

**Sample: NA19129**

**Locus: HFE**

**Resolution: 4th field**

**Full typing result:**

**HFE\*001:01:01**

bam coverage

4  
3

variants

Alignment (reference: reconstructed gene haplotype 1)

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

HFE\*001:01:01 (identity: 100.00%)



**Sample: NA19129**

**Locus: HFE**

**Resolution: 4th field**

**Full typing result:**

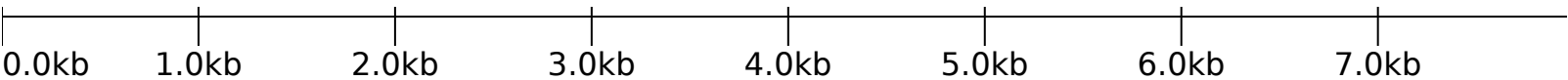
**HFE\*001:01:03**

bam coverage

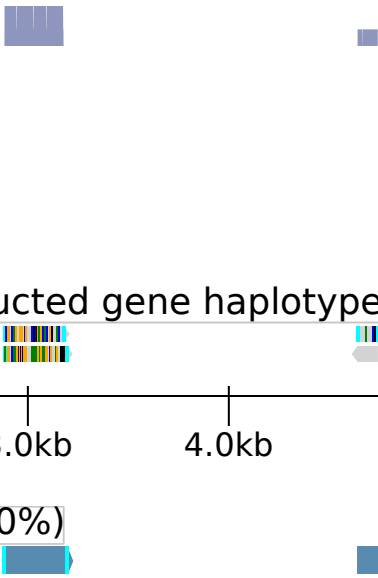
3  
2  
1

variants

Alignment (reference: reconstructed gene haplotype 2)



HFE\*001:01:03 (identity: 100.00%)



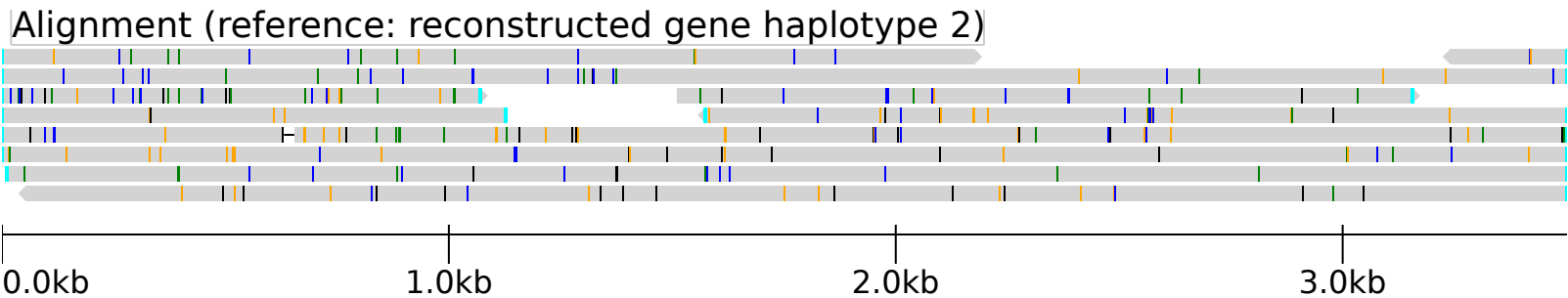
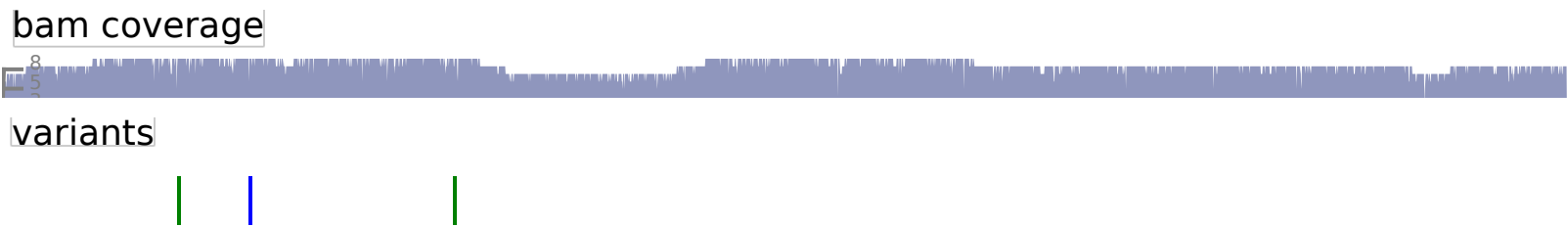
Sample: NA19129

Locus: HLA-A

Resolution: 4th field

Full typing result:

- HLA-A\*23:01:01:01HLA-A\*23:01:01:08HLA-A\*23:01:01:07
- HLA-A\*23:01:01:15HLA-A\*23:01:01:16HLA-A\*23:01:01:28
- HLA-A\*23:01:20HLA-A\*23:01:22HLA-A\*23:01:26
- HLA-A\*23:01:29HLA-A\*23:01:30HLA-A\*23:01:33
- HLA-A\*23:01:38HLA-A\*23:01:40HLA-A\*23:106N



HLA-A*23:01:01:01 (identity: 100.00%)	
HLA-A*23:01:01:08 (identity: 99.91%)	
HLA-A*23:01:01:07 (identity: 99.97%)	
HLA-A*23:01:01:15 (identity: 99.97%)	
HLA-A*23:01:01:16 (identity: 99.97%)	
HLA-A*23:01:01:28 (identity: 99.97%)	
HLA-A*23:01:20 (identity: 99.97%)	
HLA-A*23:01:22 (identity: 99.97%)	
HLA-A*23:01:26 (identity: 99.97%)	
HLA-A*23:01:29 (identity: 99.97%)	

Sample: NA19129

Locus: HLA-A

Resolution: 4th field

Full typing result:

HLA-A\*02:02:01:01

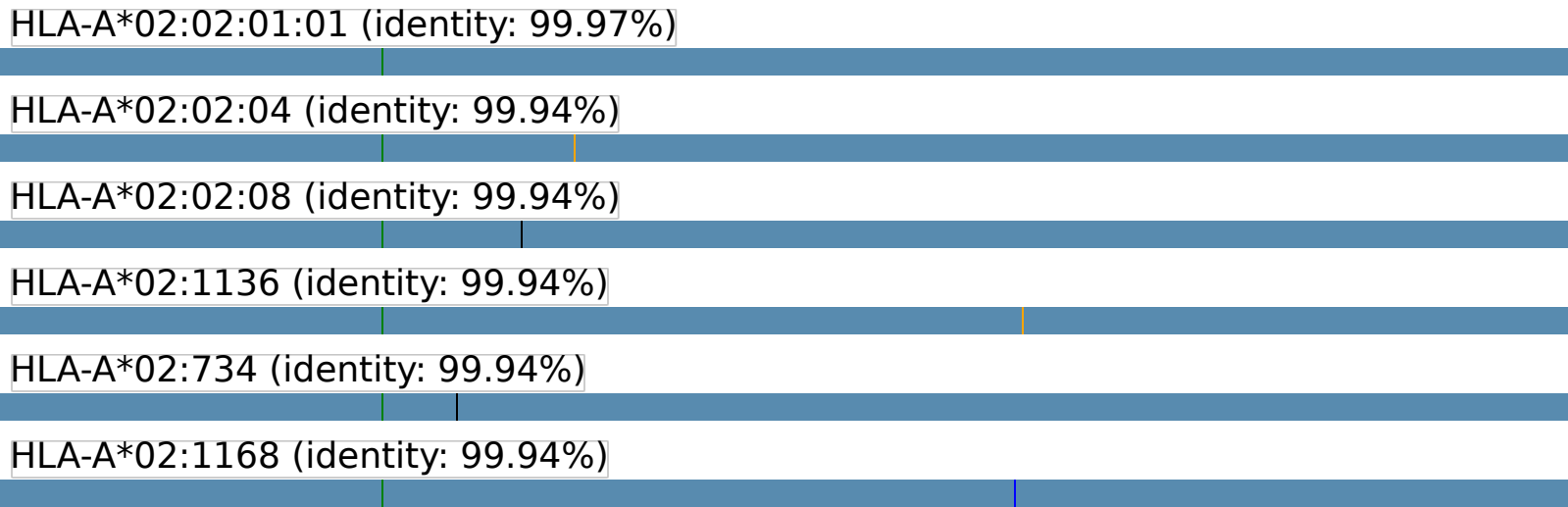
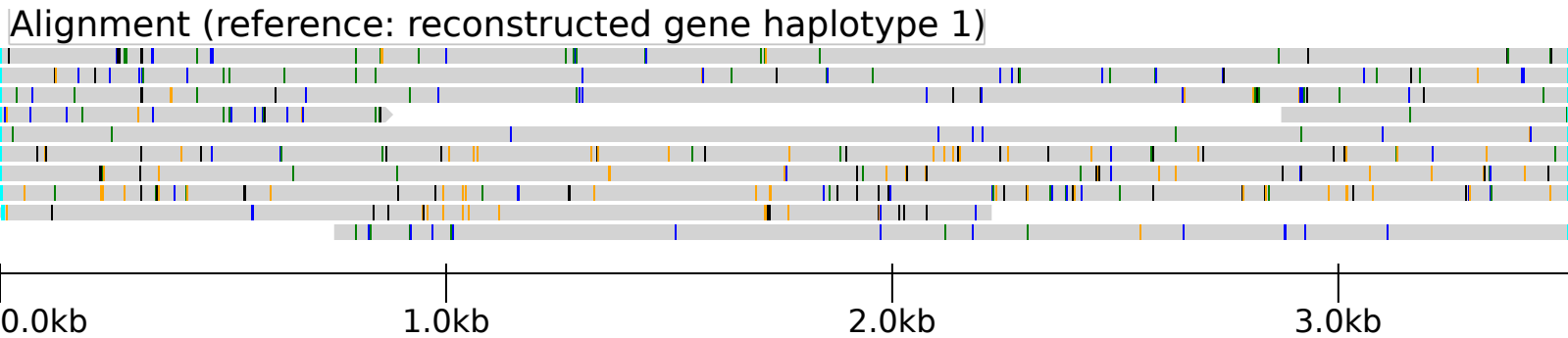
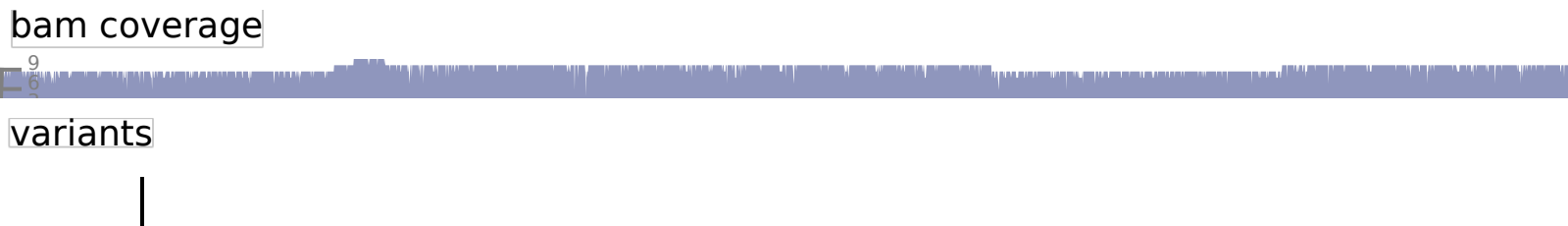
HLA-A\*02:02:04

HLA-A\*02:02:08

HLA-A\*02:1136

HLA-A\*02:734

HLA-A\*02:1168



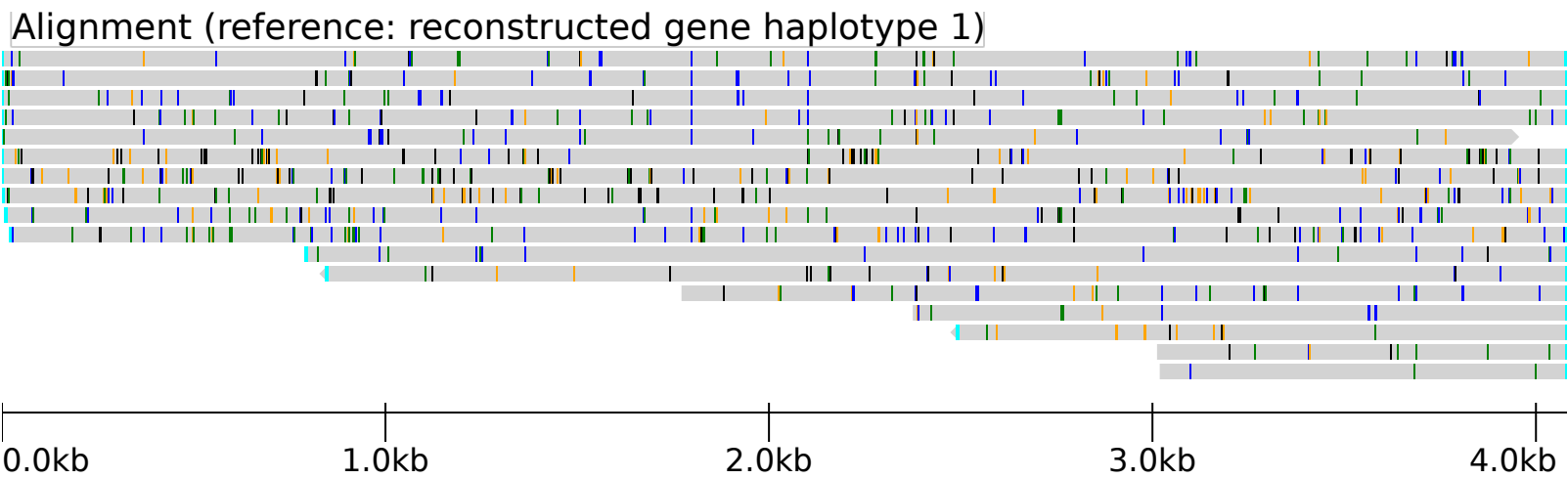
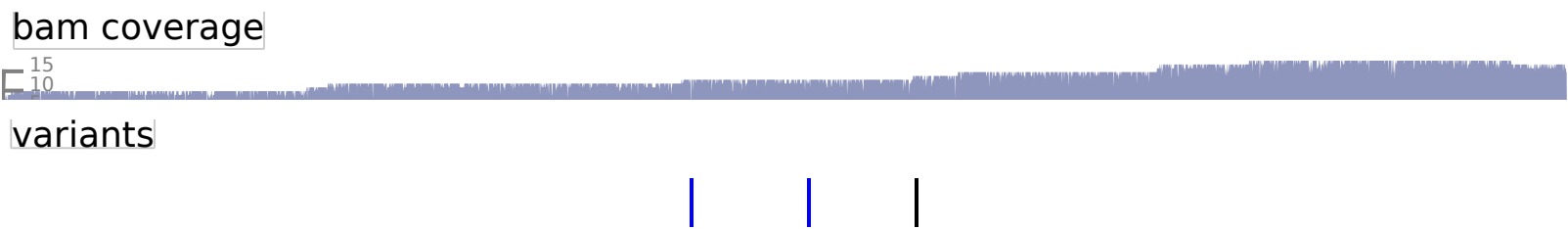
Sample: NA19129

Locus: HLA-B

Resolution: 4th field

Full typing result:

- HLA-B\*07:02:01:01
- HLA-B\*07:02:01:111
- HLA-B\*07:02:01:113
- HLA-B\*07:02:01:114
- HLA-B\*07:02:01:115
- HLA-B\*07:02:01:117
- HLA-B\*07:02:01:118
- HLA-B\*07:02:01:119
- HLA-B\*07:02:01:120
- HLA-B\*07:02:01:121
- HLA-B\*07:02:01:122
- HLA-B\*07:02:01:123
- HLA-B\*07:02:01:85
- HLA-B\*07:02:45
- HLA-B\*07:456



HLA-B*07:02:01:01 (identity: 99.98%)	
HLA-B*07:02:01:111 (identity: 99.95%)	
HLA-B*07:02:01:113 (identity: 99.95%)	
HLA-B*07:02:01:114 (identity: 99.95%)	
HLA-B*07:02:01:115 (identity: 99.95%)	
HLA-B*07:02:01:117 (identity: 99.95%)	
HLA-B*07:02:01:118 (identity: 99.95%)	
HLA-B*07:02:01:119 (identity: 99.95%)	
HLA-B*07:02:01:120 (identity: 99.95%)	
HLA-B*07:02:01:121 (identity: 99.95%)	

