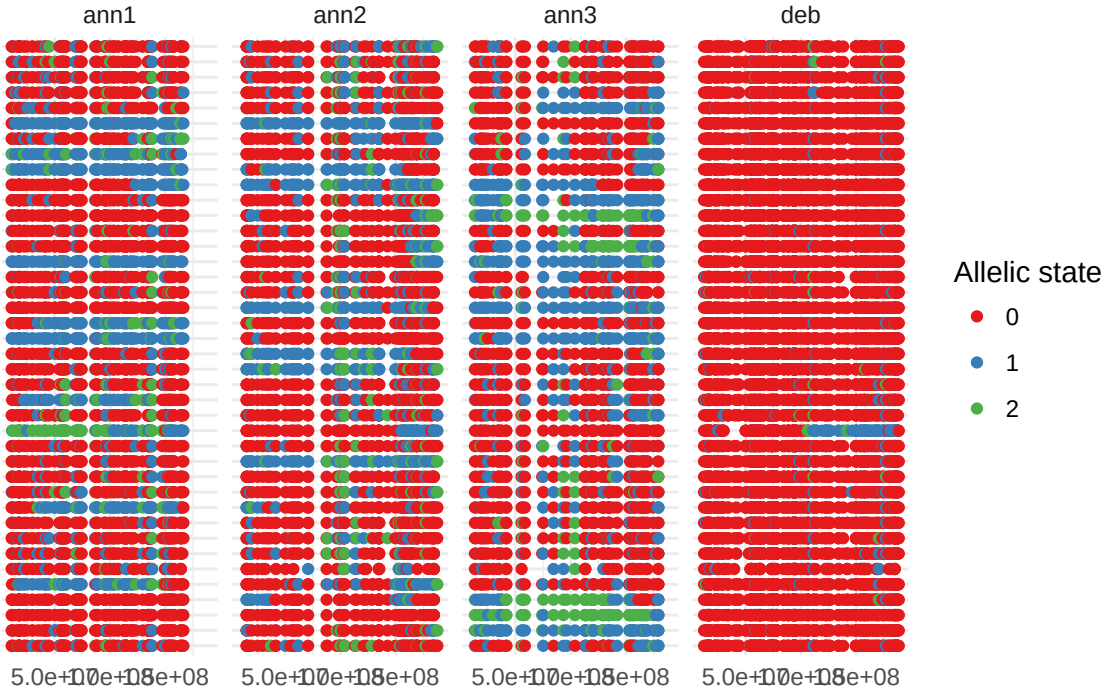
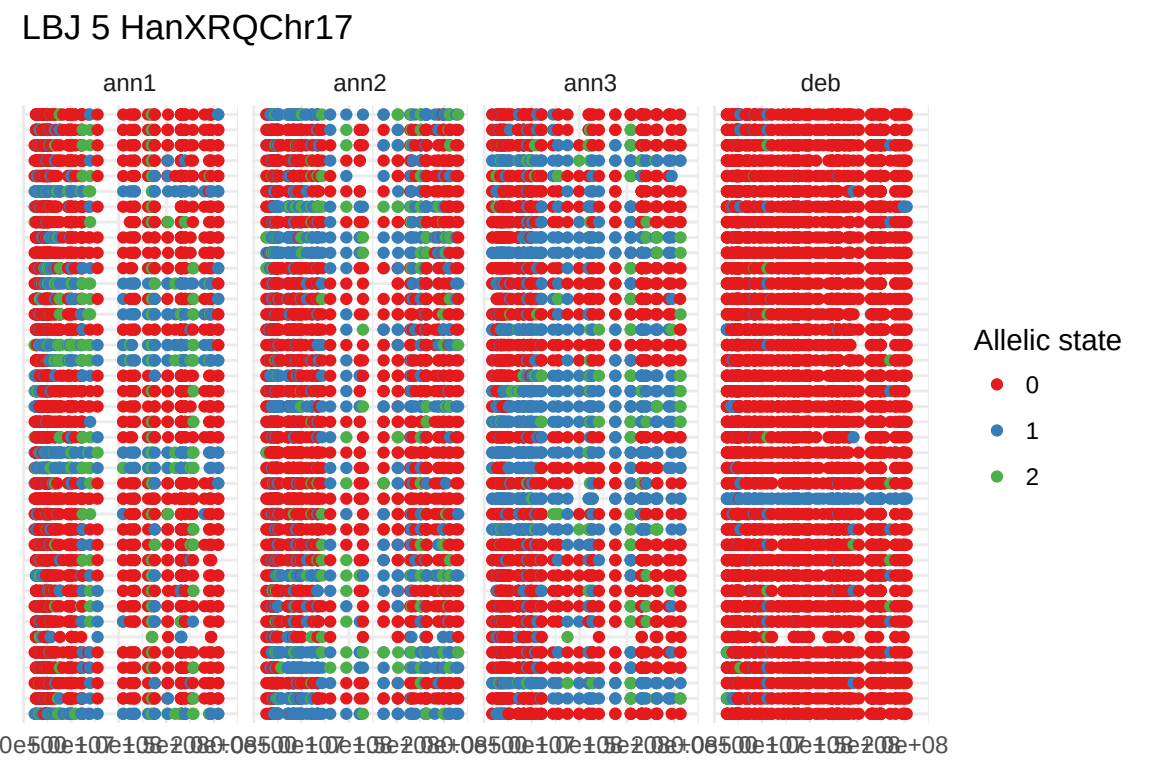
0.0e+7
1.5e+8

LBJ 5 HanXRQChr15



LBJ 5 HanXRQChr16

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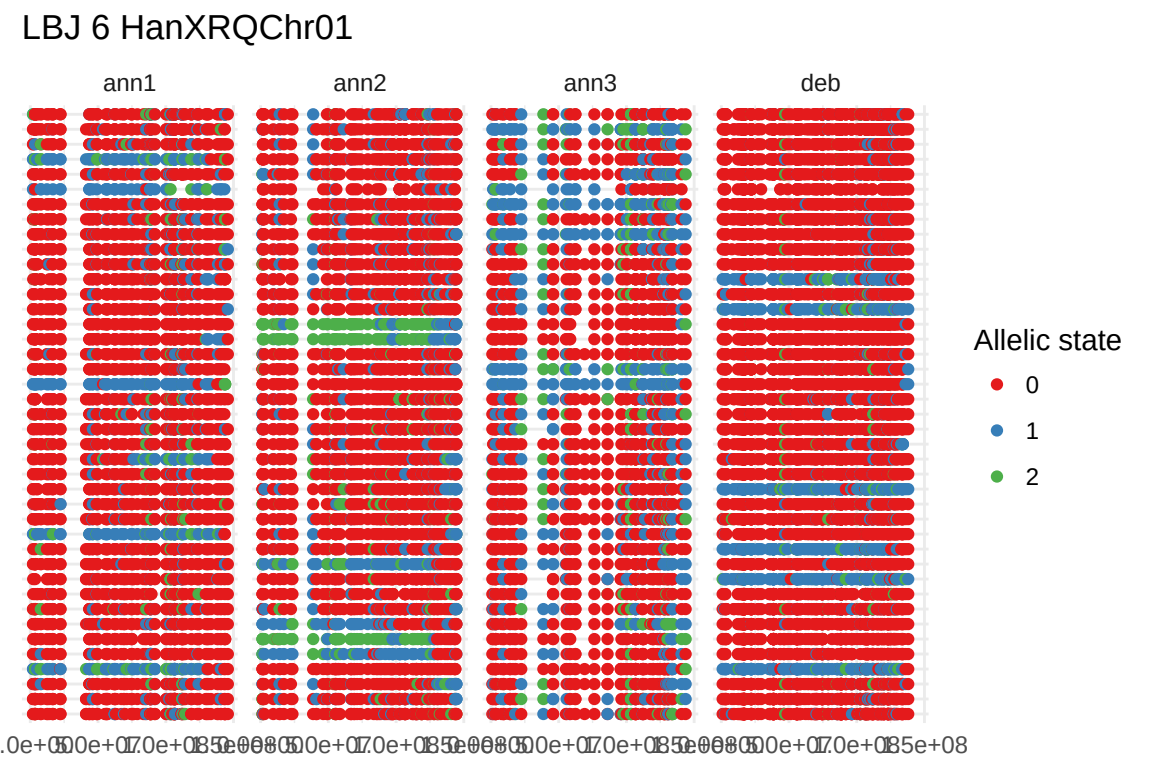
1
2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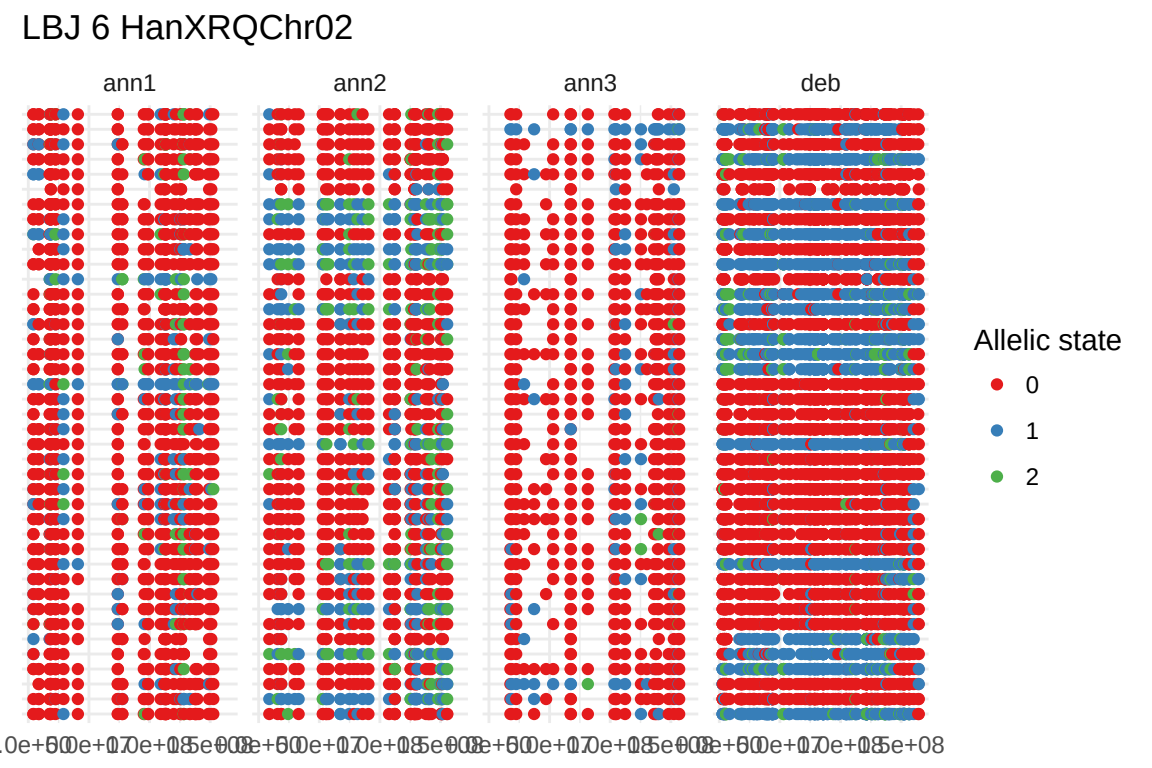
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deb
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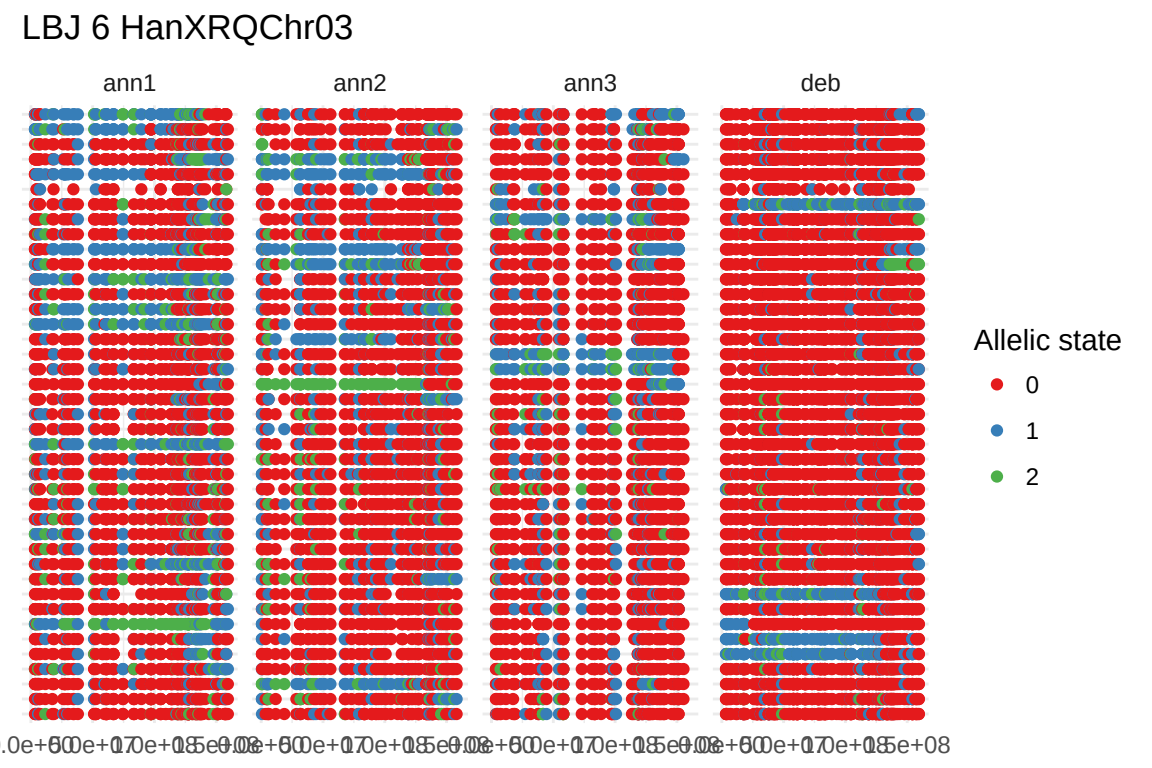
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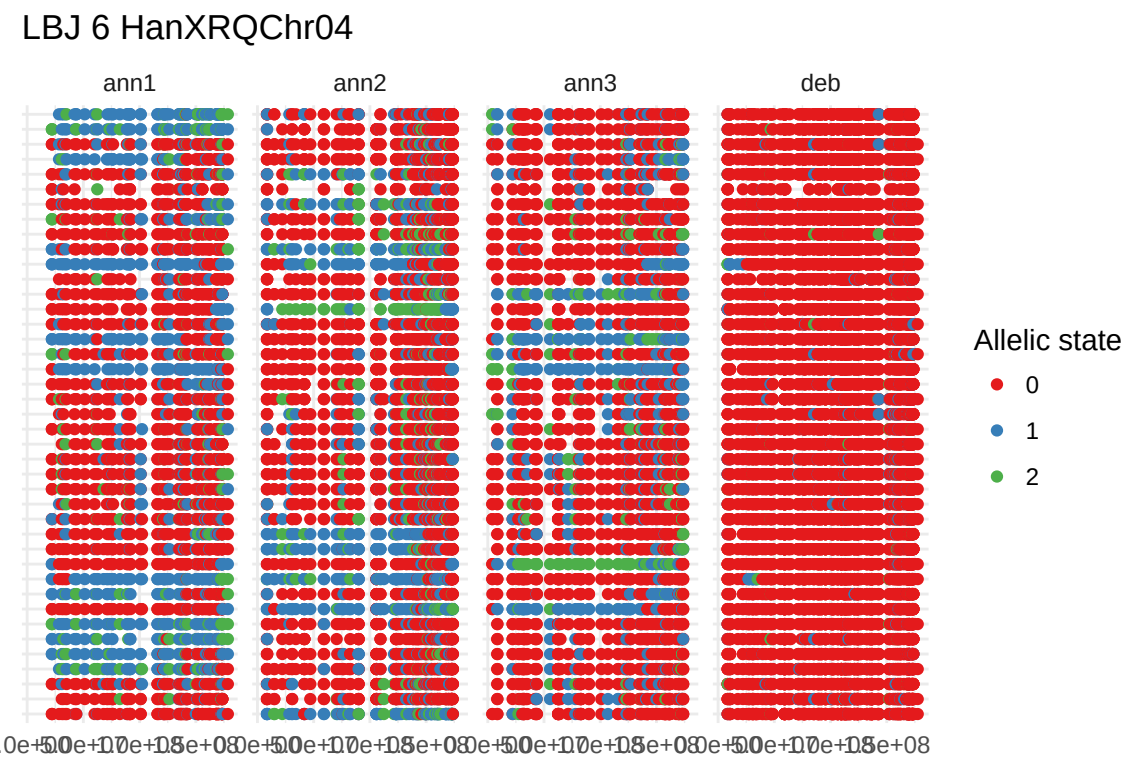
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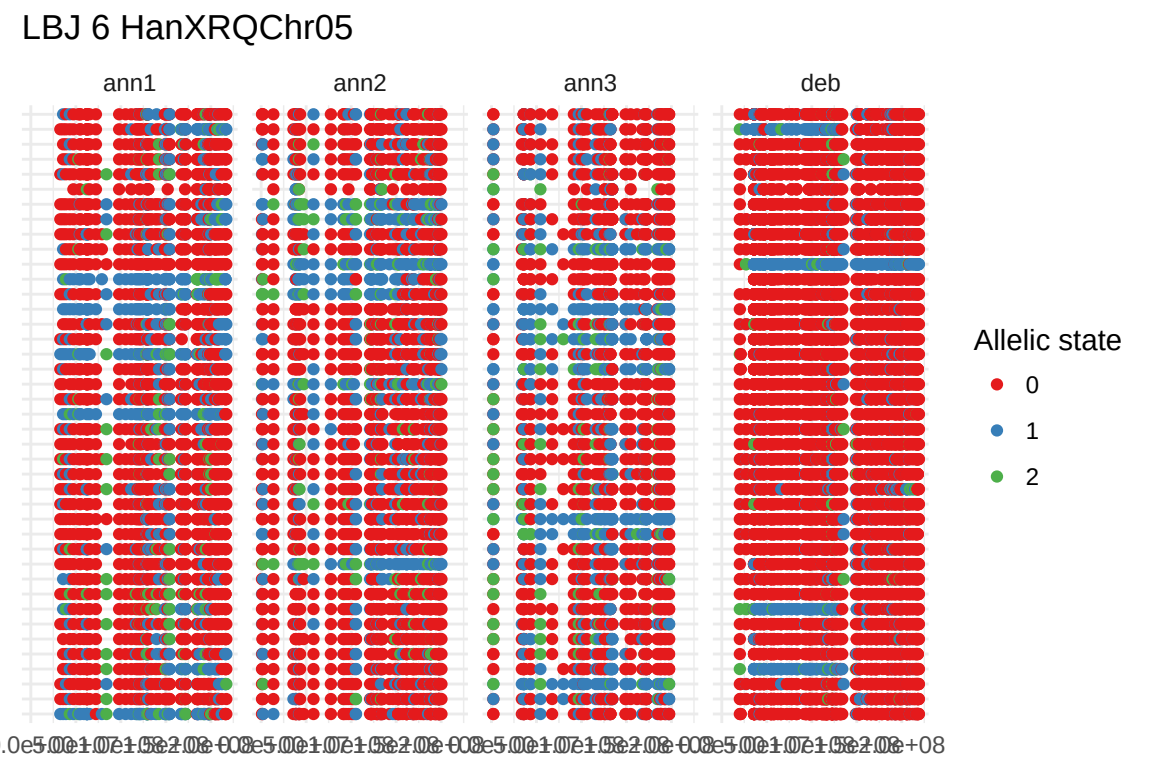
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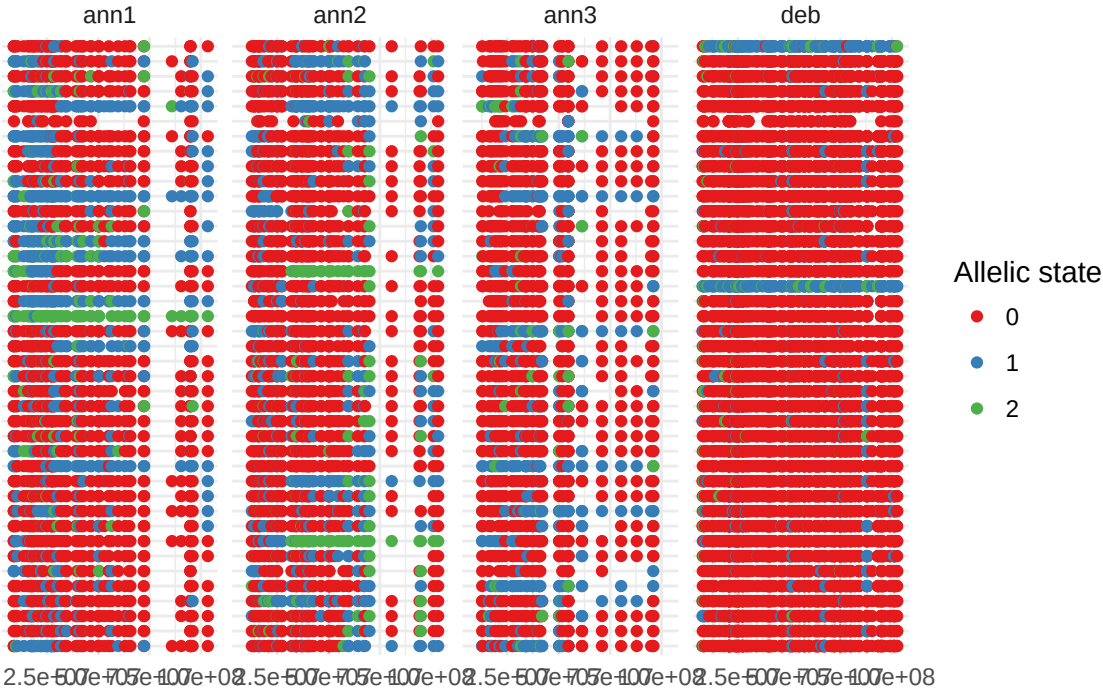
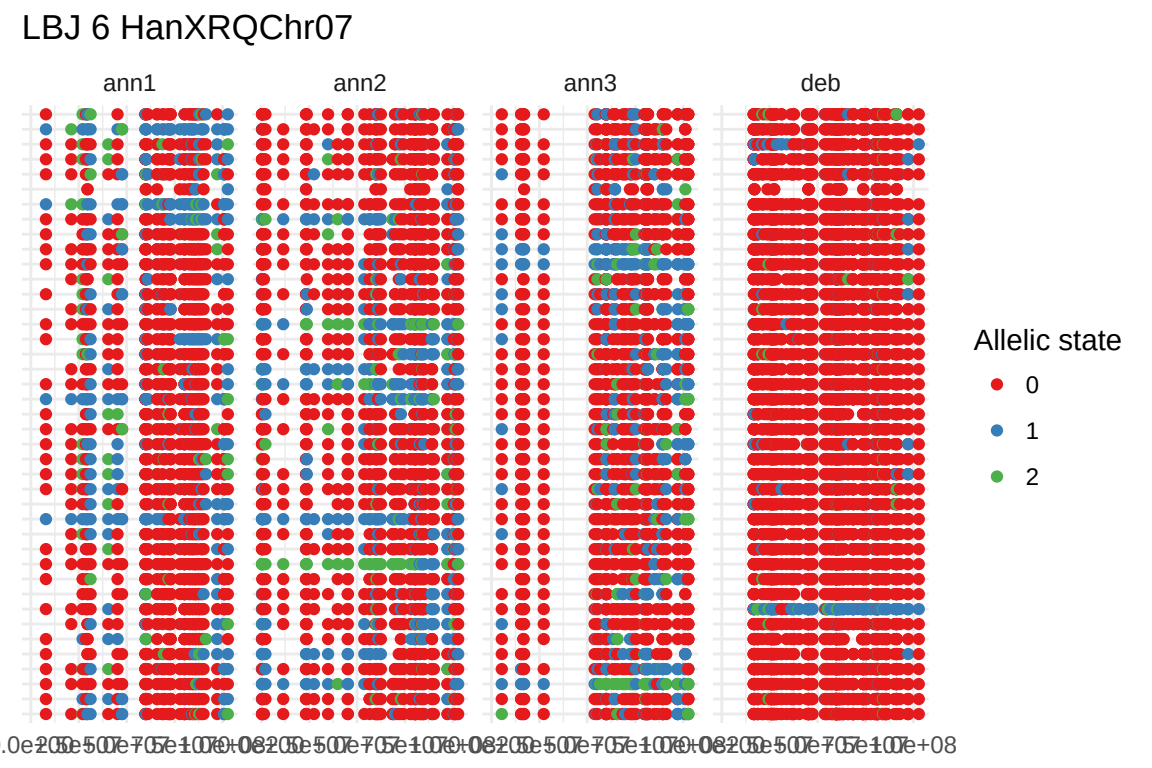
LBJ 6 HanXRQChr06

