

Sample: NA19127

Locus: HLA-A

Resolution: 4th field

Full typing result:

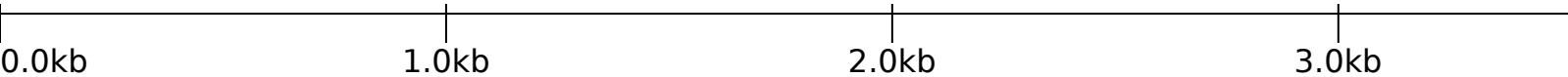
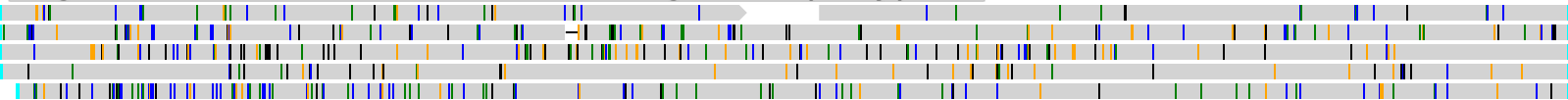
- HLA-A*02:02:01:01
- HLA-A*02:02:04
- HLA-A*02:02:08
- HLA-A*02:1136
- HLA-A*02:734
- HLA-A*02:1168

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-A*02:02:01:01 (identity: 99.91%)



HLA-A*02:02:04 (identity: 99.89%)



HLA-A*02:02:08 (identity: 99.89%)



HLA-A*02:1136 (identity: 99.89%)



HLA-A*02:734 (identity: 99.89%)



HLA-A*02:1168 (identity: 99.89%)



Sample: NA19127

Locus: HLA-A

Resolution: 4th field

Full typing result:

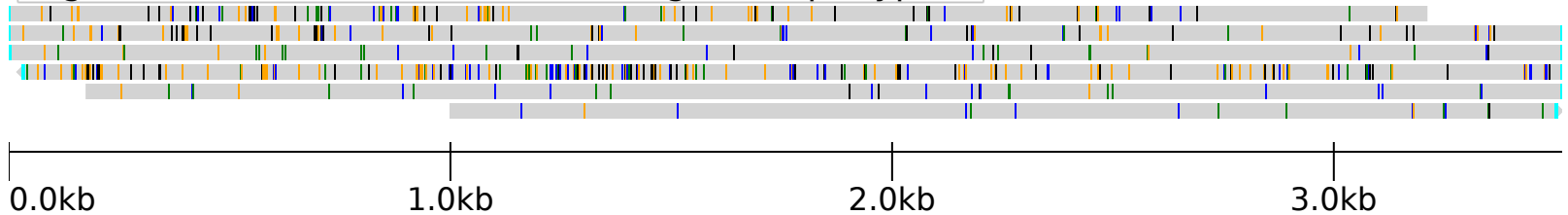
HLA-A*02:05:01:01

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 1)



HLA-A*02:05:01:01 (identity: 100.00%)

Sample: NA19127

Locus: HLA-B

Resolution: 4th field

Full typing result:

HLA-B*15:10:01:01

HLA-B*15:18:01:02

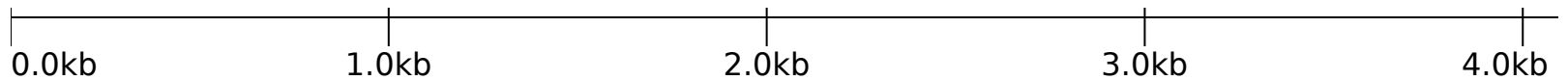
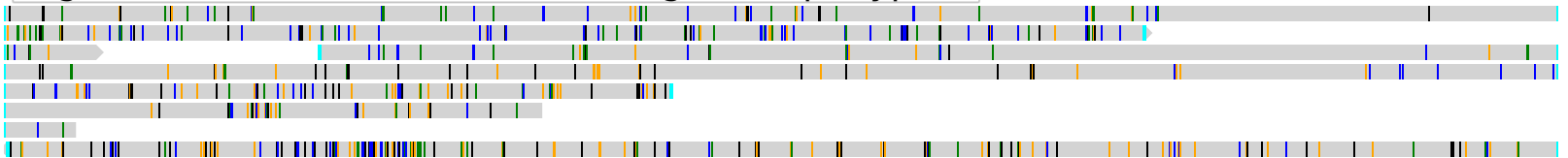
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-B*15:10:01:01 (identity: 99.90%)



HLA-B*15:18:01:02 (identity: 99.88%)



Sample: NA19127

Locus: HLA-B

Resolution: 4th field

Full typing result:

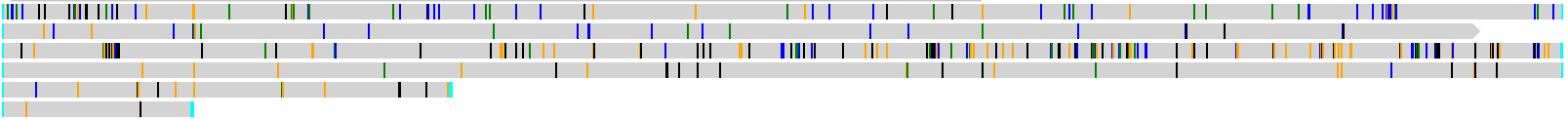
HLA-B*58:01:01:01

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

4.0kb

HLA-B*58:01:01:01 (identity: 100.00%)

Sample: NA19127

Locus: HLA-C

Resolution: 4th field

Full typing result:

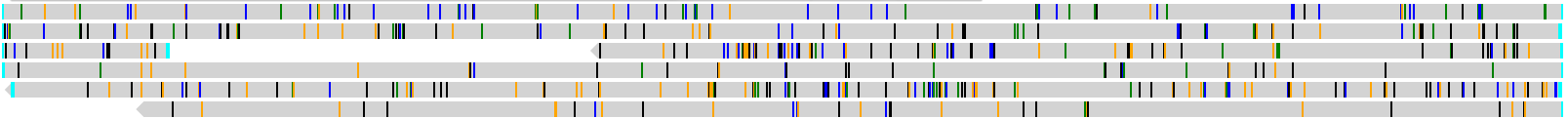
HLA-C*08:04:01:01

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

4.0kb

HLA-C*08:04:01:01 (identity: 100.00%)



Sample: NA19127

Locus: HLA-C

Resolution: 4th field

Full typing result:

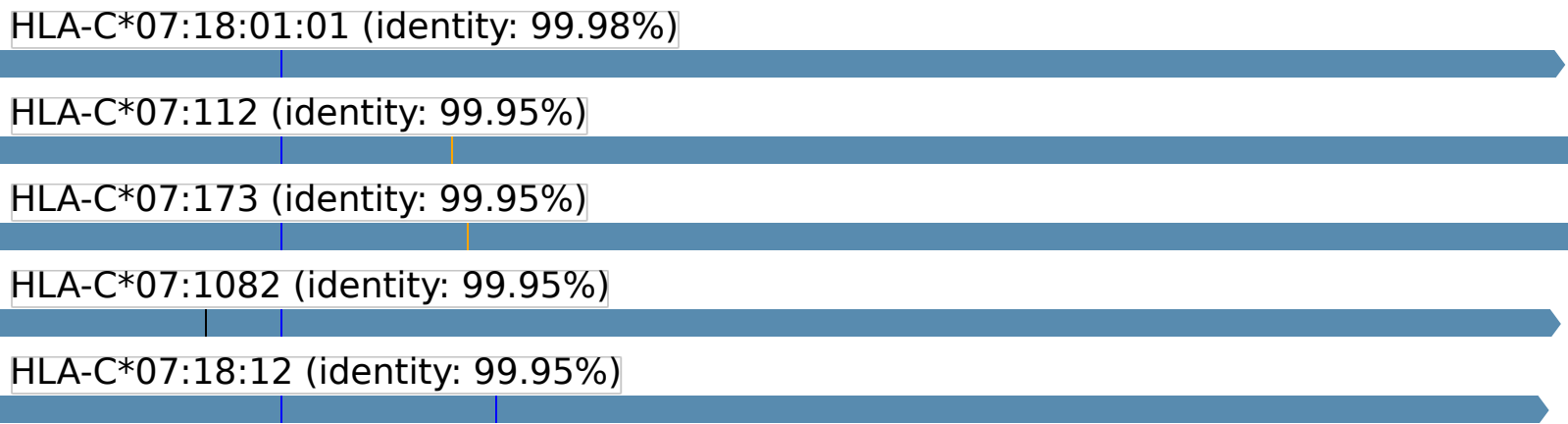
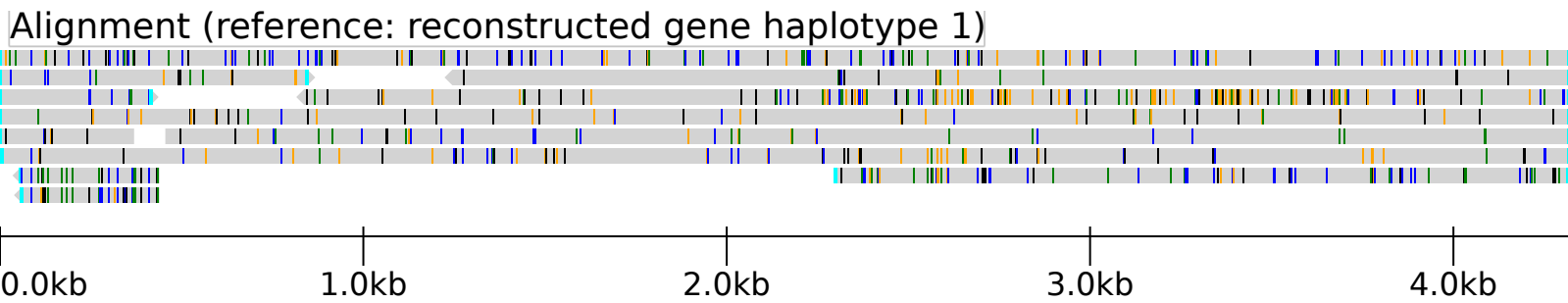
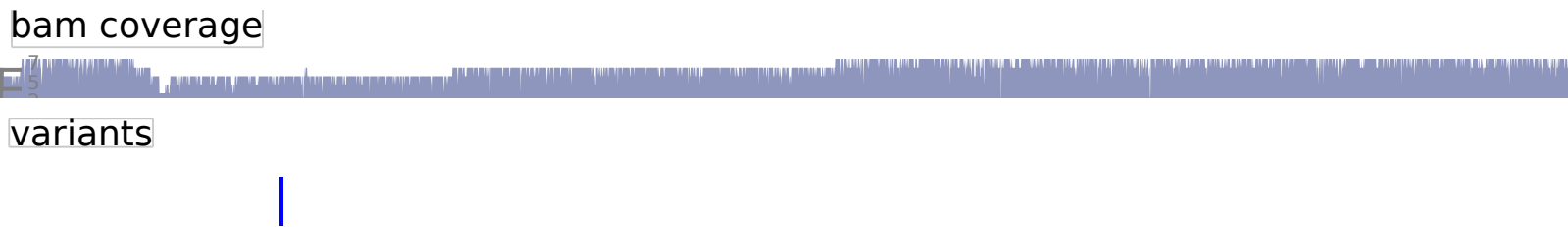
HLA-C*07:18:01:01

HLA-C*07:112

HLA-C*07:173

HLA-C*07:1082

HLA-C*07:18:12



Sample: NA19127

Locus: HLA-DMA

Resolution: 4th field

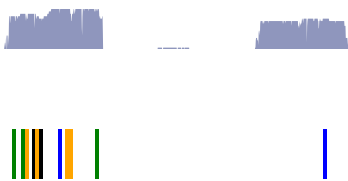
Full typing result:

HLA-DMA*01:01:01:02

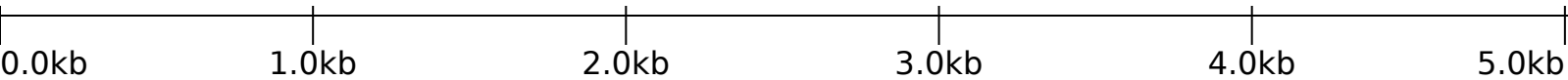
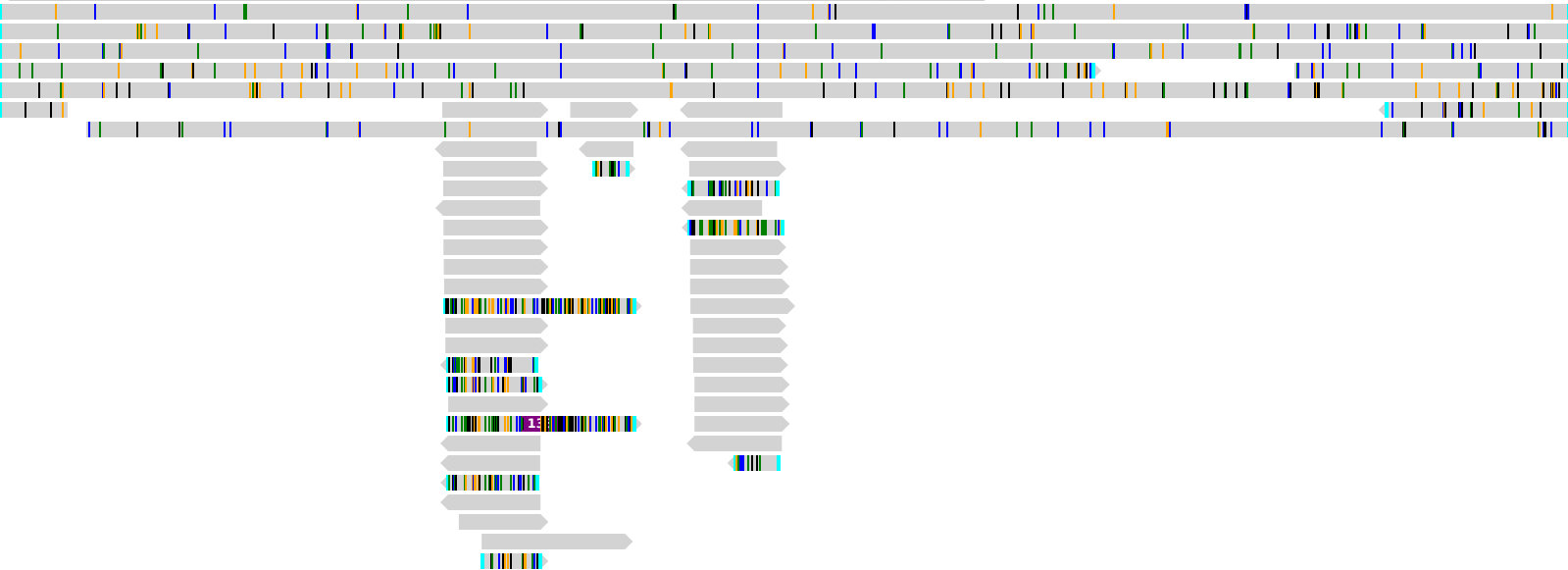
bam coverage