**Sample: NA19129**

**Locus: HLA-B**

**Resolution: 4th field**

**Full typing result:**

**HLA-B\*58:01:01:01**

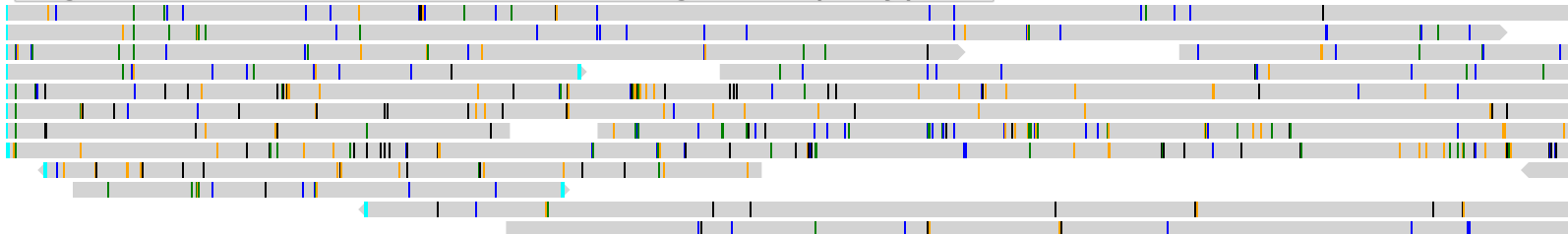
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

4.0kb

**HLA-B\*58:01:01:01 (identity: 99.98%)**



Sample: NA19129

Locus: HLA-C

Resolution: 4th field

Full typing result:

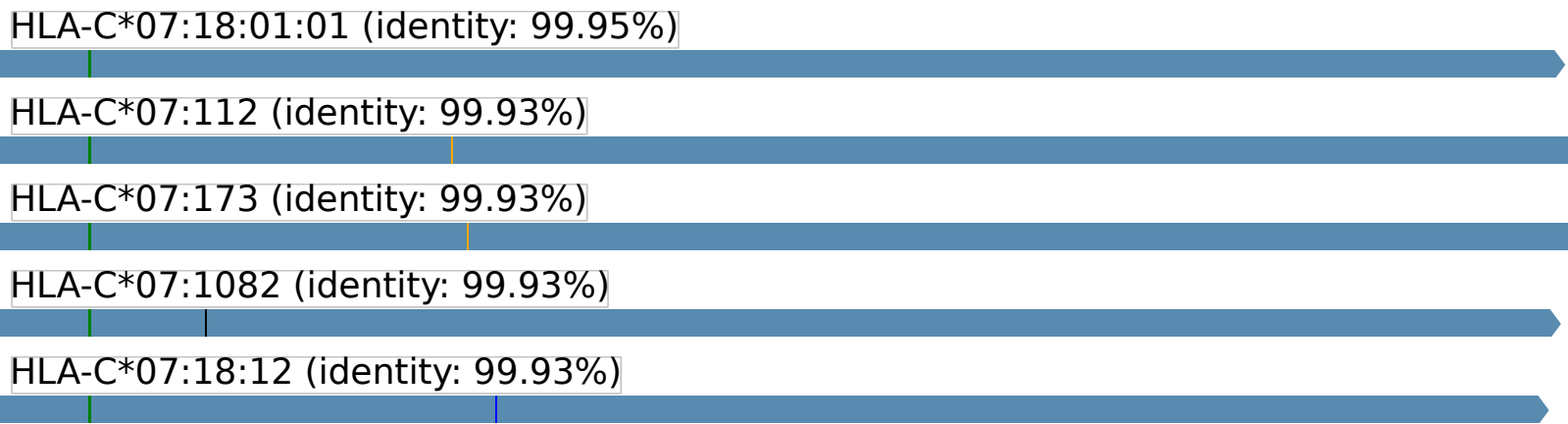
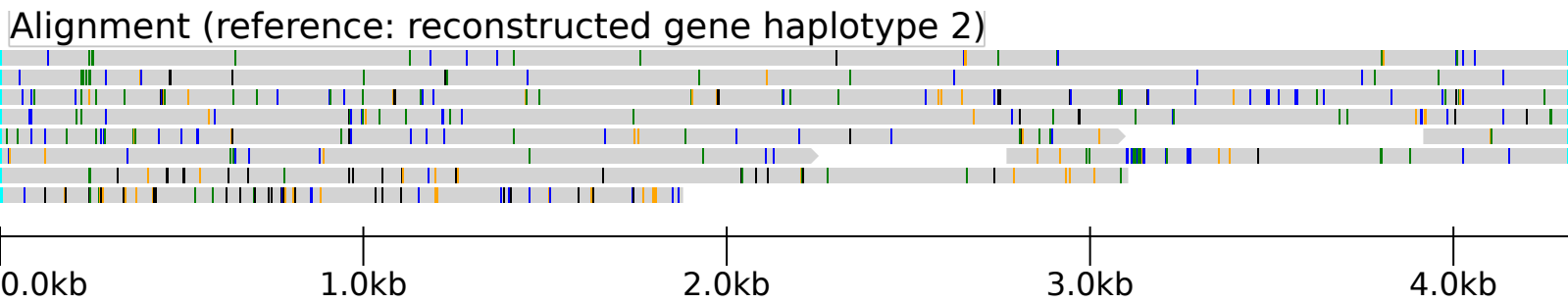
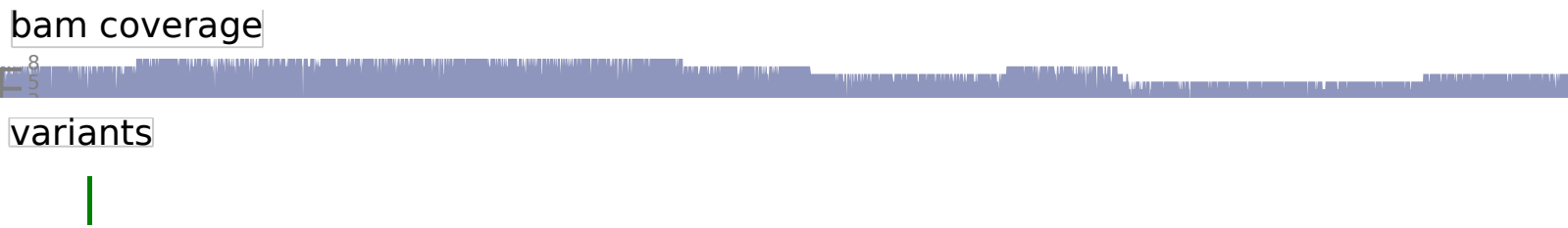
HLA-C\*07:18:01:01

HLA-C\*07:112

HLA-C\*07:173

HLA-C\*07:1082

HLA-C\*07:18:12



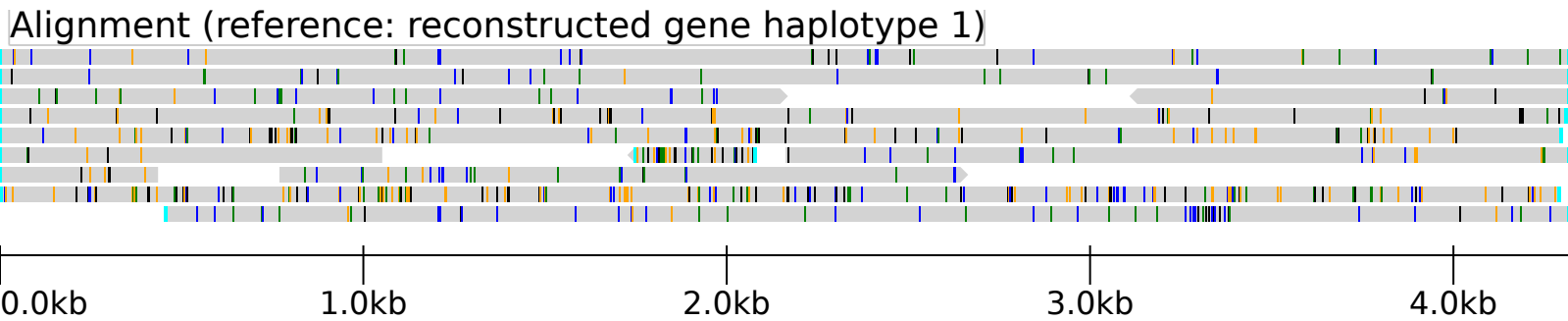
Sample: NA19129

Locus: HLA-C

Resolution: 4th field

Full typing result:

- HLA-C\*07:02:01:193HLA-C\*07:02:01:01HLA-C\*07:02:01:107
- HLA-C\*07:02:01:197HLA-C\*07:373HLA-C\*07:1107
- HLA-C\*07:02:23HLA-C\*07:862HLA-C\*07:1038
- HLA-C\*07:1027



- HLA-C\*07:02:01:193 (identity: 100.00%)
- HLA-C\*07:02:01:01 (identity: 99.98%)
- HLA-C\*07:02:01:107 (identity: 99.98%)
- HLA-C\*07:02:01:197 (identity: 99.98%)
- HLA-C\*07:373 (identity: 99.98%)
- HLA-C\*07:1107 (identity: 99.98%)
- HLA-C\*07:02:23 (identity: 99.98%)
- HLA-C\*07:862 (identity: 99.98%)
- HLA-C\*07:1038 (identity: 99.98%)
- HLA-C\*07:1027 (identity: 99.98%)



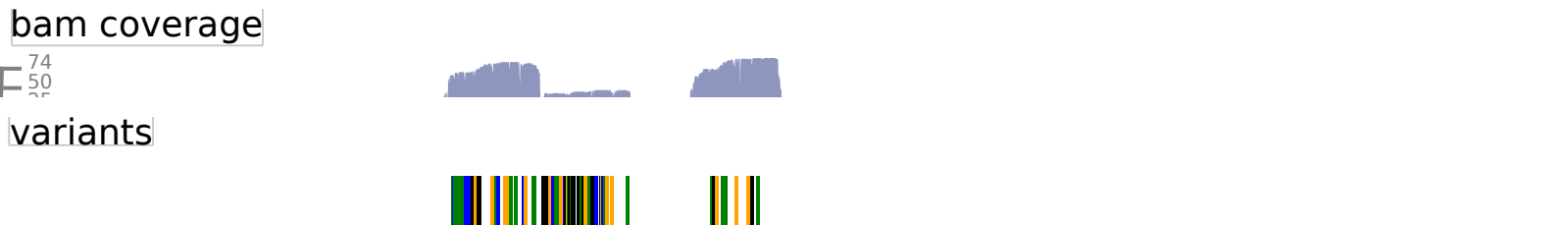
Sample: NA19129

Locus: HLA-DMA

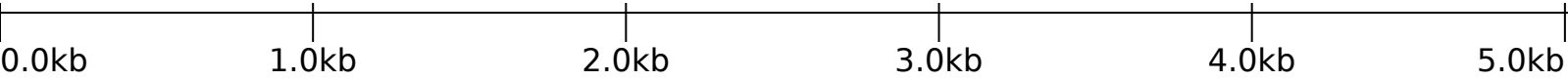
Resolution: 4th field

Full typing result:

HLA-DMA\*01:01:01:04



Alignment (reference: reconstructed gene haplotype 1)



HLA-DMA\*01:01:01:04 (identity: 100.00%)



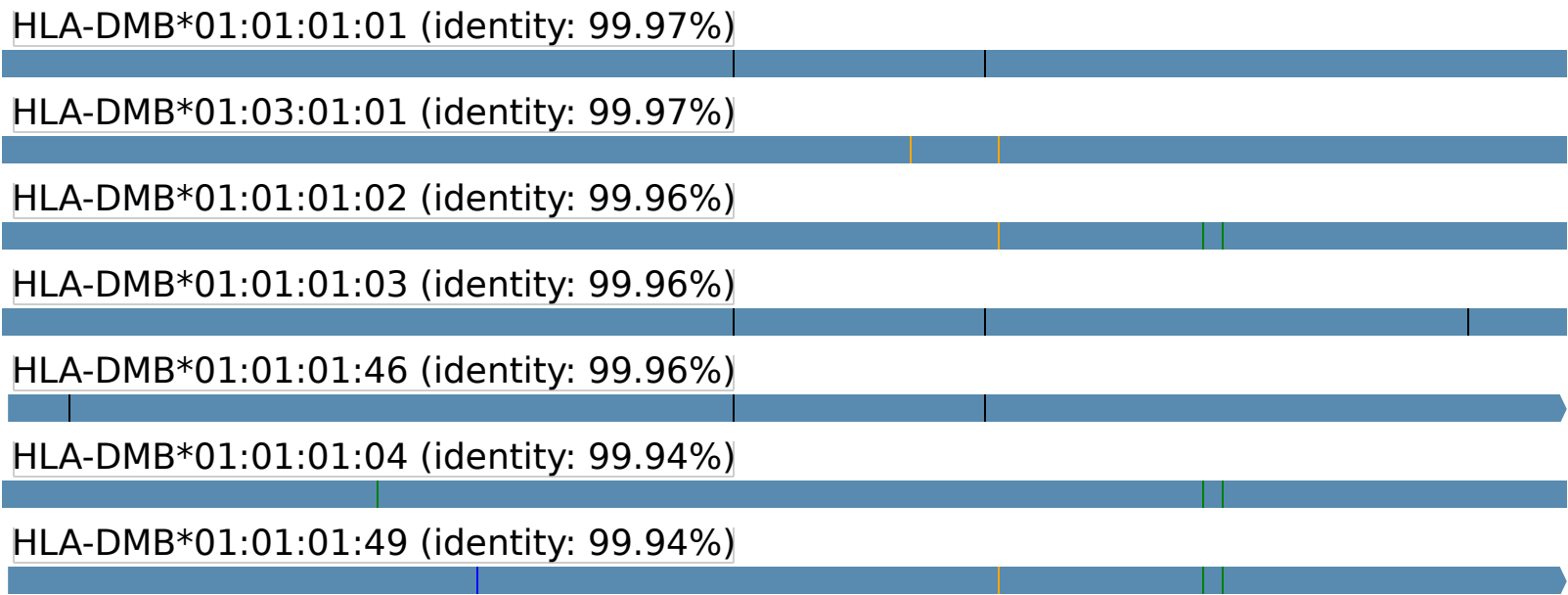
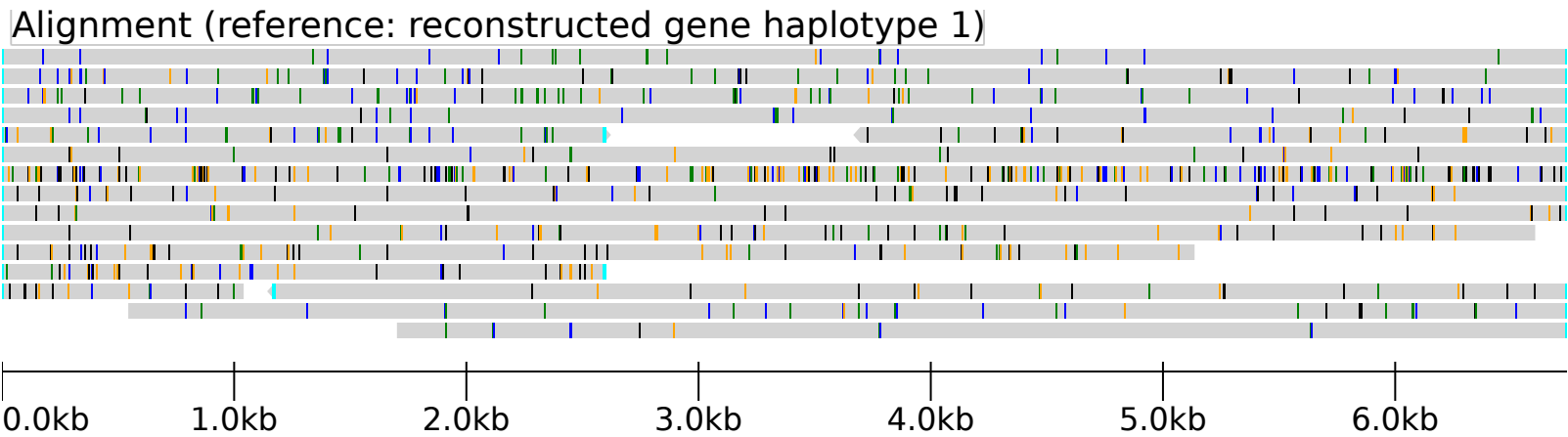
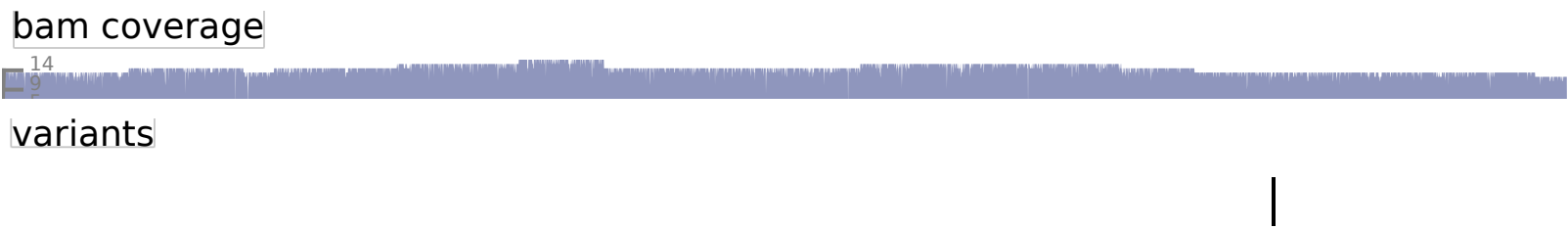
Sample: NA19129