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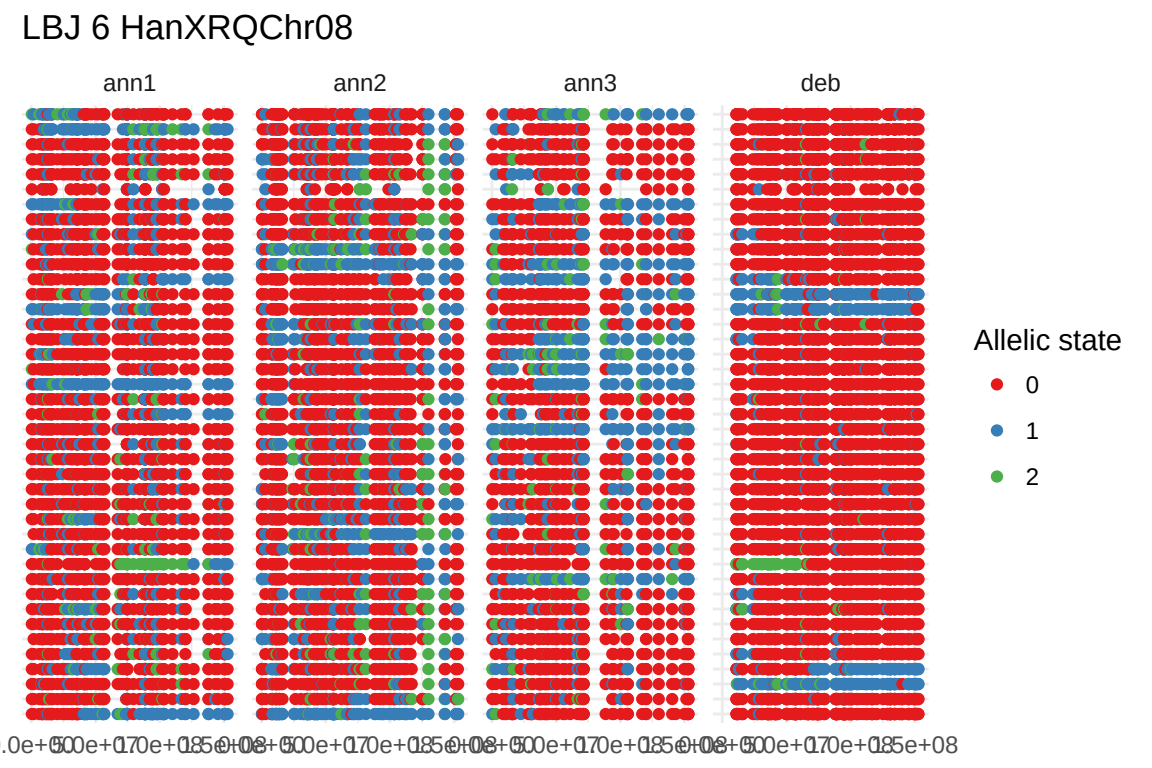
LBJ 6 HanXRQChr08
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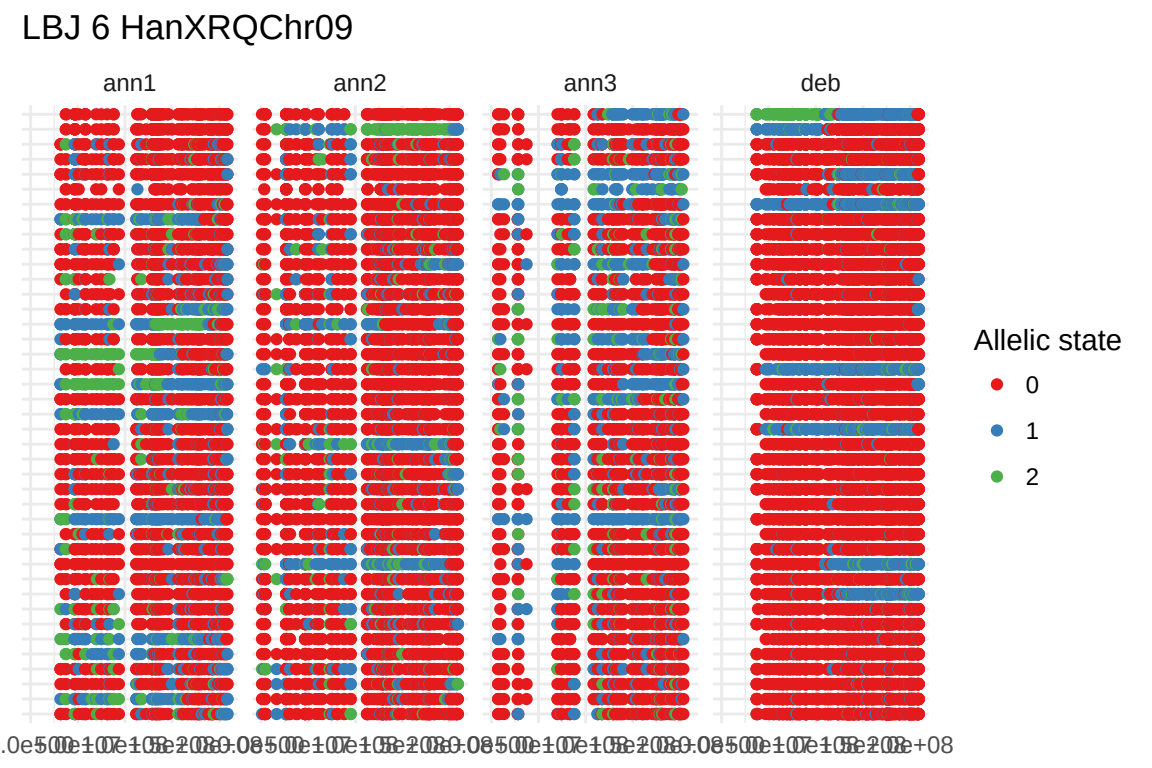
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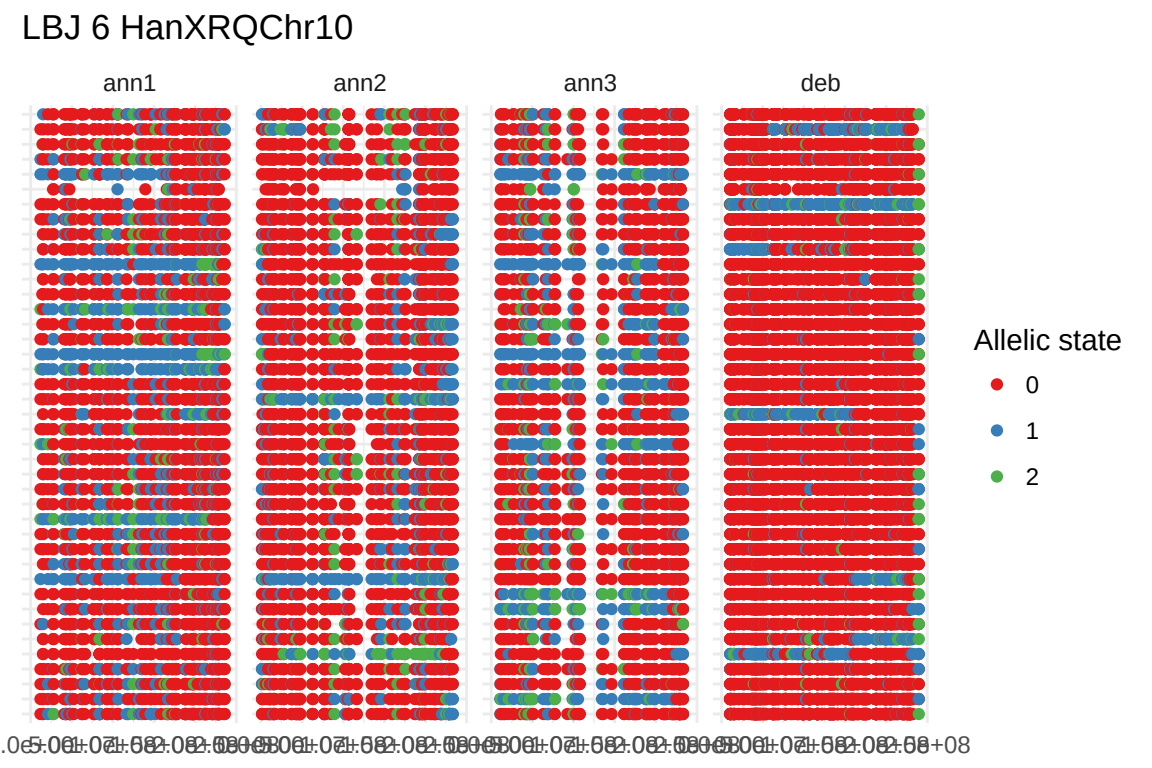
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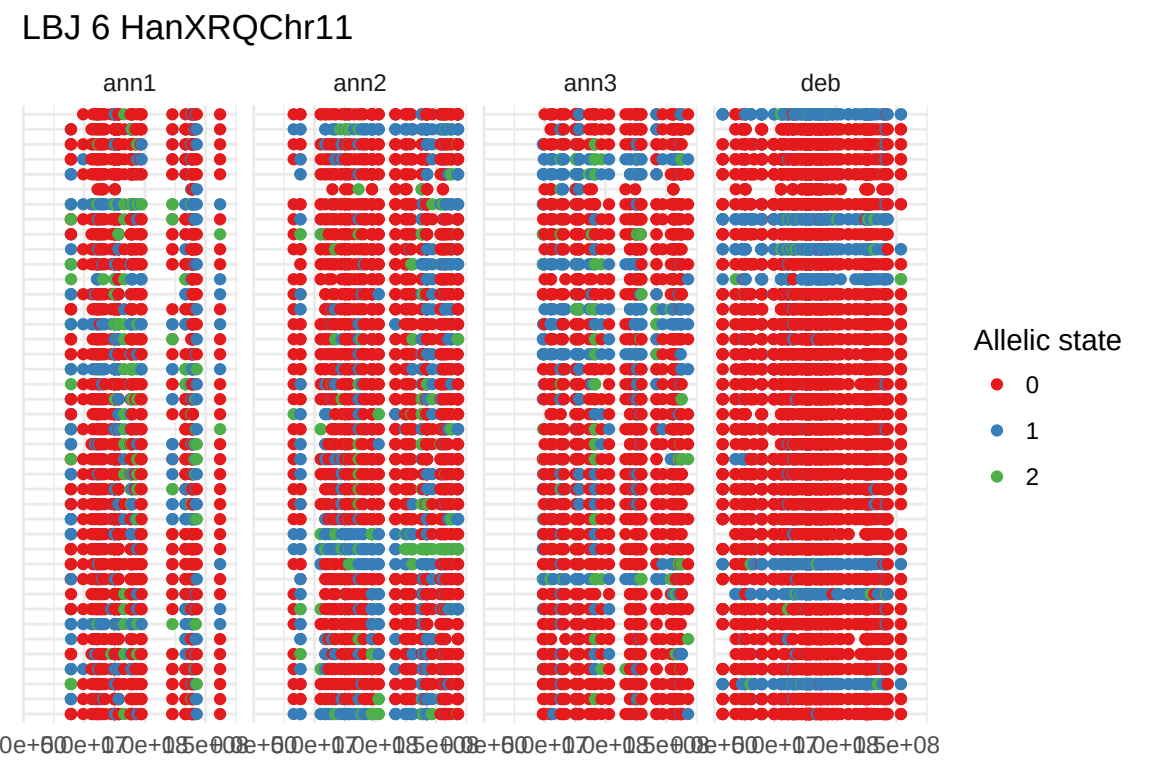
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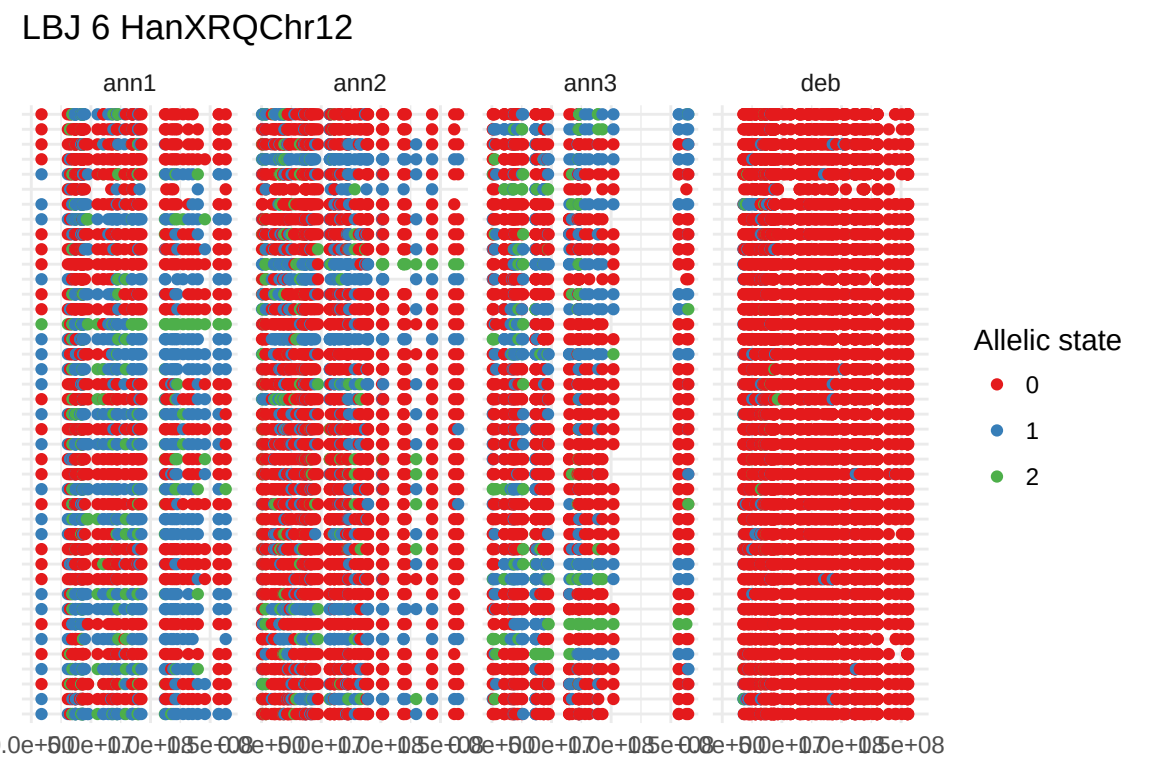
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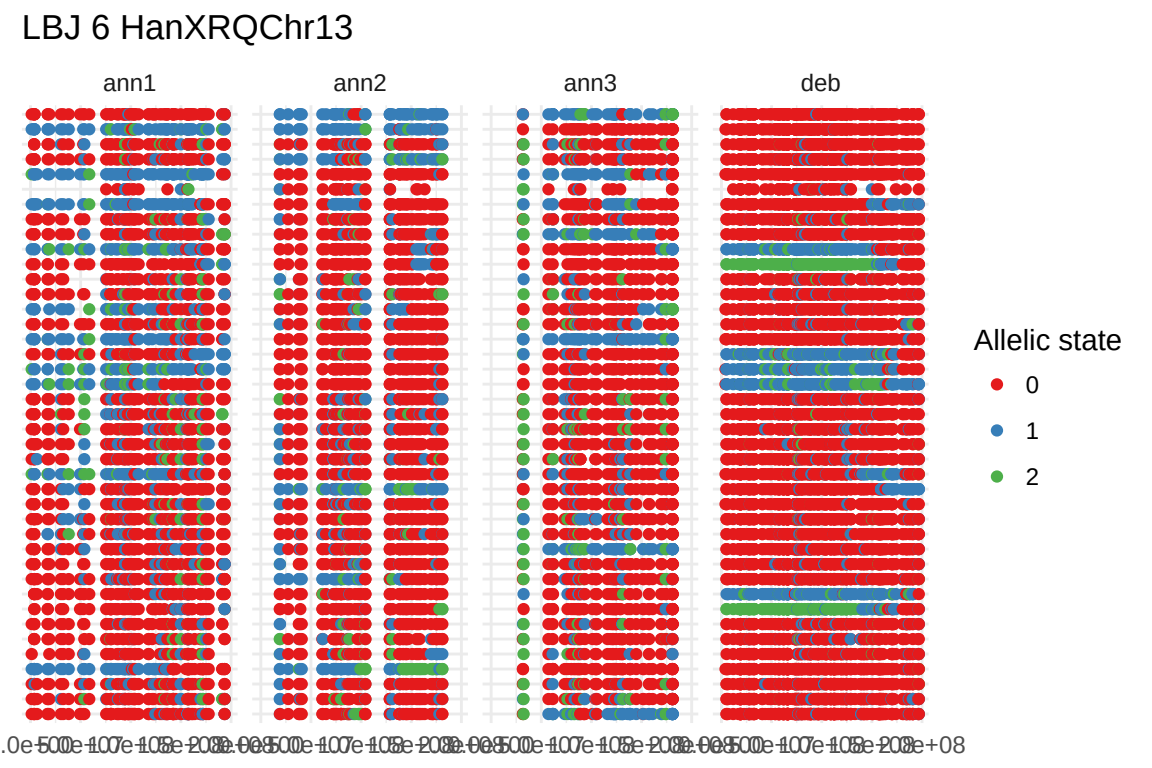
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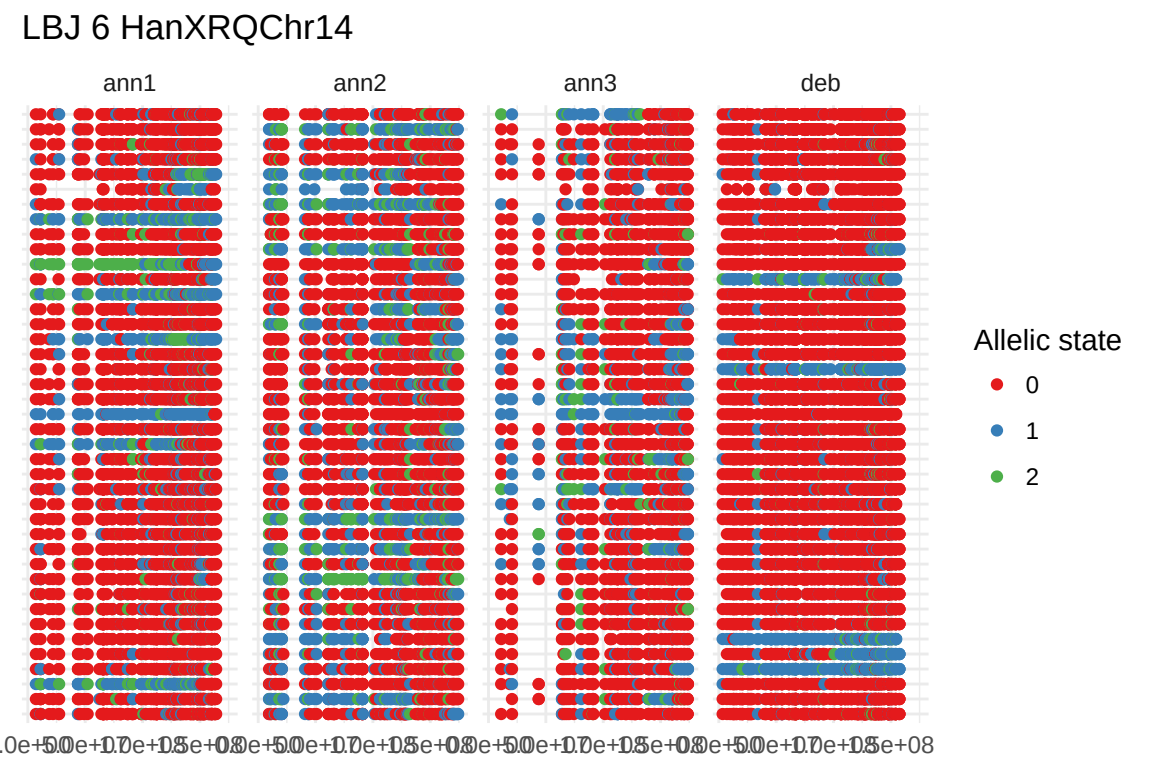
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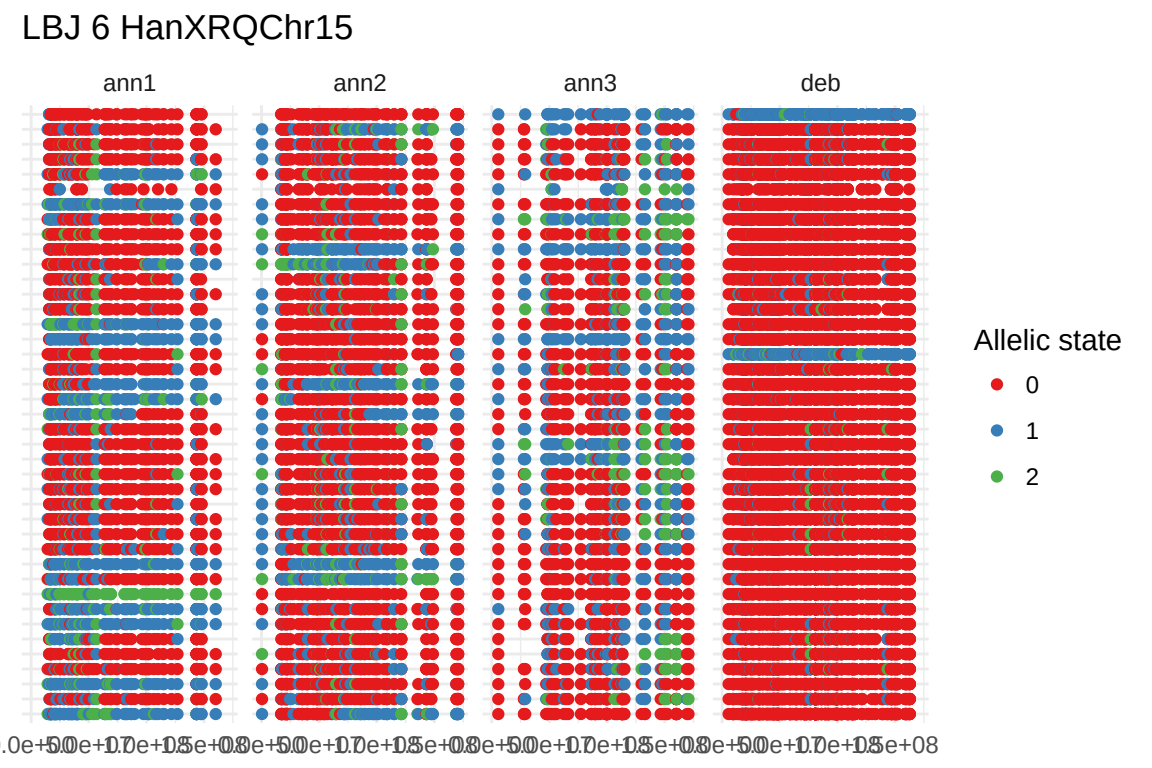
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ann3
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2