24
16
8

variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DMA*01:01:01:02 (identity: 99.96%)



Sample: NA19127

Locus: HLA-DMB

Resolution: 4th field

Full typing result:

HLA-DMB*01:03:01:03

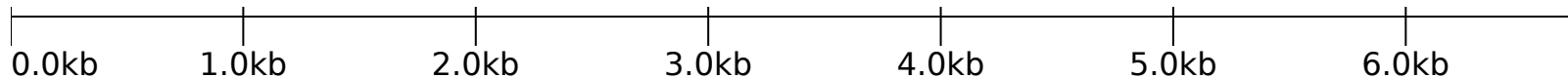
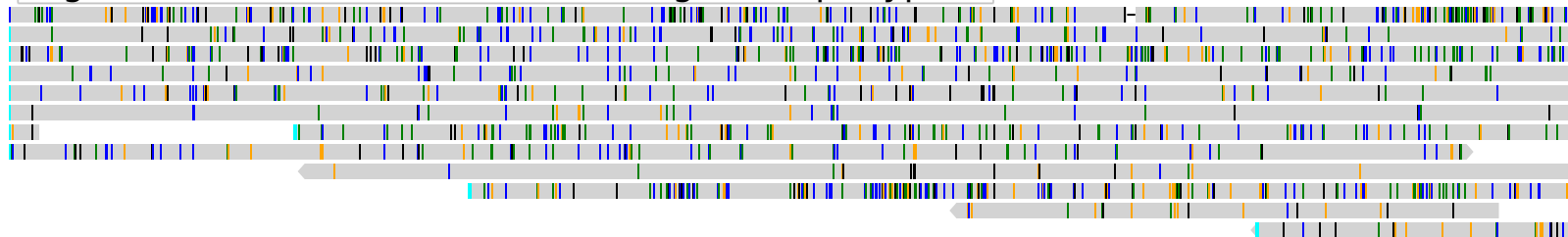
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DMB*01:03:01:03 (identity: 99.97%)



Sample: NA19127

Locus: HLA-DOA

Resolution: 4th field

Full typing result:

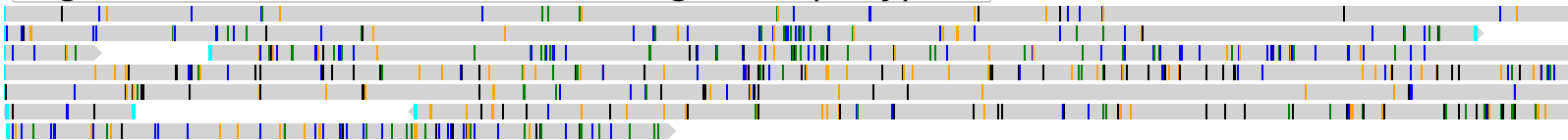
HLA-DOA*01:01:05

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 1)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-DOA*01:01:05 (identity: 100.00%)

Sample: NA19127

Locus: HLA-DOA

Resolution: 4th field

Full typing result:

HLA-DOA*01:01:02:20

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-DOA*01:01:02:20 (identity: 99.97%)

Sample: NA19127

Locus: HLA-DOB

Resolution: 4th field

Full typing result:

HLA-DOB*01:01:01:01

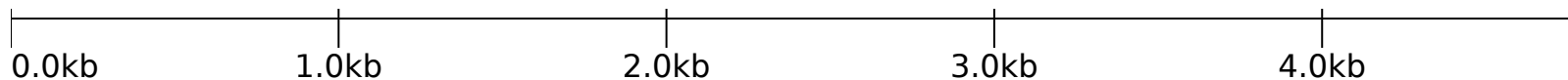
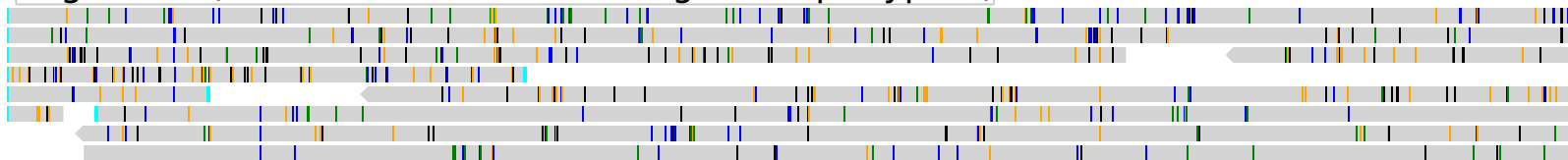
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DOB*01:01:01:01 (identity: 100.00%)



Sample: NA19127

Locus: HLA-DPA1

Resolution: 4th field

Full typing result:

HLA-DPA1*02:01:08:03

HLA-DPA1*02:01:01:02

HLA-DPA1*02:01:02:03

HLA-DPA1*02:26:01:01

HLA-DPA1*02:84

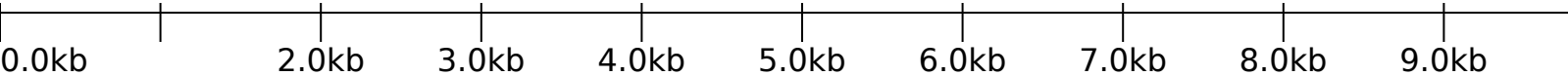
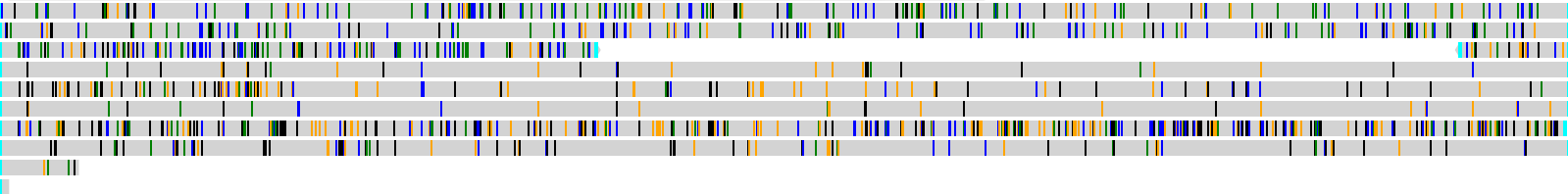
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DPA1*02:01:08:03 (identity: 99.98%)

HLA-DPA1*02:01:01:02 (identity: 99.97%)

HLA-DPA1*02:01:02:03 (identity: 99.96%)

HLA-DPA1*02:26:01:01 (identity: 99.96%)

HLA-DPA1*02:84 (identity: 99.95%)

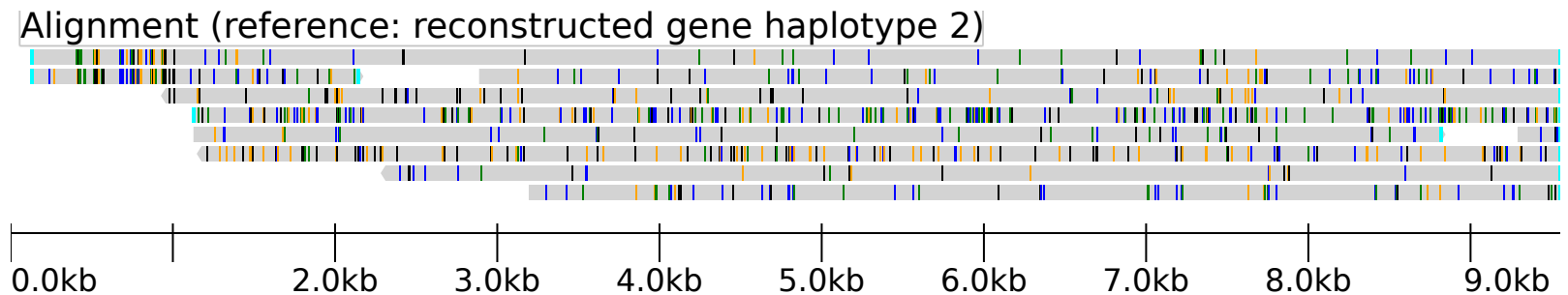
Sample: NA19127

Locus: HLA-DPA1

Resolution: 4th field

Full typing result:

HLA-DPA1*02:01:01:01



HLA-DPA1*02:01:01:01 (identity: 98.28%)



Sample: NA19127

Locus: HLA-DPA2

Resolution: 4th field

Full typing result:

HLA-DPA2*02:01:01:01

bam coverage

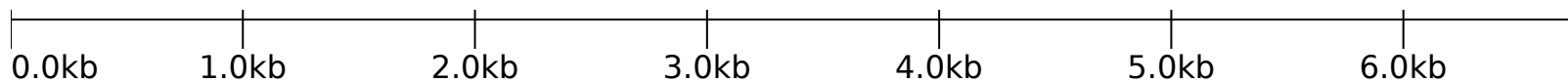
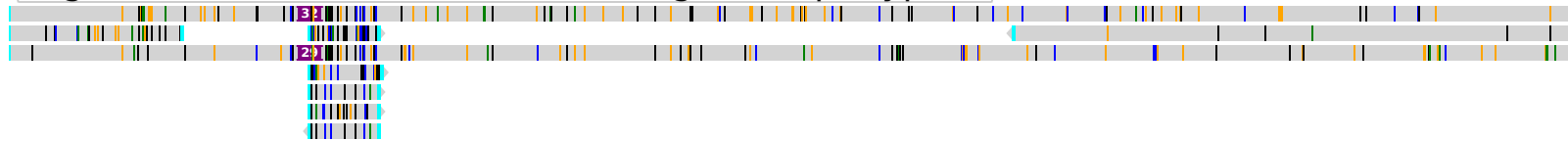
7
5



variants



Alignment (reference: reconstructed gene haplotype 2)



HLA-DPA2*02:01:01:01 (identity: 99.63%)



Sample: NA19127

Locus: HLA-DPA2

Resolution: 4th field

Full typing result:

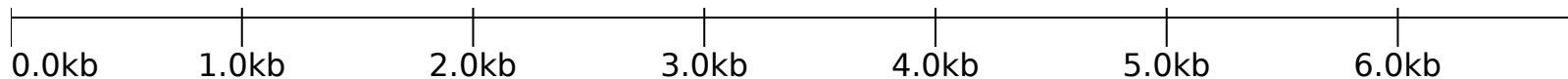
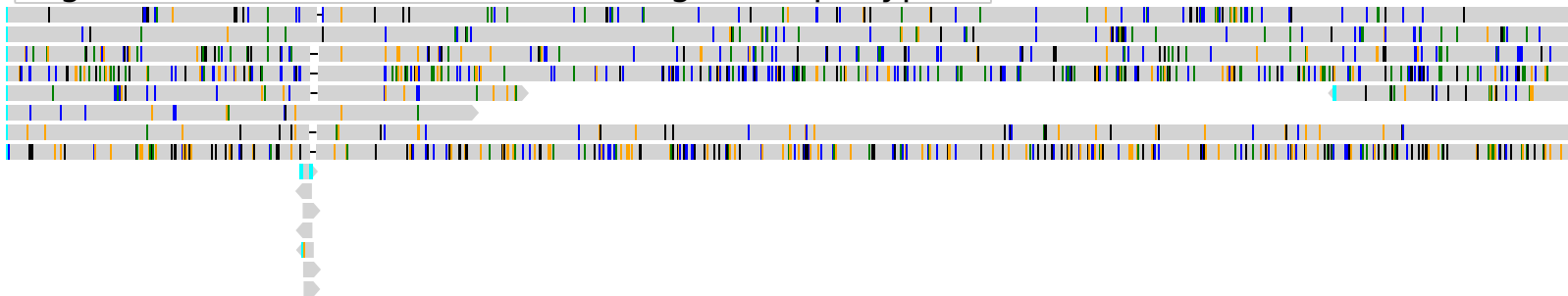
HLA-DPA2*01:01:02

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 1)



HLA-DPA2*01:01:02 (identity: 99.82%)



Sample: NA19127

Locus: HLA-DPB1

Resolution: 4th field

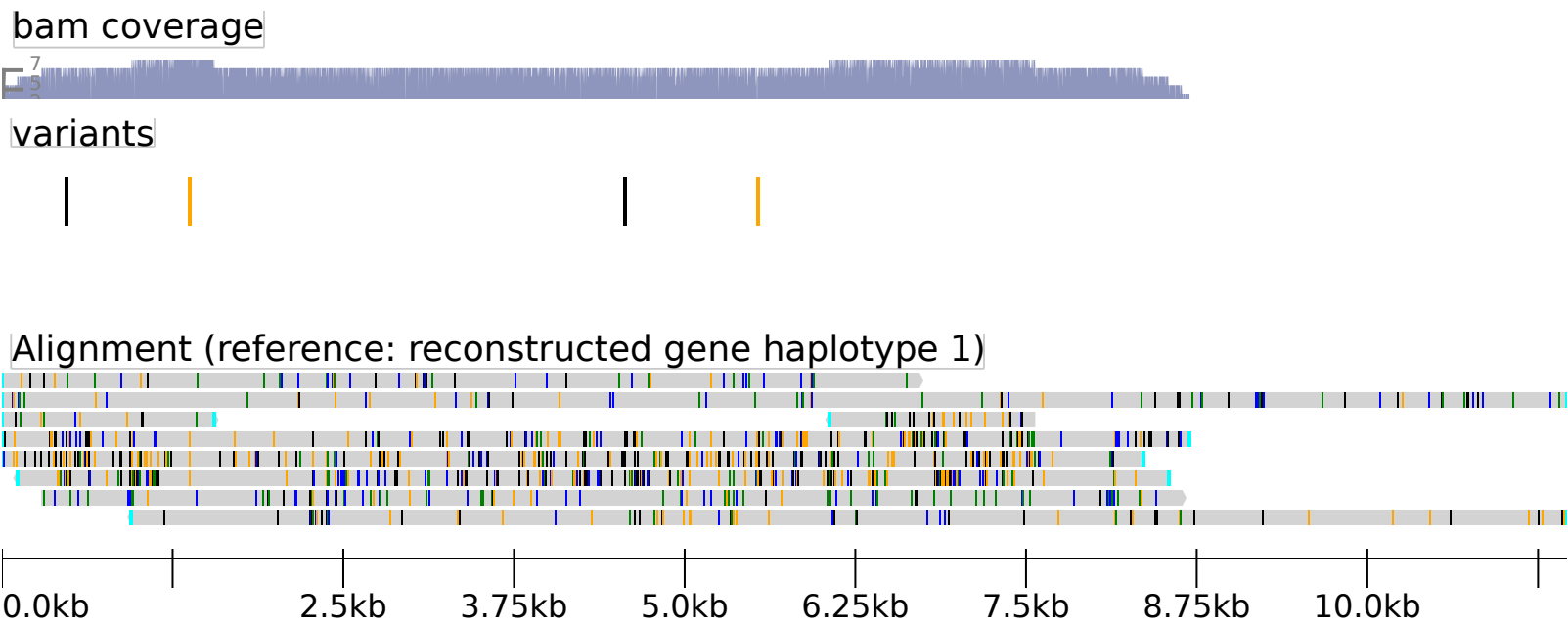
Full typing result:

HLA-DPB1*13:01:01:01 HLA-DPB1*110:01 HLA-DPB1*1145:01

HLA-DPB1*1260:01N HLA-DPB1*13:01:01:08 HLA-DPB1*13:01:01:13

HLA-DPB1*13:01:01:14 HLA-DPB1*13:01:01:15 HLA-DPB1*13:01:05

HLA-DPB1*13:01:06



HLA-DPB1*13:01:01:01 (identity: 100.00%)	
HLA-DPB1*110:01 (identity: 99.99%)	
HLA-DPB1*1145:01 (identity: 99.99%)	
HLA-DPB1*1260:01N (identity: 99.99%)	
HLA-DPB1*13:01:01:08 (identity: 99.99%)	
HLA-DPB1*13:01:01:13 (identity: 99.99%)	
HLA-DPB1*13:01:01:14 (identity: 99.99%)	
HLA-DPB1*13:01:01:15 (identity: 99.99%)	
HLA-DPB1*13:01:05 (identity: 99.99%)	
HLA-DPB1*13:01:06 (identity: 99.99%)	

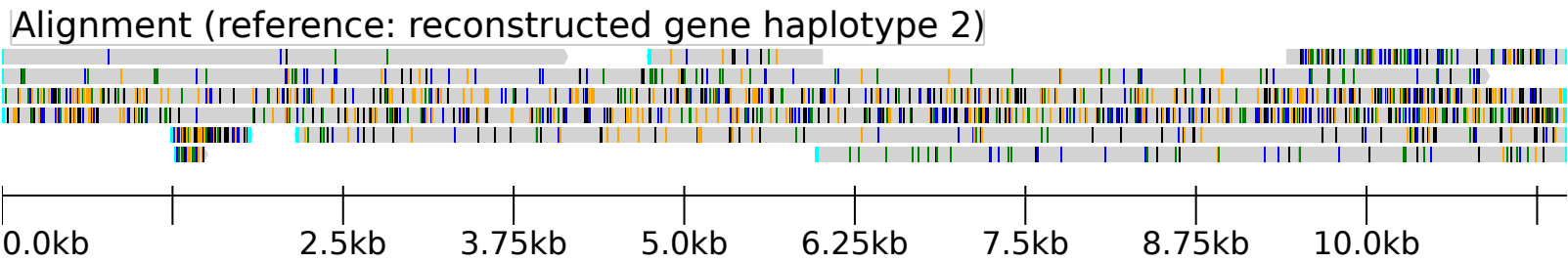
Sample: NA19127

Locus: HLA-DPB1

Resolution: 4th field

Full typing result:

HLA-DPB1*01:01:02:02	HLA-DPB1*01:01:02:01	HLA-DPB1*01:01:02:03
HLA-DPB1*01:01:01:26	HLA-DPB1*01:01:01:04	HLA-DPB1*01:01:01:14
HLA-DPB1*01:01:01:09	HLA-DPB1*26:01:02:03	HLA-DPB1*01:01:01:01
HLA-DPB1*01:01:01:10		



HLA-DPB1*01:01:02:02 (identity: 99.98%)
HLA-DPB1*01:01:02:01 (identity: 99.97%)
HLA-DPB1*01:01:02:03 (identity: 99.96%)
HLA-DPB1*01:01:01:26 (identity: 99.89%)
HLA-DPB1*01:01:01:04 (identity: 99.88%)
HLA-DPB1*01:01:01:14 (identity: 99.88%)
HLA-DPB1*01:01:01:09 (identity: 99.87%)
HLA-DPB1*26:01:02:03 (identity: 99.87%)
HLA-DPB1*01:01:01:01 (identity: 99.86%)
HLA-DPB1*01:01:01:10 (identity: 99.86%)

Sample: NA19127

Locus: HLA-DPB2

Resolution: 4th field

Full typing result:

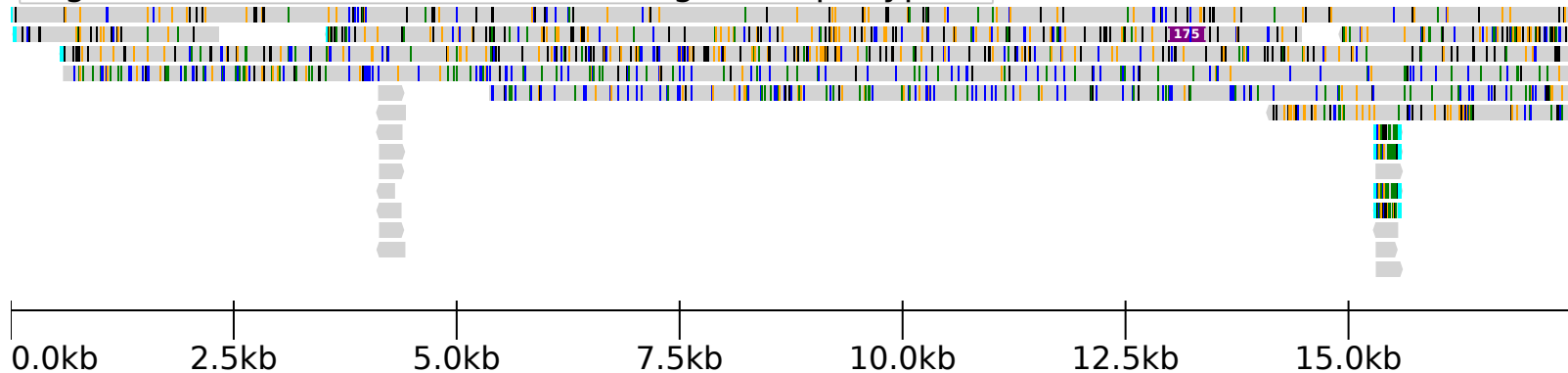
HLA-DPB2*01:01:02

bam coverage

13
8

variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-DPB2*01:01:02 (identity: 99.30%)



Sample: NA19127

Locus: HLA-DPB2

Resolution: 4th field

Full typing result:

HLA-DPB2*03:01:01:01

bam coverage

35
23
4

variants

Alignment (reference: reconstructed gene haplotype 1)



0.0kb 2.5kb 5.0kb 7.5kb 10.0kb 12.5kb 15.0kb 17.5kb

HLA-DPB2*03:01:01:01 (identity: 99.92%)



Sample: NA19127

Locus: HLA-DQA1

Resolution: 4th field

Full typing result:

HLA-DQA1*01:02:01:03

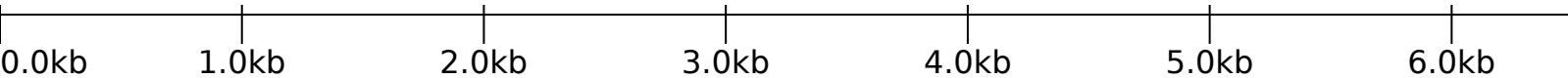
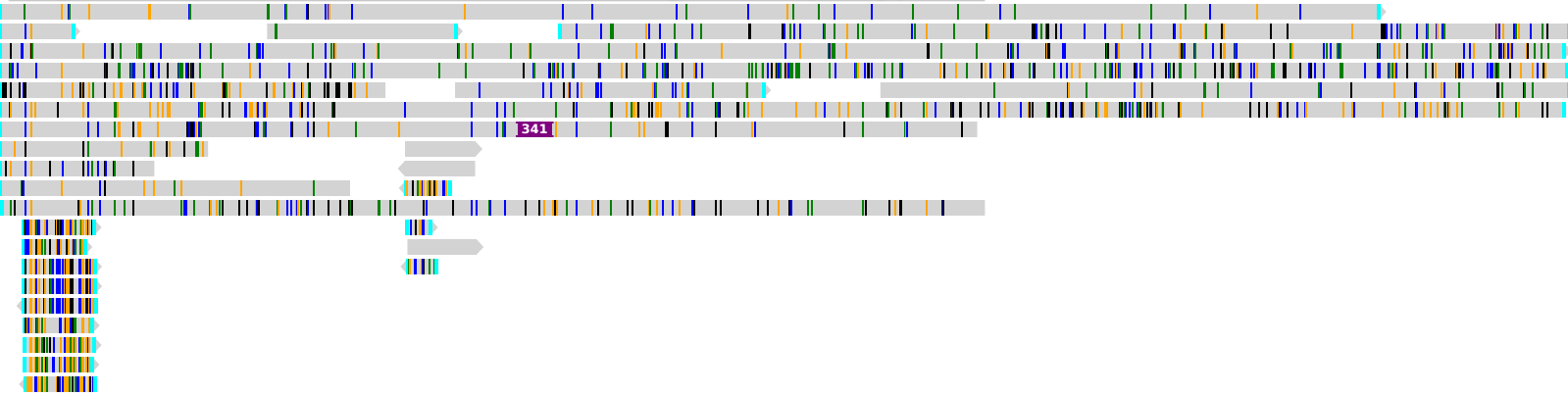
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DQA1*01:02:01:03 (identity: 99.95%)



Sample: NA19127

Locus: HLA-DQA2

Resolution: 4th field

Full typing result:

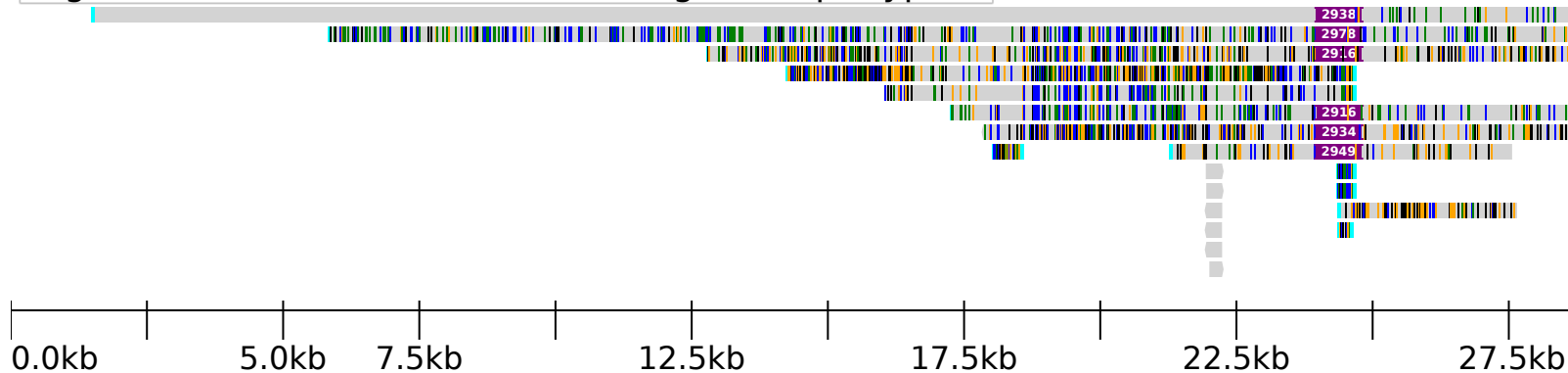
HLA-DQA2*01:01:01:01

bam coverage

12
8

variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-DQA2*01:01:01:01 (identity: 99.98%)



Sample: NA19127

Locus: HLA-DQA2

Resolution: 4th field

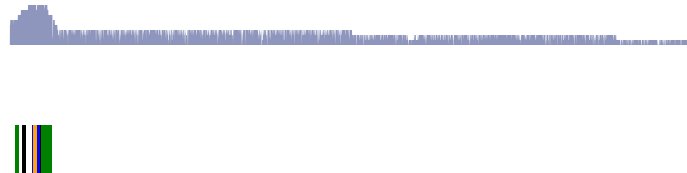
Full typing result:

HLA-DQA2*01:01:02:01

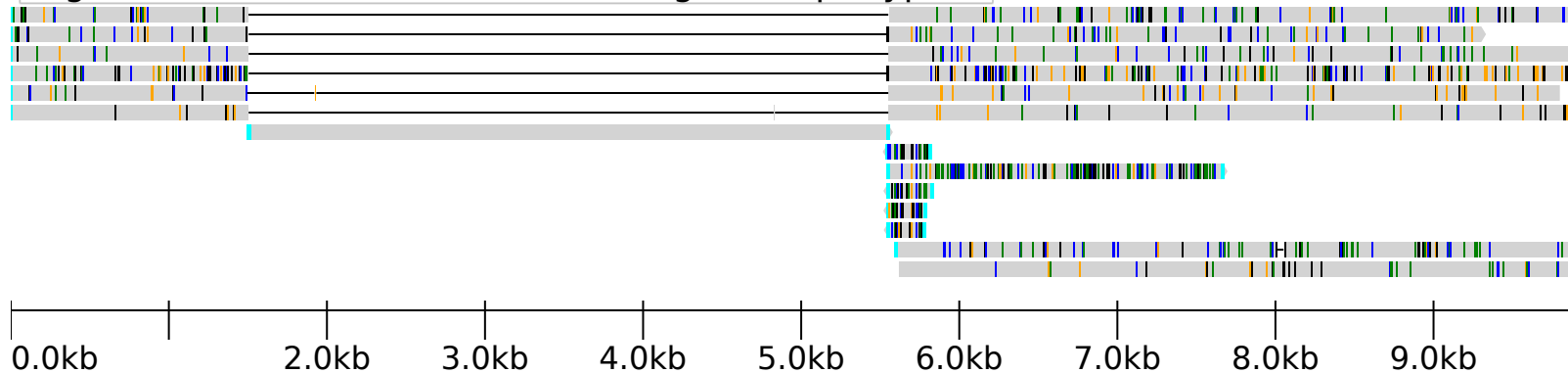
bam coverage

$\frac{12}{8}$

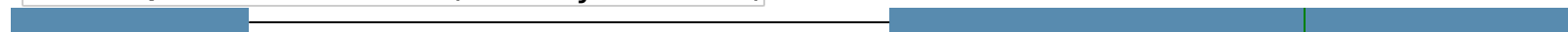
variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DQA2*01:01:02:01 (identity: 30.90%)