Locus: HLA-DMB

Resolution: 4th field

Full typing result:

- HLA-DMB\*01:01:01:01
- HLA-DMB\*01:03:01:01
- HLA-DMB\*01:01:01:02
- HLA-DMB\*01:01:01:03
- HLA-DMB\*01:01:01:46
- HLA-DMB\*01:01:01:04
- HLA-DMB\*01:01:01:49



**Sample: NA19129**

**Locus: HLA-DMB**

**Resolution: 4th field**

**Full typing result:**

HLA-DMB\*01:03:01:03

HLA-DMB\*01:01:01:02

HLA-DMB\*01:03:01:02

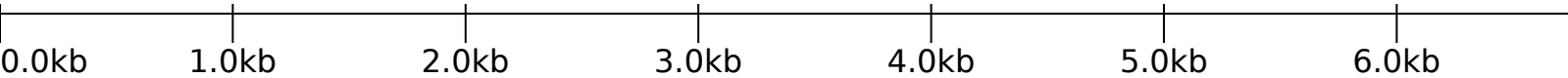
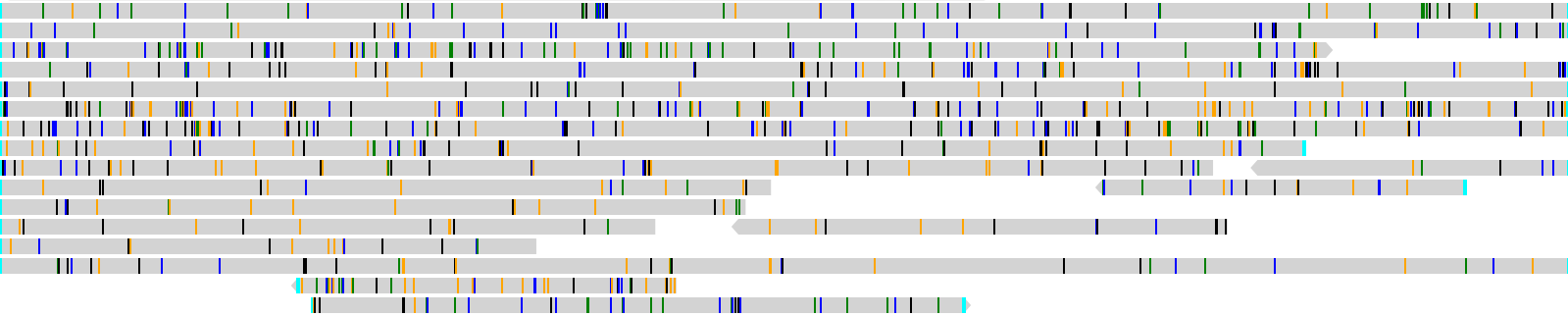
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



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



HLA-DMB\*01:01:01:02 (identity: 99.94%)



HLA-DMB\*01:03:01:02 (identity: 99.94%)



**Sample: NA19129**

**Locus: HLA-DOA**

**Resolution: 4th field**

**Full typing result:**

HLA-DOA\*01:01:08

HLA-DOA\*01:01:04:03

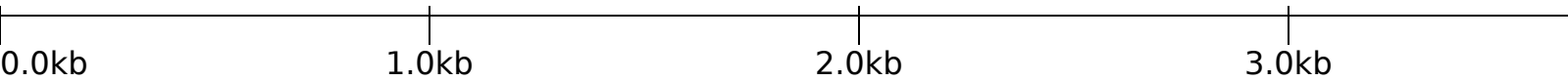
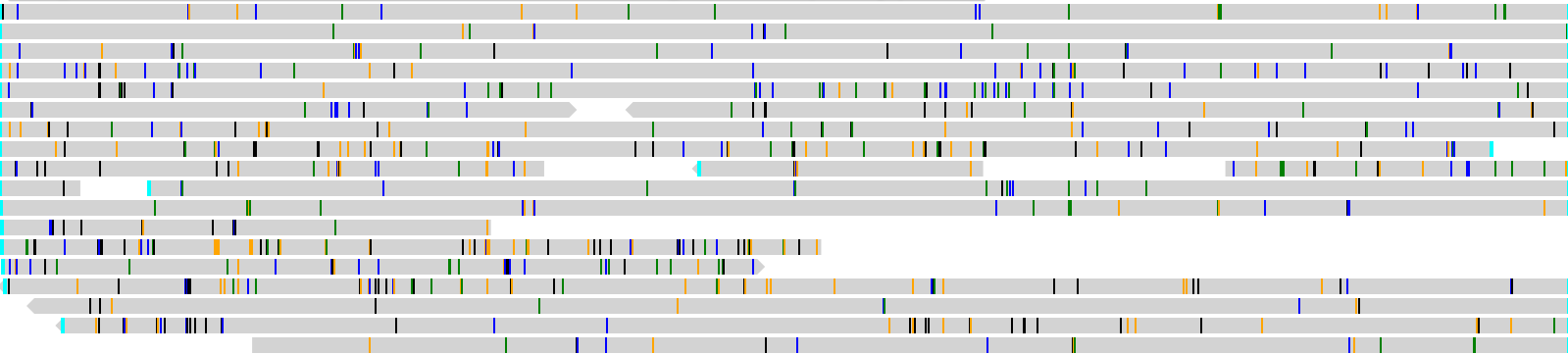
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DOA\*01:01:08 (identity: 100.00%)



HLA-DOA\*01:01:04:03 (identity: 99.97%)



**Sample: NA19129**

**Locus: HLA-DOA**

**Resolution: 4th field**

**Full typing result:**

**HLA-DOA\*01:01:02:32**

**HLA-DOA\*01:01:02:13**

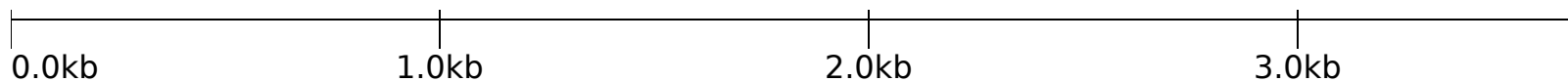
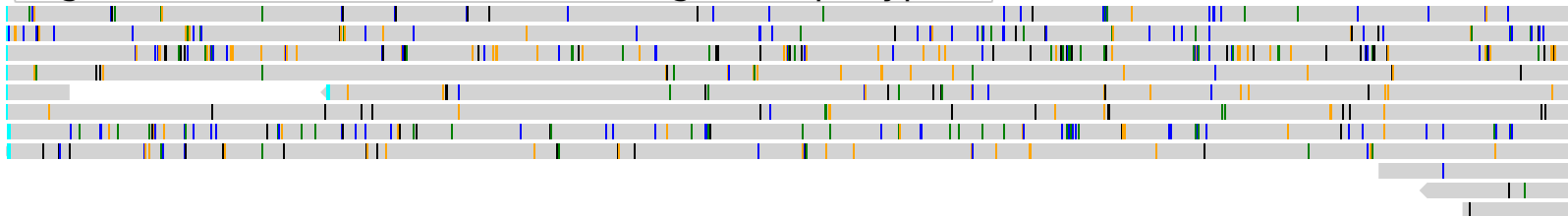
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



HLA-DOA\*01:01:02:32 (identity: 99.97%)



HLA-DOA\*01:01:02:13 (identity: 99.94%)



**Sample: NA19129**

**Locus: HLA-DOB**

**Resolution: 4th field**

**Full typing result:**

**HLA-DOB\*01:01:01:01**

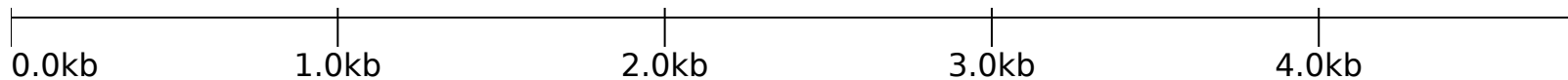
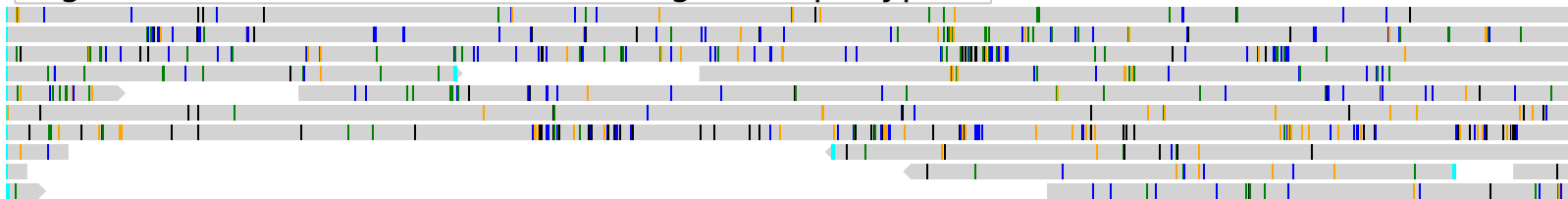
**HLA-DOB\*01:16**

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



**HLA-DOB\*01:01:01:01 (identity: 99.98%)**



**HLA-DOB\*01:16 (identity: 99.96%)**



**Sample: NA19129**

**Locus: HLA-DOB**

**Resolution: 4th field**

**Full typing result:**

**HLA-DOB\*01:02:01:01**

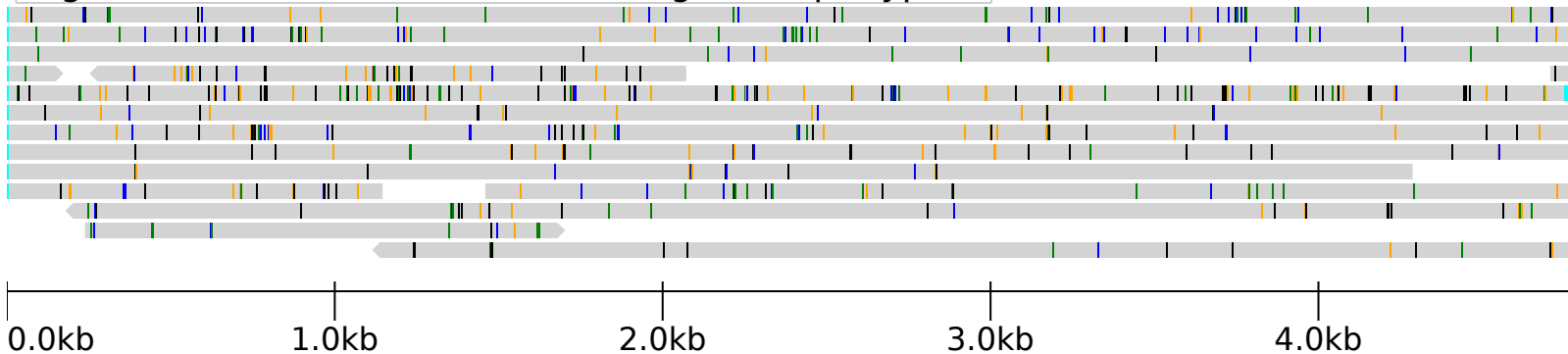
bam coverage



variants

|

Alignment (reference: reconstructed gene haplotype 1)



HLA-DOB\*01:02:01:01 (identity: 99.98%)



**Sample: NA19129**

**Locus: HLA-DPA1**

**Resolution: 4th field**

**Full typing result:**

**HLA-DPA1\*02:01:08:03**

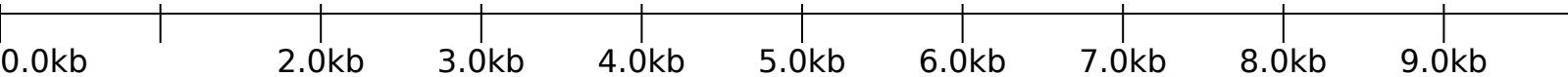
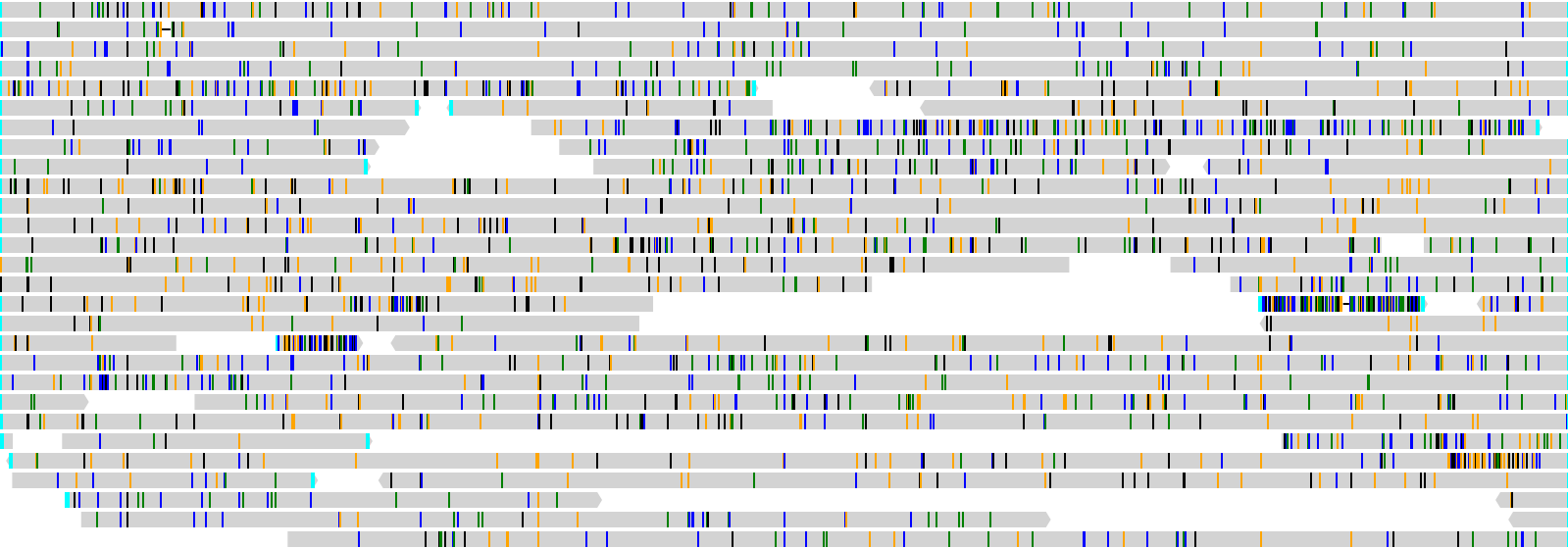
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DPA1\*02:01:08:03 (identity: 100.00%)