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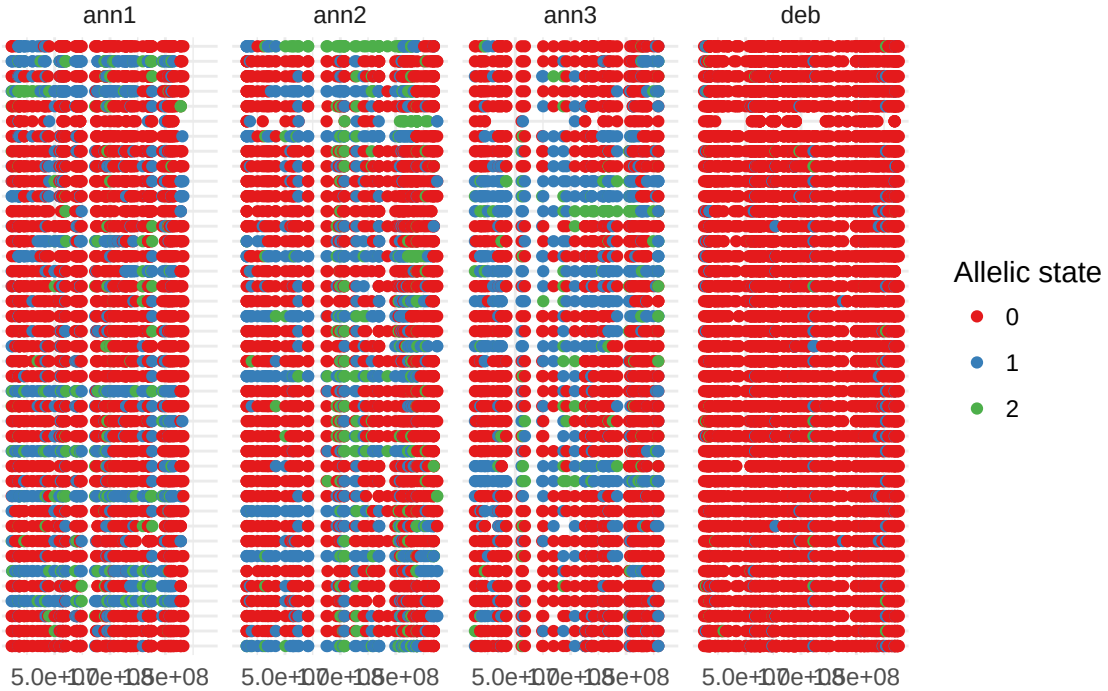
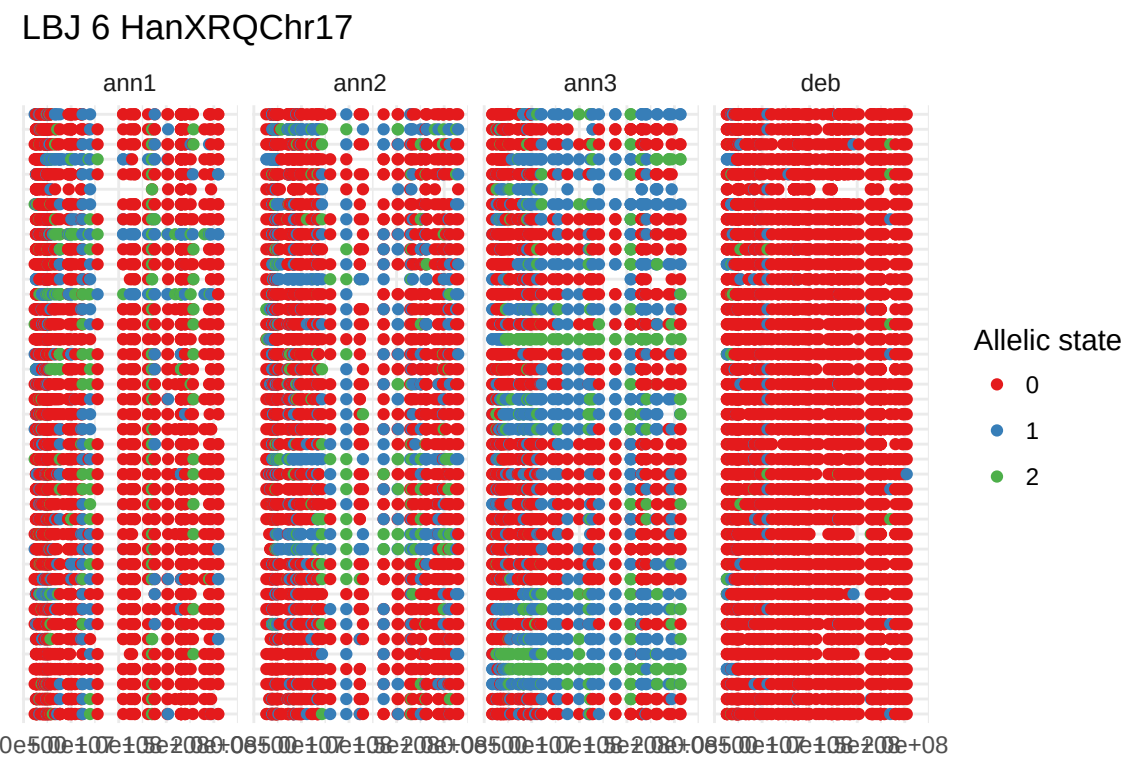
LBJ 6 HanXRQChr16

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ann3
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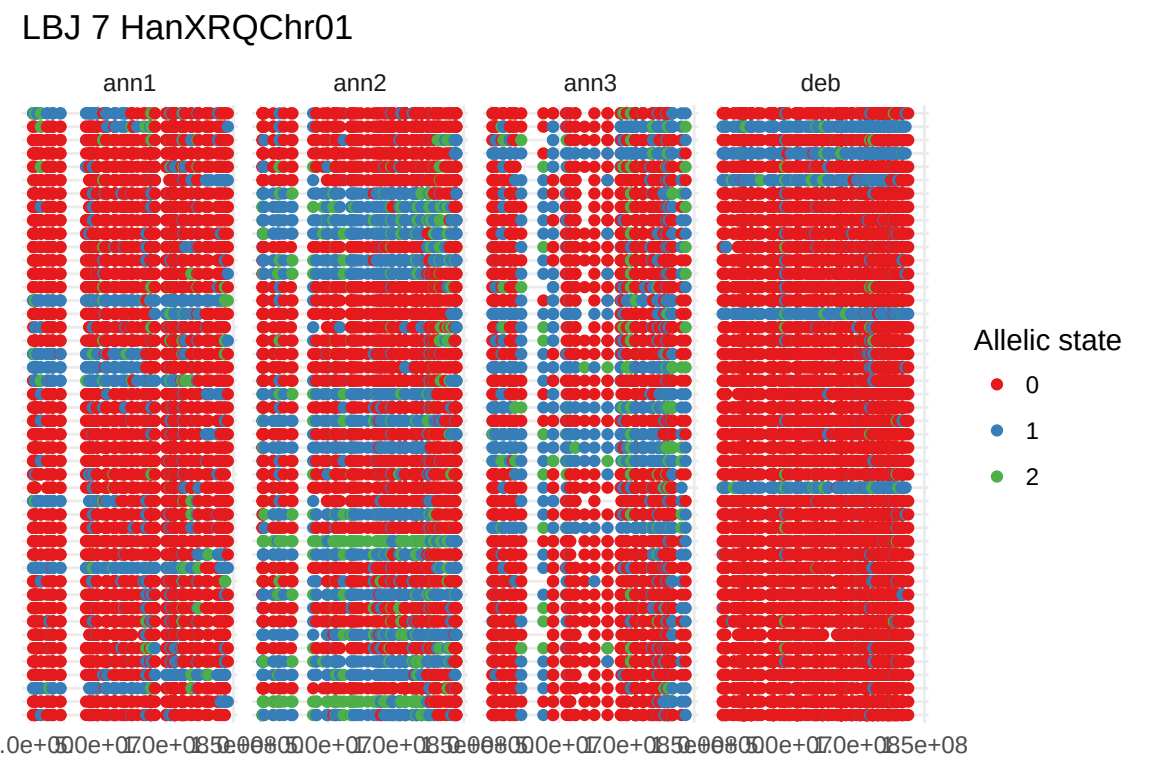
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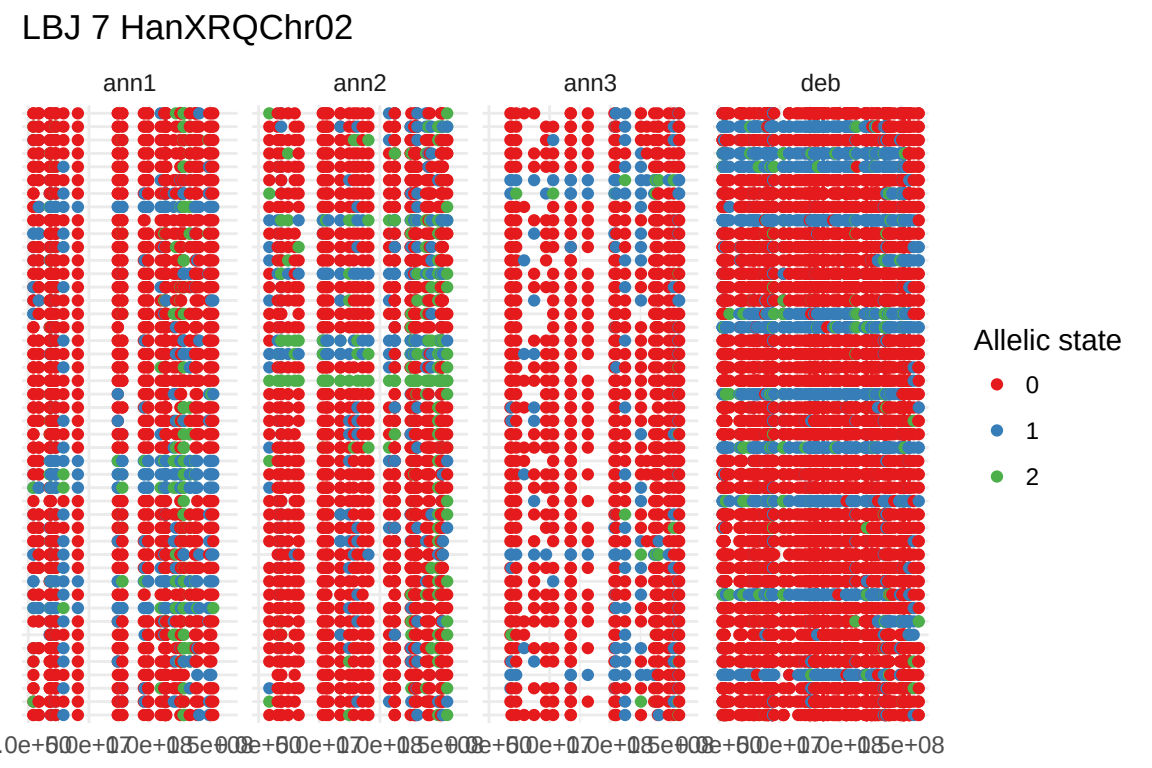
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deb
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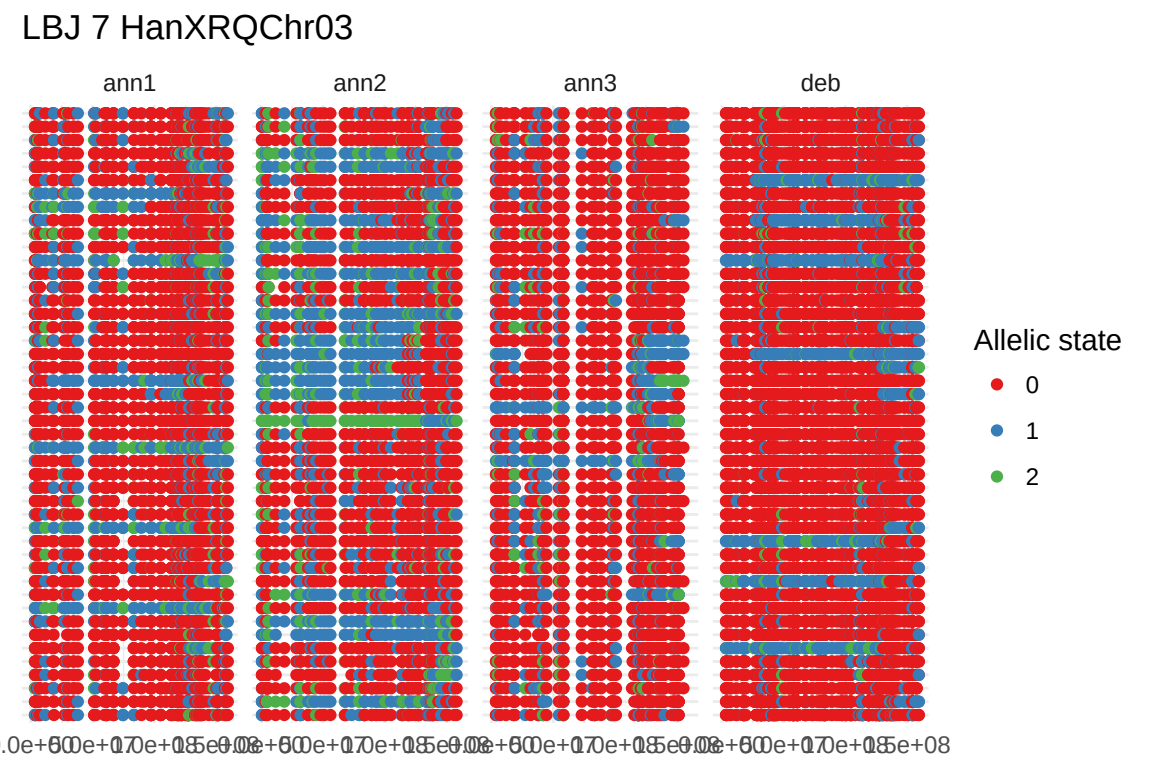
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ann3
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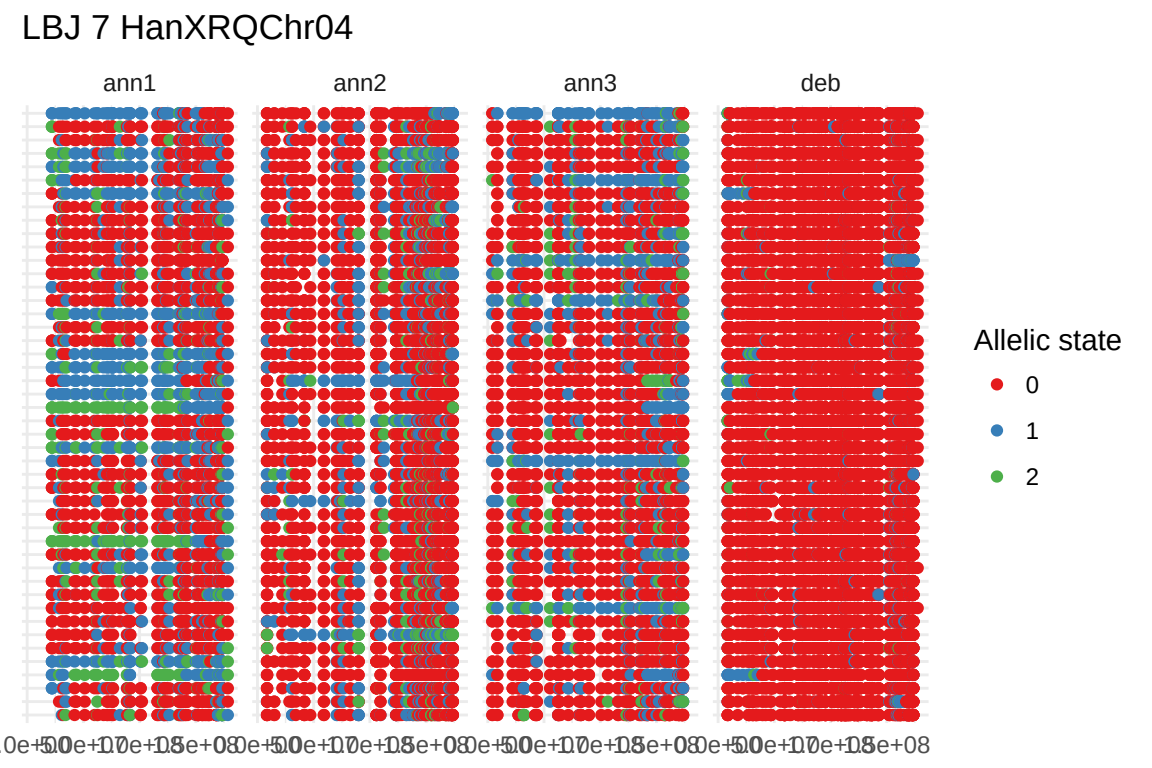
LBJ 7 HanXRQChr04
ann1
ann2
ann3
deb
Allelic state
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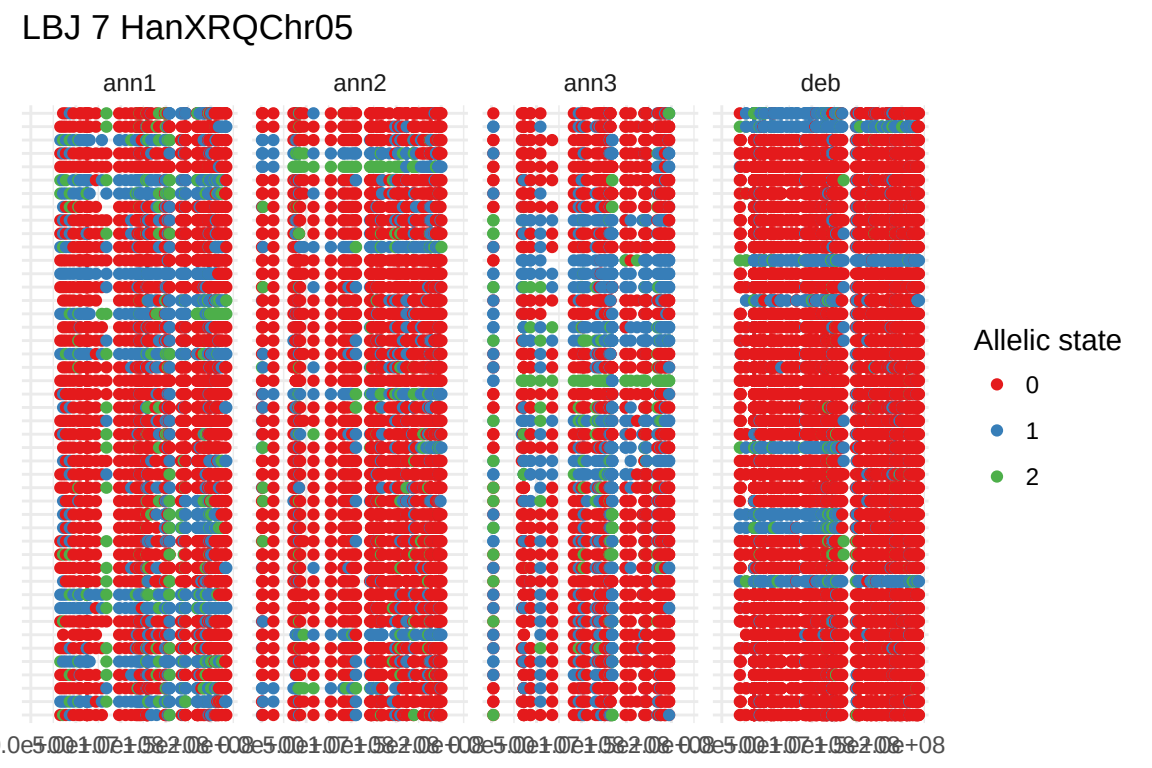