Sample: NA19127

Locus: HLA-DQB1

Resolution: 4th field

Full typing result:

HLA-DQB1*05:02:01:08

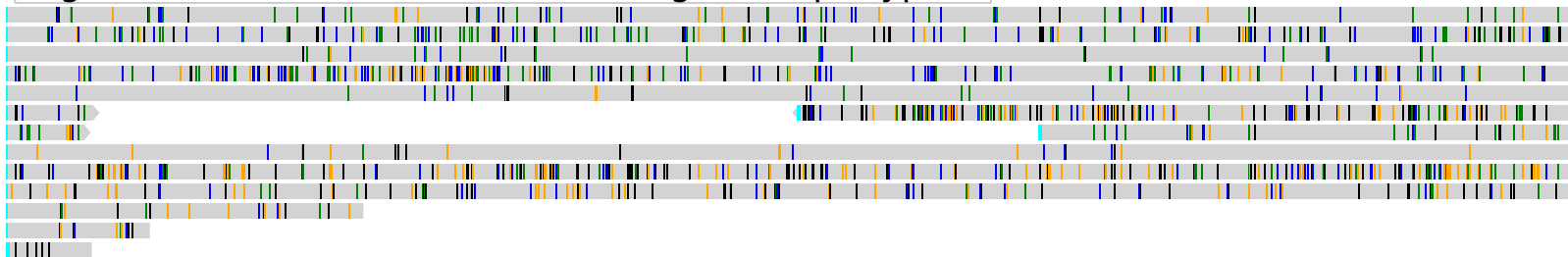
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



0.0kb 1.0kb 2.0kb 3.0kb 4.0kb 5.0kb 6.0kb 7.0kb

HLA-DQB1*05:02:01:08 (identity: 100.00%)



Sample: NA19127

Locus: HLA-DQB1

Resolution: 4th field

Full typing result:

HLA-DQB1*05:01:01:03

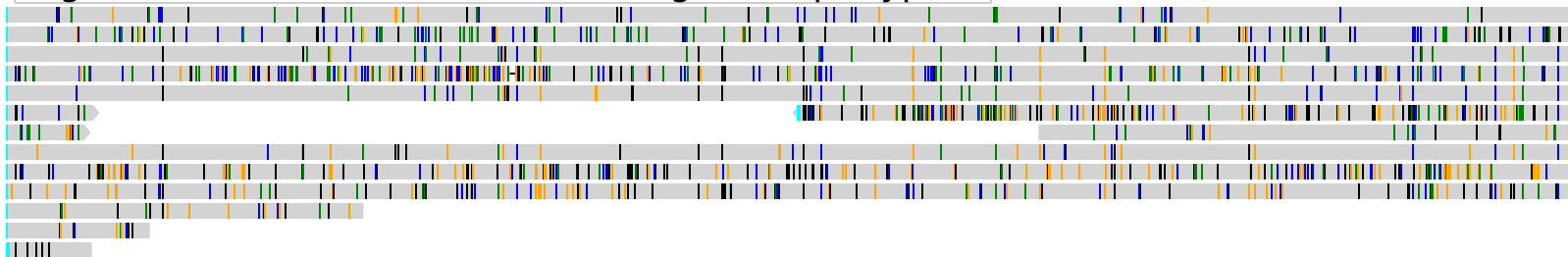
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

4.0kb

5.0kb

6.0kb

7.0kb

HLA-DQB1*05:01:01:03 (identity: 99.94%)



Sample: NA19127

Locus: HLA-DQB2

Resolution: 4th field

Full typing result:

HLA-DQB2*01:02:02:01

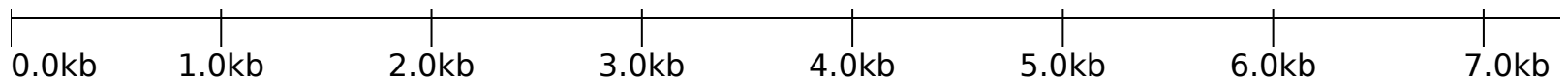
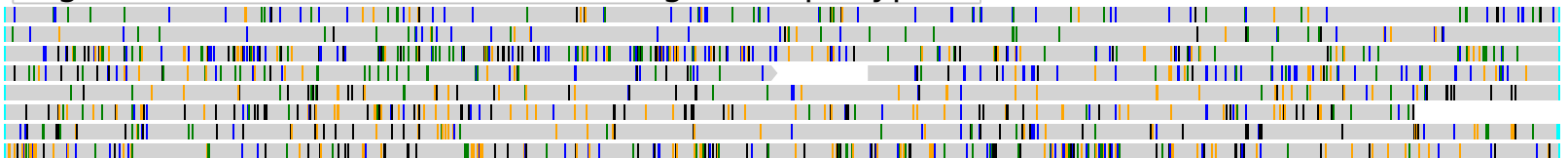
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DQB2*01:02:02:01 (identity: 99.96%)



Sample: NA19127

Locus: HLA-DQB2

Resolution: 4th field

Full typing result:

HLA-DQB2*01:01:01:01

HLA-DQB2*01:01:01:15

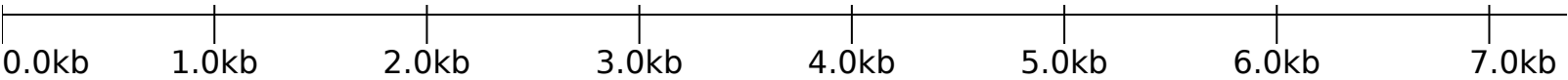
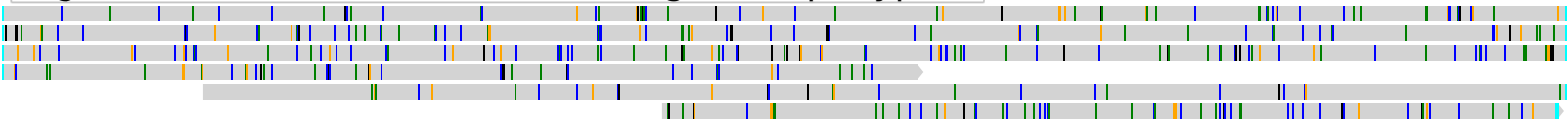
HLA-DQB2*01:01:01:02

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-DQB2*01:01:01:01 (identity: 99.95%)



HLA-DQB2*01:01:01:15 (identity: 99.93%)



HLA-DQB2*01:01:01:02 (identity: 99.92%)



Sample: NA19127

Locus: HLA-DRA

Resolution: 4th field

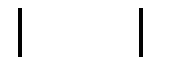
Full typing result:

HLA-DRA*01:02:03:01

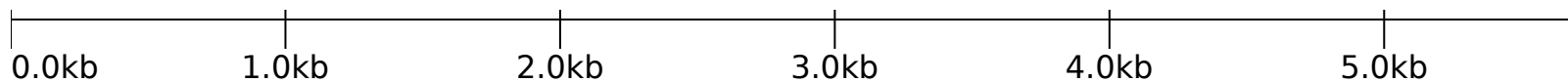
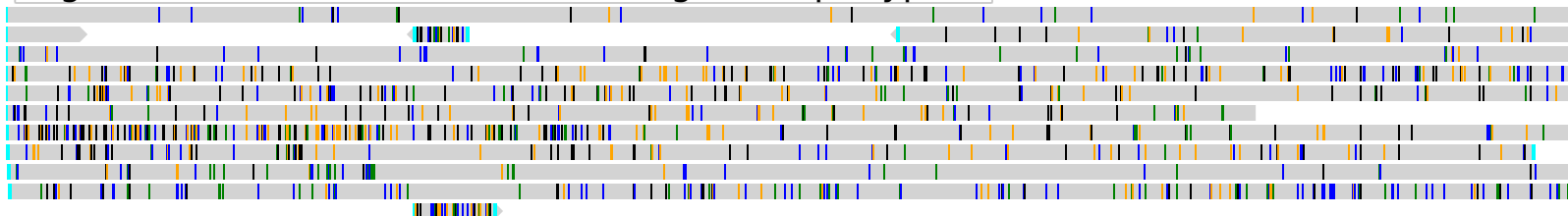
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DRA*01:02:03:01 (identity: 99.98%)



Sample: NA19127

Locus: HLA-DRA

Resolution: 4th field

Full typing result:

HLA-DRA*01:01:01:01

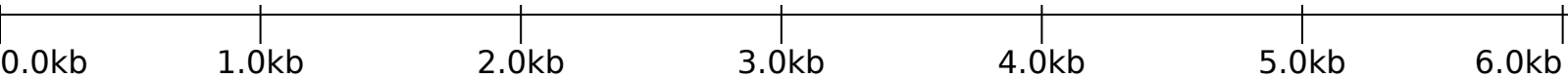
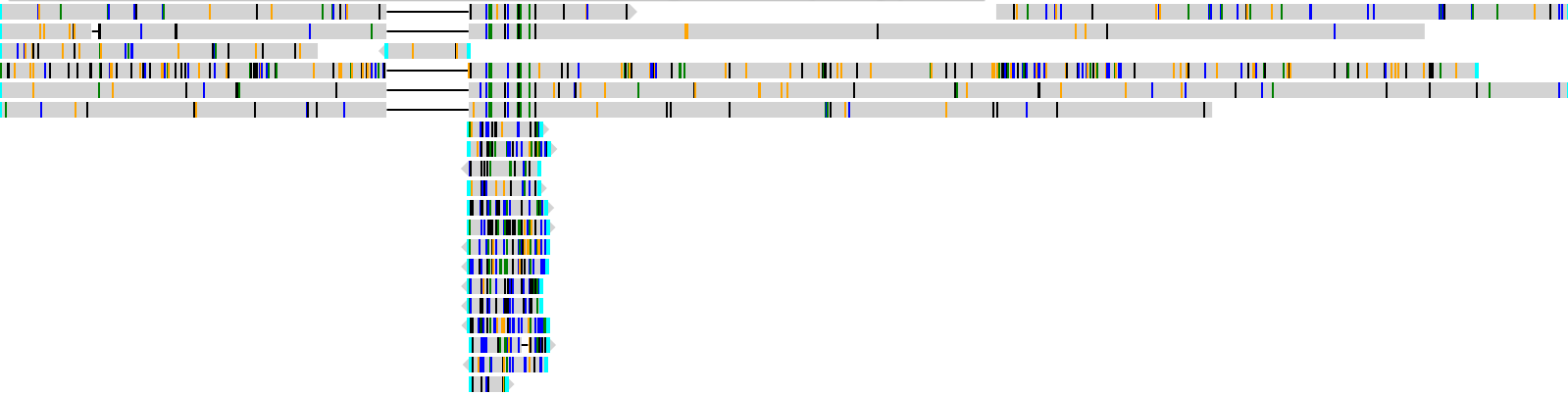
bam coverage

17
11

variants



Alignment (reference: reconstructed gene haplotype 2)



HLA-DRA*01:01:01:01 (identity: 94.34%)



Sample: NA19127

Locus: HLA-DRB1

Resolution: 4th field

Full typing result:

HLA-DRB1*01:01:01:01

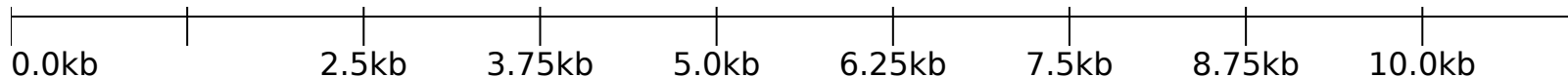
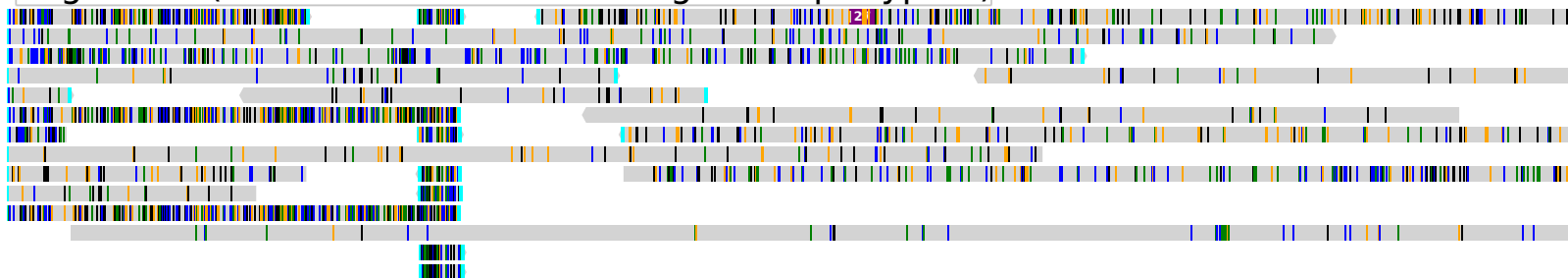
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



HLA-DRB1*01:01:01:01 (identity: 99.99%)