Sample: NA19129

Locus: HLA-DPA1

Resolution: 4th field

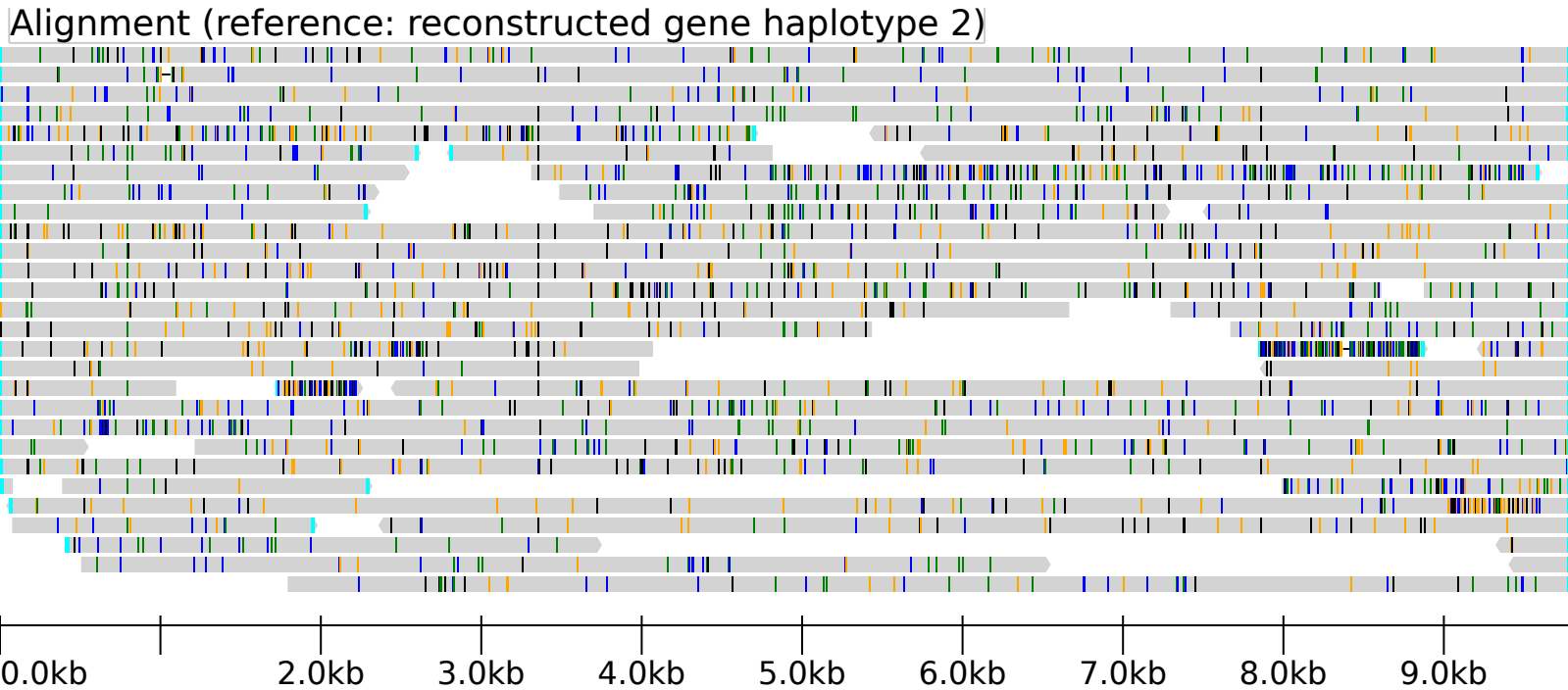
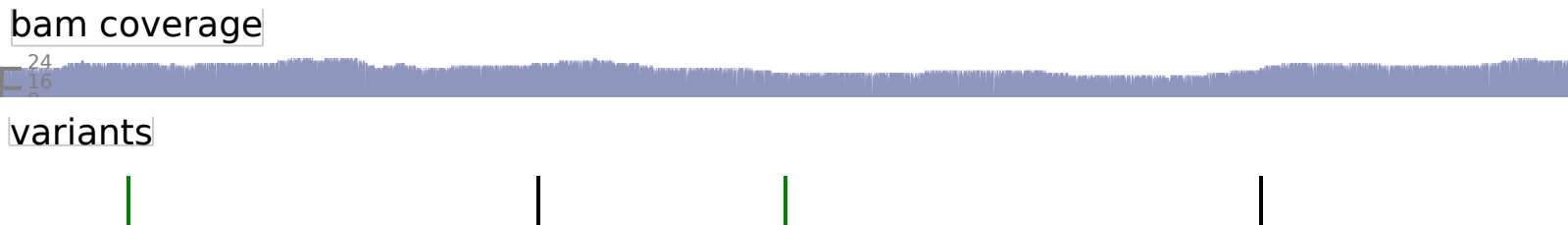
Full typing result:

HLA-DPA1\*02:01:01:02

HLA-DPA1\*02:26:01:01

HLA-DPA1\*02:84

HLA-DPA1\*02:01:08:03



HLA-DPA1*02:01:01:02 (identity: 99.99%)	
HLA-DPA1*02:26:01:01 (identity: 99.98%)	
HLA-DPA1*02:84 (identity: 99.97%)	
HLA-DPA1*02:01:08:03 (identity: 99.96%)	

Sample: NA19129

Locus: HLA-DPA2

Resolution: 4th field

Full typing result:

HLA-DPA2\*01:01:02

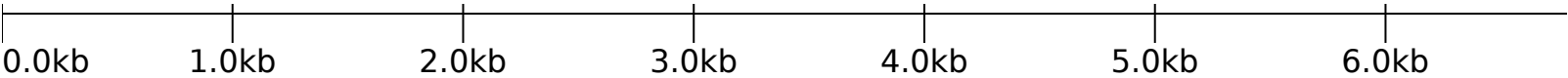
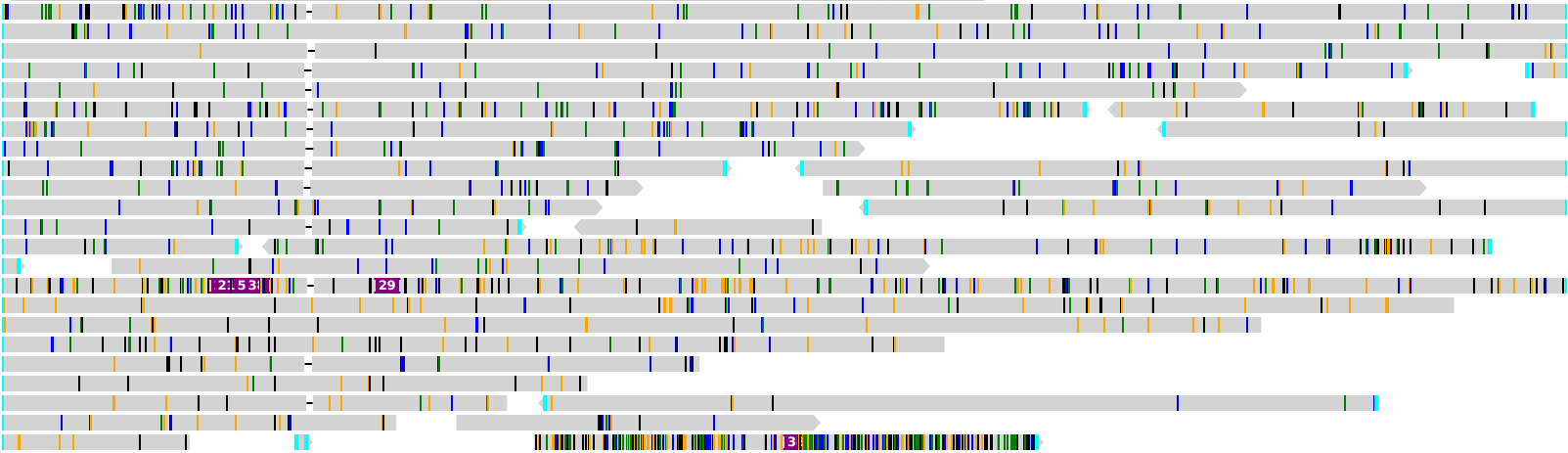
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



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



Sample: NA19129

Locus: HLA-DPB1

Resolution: 4th field

Full typing result:

- HLA-DPB1\*01:01:01:01
- HLA-DPB1\*01:01:01:03
- HLA-DPB1\*01:01:01:11
- HLA-DPB1\*01:01:01:13
- HLA-DPB1\*01:01:01:15
- HLA-DPB1\*01:01:01:16
- HLA-DPB1\*01:01:01:18
- HLA-DPB1\*01:01:01:19
- HLA-DPB1\*01:01:01:21
- HLA-DPB1\*01:01:01:23

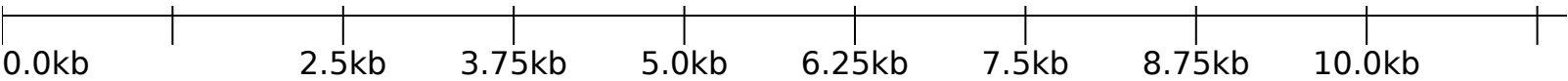
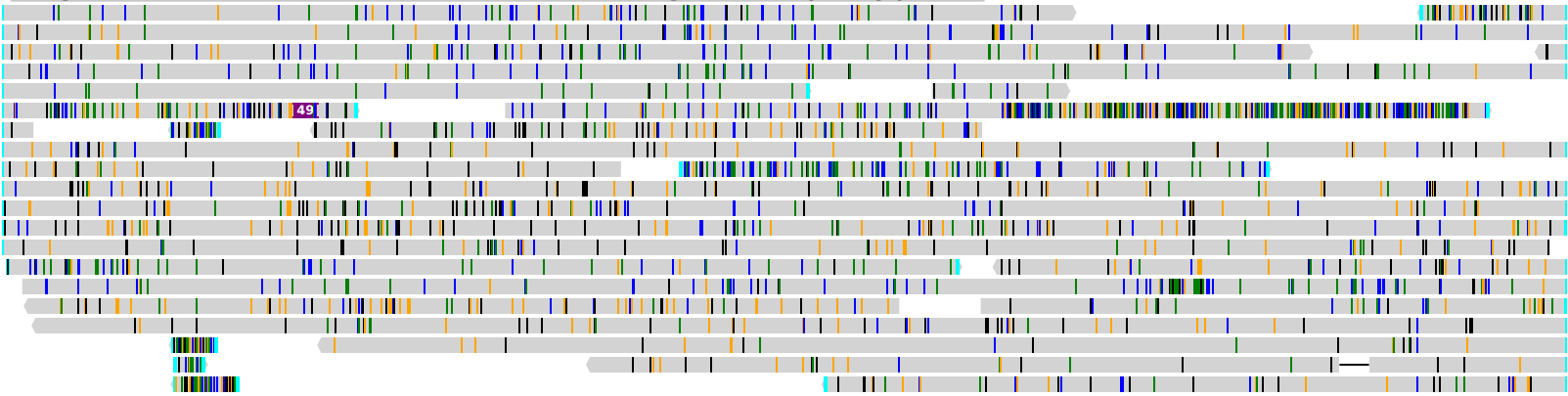
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



- HLA-DPB1\*01:01:01:01 (identity: 100.00%)
- HLA-DPB1\*01:01:01:03 (identity: 99.99%)
- HLA-DPB1\*01:01:01:11 (identity: 99.99%)
- HLA-DPB1\*01:01:01:13 (identity: 99.99%)
- HLA-DPB1\*01:01:01:15 (identity: 99.99%)
- HLA-DPB1\*01:01:01:16 (identity: 99.99%)
- HLA-DPB1\*01:01:01:18 (identity: 99.97%)
- HLA-DPB1\*01:01:01:19 (identity: 99.99%)
- HLA-DPB1\*01:01:01:21 (identity: 99.99%)
- HLA-DPB1\*01:01:01:23 (identity: 99.99%)

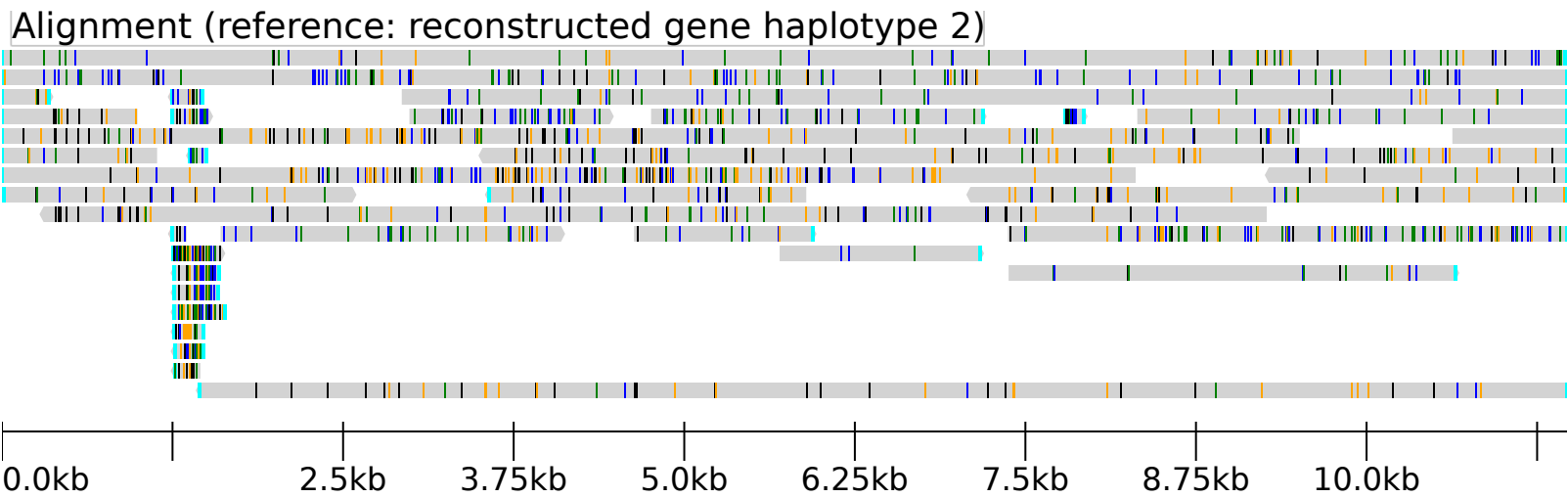
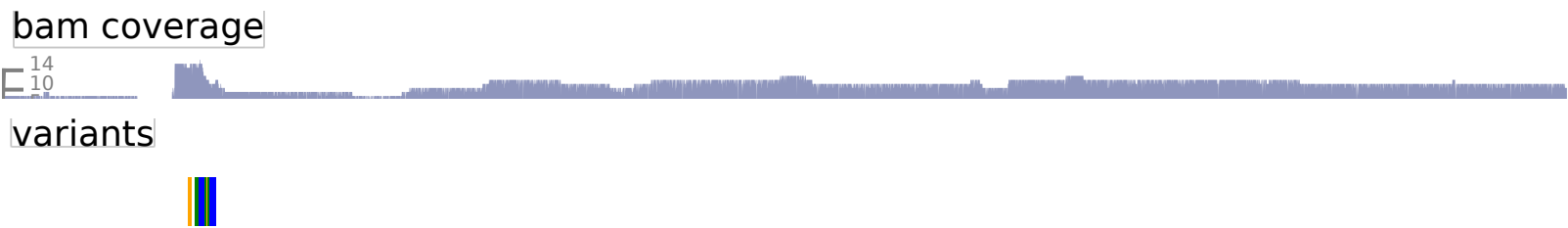
Sample: NA19129

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: 99.99%)
- HLA-DPB1\*01:01:02:01 (identity: 99.97%)
- HLA-DPB1\*01:01:02:03 (identity: 99.97%)
- HLA-DPB1\*01:01:01:26 (identity: 99.90%)
- HLA-DPB1\*01:01:01:04 (identity: 99.89%)
- HLA-DPB1\*01:01:01:14 (identity: 99.89%)
- HLA-DPB1\*01:01:01:09 (identity: 99.88%)
- HLA-DPB1\*26:01:02:03 (identity: 99.88%)
- HLA-DPB1\*01:01:01:01 (identity: 99.87%)
- HLA-DPB1\*01:01:01:10 (identity: 99.87%)

Sample: NA19129

Locus: HLA-DPB2

Resolution: 4th field

Full typing result:

HLA-DPB2\*03:01:01:01

bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



**Sample: NA19129**

**Locus: HLA-DQA1**

**Resolution: 4th field**

**Full typing result:**

HLA-DQA1\*01:01:01:05

HLA-DQA1\*01:01:01:01

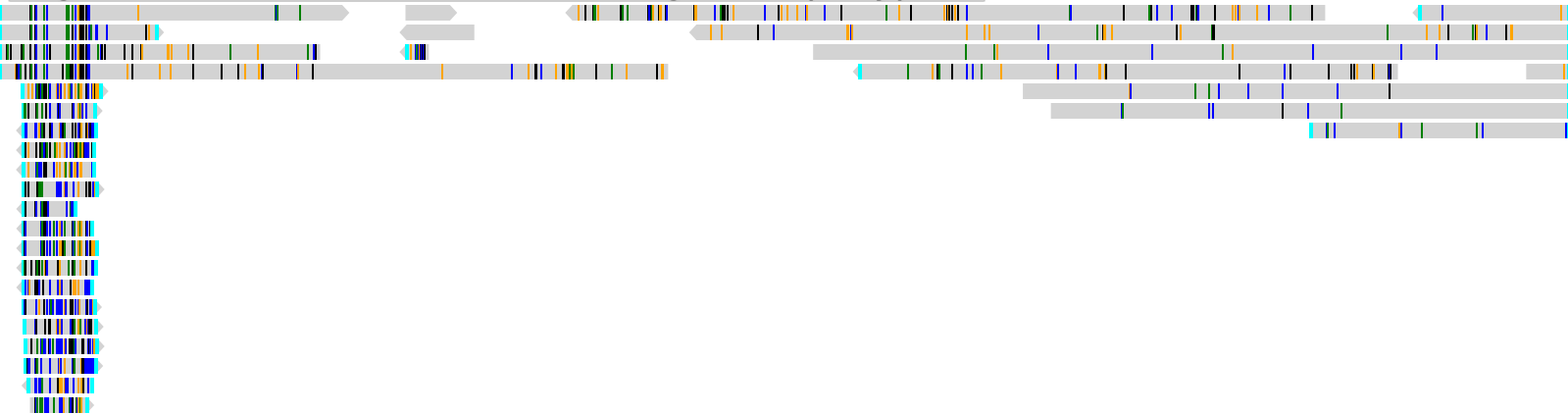
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



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

HLA-DQA1\*01:01:01:05 (identity: 99.54%)



HLA-DQA1\*01:01:01:01 (identity: 99.52%)



Sample: NA19129

Locus: HLA-DQA1

Resolution: 4th field

Full typing result:

- HLA-DQA1\*05:65:01:03
- HLA-DQA1\*05:05:01:02
- HLA-DQA1\*05:05:01:01
- HLA-DQA1\*05:05:01:09
- HLA-DQA1\*05:05:01:03
- HLA-DQA1\*05:05:05
- HLA-DQA1\*05:09:01:04