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ann1
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Allelic state
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1
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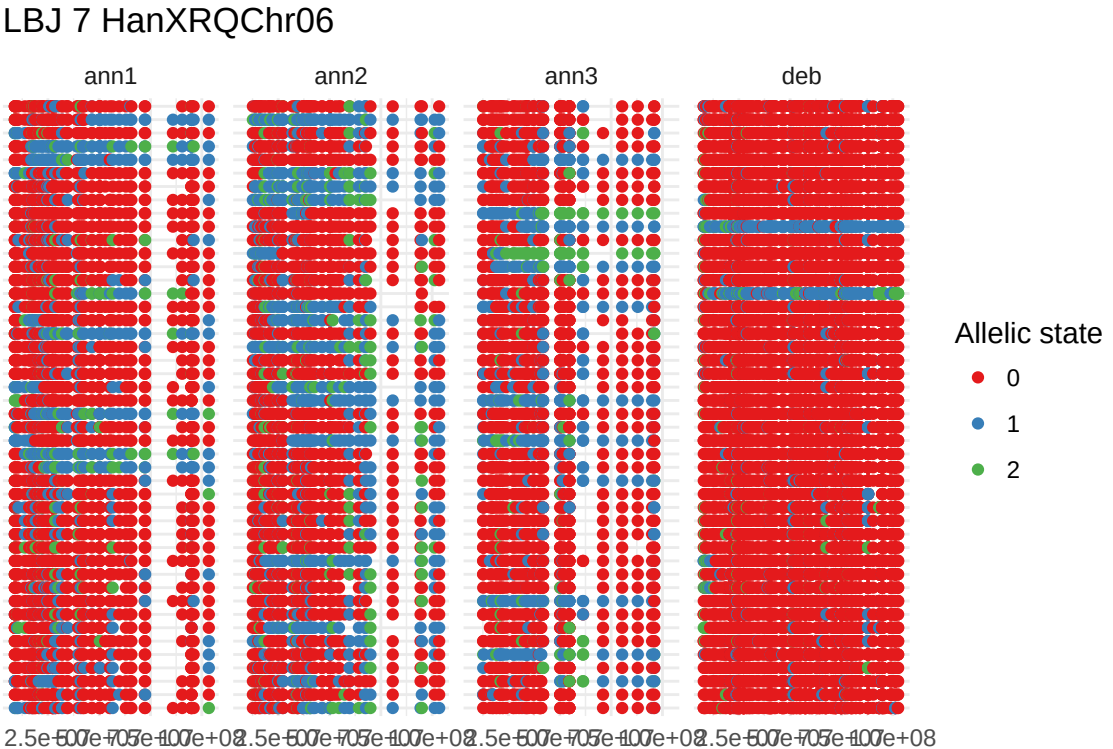
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7.5e+08
1.0e+08
Allelic state
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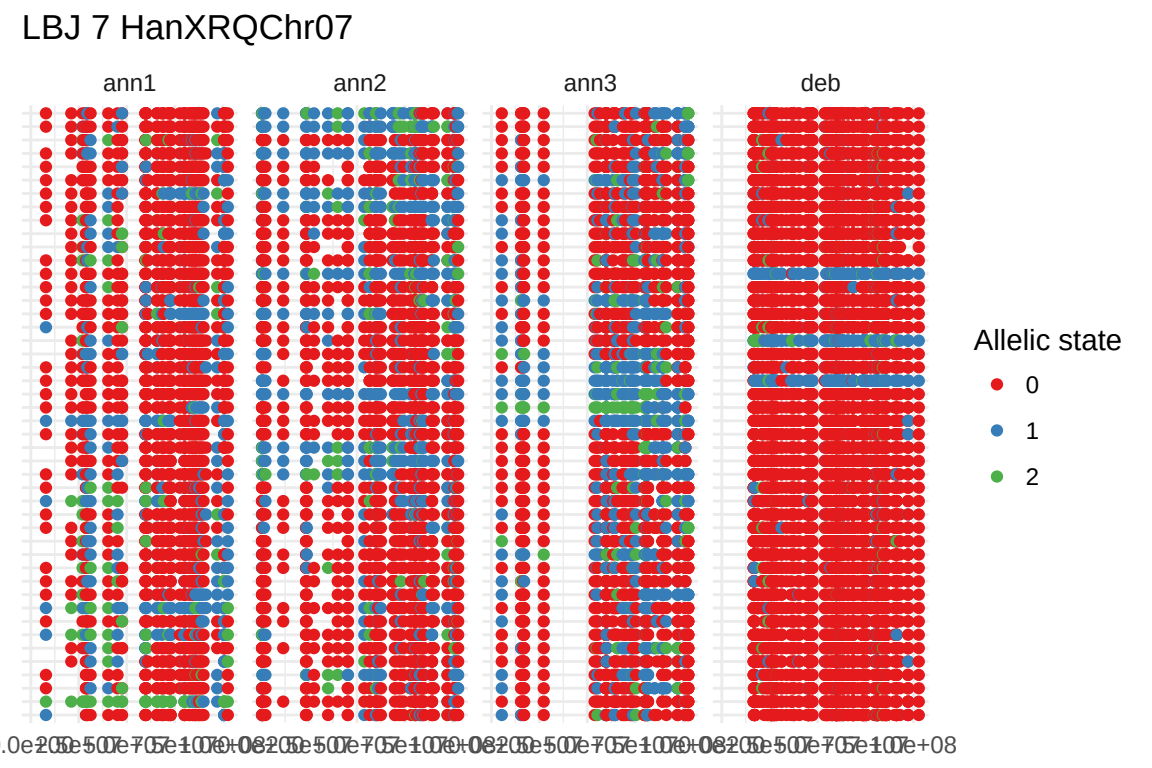
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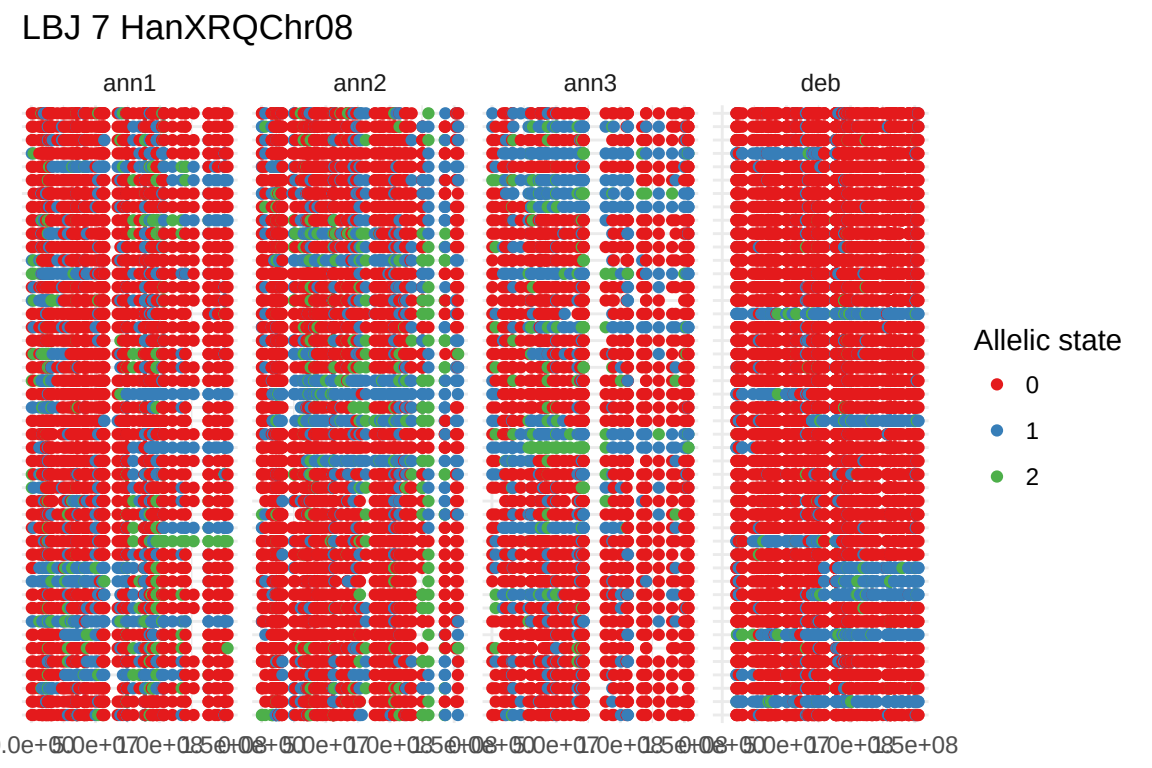
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ann1
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ann3
deb
Allelic state
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1
2
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5.0e+07
1.0e+08
1.5e+08