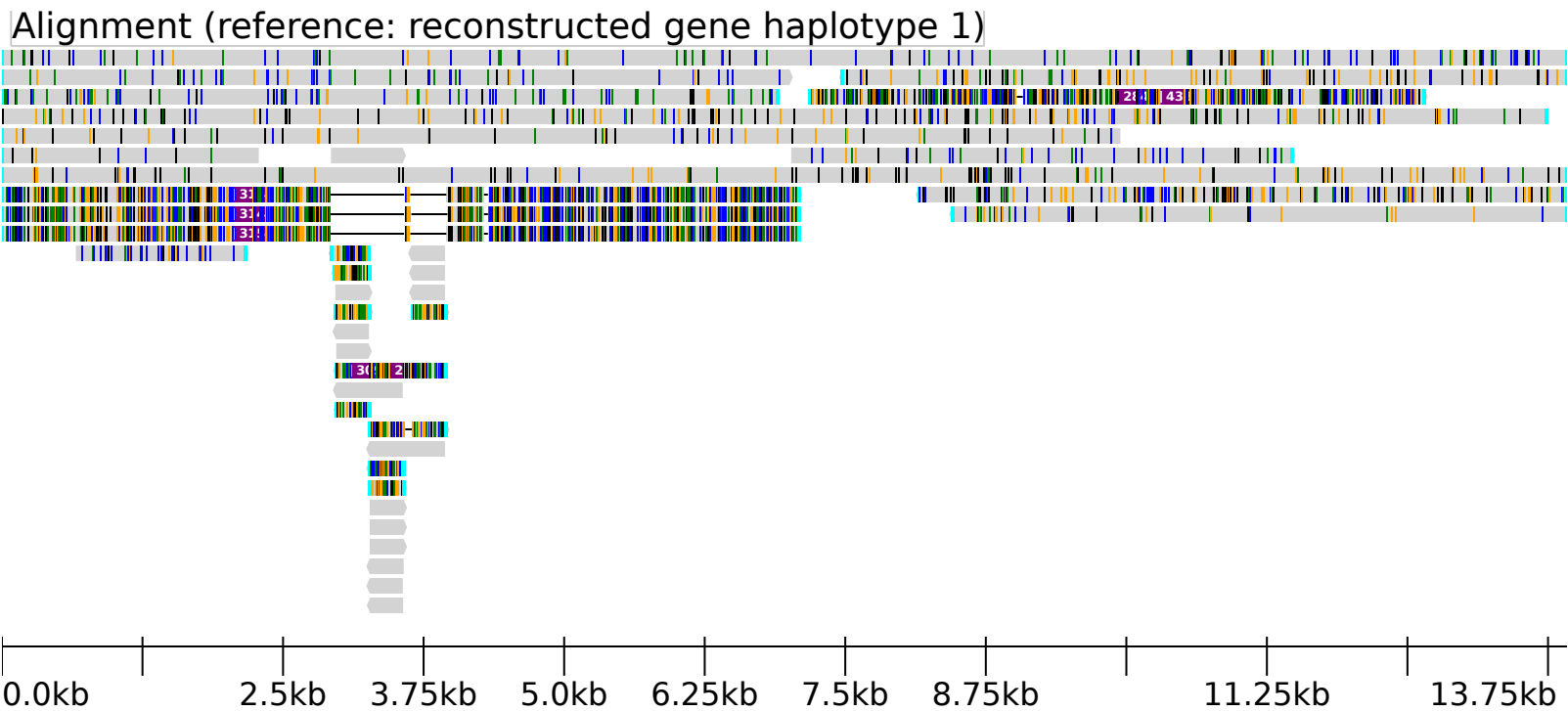
Sample: NA19127

Locus: HLA-DRB1

Resolution: 4th field

Full typing result:

HLA-DRB1*11:01:02:01	HLA-DRB1*11:04:01:01	HLA-DRB1*11:01:01:01
HLA-DRB1*11:01:01:03	HLA-DRB1*11:01:01:04	HLA-DRB1*11:01:01:12N



HLA-DRB1*11:01:02:01 (identity: 99.88%)	
HLA-DRB1*11:04:01:01 (identity: 99.96%)	
HLA-DRB1*11:01:01:01 (identity: 99.93%)	
HLA-DRB1*11:01:01:03 (identity: 99.91%)	
HLA-DRB1*11:01:01:04 (identity: 99.88%)	
HLA-DRB1*11:01:01:12N (identity: 99.90%)	

Sample: NA19127

Locus: HLA-DRB3

Resolution: 4th field

Full typing result:

HLA-DRB3*02:02:01:02

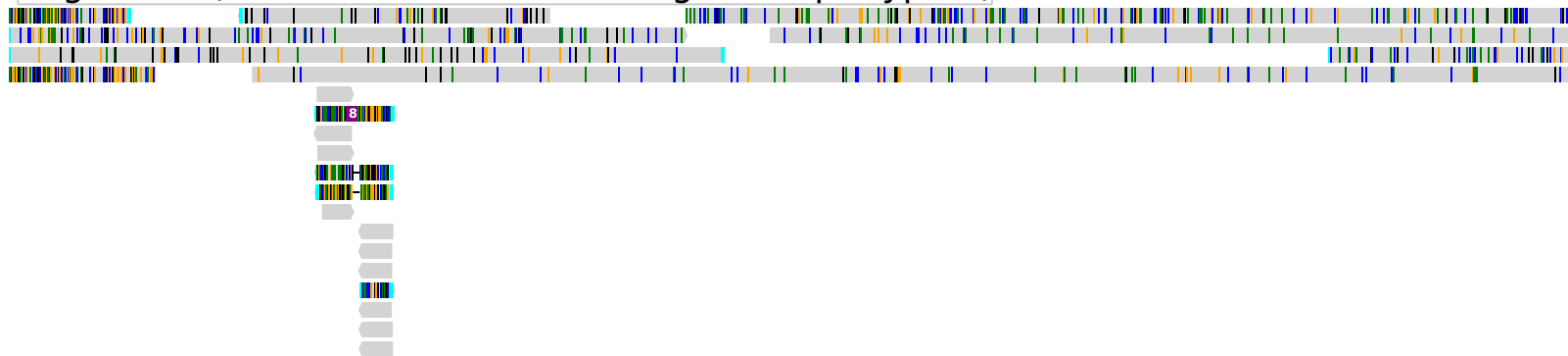
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



0.0kb

2.5kb

3.75kb

5.0kb

6.25kb

7.5kb

8.75kb

11.25kb

HLA-DRB3*02:02:01:02 (identity: 99.99%)



Sample: NA19127

Locus: HLA-DRB4

Resolution: 4th field

Full typing result:

HLA-DRB4*01:01:01:01

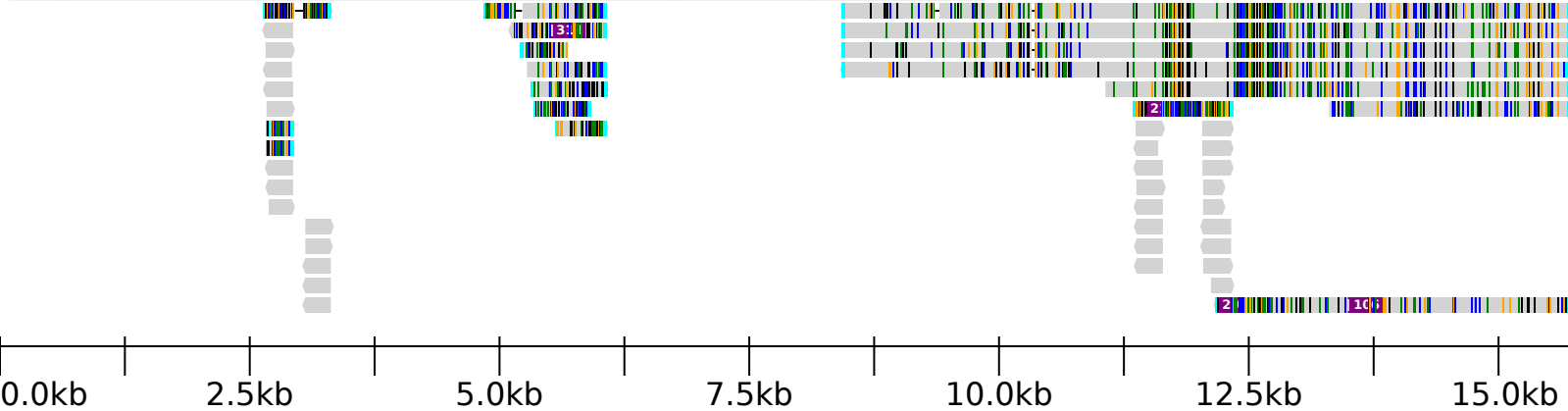
HLA-DRB4*02:01N

HLA-DRB4*03:01N

bam coverage



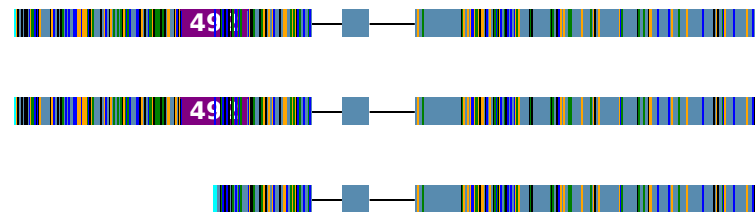
Alignment (reference: reconstructed gene haplotype 1)



HLA-DRB4*01:01:01:01 (identity: 77.16%)

HLA-DRB4*02:01N (identity: 77.08%)

HLA-DRB4*03:01N (identity: 80.49%)



Sample: NA19127

Locus: HLA-DRB5

Resolution: 4th field

Full typing result:

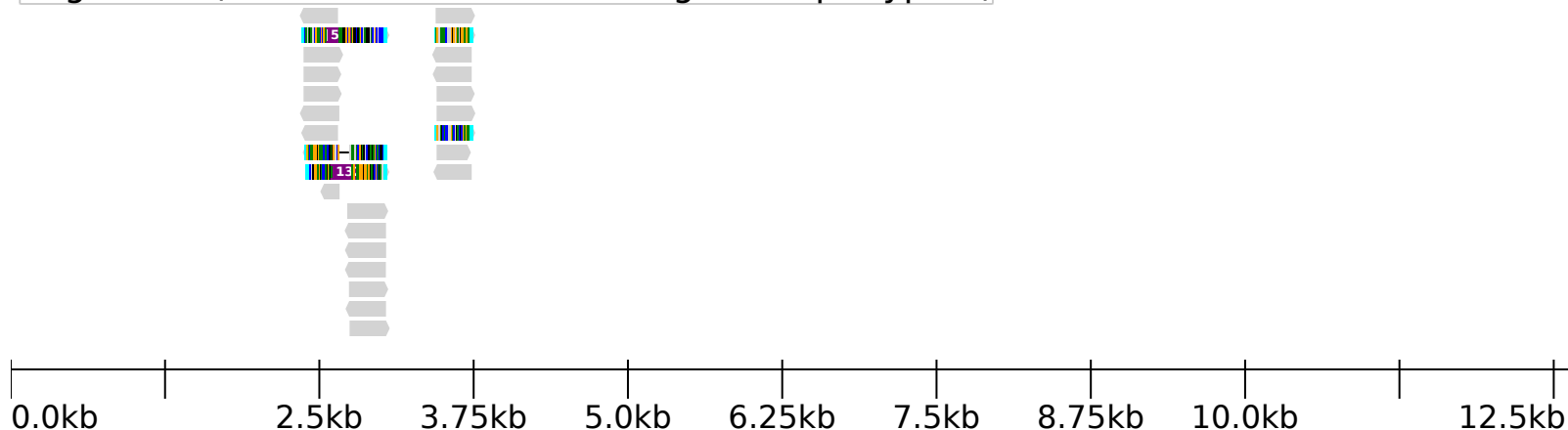
HLA-DRB5*01:08:01N

bam coverage

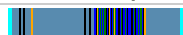
9
6

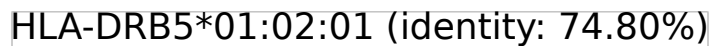
variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-DRB5*01:08:01N (identity: 70.36%)





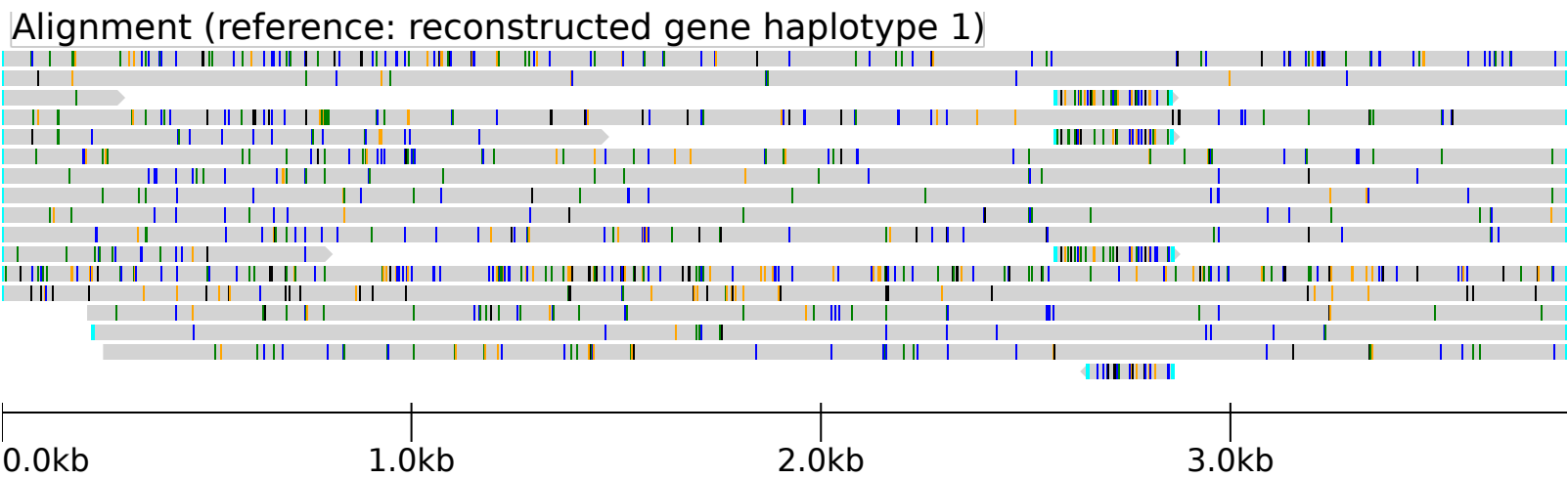
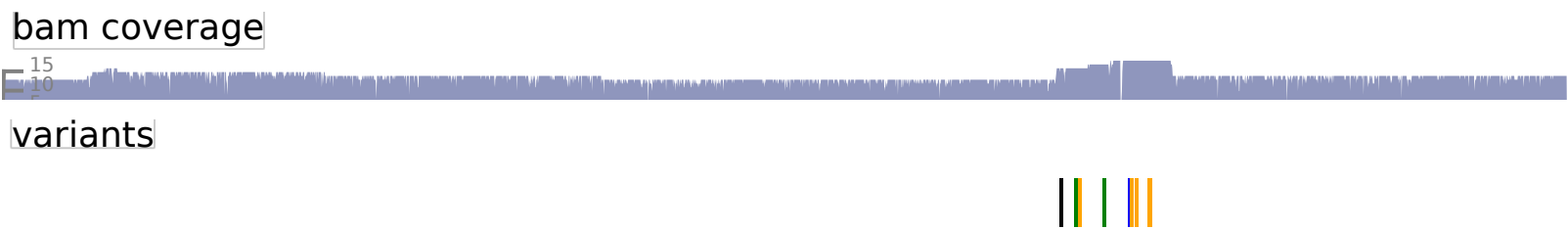
Sample: NA19127

Locus: HLA-E

Resolution: 4th field

Full typing result:

- HLA-E*01:03:01:01HLA-E*01:01:01:01HLA-E*01:03:01:02
- HLA-E*01:03:01:14HLA-E*01:03:01:15HLA-E*01:03:02:01
- HLA-E*01:03:01:04HLA-E*01:03:38HLA-E*01:03:41
- HLA-E*01:11HLA-E*01:138HLA-E*01:145
- HLA-E*01:147



HLA-E*01:03:01:01 (identity: 99.95%)	
HLA-E*01:01:01:01 (identity: 99.92%)	
HLA-E*01:03:01:02 (identity: 99.92%)	
HLA-E*01:03:01:14 (identity: 99.92%)	
HLA-E*01:03:01:15 (identity: 99.92%)	
HLA-E*01:03:02:01 (identity: 99.92%)	
HLA-E*01:03:01:04 (identity: 99.92%)	
HLA-E*01:03:38 (identity: 99.92%)	
HLA-E*01:03:41 (identity: 99.92%)	
HLA-E*01:11 (identity: 99.92%)	

Sample: NA19127

Locus: HLA-F

Resolution: 4th field

Full typing result:

HLA-F*01:01:02:11

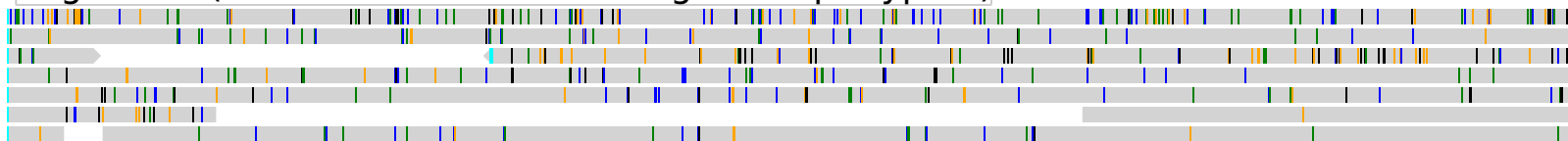
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-F*01:01:02:11 (identity: 99.94%)



Sample: NA19127

Locus: HLA-G

Resolution: 4th field

Full typing result:

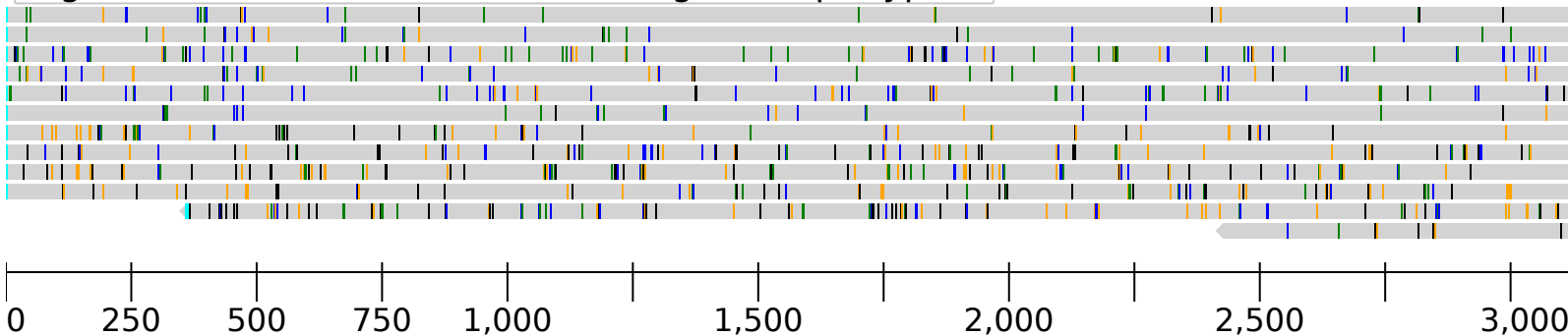
HLA-G*01:03:01:02

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 1)



HLA-G*01:03:01:02 (identity: 100.00%)

Sample: NA19127

Locus: HLA-H

Resolution: 4th field

Full typing result:

HLA-H*01:03:01:02

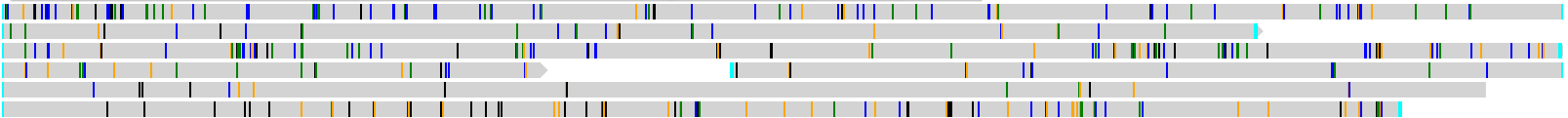
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-H*01:03:01:02 (identity: 100.00%)

Sample: NA19127

Locus: HLA-H

Resolution: 4th field

Full typing result:

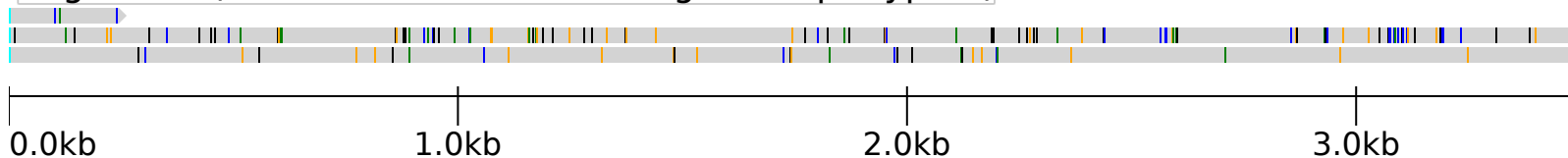
HLA-H*01:03:01:01

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-H*01:03:01:01 (identity: 100.00%)



Sample: NA19127

Locus: HLA-J

Resolution: 4th field

Full typing result:

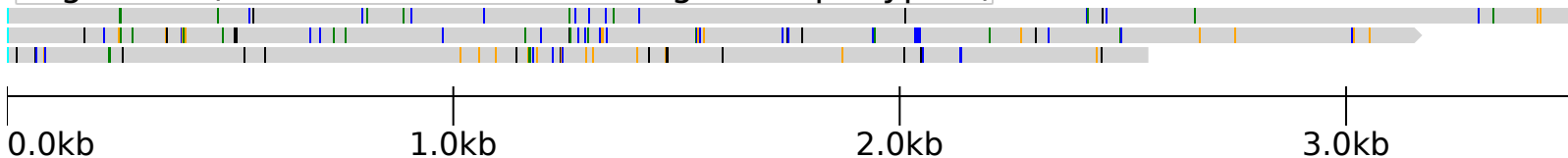
HLA-J*01:01:01:16

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-J*01:01:01:16 (identity: 100.00%)



Sample: NA19127

Locus: HLA-J

Resolution: 4th field

Full typing result:

HLA-J*01:01:01:14

HLA-J*01:01:01:15

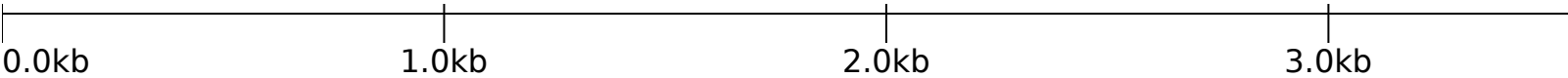
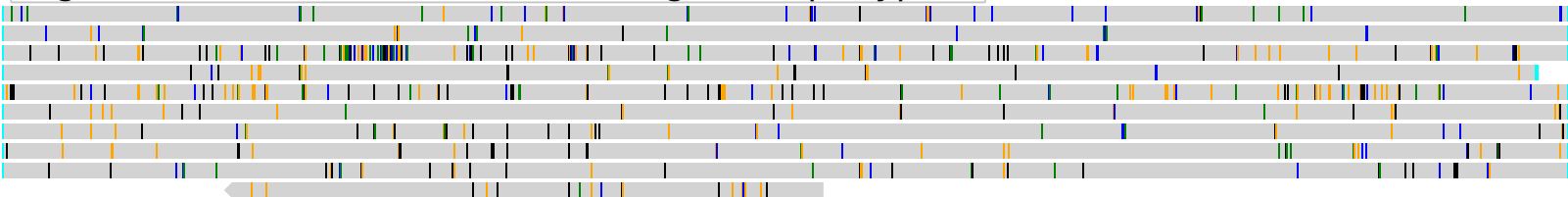
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-J*01:01:01:14 (identity: 100.00%)

HLA-J*01:01:01:15 (identity: 99.97%)



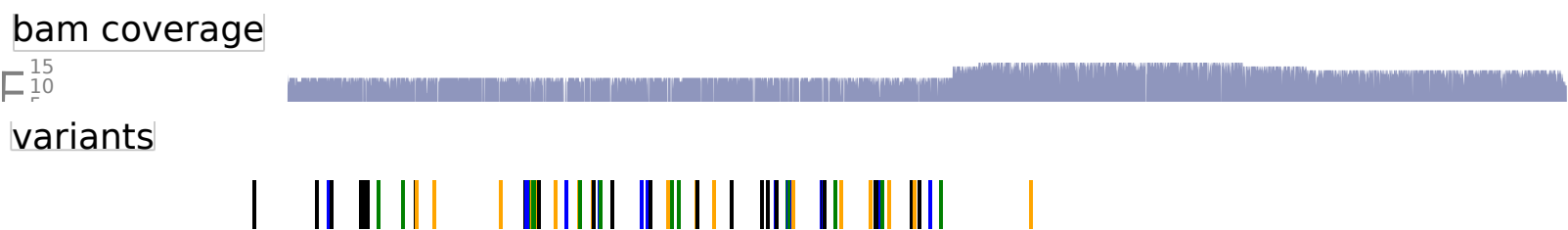
Sample: NA19127

Locus: HLA-K

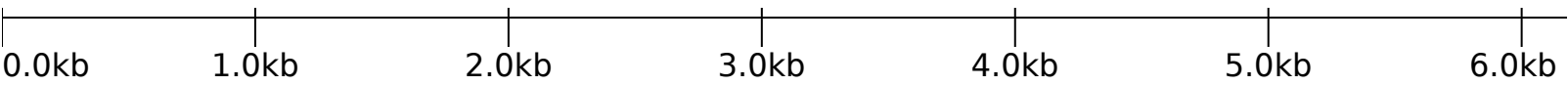
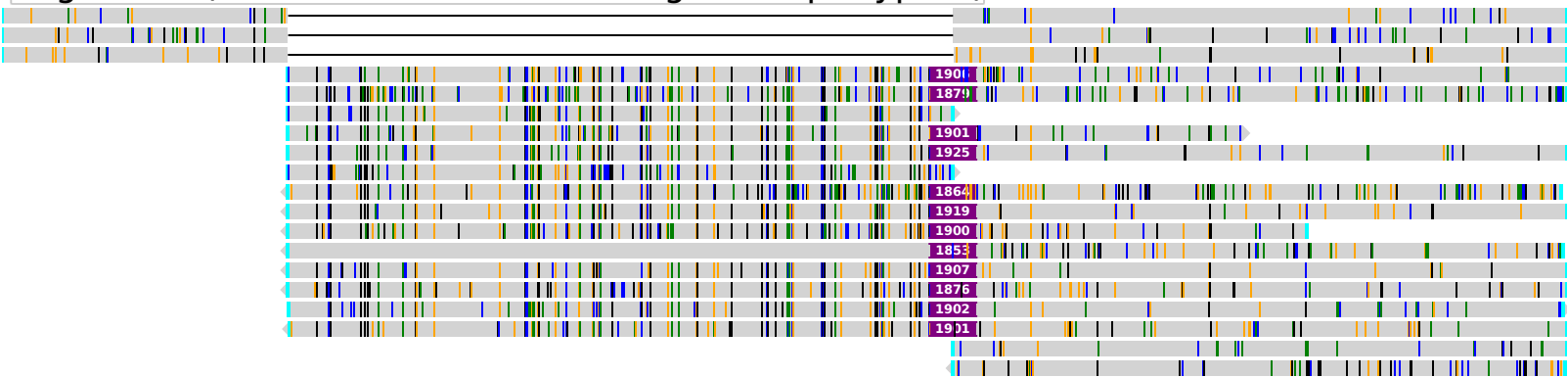
Resolution: 4th field

Full typing result:

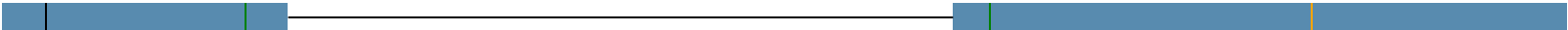
HLA-K*01:02



Alignment (reference: reconstructed gene haplotype 1)



HLA-K*01:02 (identity: 26.08%)



Sample: NA19127

Locus: HLA-L

Resolution: 4th field

Full typing result:

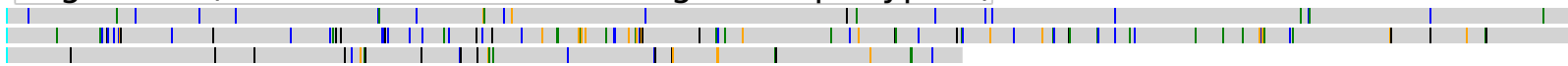
HLA-L*01:03

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-L*01:03 (identity: 99.89%)



Sample: NA19127

Locus: HLA-L

Resolution: 4th field

Full typing result:

HLA-L*01:01:01:01

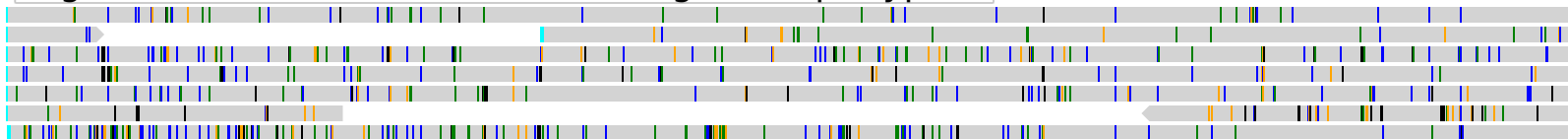
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-L*01:01:01:01 (identity: 99.92%)



Sample: NA19127

Locus: HLA-P

Resolution: 4th field

Full typing result:

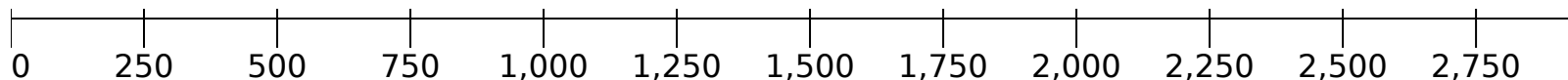
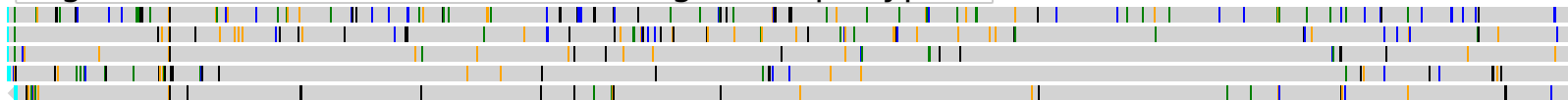
HLA-P*02:01:01:01

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 1)



HLA-P*02:01:01:01 (identity: 98.19%)



Sample: NA19127

Locus: HLA-T

Resolution: 4th field

Full typing result:

HLA-T*01:01:01:02

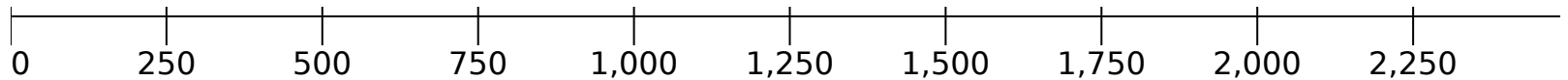
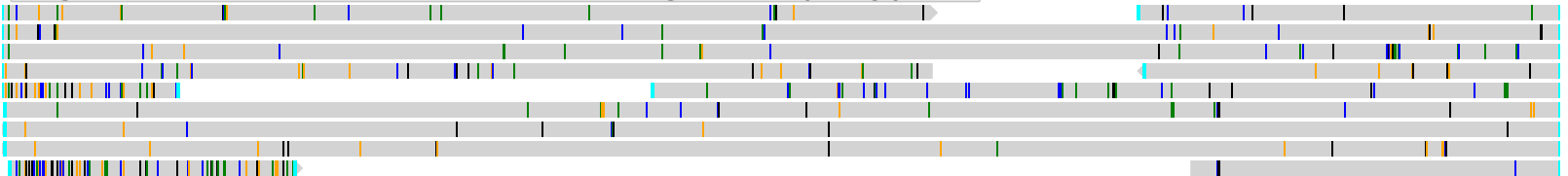
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-T*01:01:01:02 (identity: 99.92%)



Sample: NA19127

Locus: HLA-U

Resolution: 4th field

Full typing result:

HLA-U*01:03

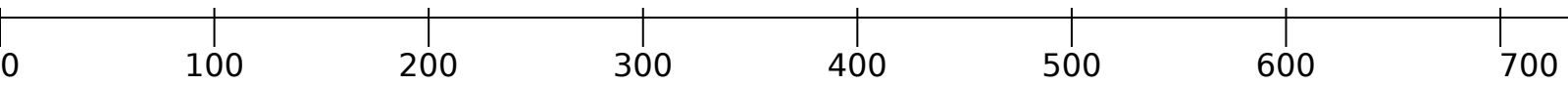
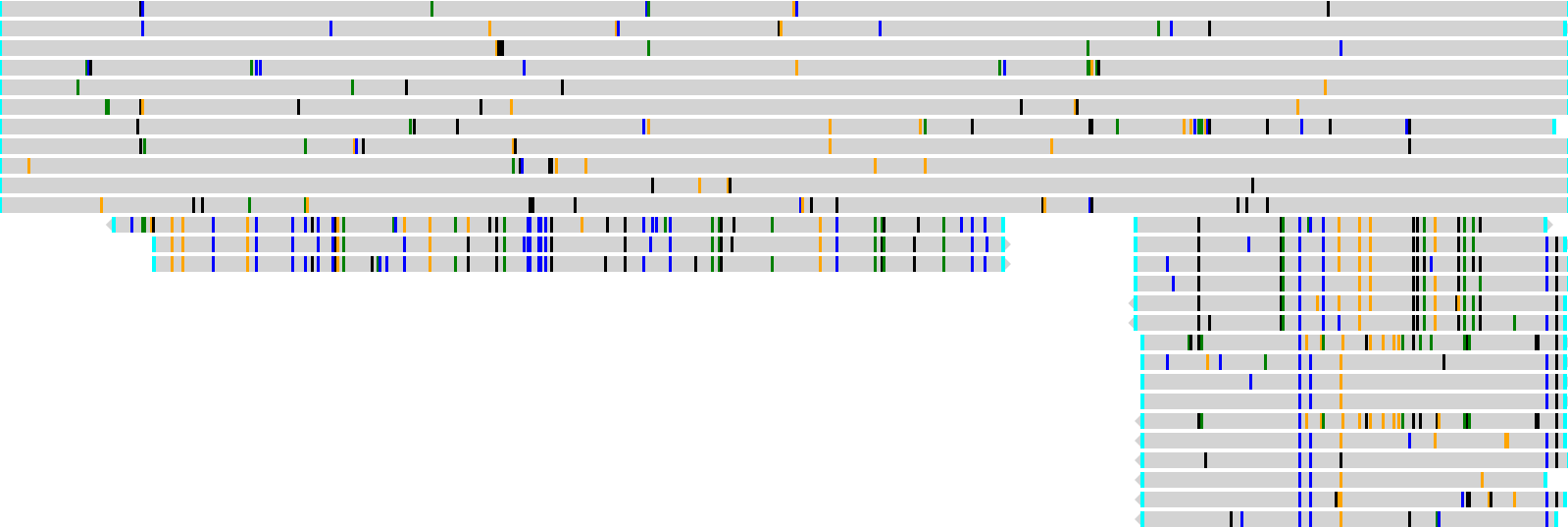
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-U*01:03 (identity: 100.00%)



Sample: NA19127

Locus: HLA-W

Resolution: 4th field

Full typing result:

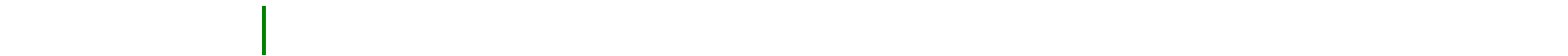
HLA-W*03:01:01:01

HLA-W*03:01:01:02

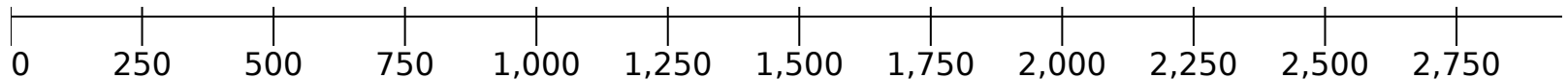
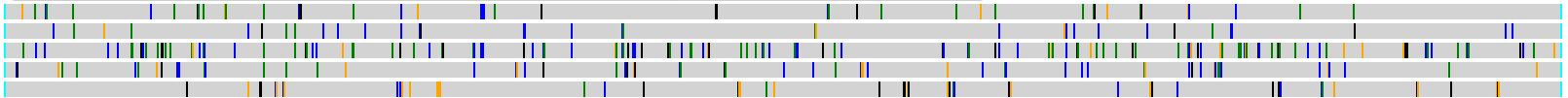
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-W*03:01:01:01 (identity: 99.01%)



HLA-W*03:01:01:02 (identity: 98.98%)



Sample: NA19127

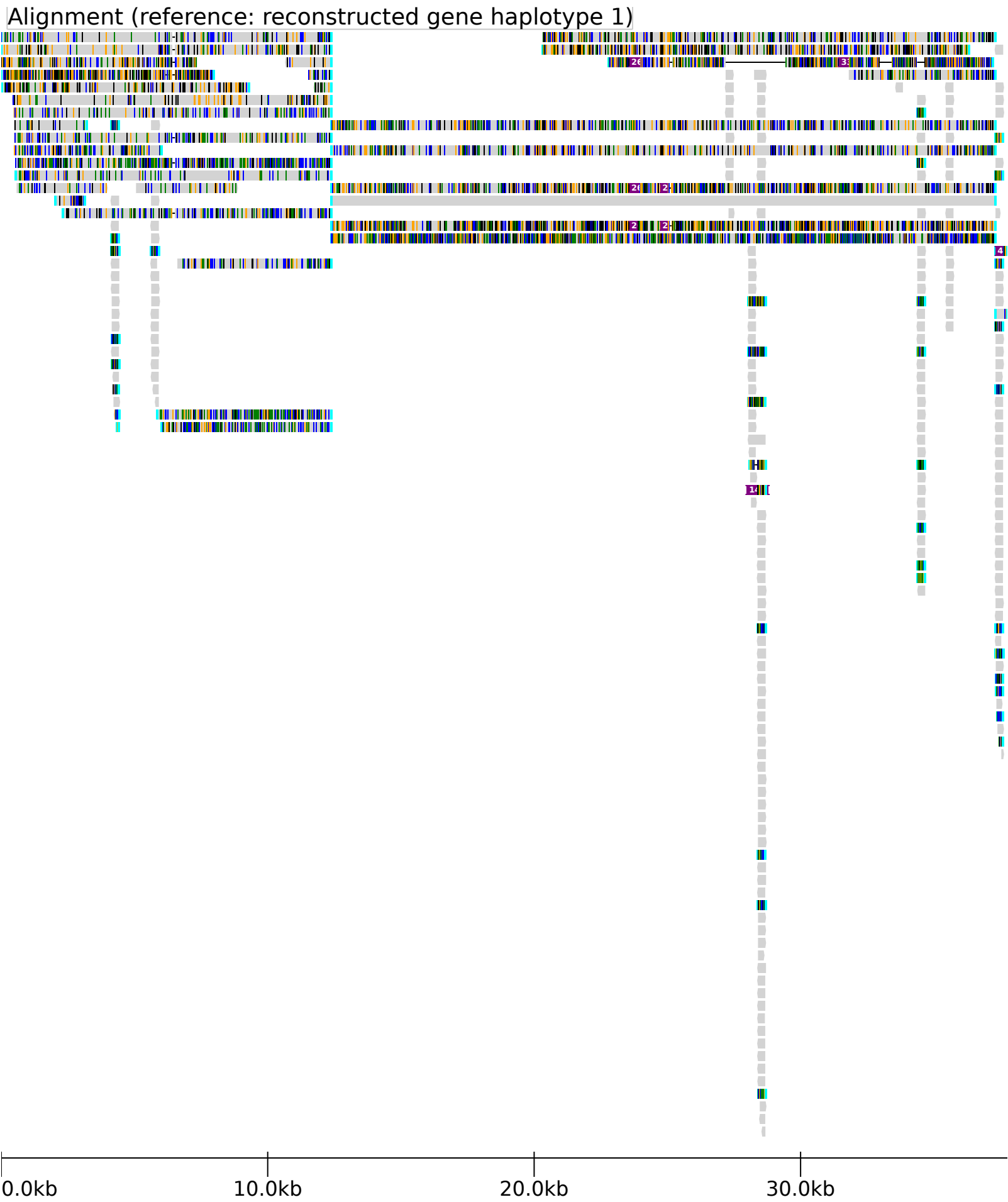
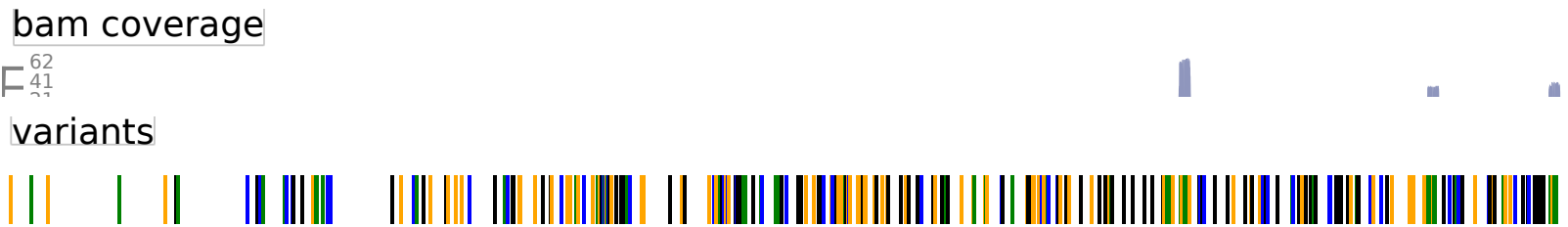
Locus: MICA

Resolution: 4th field

Full typing result:

MICA*018:01:01

MICA*018:01:04



MICA*018:01:01 (identity: 99.98%)
MICA*018:01:04 (identity: 99.97%)