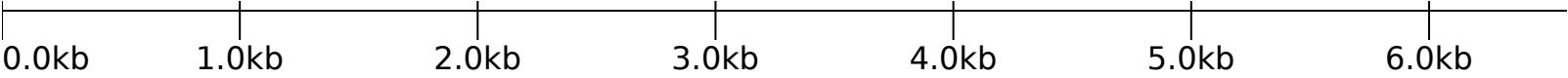
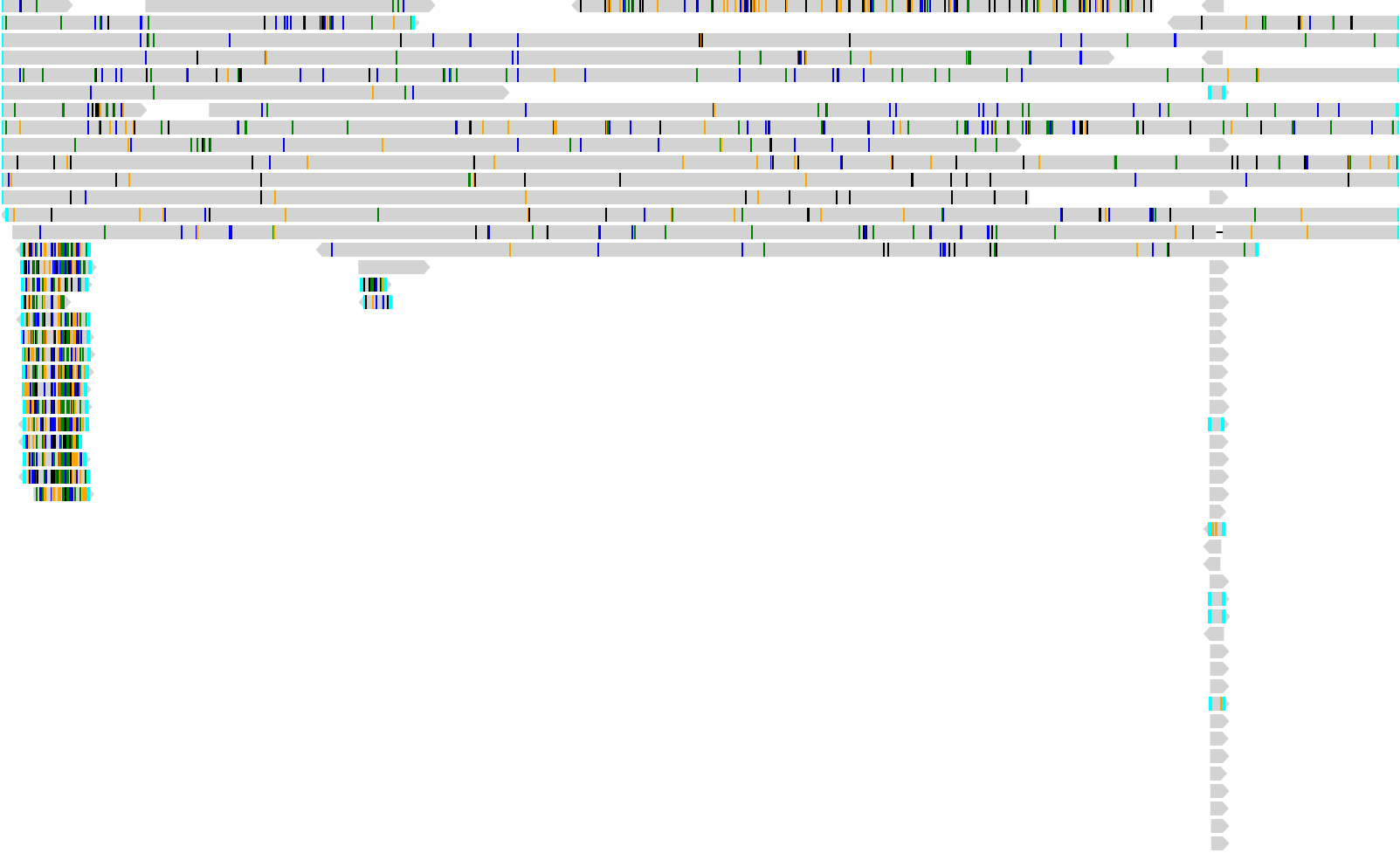
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DQA1*05:65:01:03 (identity: 99.98%)	
HLA-DQA1*05:05:01:02 (identity: 99.73%)	
HLA-DQA1*05:05:01:01 (identity: 99.79%)	
HLA-DQA1*05:05:01:09 (identity: 99.85%)	
HLA-DQA1*05:05:01:03 (identity: 99.91%)	
HLA-DQA1*05:05:05 (identity: 99.73%)	
HLA-DQA1*05:09:01:04 (identity: 99.85%)	

Sample: NA19129

Locus: HLA-DQA2

Resolution: 4th field

Full typing result:

HLA-DQA2\*01:01:02:01

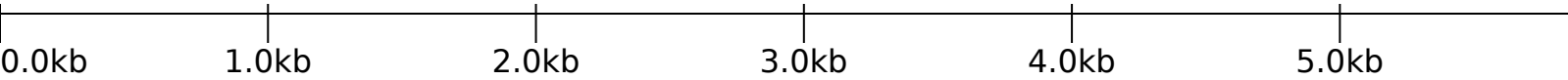
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DQA2\*01:01:02:01 (identity: 99.76%)





**Sample: NA19129**

**Locus: HLA-DQB1**

**Resolution: 4th field**

**Full typing result:**

**HLA-DQB1\*05:01:01:03**

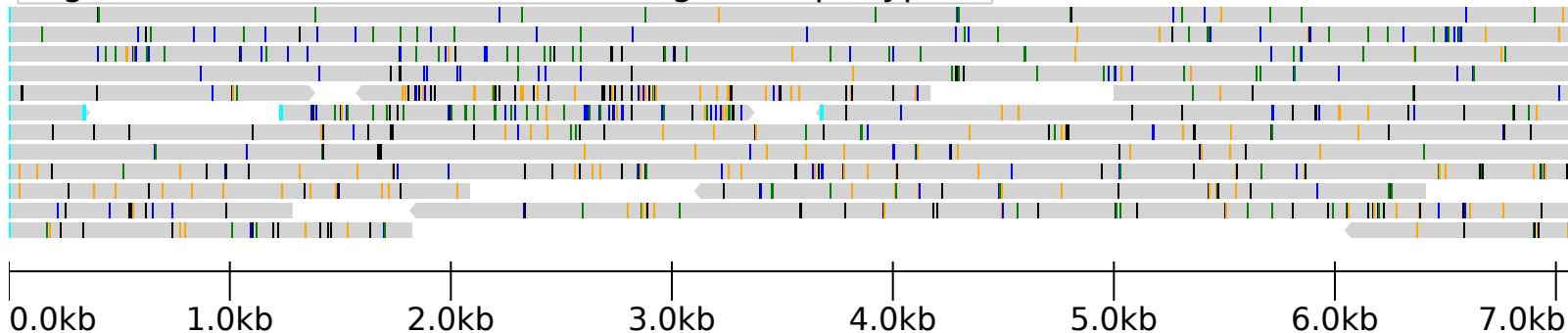
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-DQB1\*05:01:01:03 (identity: 99.99%)



**Sample: NA19129**

**Locus: HLA-DQB1**

**Resolution: 4th field**

**Full typing result:**

**HLA-DQB1\*03:19:01:01**

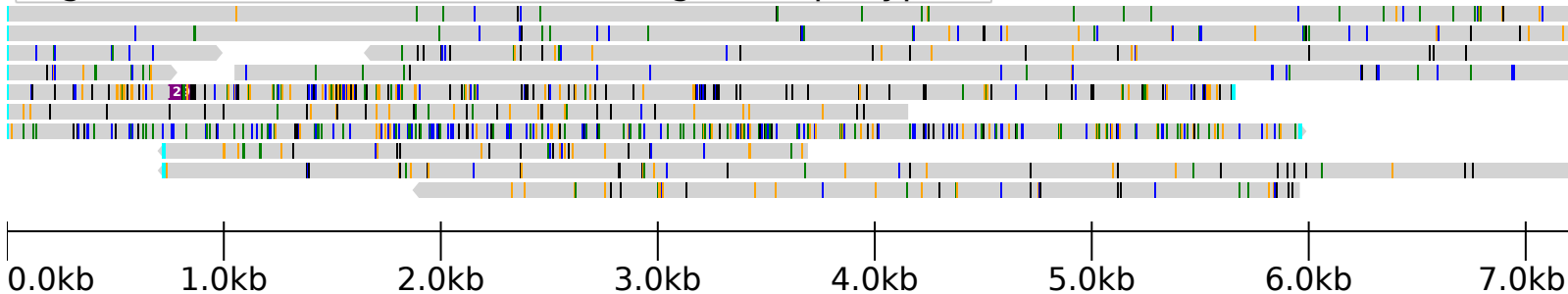
bam coverage



variants

|

Alignment (reference: reconstructed gene haplotype 2)



HLA-DQB1\*03:19:01:01 (identity: 100.00%)

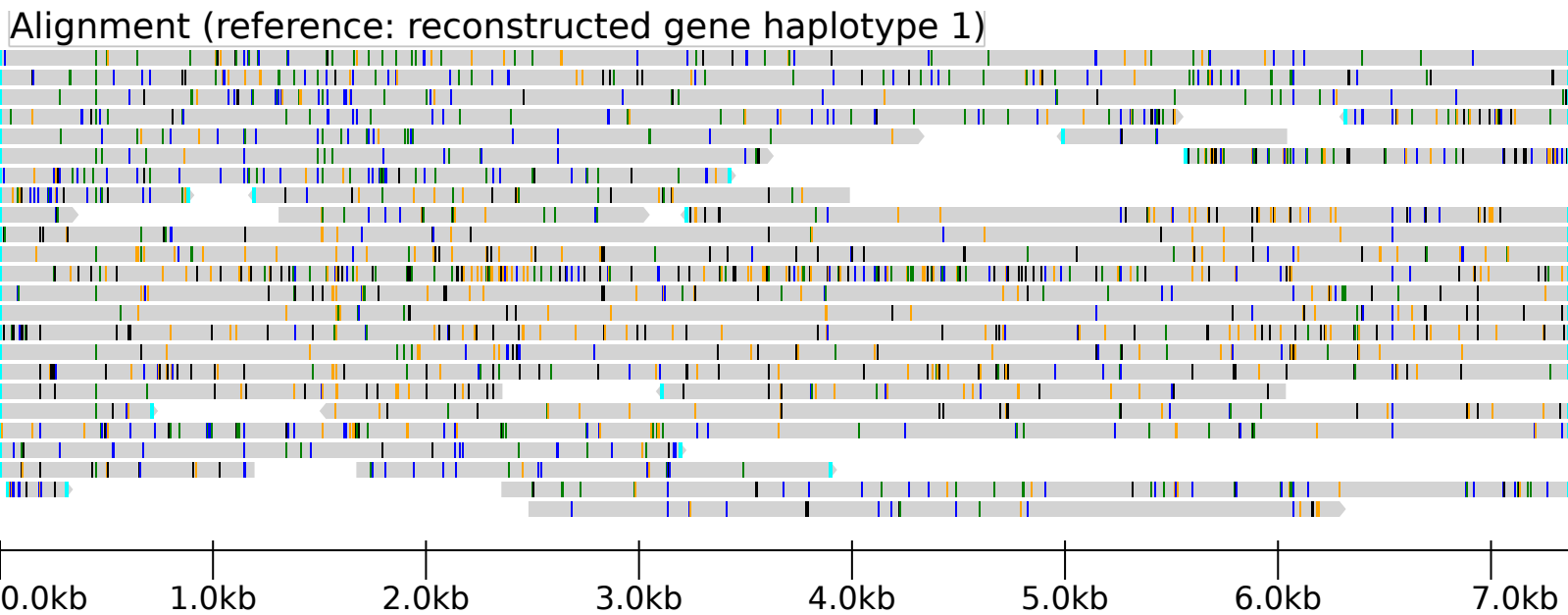
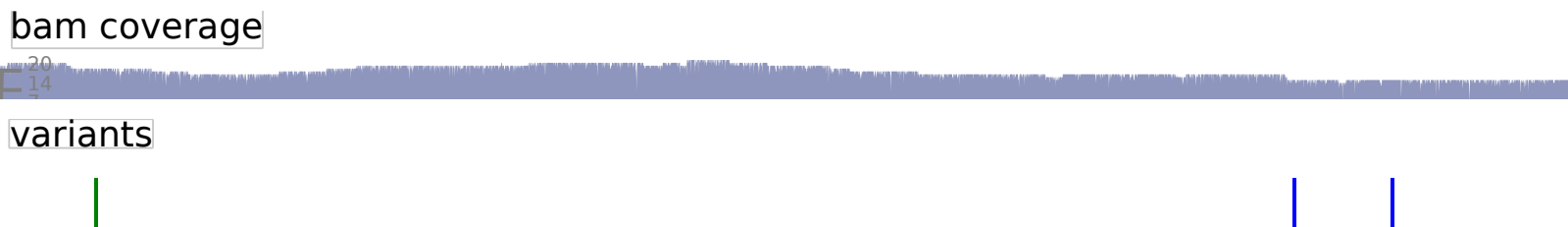
Sample: NA19129

Locus: HLA-DQB2

Resolution: 4th field

Full typing result:

HLA-DQB2\*01:01:01:01    HLA-DQB2\*01:01:01:15



HLA-DQB2\*01:01:01:01 (identity: 100.00%)

HLA-DQB2\*01:01:01:15 (identity: 99.99%)

Sample: NA19129

Locus: HLA-DRA

Resolution: 4th field

Full typing result:

HLA-DRA\*01:01:01:08

bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



0.0kb 2.0kb 3.0kb 4.0kb 5.0kb 6.0kb 7.0kb 8.0kb

HLA-DRA\*01:01:01:08 (identity: 51.13%)



Sample: NA19129

Locus: HLA-DRA

Resolution: 4th field

Full typing result:

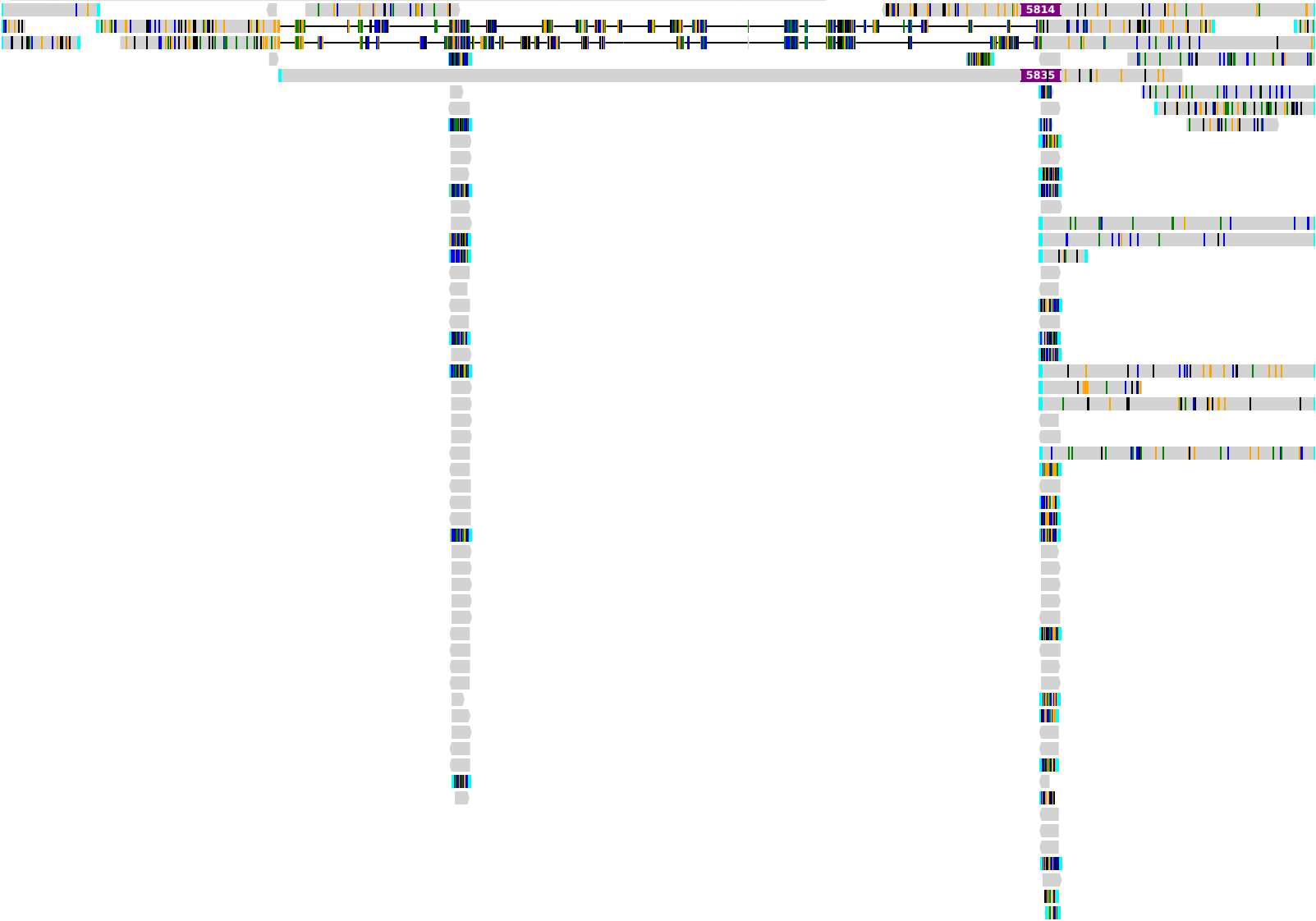
HLA-DRA\*01:02:03:01    HLA-DRA\*01:02:03:02

bam coverage

48  
32  
16

variants

Alignment (reference: reconstructed gene haplotype 2)