LBJ 7 HanXRQChr09
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deb
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1
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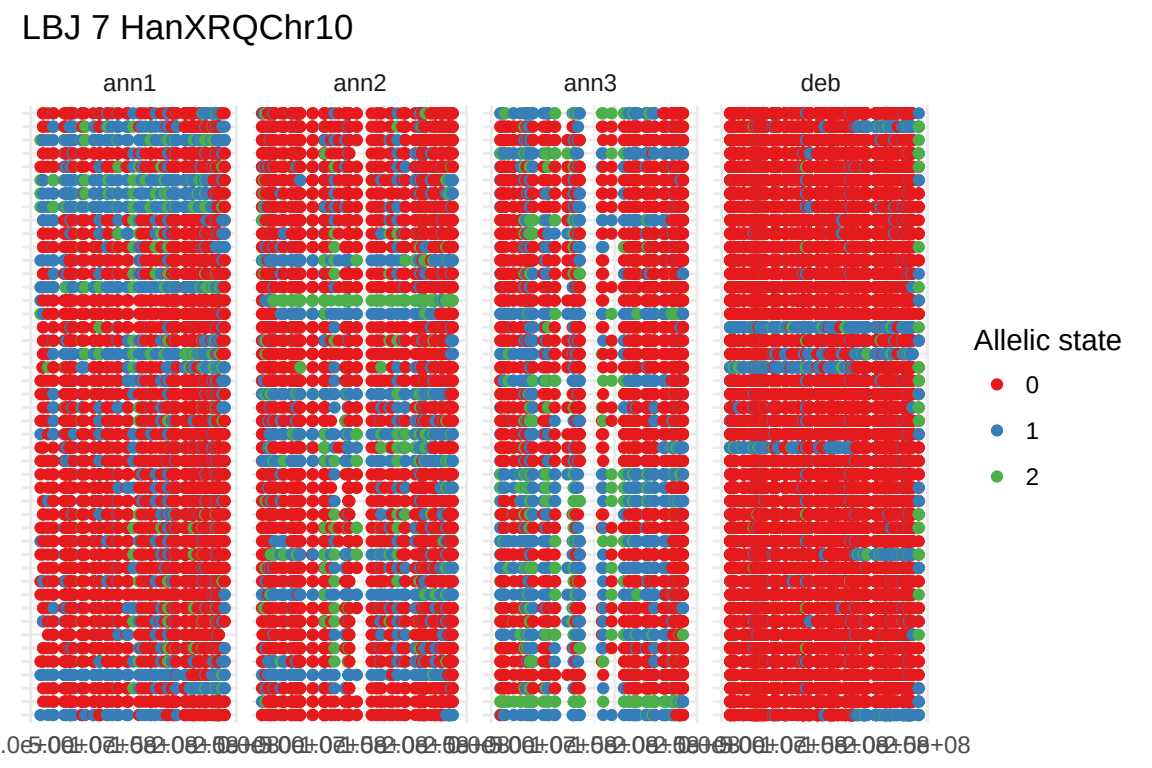
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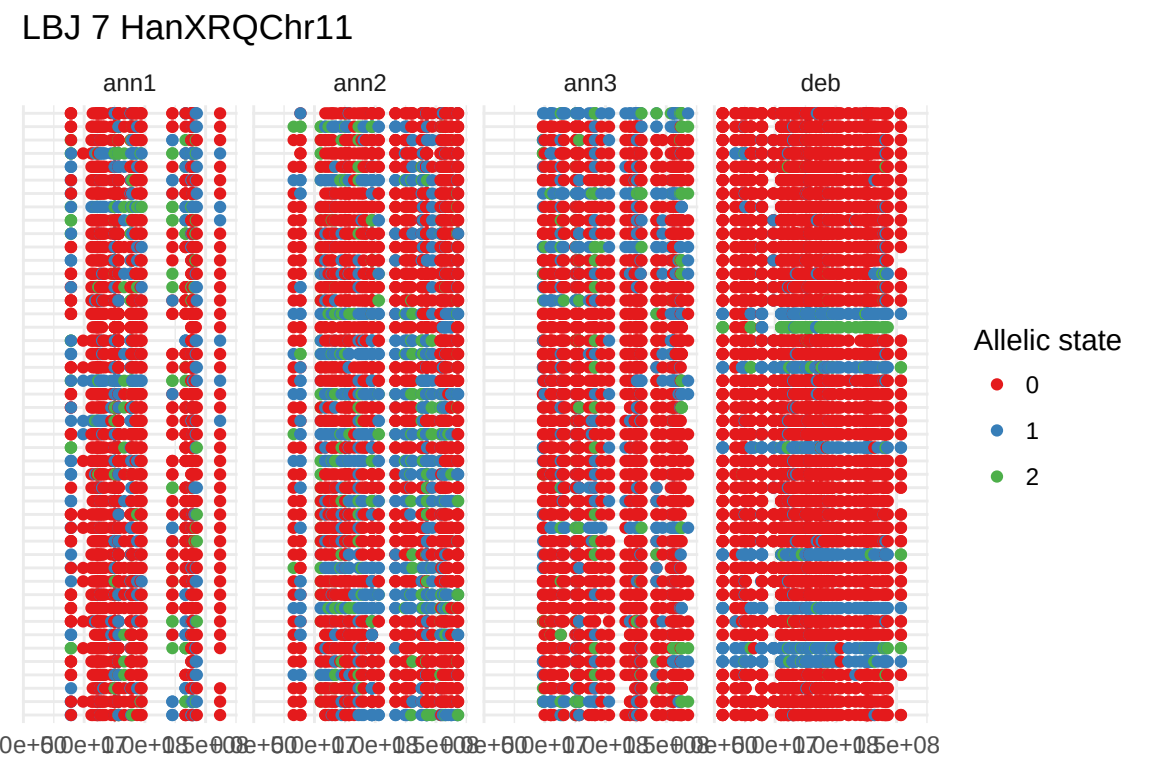
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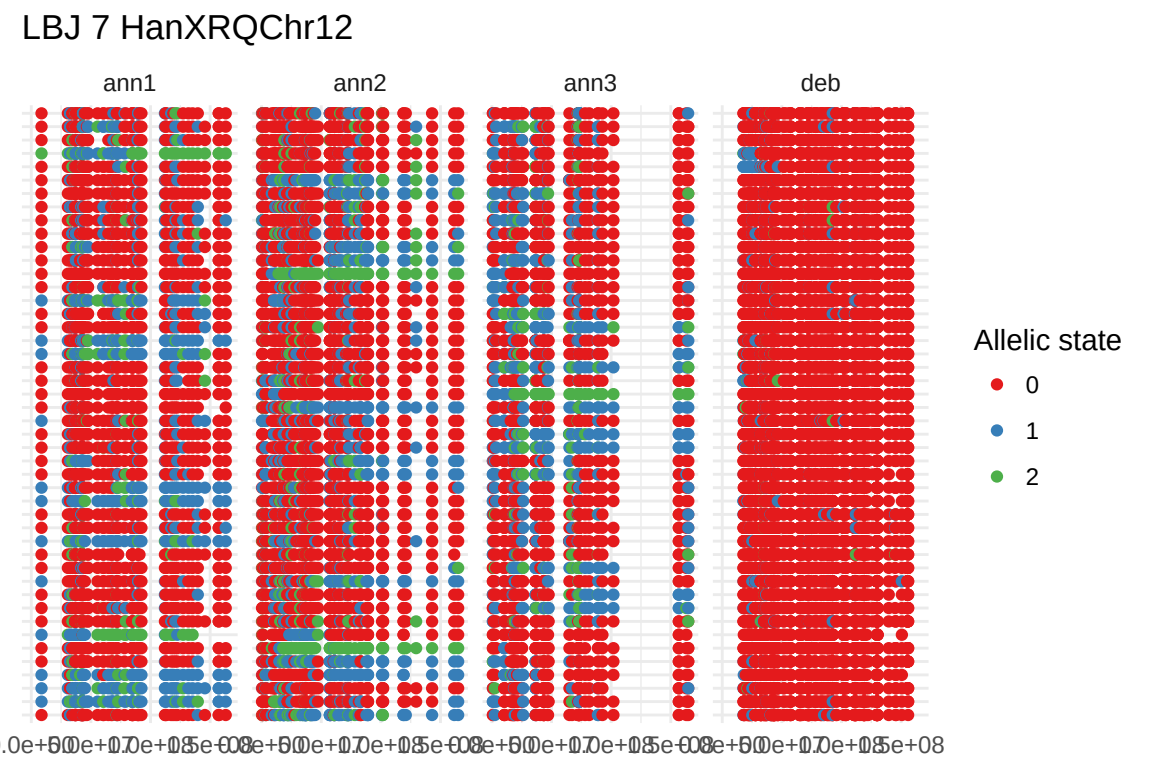
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ann1
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deb
Allelic state
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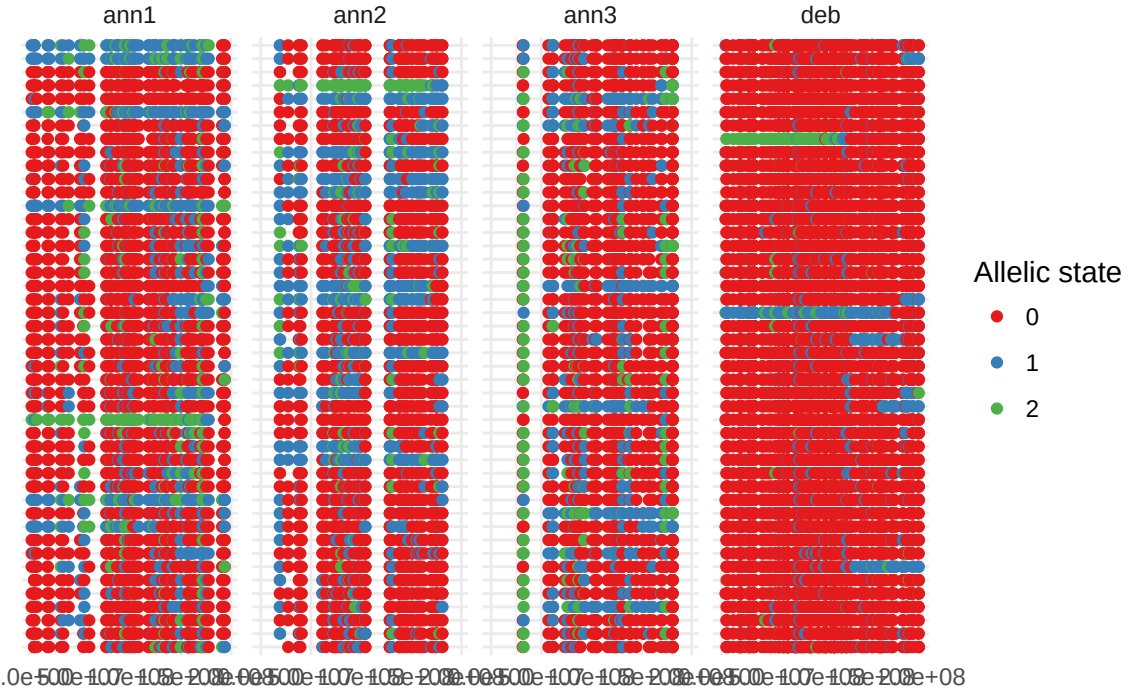
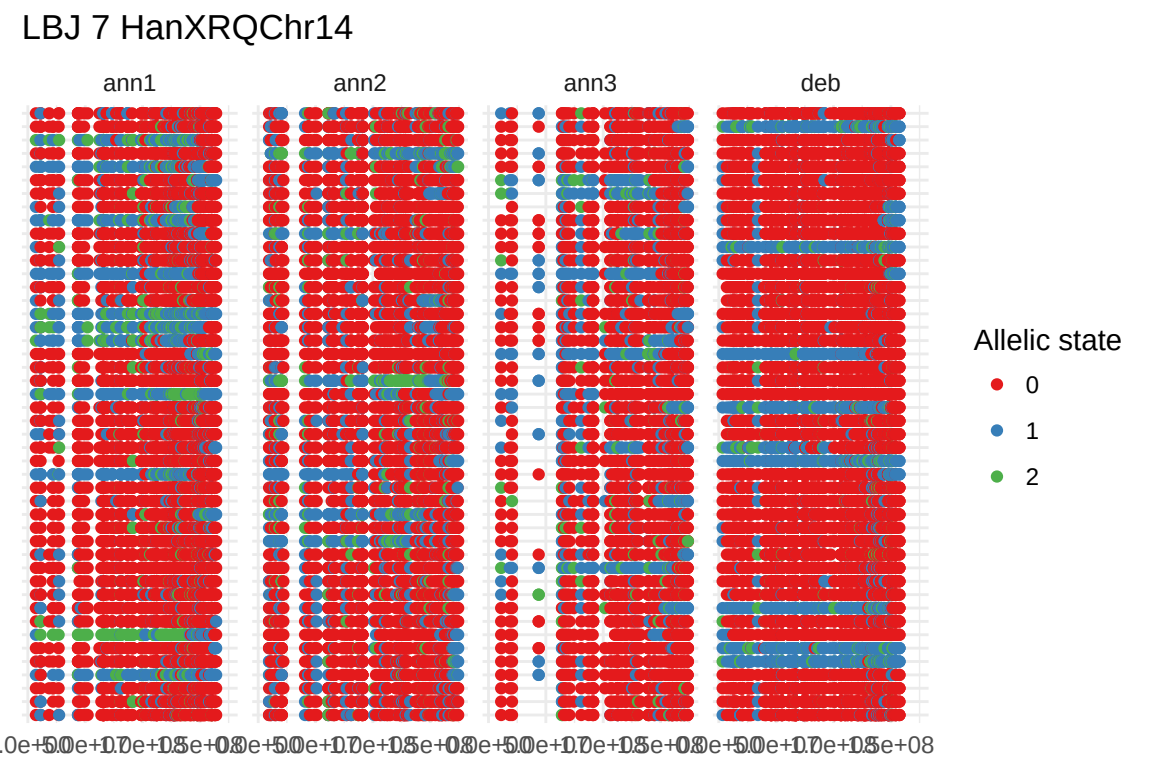
LBJ 7 HanXRQChr13

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ann1
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1