Sample: NA19127

Locus: MICA

Resolution: 4th field

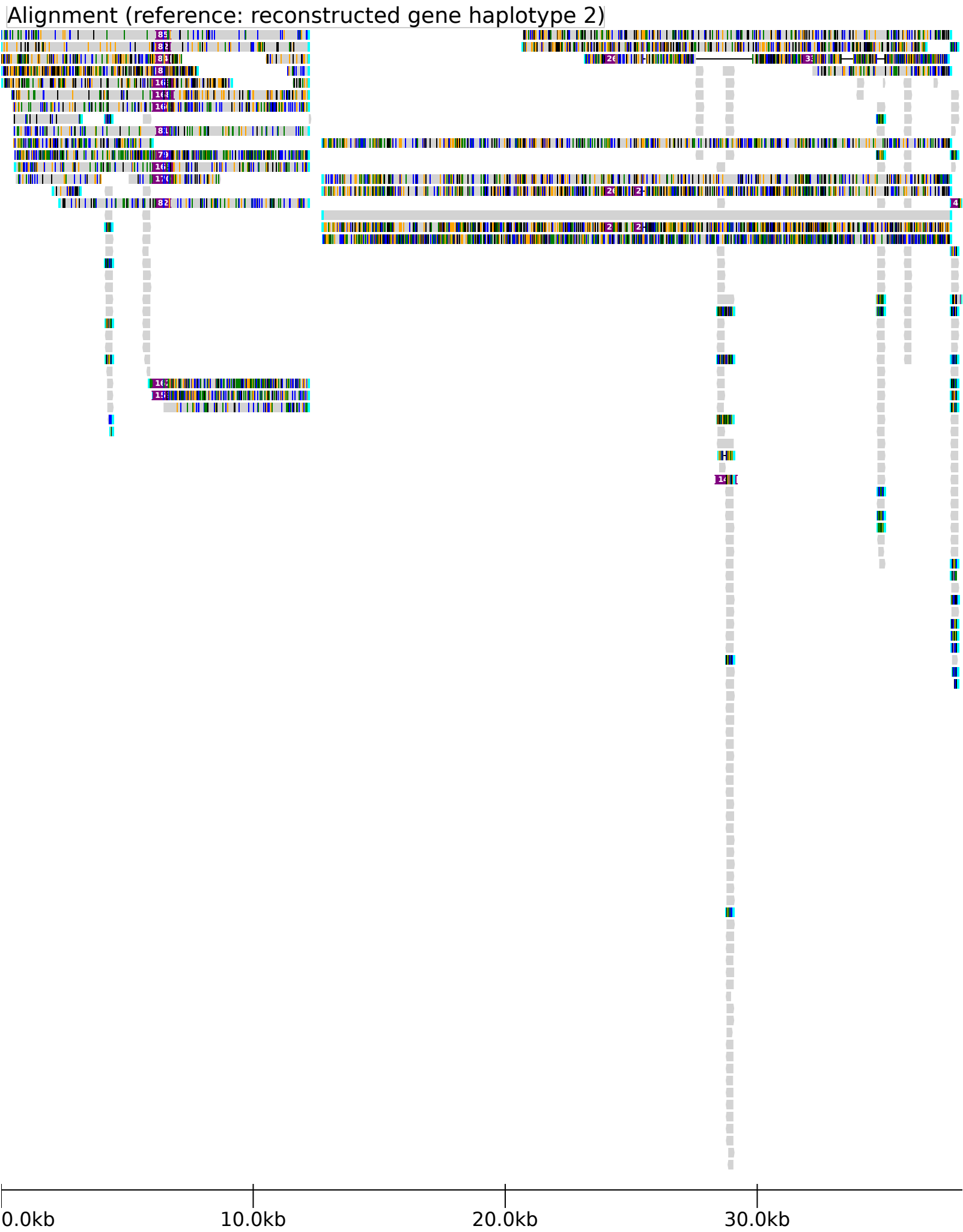
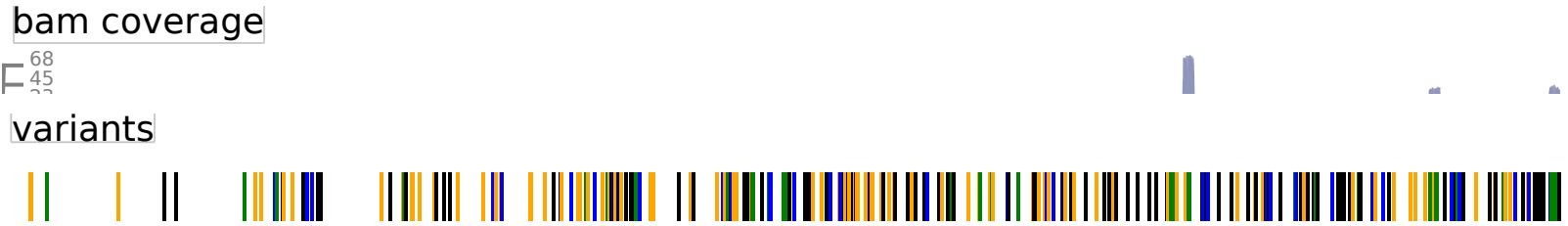
Full typing result:

MICA*002:01:07

MICA*002:01:03

MICA*002:01:01

MICA*041



MICA*002:01:07 (identity: 99.00%)

82

MICA*002:01:03 (identity: 98.98%)

82

MICA*002:01:01 (identity: 99.00%)

82

MICA*041 (identity: 98.99%)

82

Sample: NA19127

Locus: MICB

Resolution: 4th field

Full typing result:

MICB*052

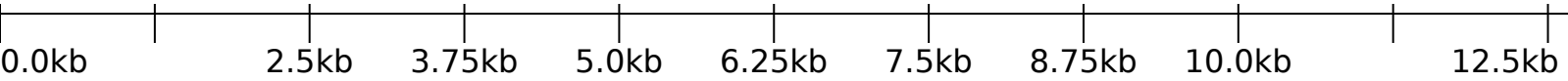
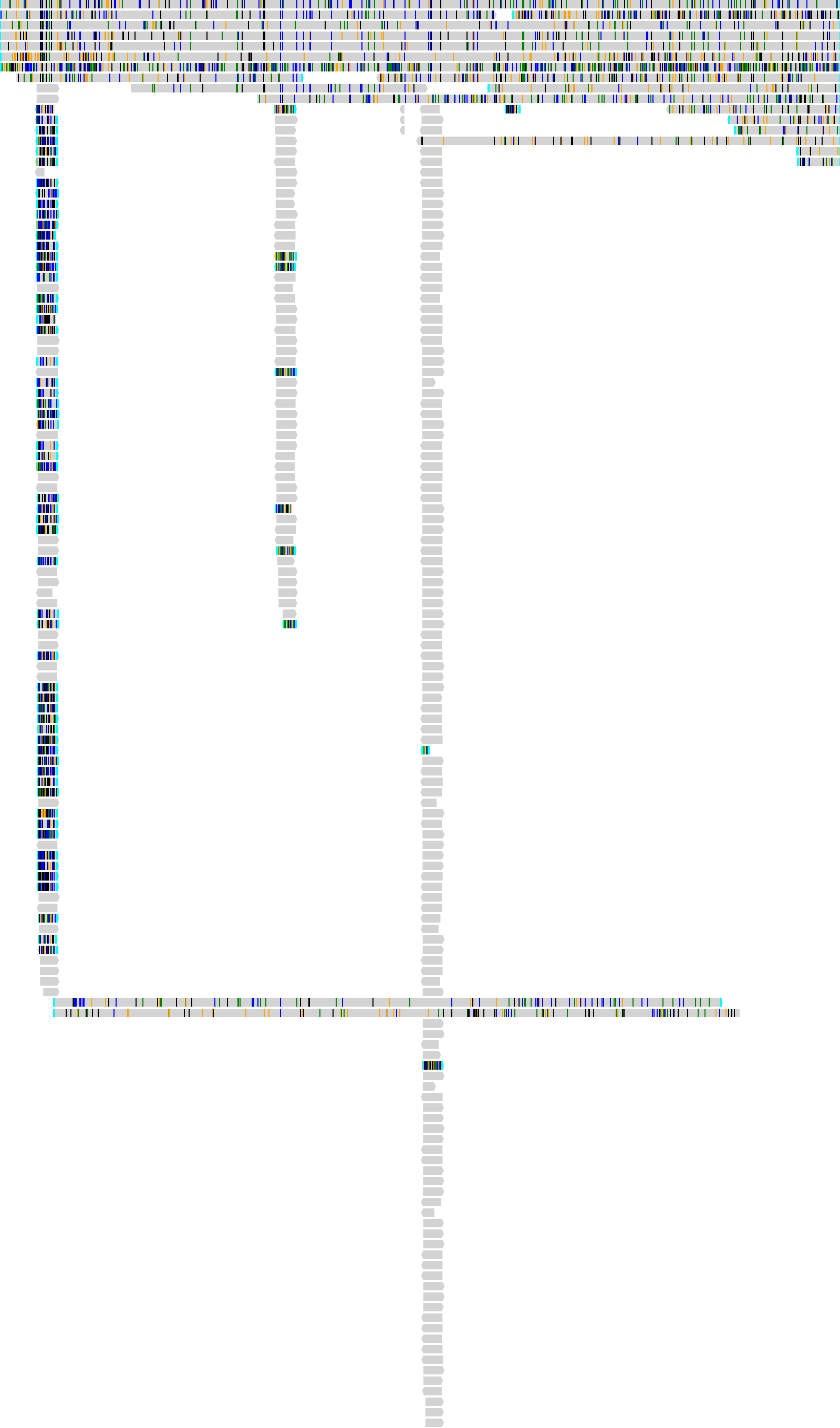
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



MICB*052 (identity: 99.89%)



Sample: NA19127

Locus: TAP1

Resolution: 4th field

Full typing result:

TAP1*01:01:01:04

TAP1*01:01:01:05

TAP1*01:01:01:02

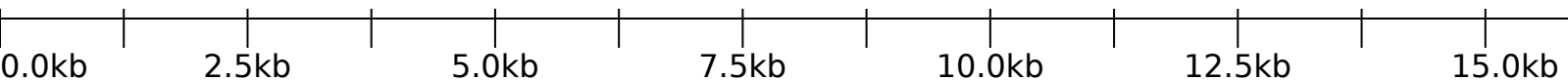
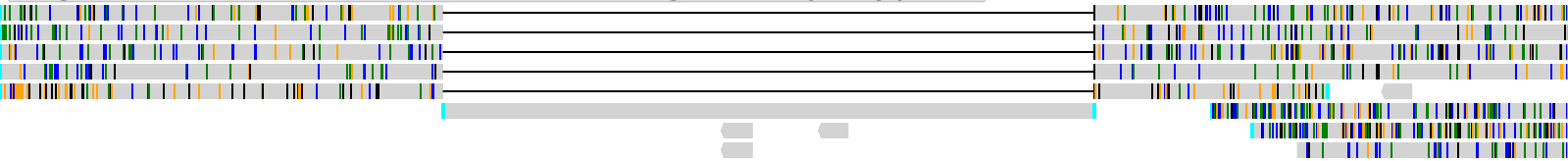
bam coverage



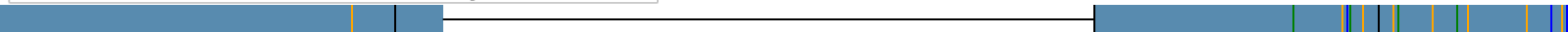
variants



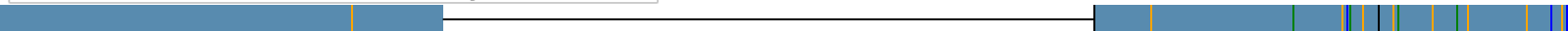
Alignment (reference: reconstructed gene haplotype 1)



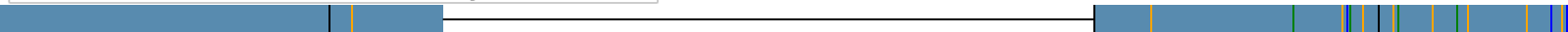
TAP1*01:01:01:04 (identity: 28.89%)



TAP1*01:01:01:05 (identity: 28.89%)



TAP1*01:01:01:02 (identity: 28.88%)



Sample: NA19127

Locus: TAP1

Resolution: 4th field

Full typing result:

TAP1*01:01:01:01

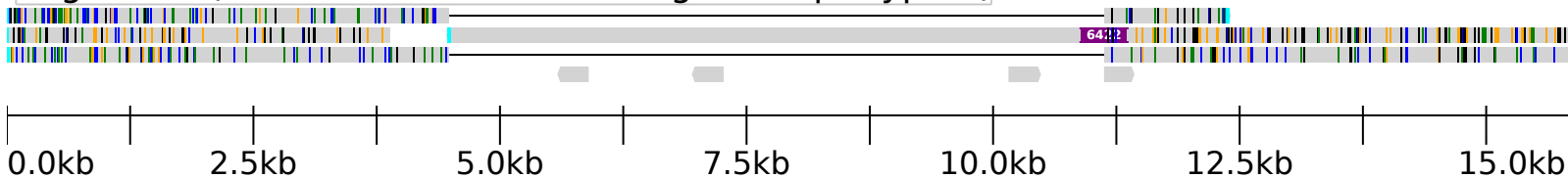
bam coverage



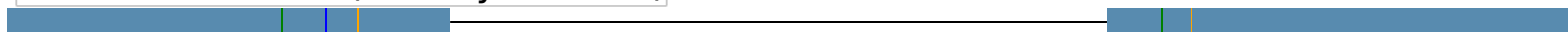
variants



Alignment (reference: reconstructed gene haplotype 2)



TAP1*01:01:01:01 (identity: 28.33%)



Sample: NA19127

Locus: TAP2

Resolution: 4th field

Full typing result:

TAP2*01:01:03:02

TAP2*01:01:03:03

TAP2*01:01:03:01

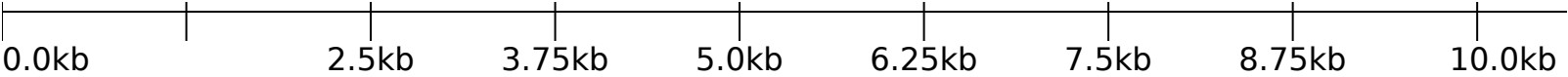
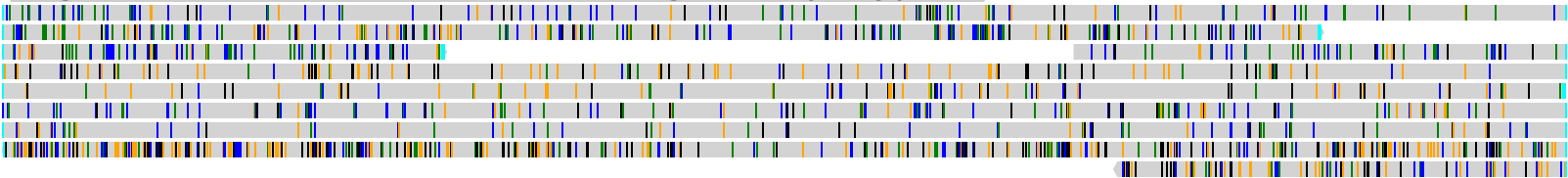
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



Sample: NA19127

Locus: TAP2

Resolution: 4th field

Full typing result:

TAP2*01:01:03:01

TAP2*01:01:03:02

TAP2*01:01:03:03

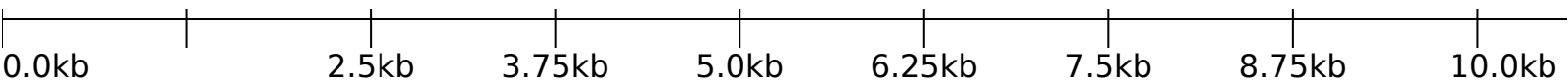
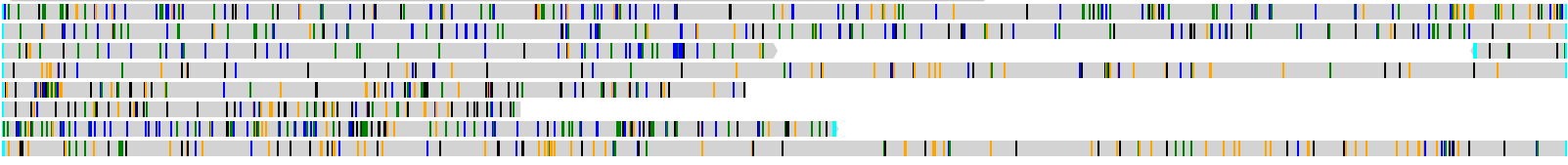
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



TAP2*01:01:03:01 (identity: 99.90%)



TAP2*01:01:03:02 (identity: 99.88%)



TAP2*01:01:03:03 (identity: 99.87%)