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

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

Sample: NA19129

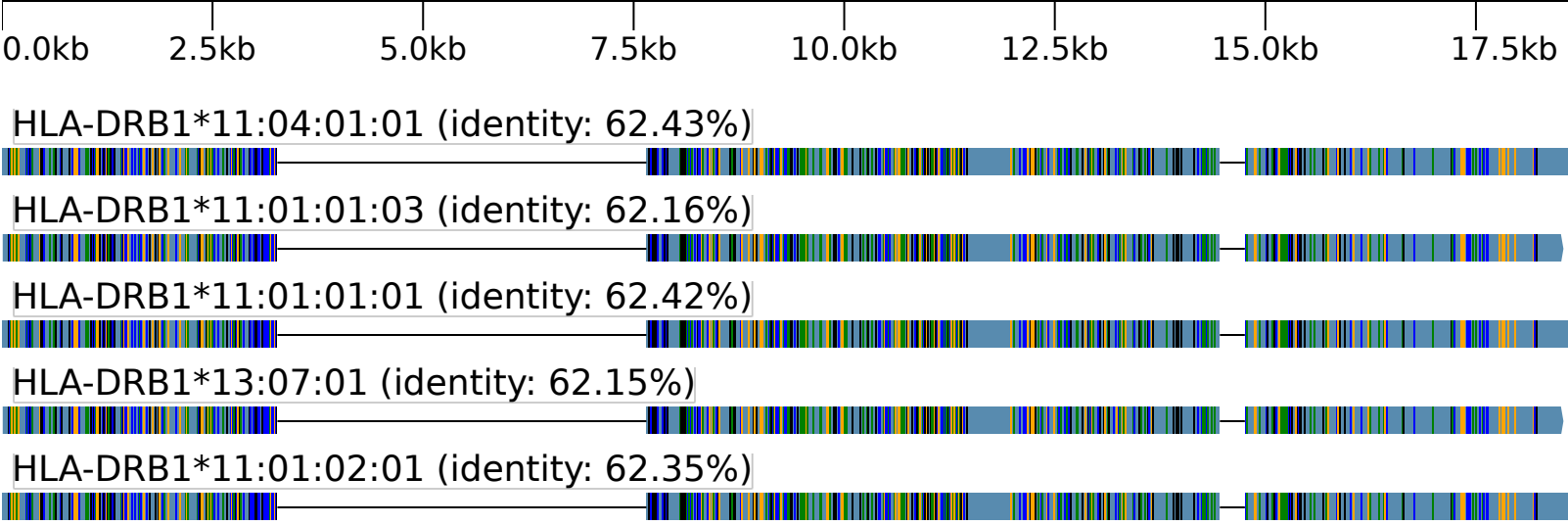
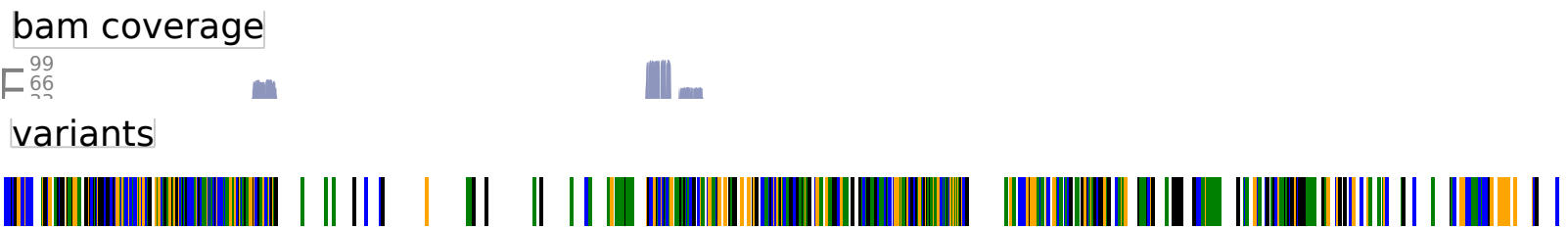
Locus: HLA-DRB1

Resolution: 4th field

Full typing result:

HLA-DRB1\*11:04:01:01HLA-DRB1\*11:01:01:03HLA-DRB1\*11:01:01:01

HLA-DRB1\*13:07:01HLA-DRB1\*11:01:02:01



Sample: NA19129

Locus: HLA-DRB3

Resolution: 4th field

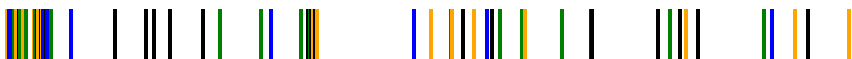
Full typing result:

HLA-DRB3\*02:02:01:01    HLA-DRB3\*02:02:01:02

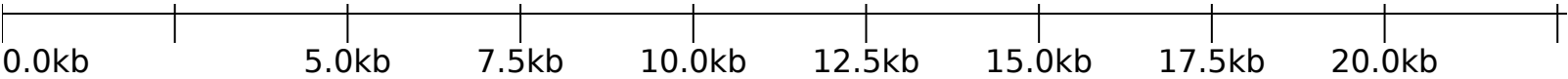
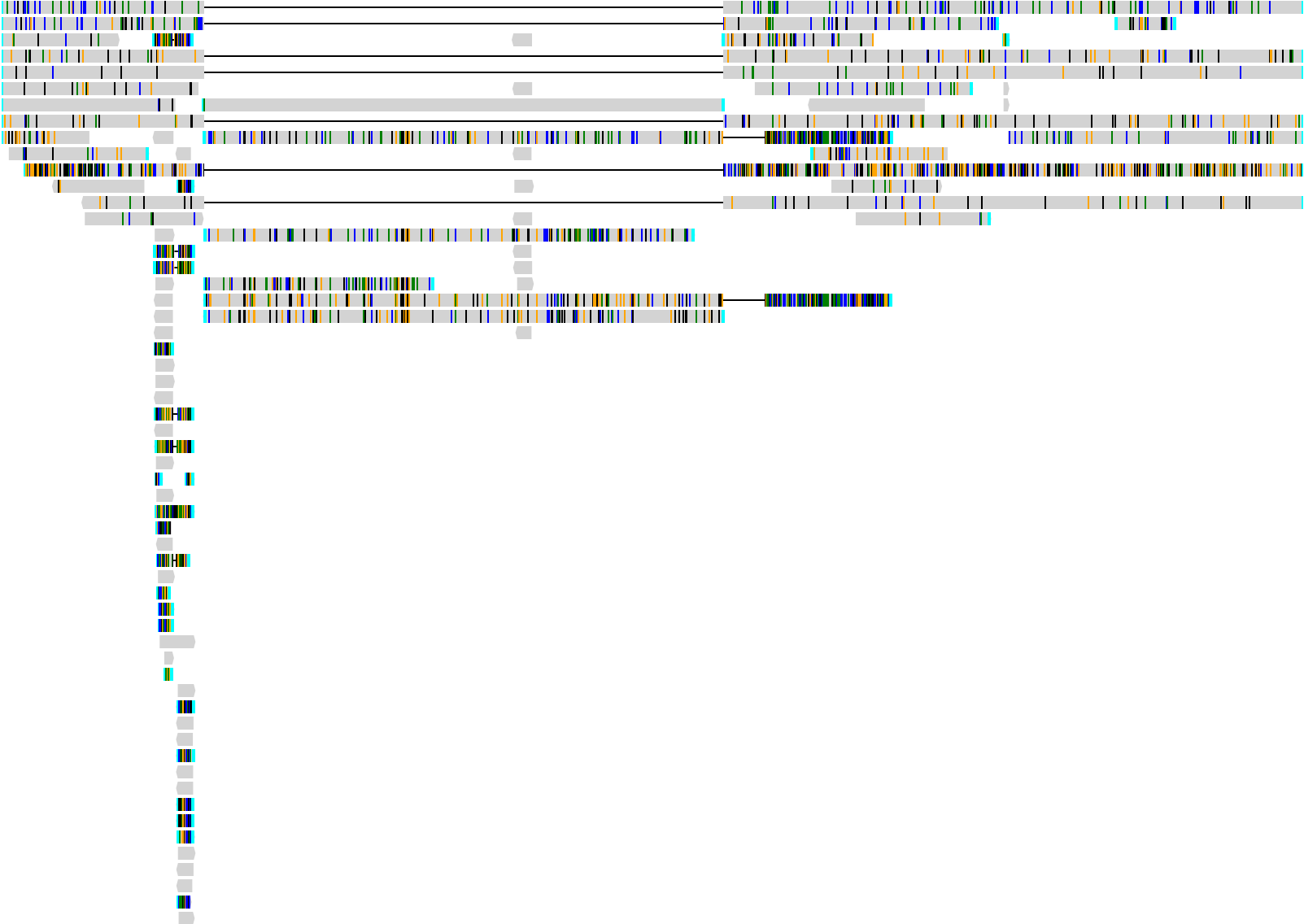
bam coverage



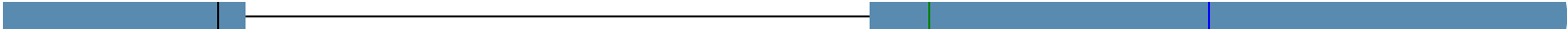
variants



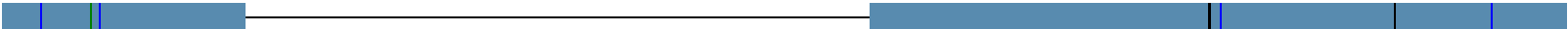
Alignment (reference: reconstructed gene haplotype 1)



HLA-DRB3\*02:02:01:01 (identity: 33.54%)



HLA-DRB3\*02:02:01:02 (identity: 33.64%)







**Sample: NA19129**

**Locus: HLA-DRB4**

**Resolution: 4th field**

**Full typing result:**

**HLA-DRB4\*01:01:12**

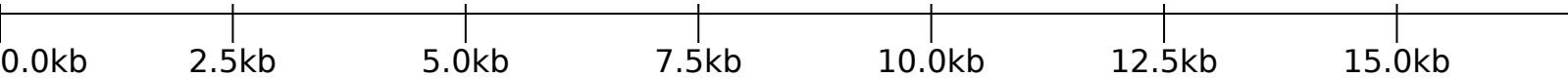
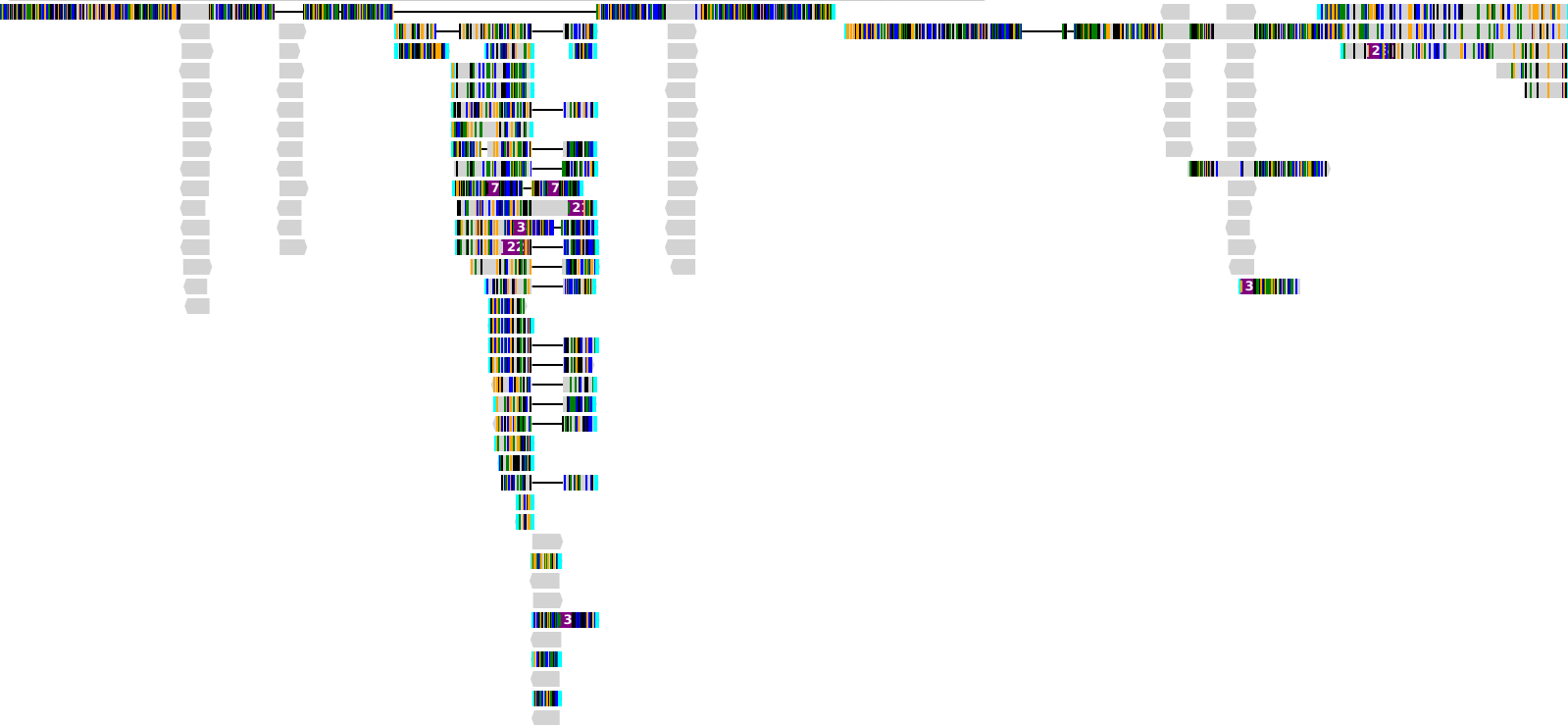
bam coverage

22  
15  
7

variants



Alignment (reference: reconstructed gene haplotype 2)



HLA-DRB4\*01:01:12 (identity: 70.73%)



**Sample: NA19129**

**Locus: HLA-DRB5**

**Resolution: 4th field**

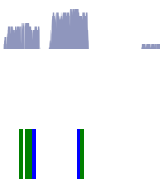
**Full typing result:**

**HLA-DRB5\*01:131N**

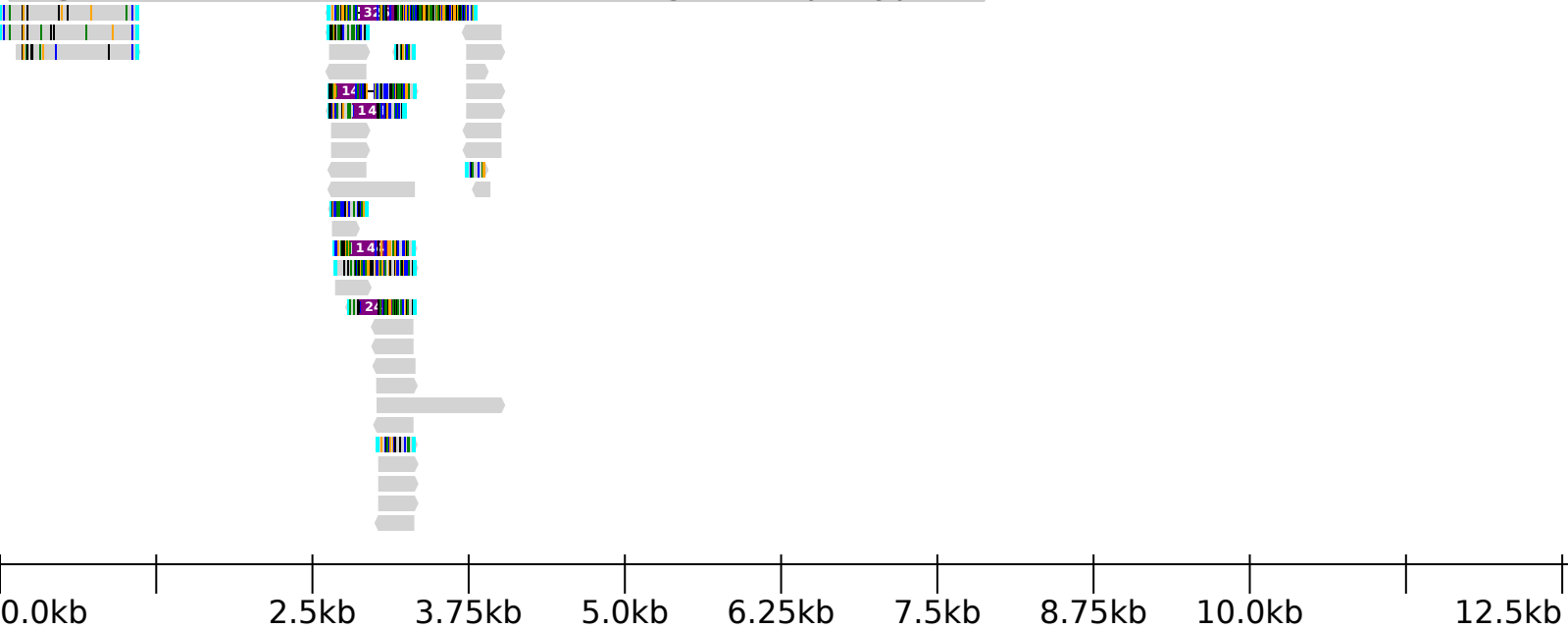
bam coverage

17  
11

variants



Alignment (reference: reconstructed gene haplotype 2)