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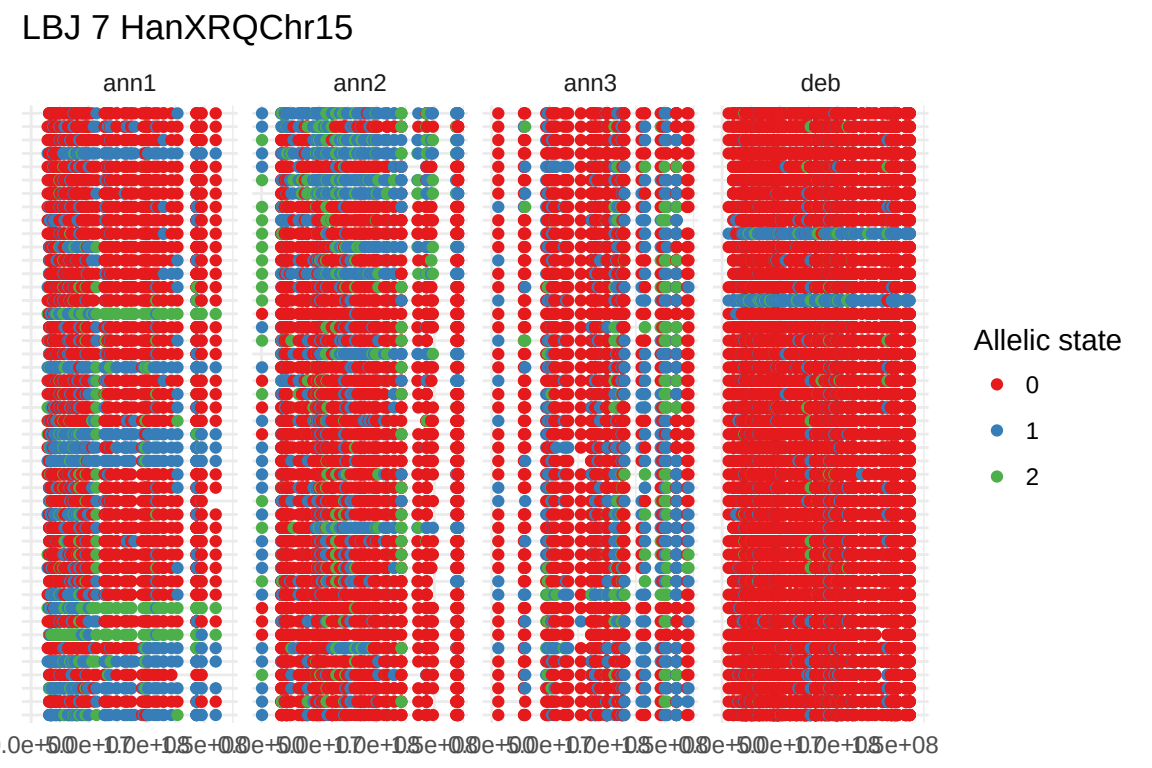
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ann1
ann2
ann3
deb
Allelic state
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1
2
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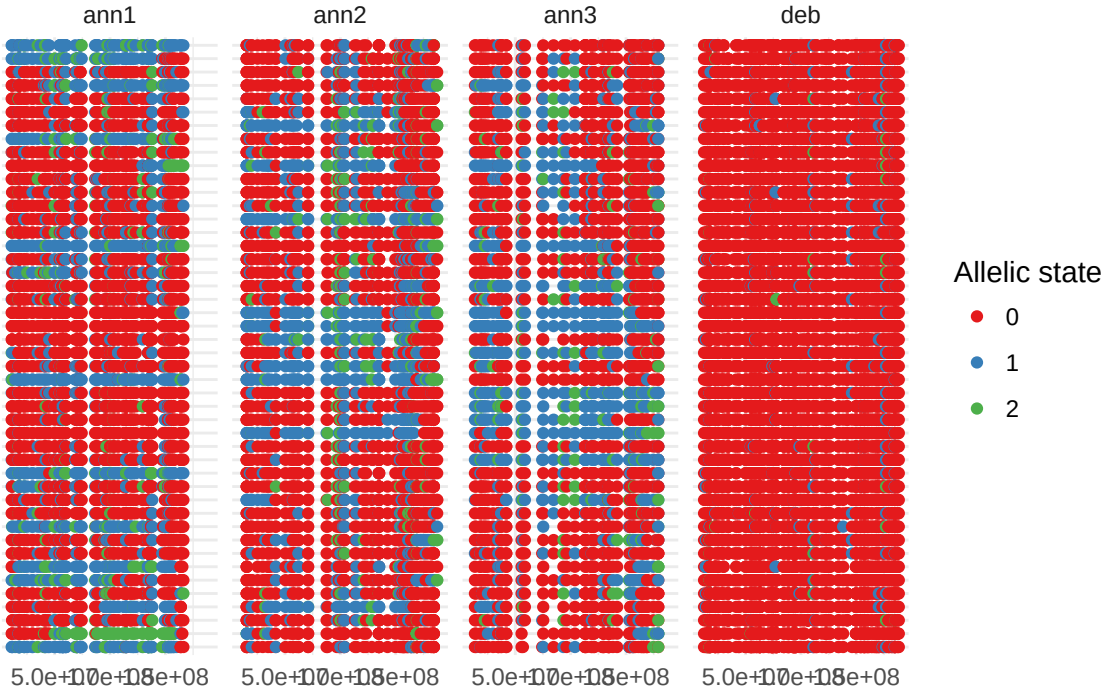
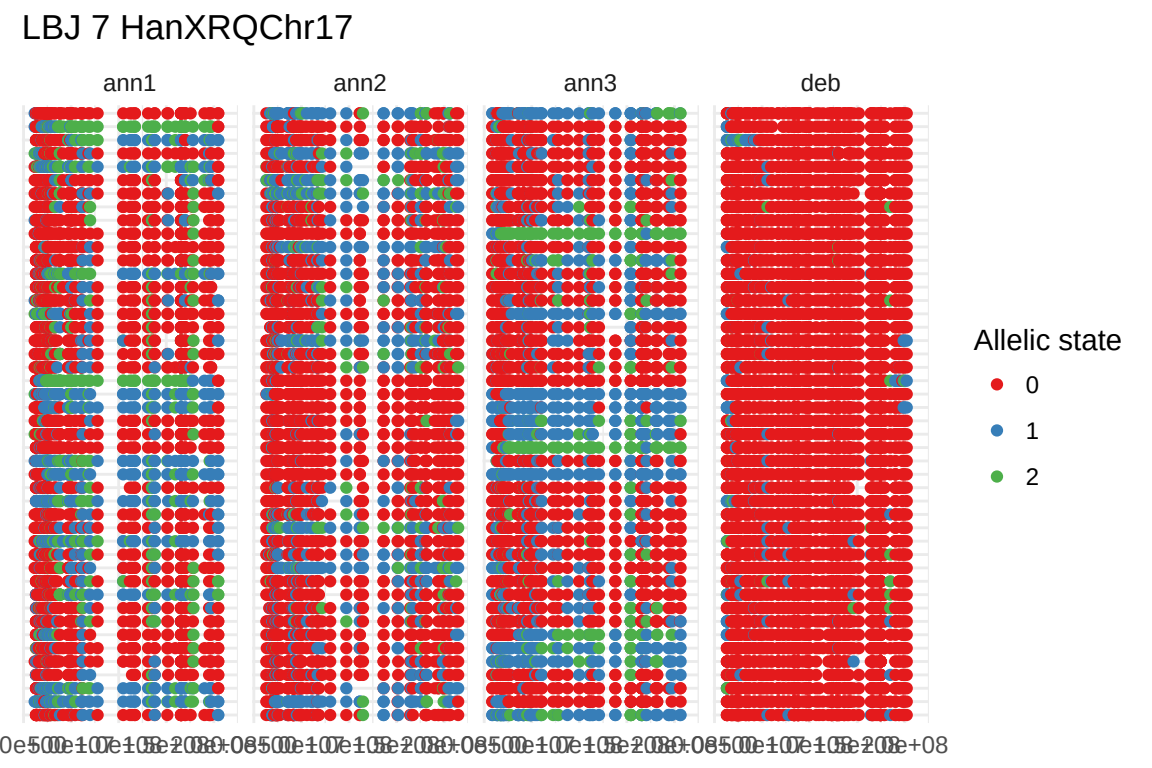
LBJ 7 HanXRQChr16

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ann1
ann2
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deb
Allelic state
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1
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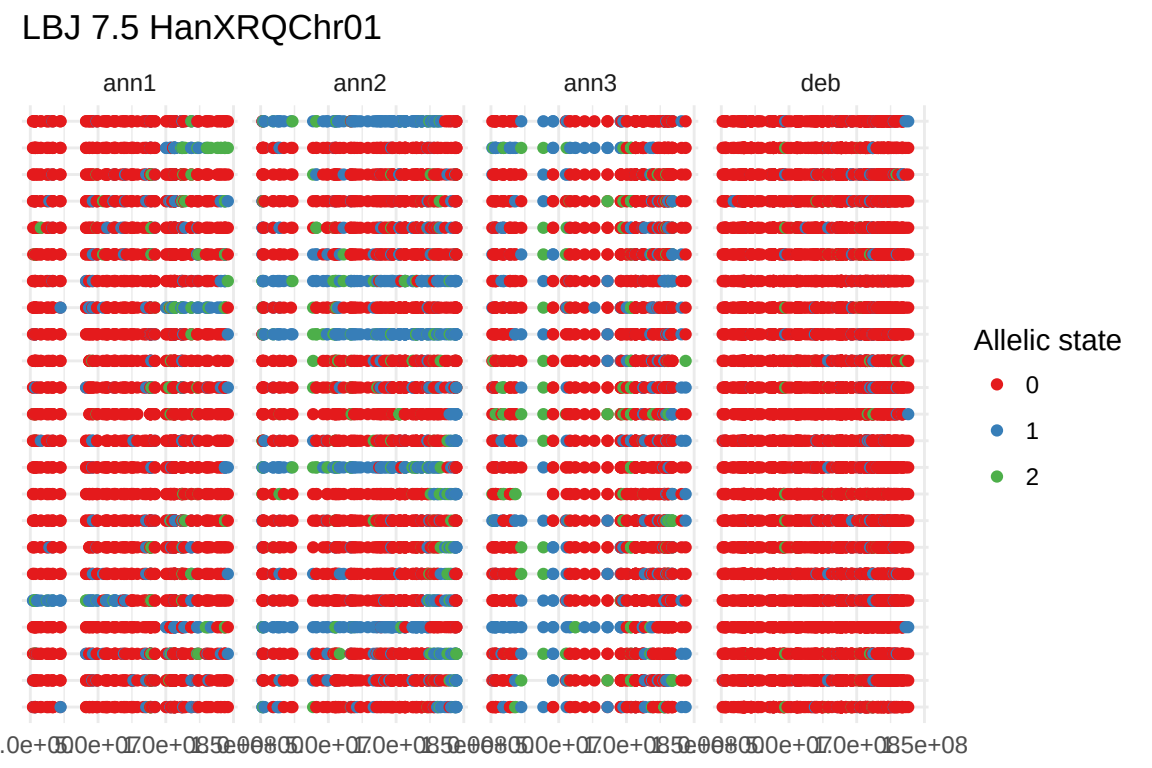
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deb
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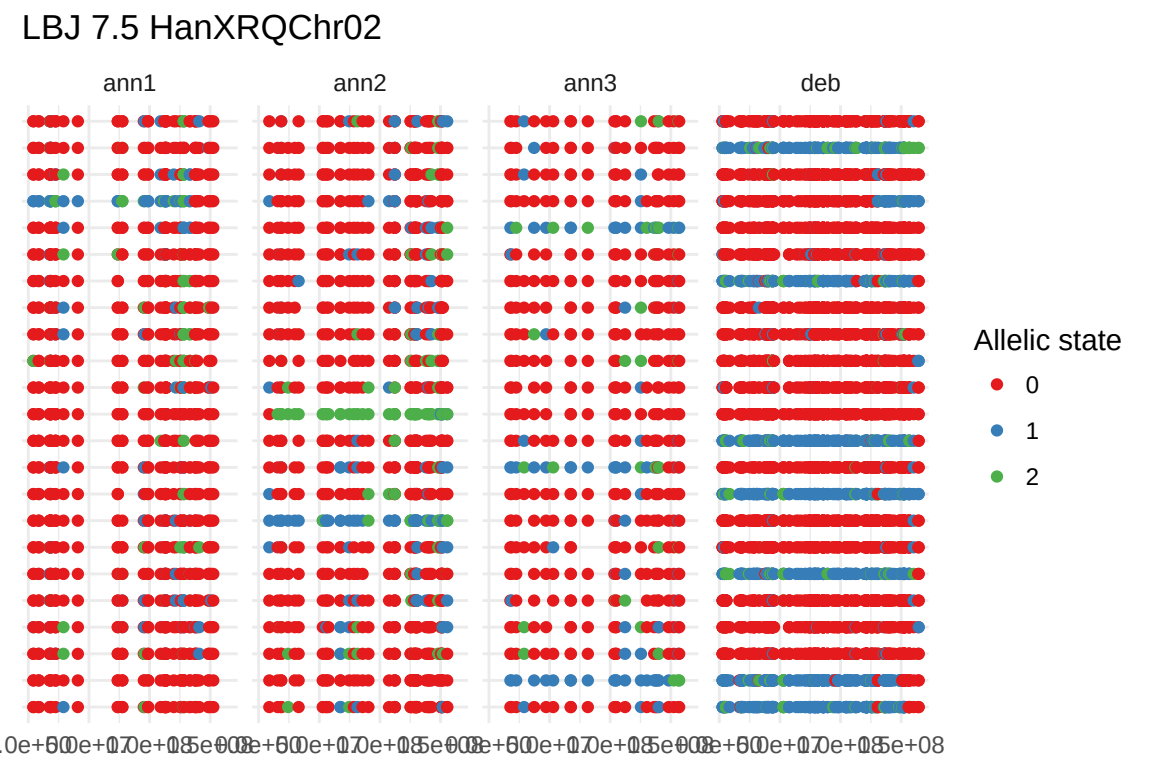
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deb