HLA-DRB5\*01:131N (identity: 98.27%)



Sample: NA19129

Locus: HLA-DRB5

Resolution: 4th field

Full typing result:

HLA-DRB5\*01:02:01    HLA-DRB5\*01:08:01N

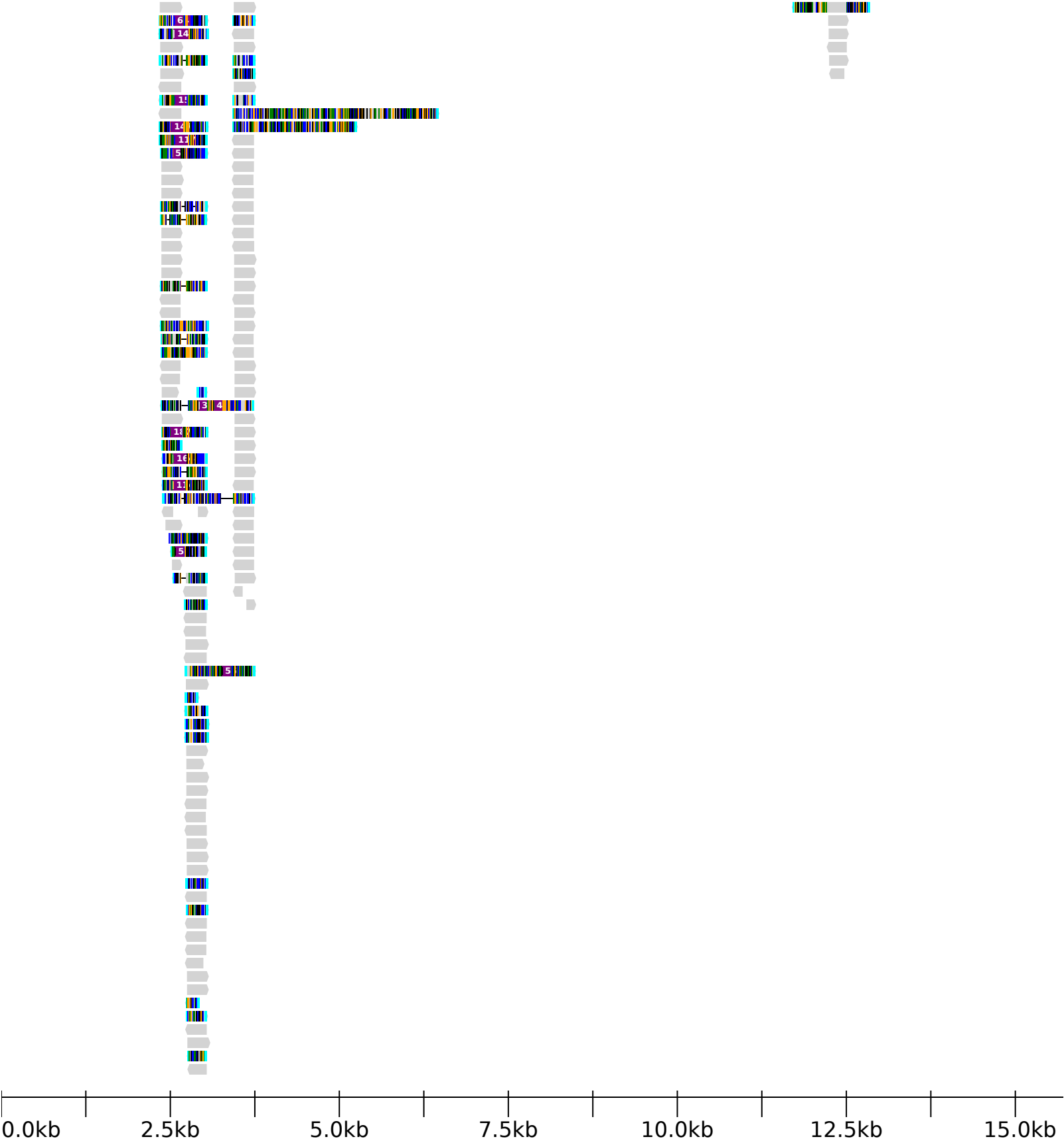
bam coverage



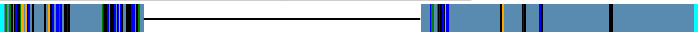
variants



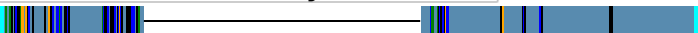
Alignment (reference: reconstructed gene haplotype 1)



HLA-DRB5\*01:02:01 (identity: 26.15%)



HLA-DRB5\*01:08:01N (identity: 26.15%)



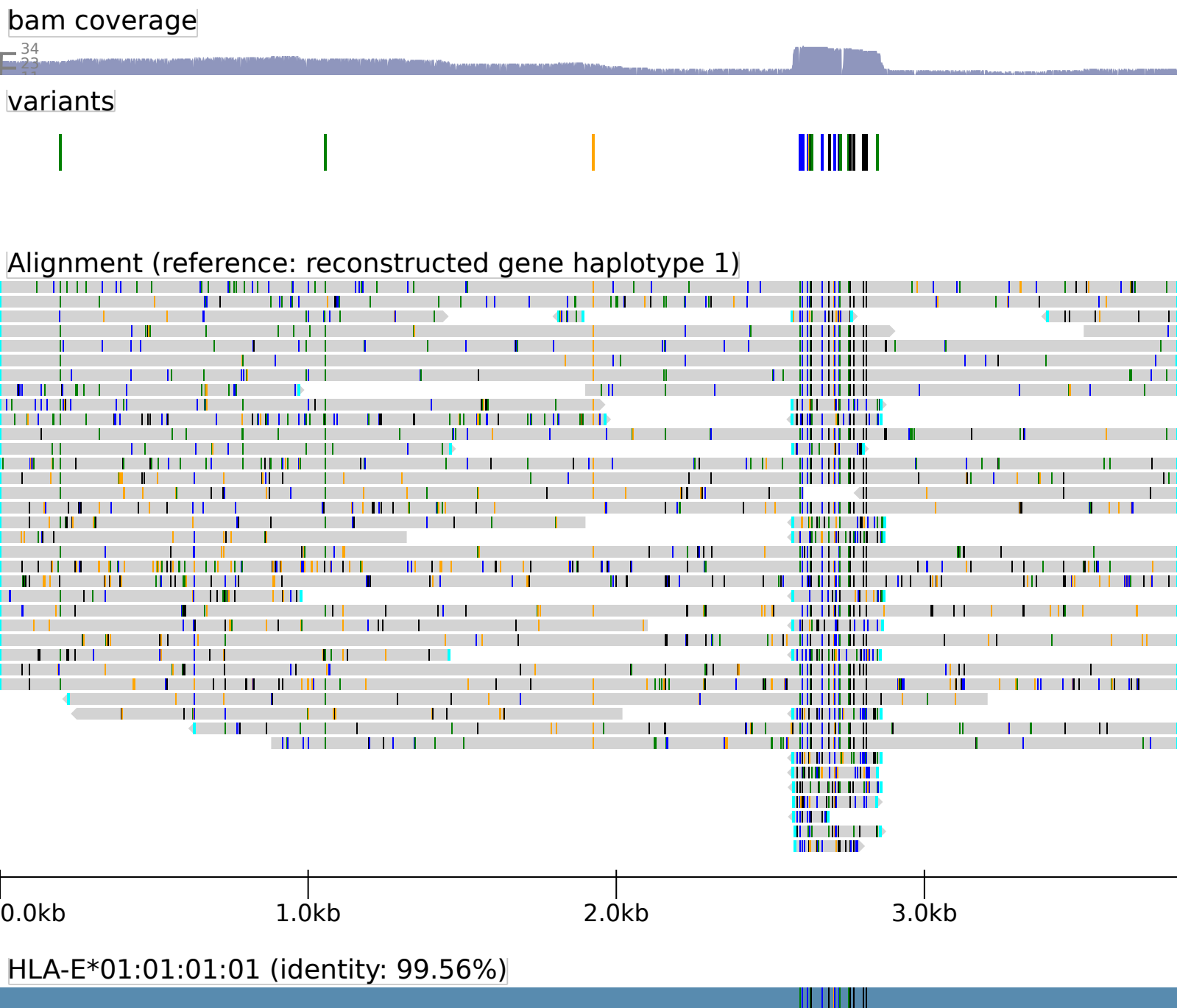
Sample: NA19129

Locus: HLA-E

Resolution: 4th field

Full typing result:

HLA-E\*01:01:01:01



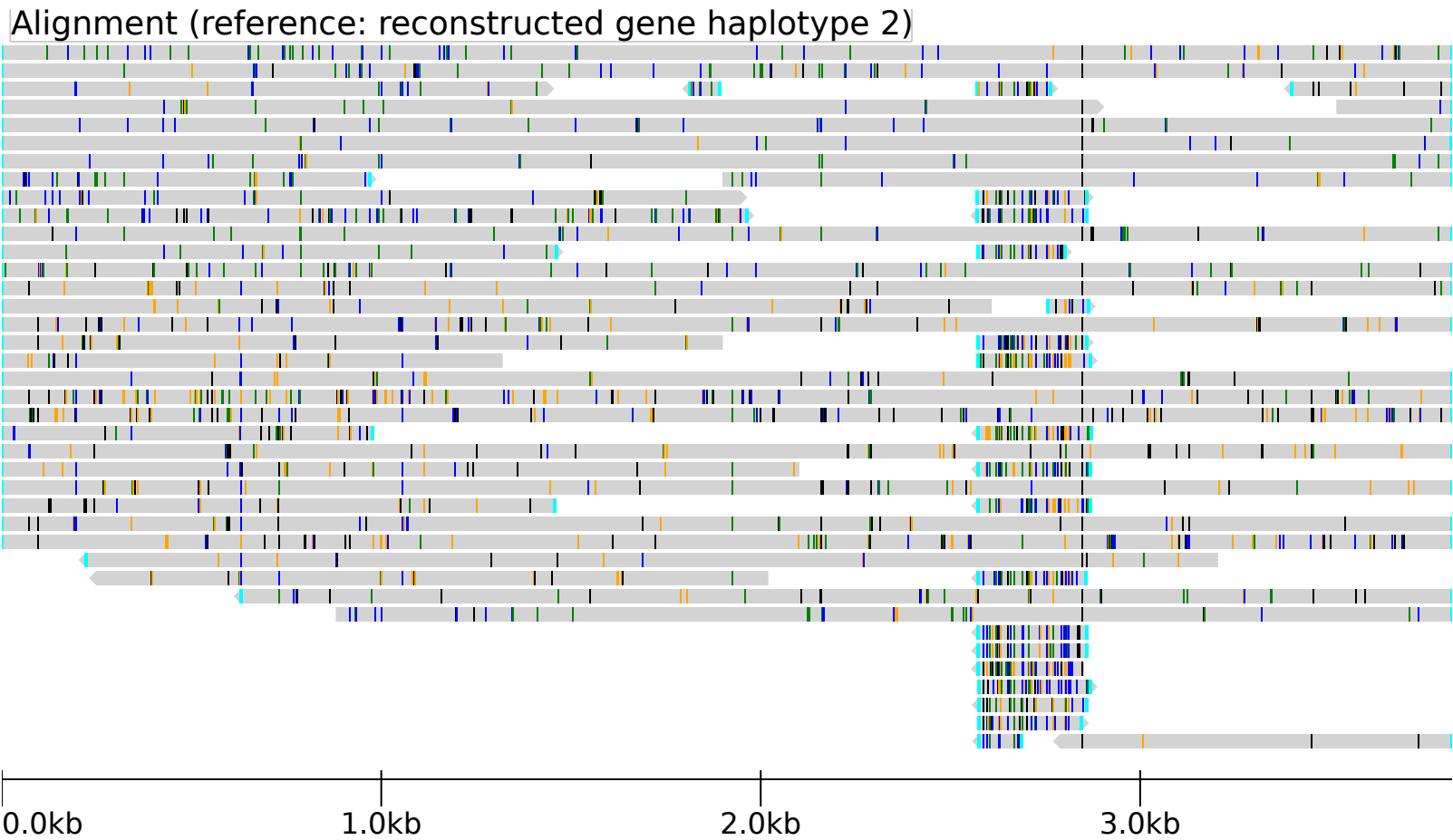
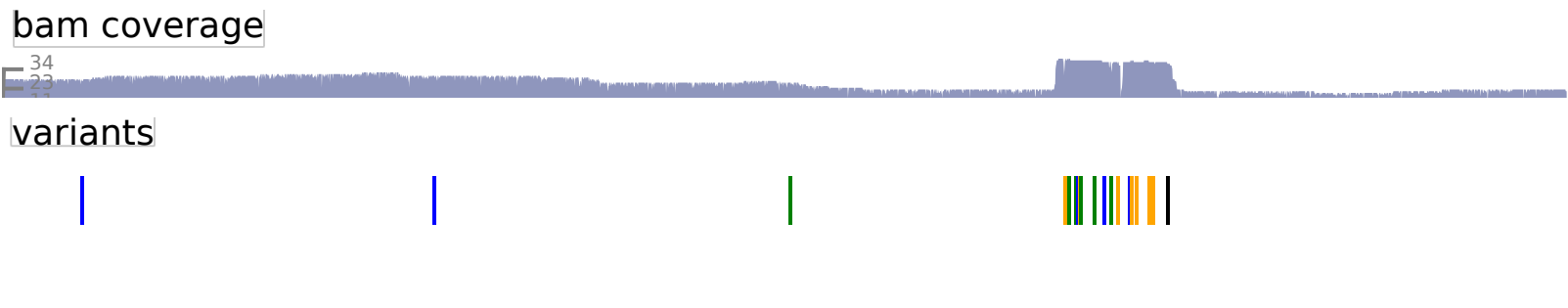
Sample: NA19129

Locus: HLA-E

Resolution: 4th field

Full typing result:

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



HLA-E*01:03:01:01 (identity: 99.92%)
HLA-E*01:01:01:01 (identity: 99.90%)
HLA-E*01:03:01:02 (identity: 99.90%)
HLA-E*01:03:01:14 (identity: 99.90%)
HLA-E*01:03:01:15 (identity: 99.90%)
HLA-E*01:03:02:01 (identity: 99.90%)
HLA-E*01:03:01:04 (identity: 99.89%)
HLA-E*01:03:38 (identity: 99.89%)
HLA-E*01:03:41 (identity: 99.89%)
HLA-E*01:11 (identity: 99.89%)

**Sample: NA19129**

**Locus: HLA-F**

**Resolution: 4th field**

**Full typing result:**

**HLA-F\*01:01:02:11**

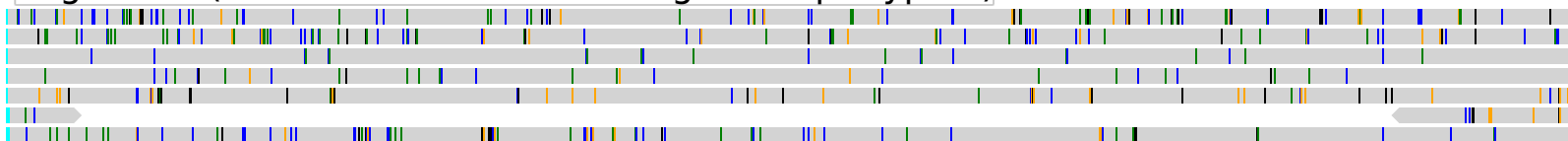
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

**HLA-F\*01:01:02:11 (identity: 99.97%)**



**Sample: NA19129**

**Locus: HLA-F**

**Resolution: 4th field**

**Full typing result:**

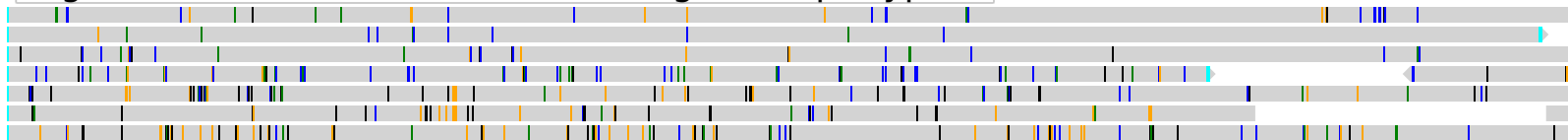
**HLA-F\*01:03:01:03**

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 1)