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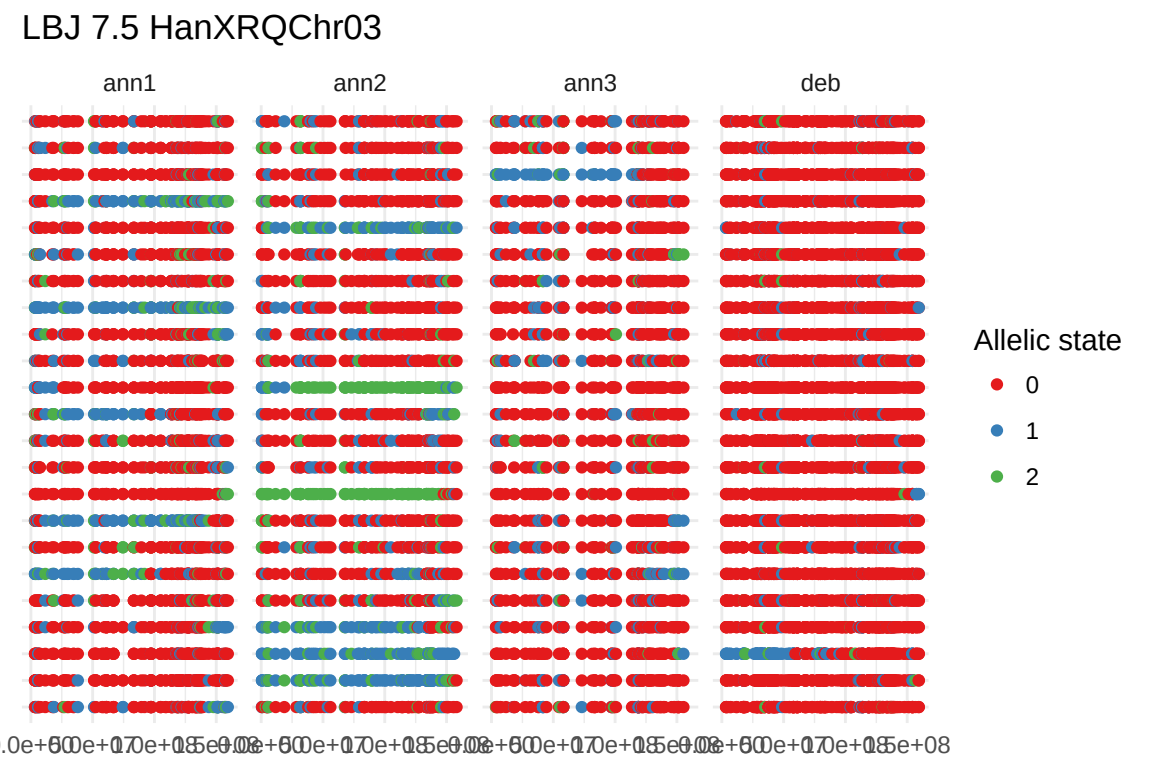
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deb
Allelic state
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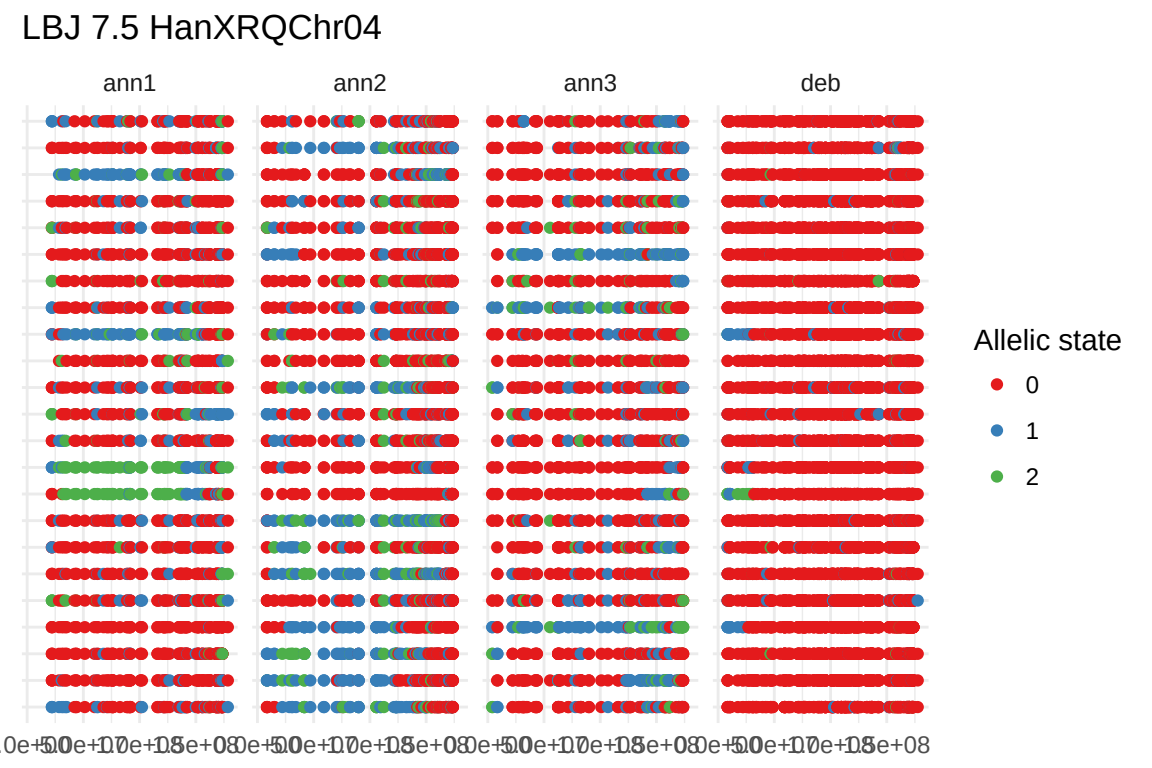
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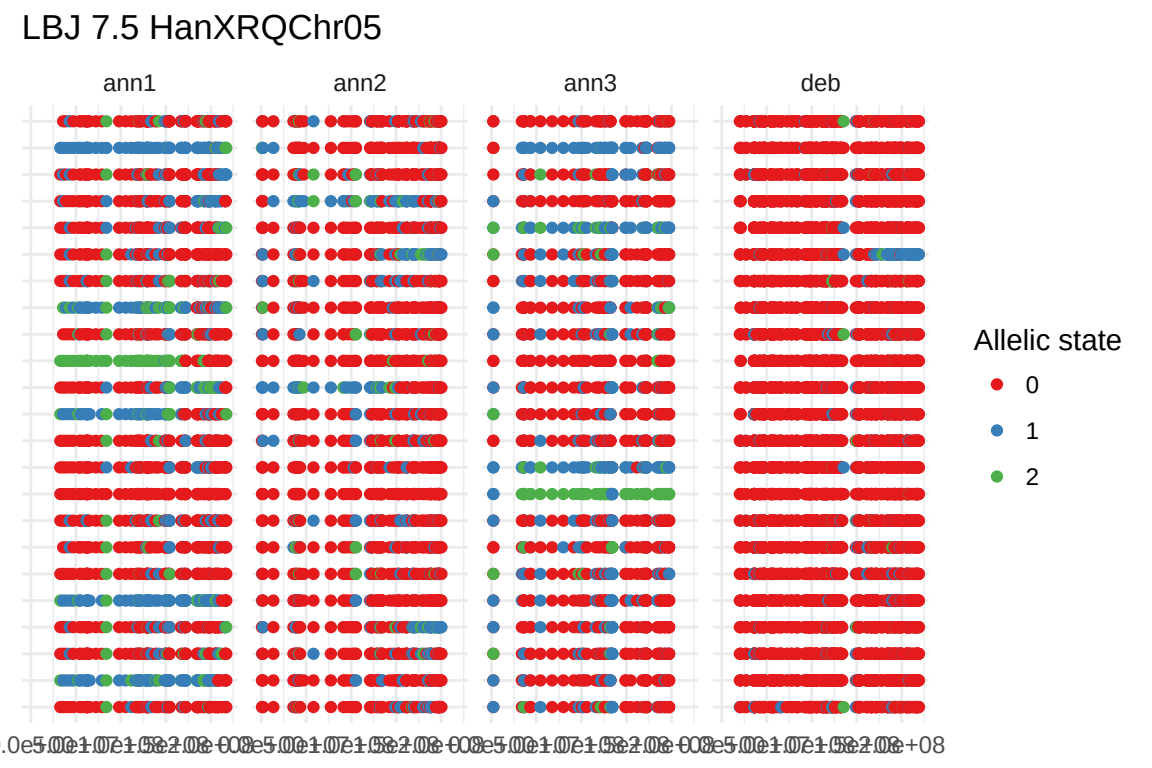
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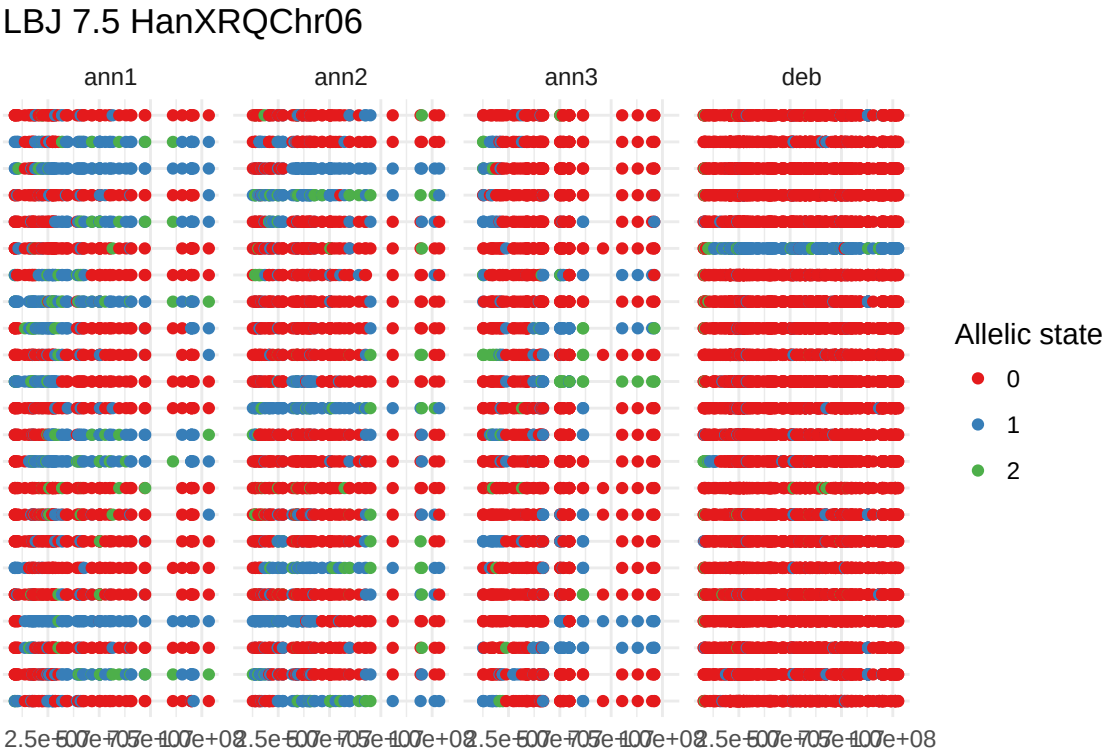
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deb
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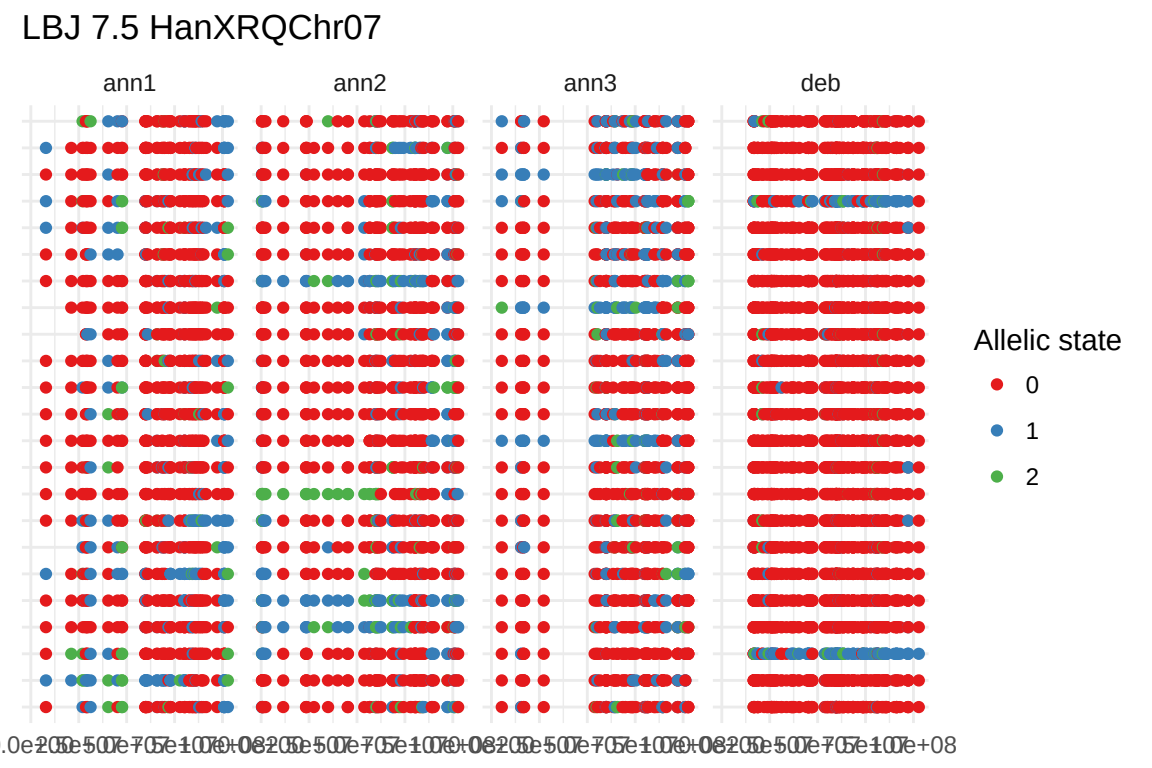
7.5e-07
1.0e+08
Allelic state
0
1
2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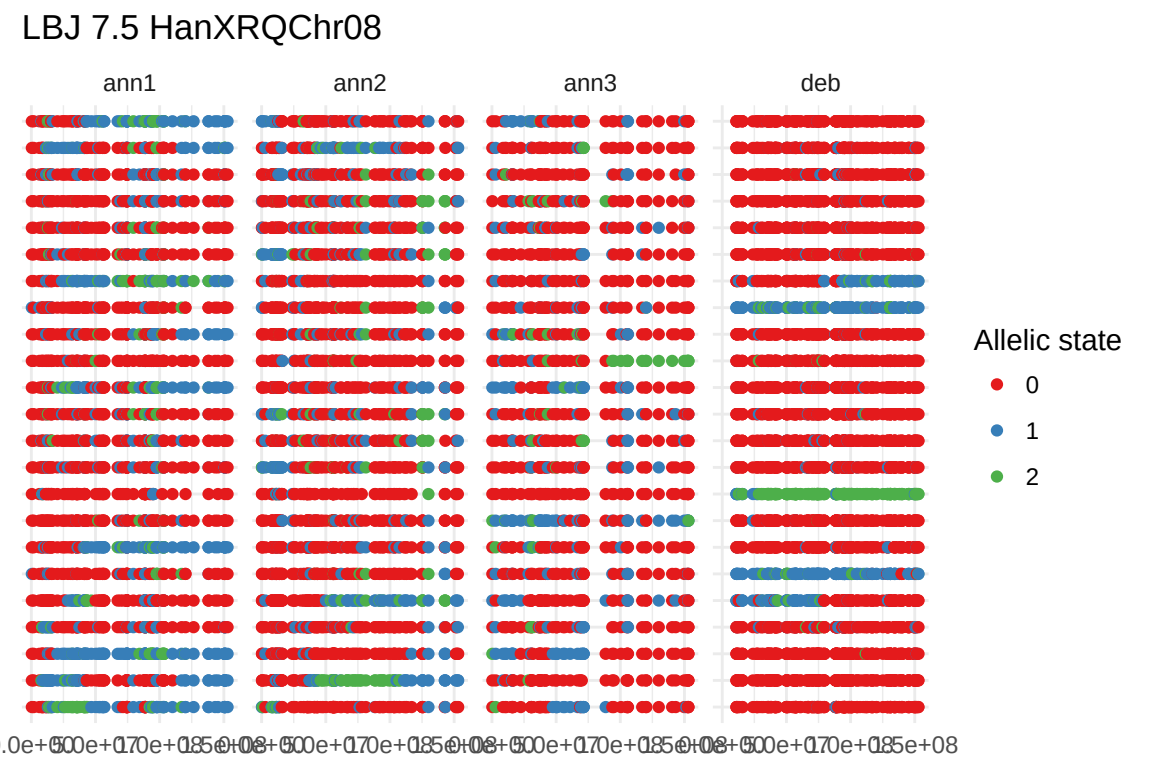
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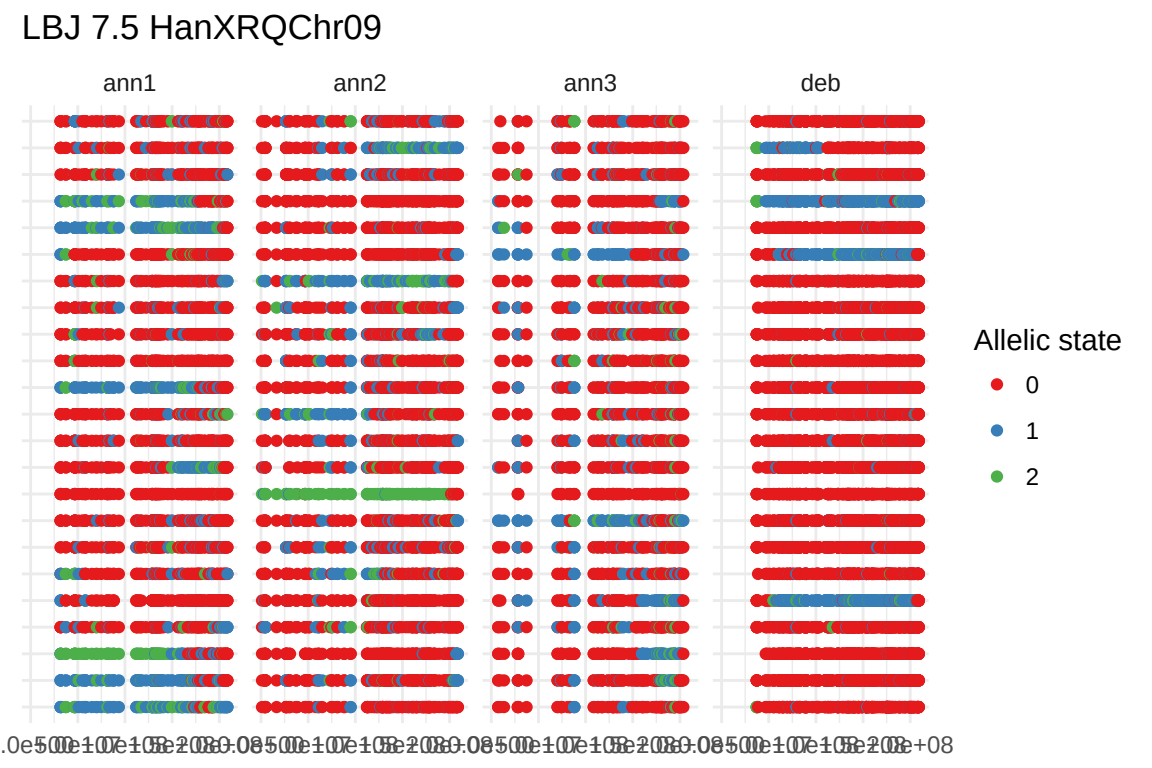
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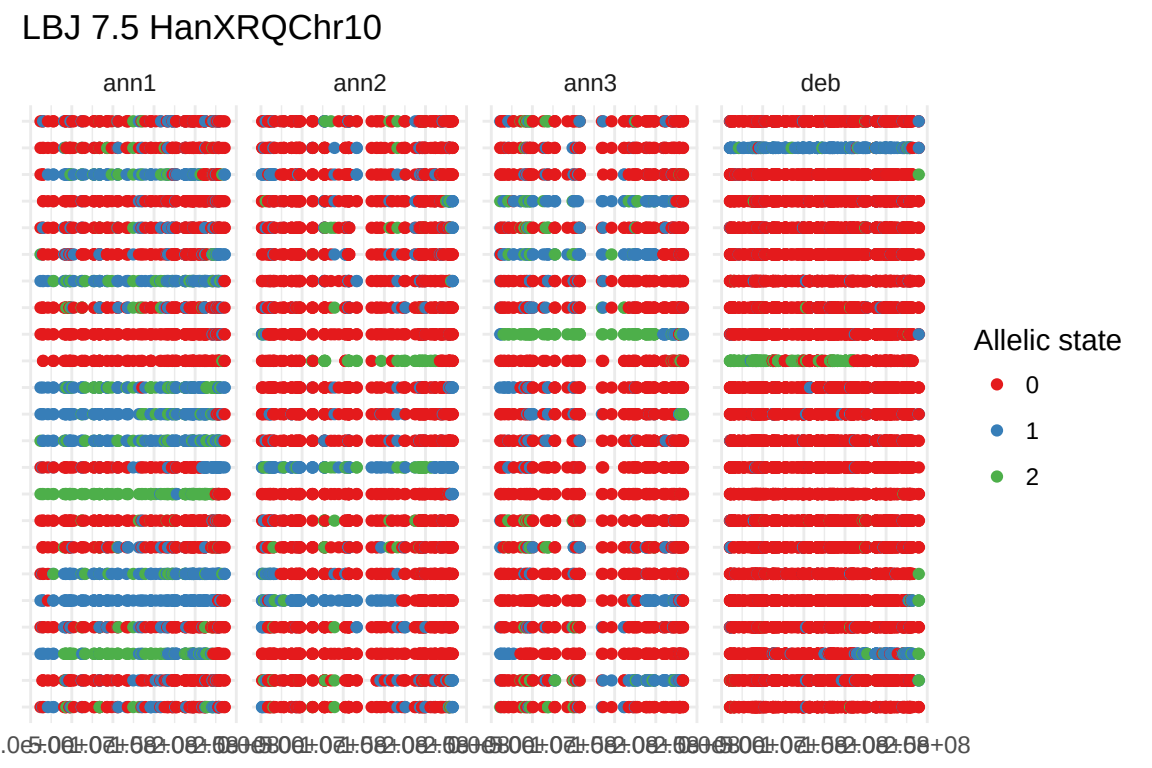
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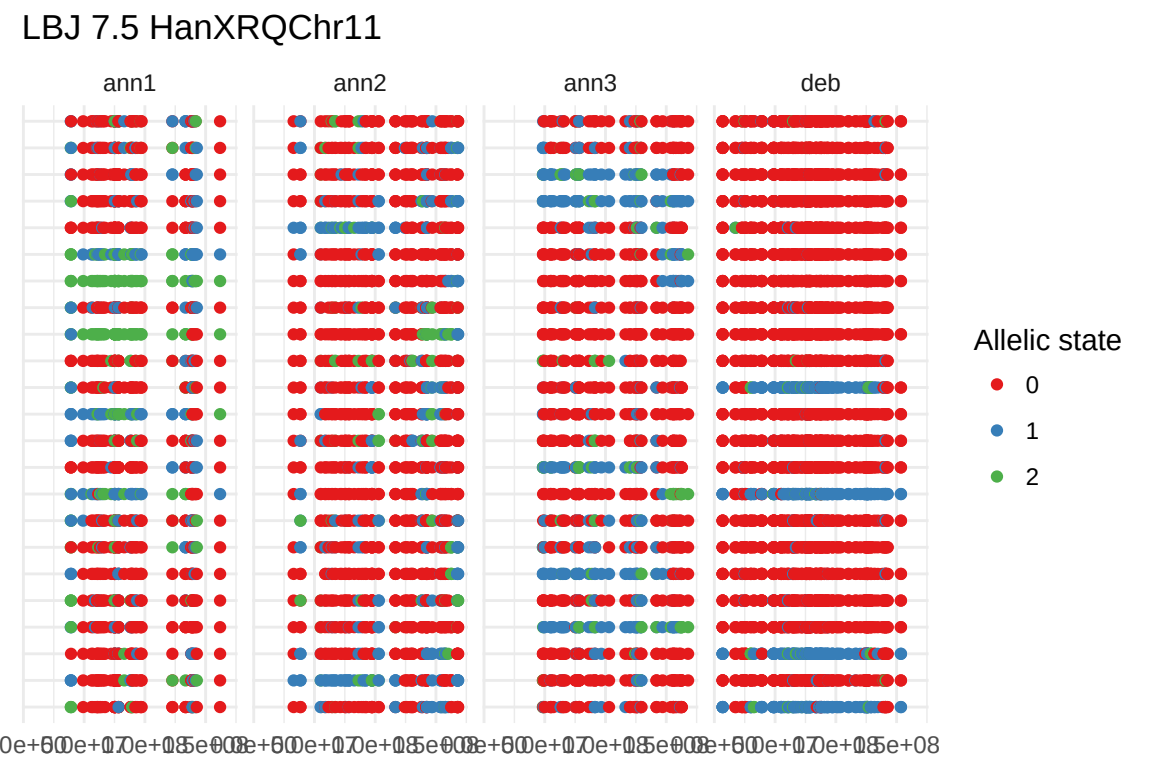
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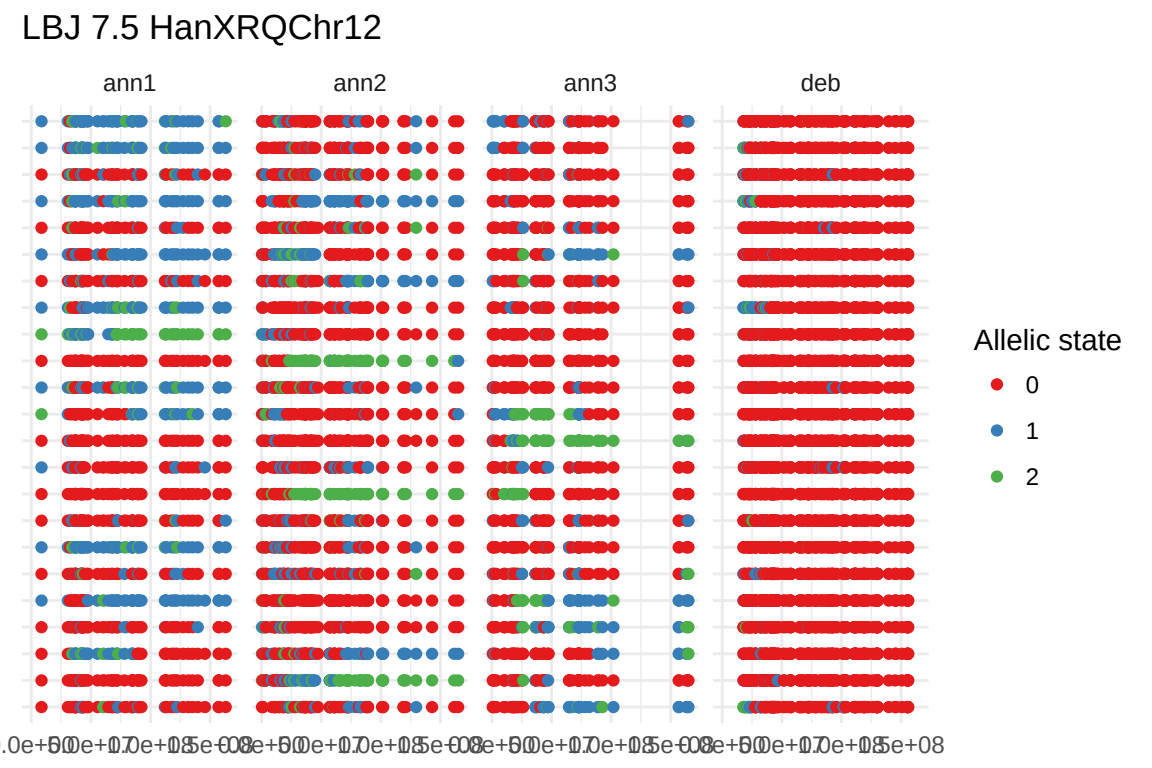
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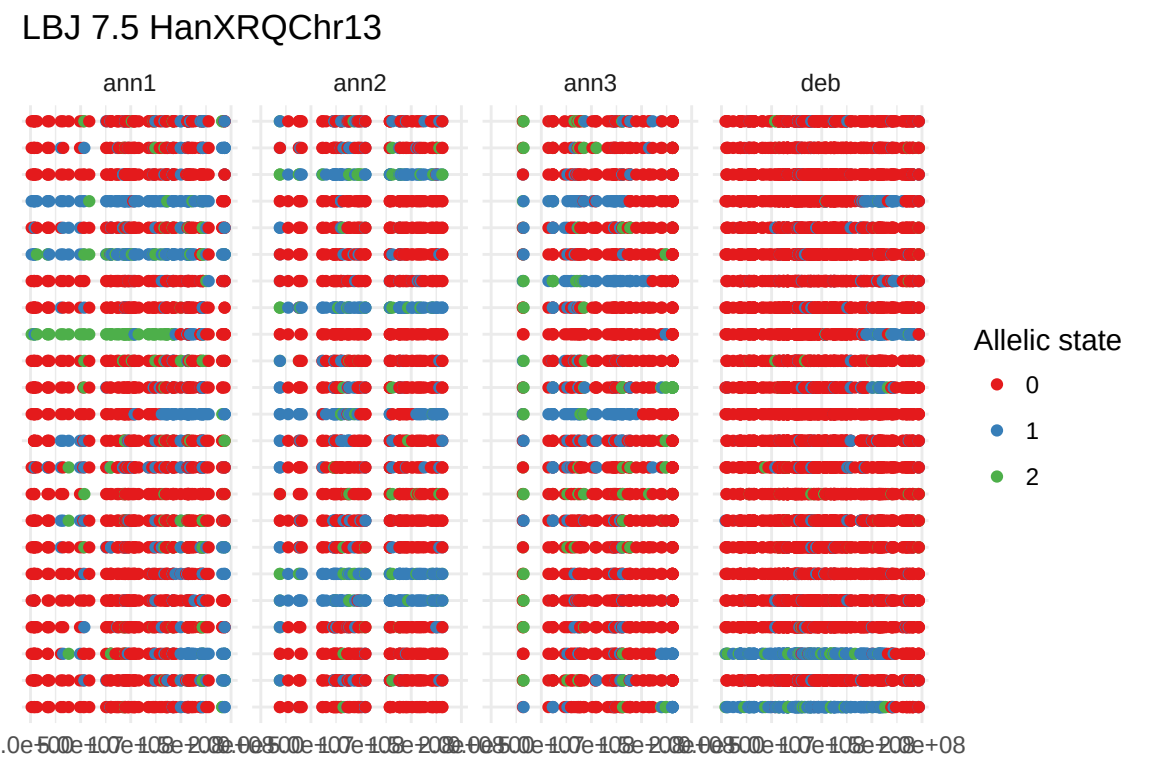
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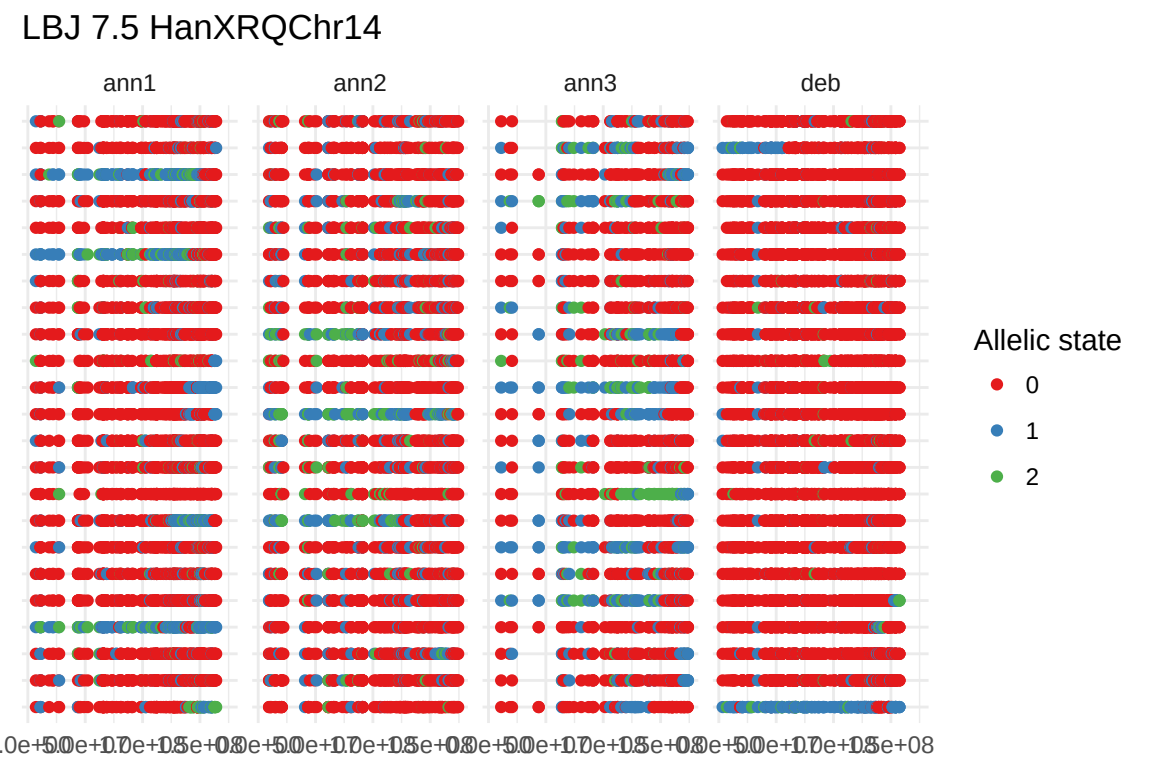
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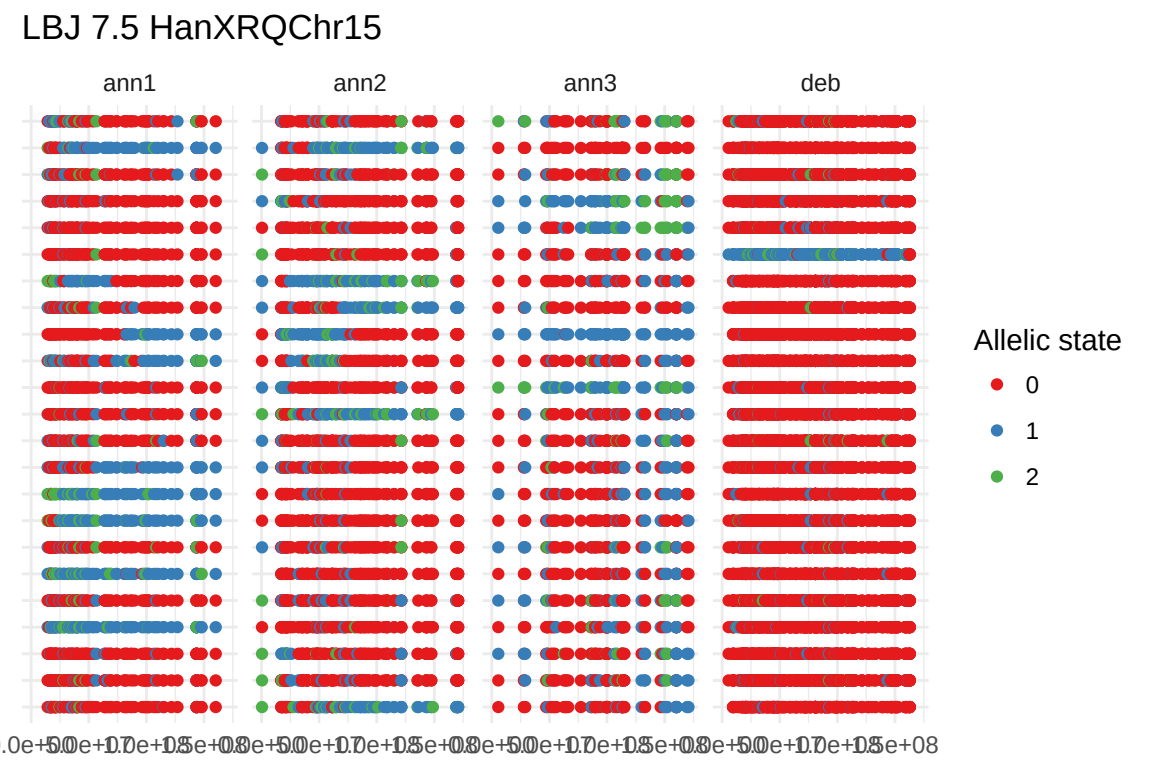
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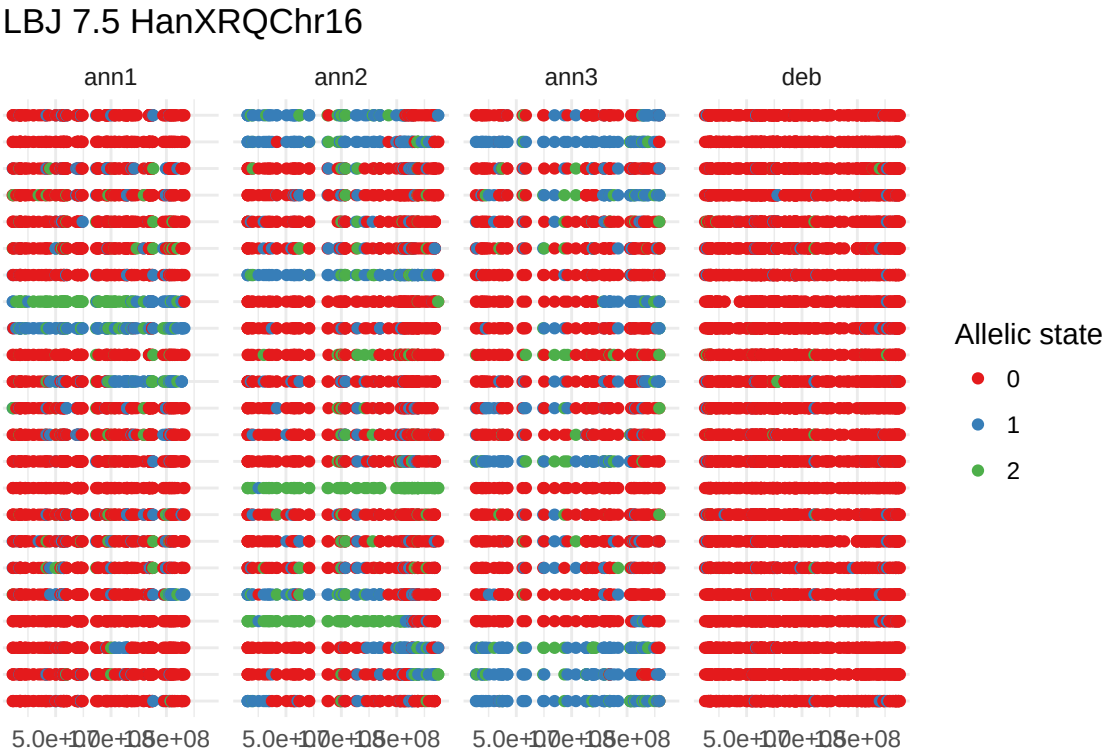
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Allelic state
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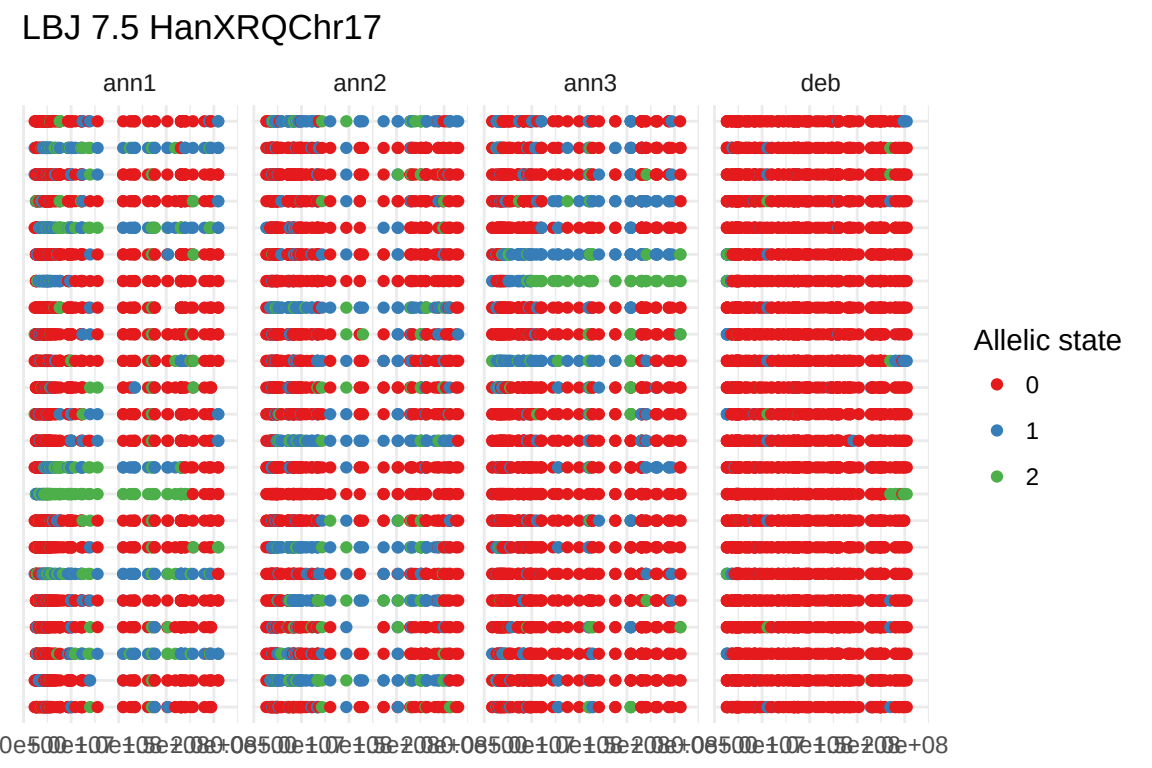
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