0.0kb

1.0kb

2.0kb

3.0kb

**HLA-F\*01:03:01:03 (identity: 100.00%)**

**Sample: NA19129**

**Locus: HLA-G**

**Resolution: 4th field**

**Full typing result:**

**HLA-G\*01:04:04:01**

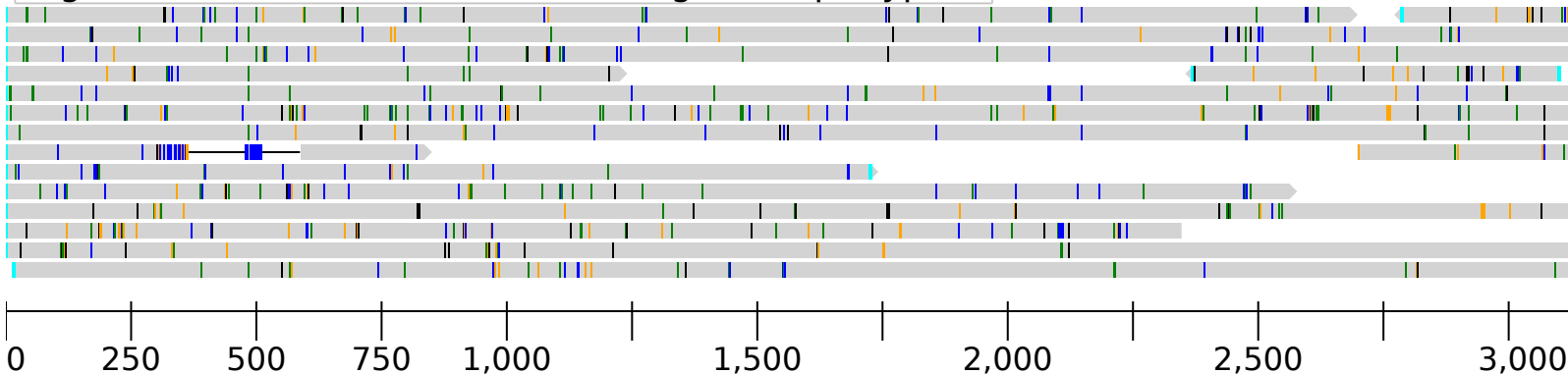
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-G\*01:04:04:01 (identity: 100.00%)



**Sample: NA19129**

**Locus: HLA-G**

**Resolution: 4th field**

**Full typing result:**

**HLA-G\*01:03:01:02**

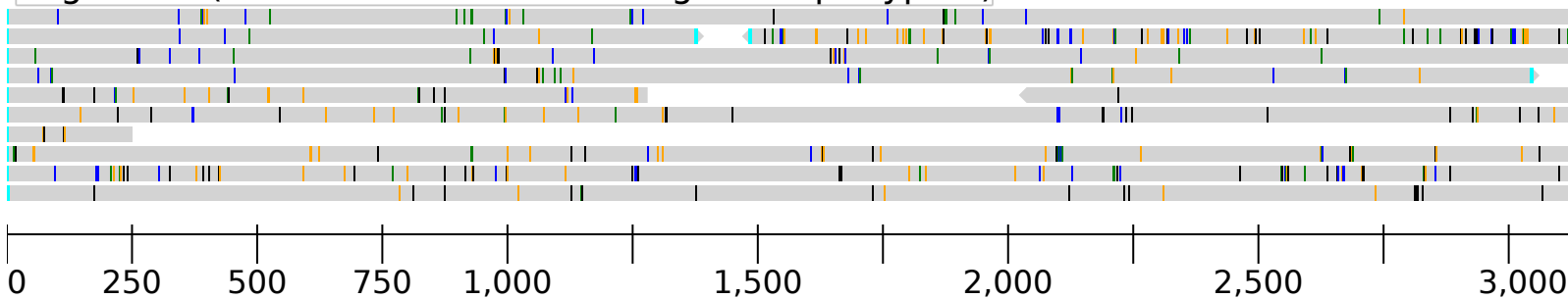
bam coverage



variants

|

Alignment (reference: reconstructed gene haplotype 2)



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

**Sample: NA19129**

**Locus: HLA-H**

**Resolution: 4th field**

**Full typing result:**

**HLA-H\*01:03:01:01**

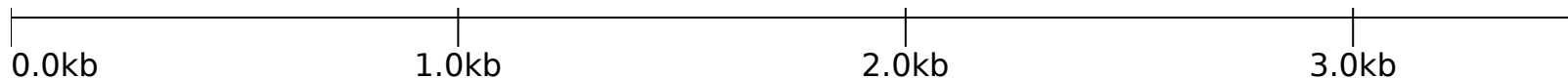
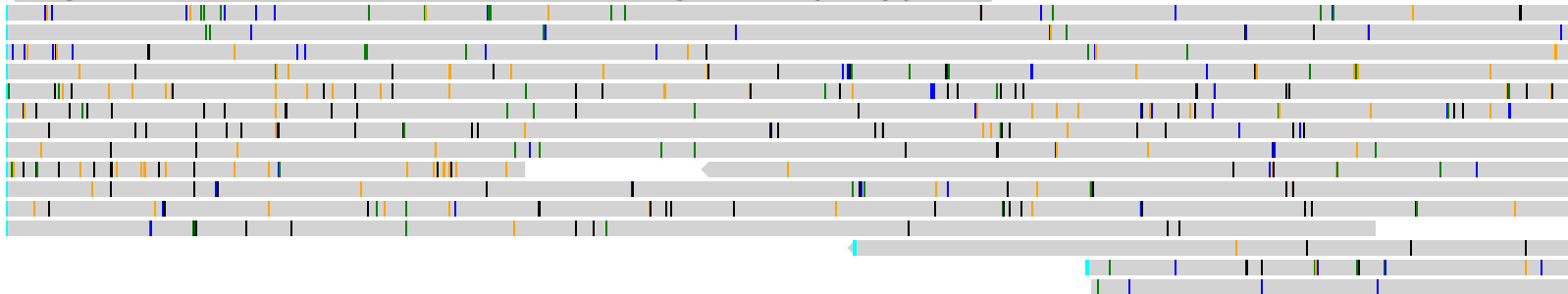
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



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



**Sample: NA19129**

**Locus: HLA-J**

**Resolution: 4th field**

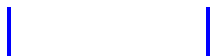
**Full typing result:**

**HLA-J\*01:01:01:08**

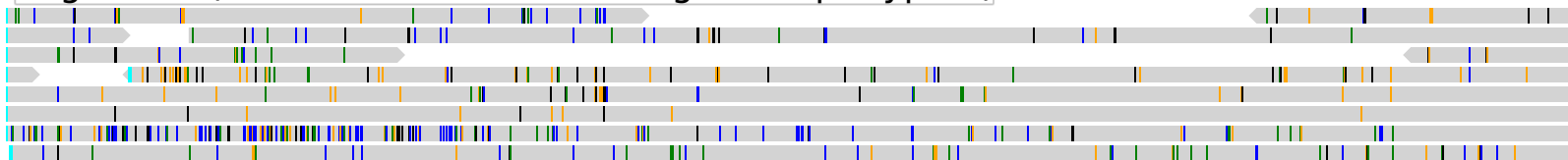
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-J\*01:01:01:08 (identity: 100.00%)

Sample: NA19129

Locus: HLA-J

Resolution: 4th field

Full typing result:

HLA-J\*01:01:01:15

HLA-J\*01:01:01:04

HLA-J\*01:01:01:14

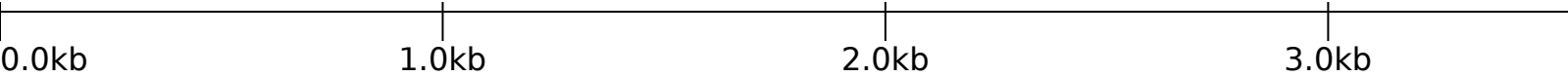
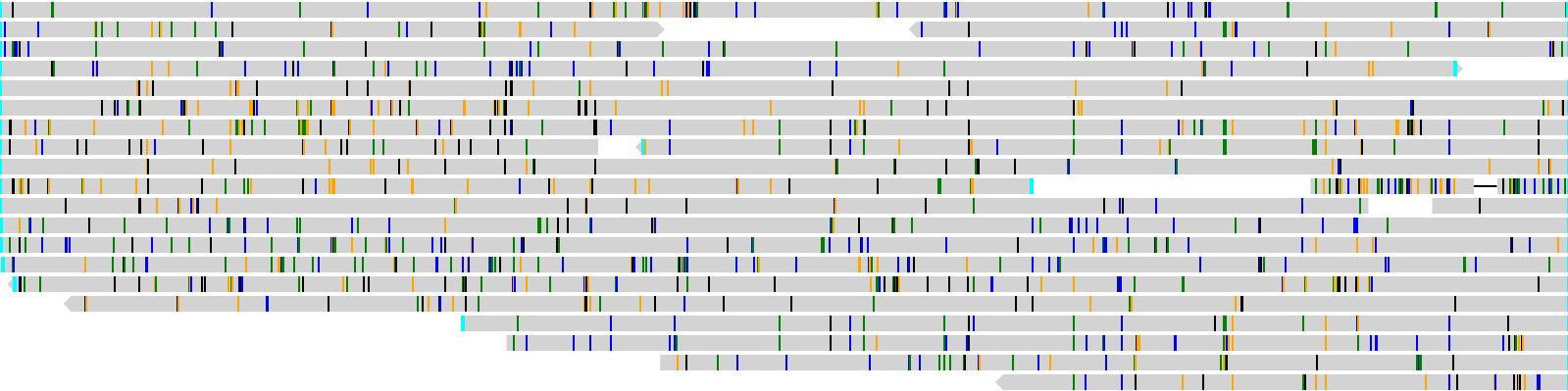
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-J\*01:01:01:15 (identity: 100.00%)



HLA-J\*01:01:01:04 (identity: 99.97%)



HLA-J\*01:01:01:14 (identity: 99.97%)



**Sample: NA19129**

**Locus: HLA-K**

**Resolution: 4th field**

**Full typing result:**

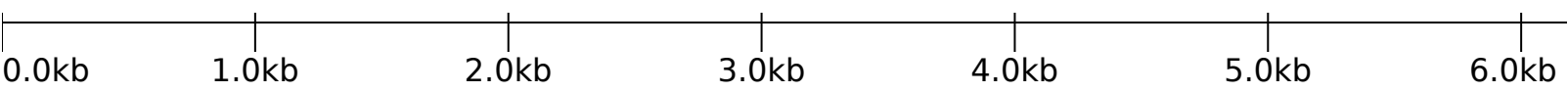
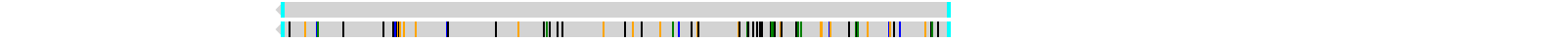
**HLA-K\*01:01:01:03**

bam coverage

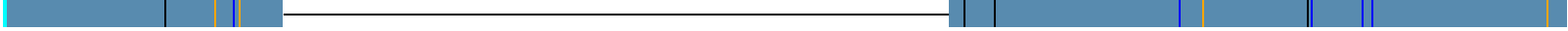


variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-K\*01:01:01:03 (identity: 25.47%)



HLA-K\*01:02 (identity: 99.81%)

**Sample: NA19129**

**Locus: HLA-L**

**Resolution: 4th field**

**Full typing result:**

**HLA-L\*01:03**

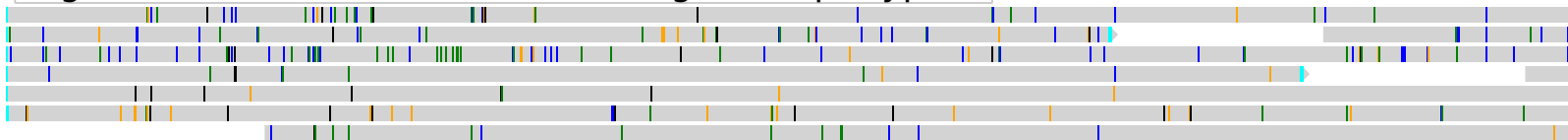
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



0.0kb

1.0kb

2.0kb

3.0kb

**HLA-L\*01:03 (identity: 99.87%)**



**Sample: NA19129**

**Locus: HLA-L**

**Resolution: 4th field**

**Full typing result:**

**HLA-L\*01:01:01:01**

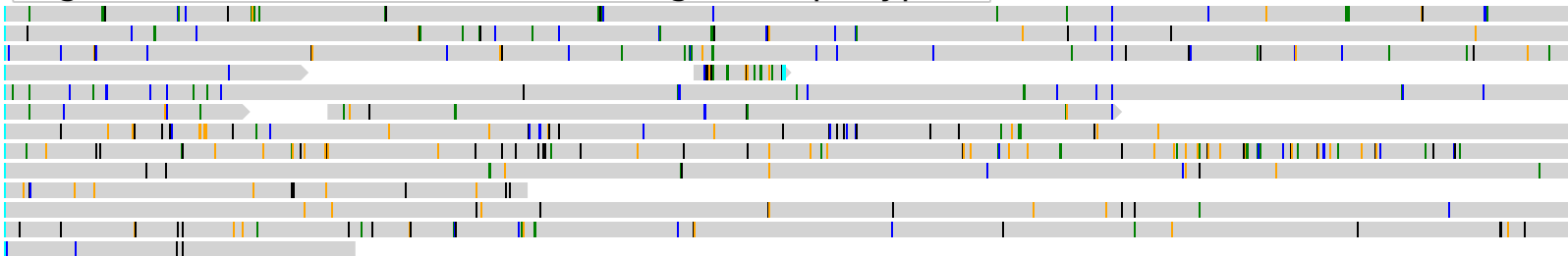
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



0.0kb

1.0kb

2.0kb

3.0kb

HLA-L\*01:01:01:01 (identity: 99.95%)





**Sample: NA19129**

**Locus: HLA-N**

**Resolution: 4th field**

**Full typing result:**

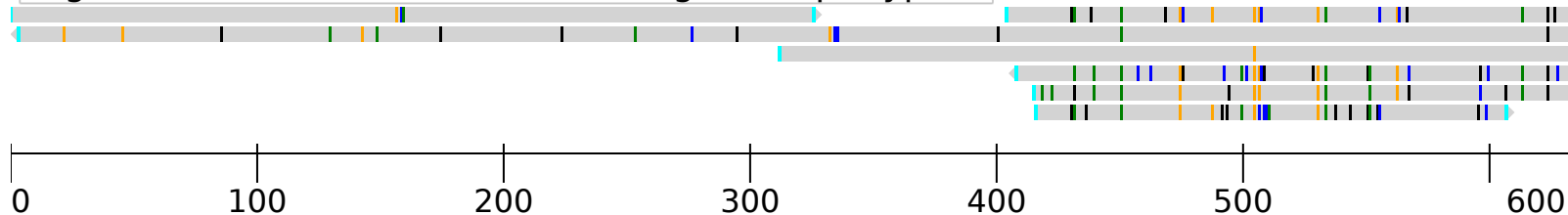
**HLA-N\*01:01:01:01**

bam coverage

6  
4

variants

Alignment (reference: reconstructed gene haplotype 1)



HLA-N\*01:01:01:01 (identity: 100.00%)

**Sample: NA19129**

**Locus: HLA-N**

**Resolution: 4th field**

**Full typing result:**

**HLA-N\*01:01:01:05**

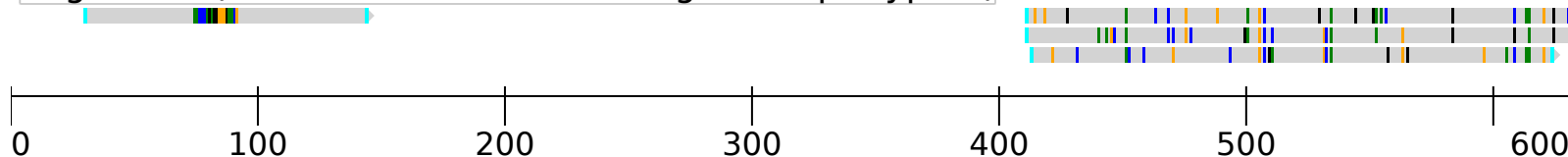
bam coverage

$\frac{3}{2}$   
 $\frac{4}{4}$

variants



Alignment (reference: reconstructed gene haplotype 2)



HLA-N\*01:01:01:05 (identity: 52.56%)



**Sample: NA19129**

**Locus: HLA-P**

**Resolution: 4th field**

**Full typing result:**

**HLA-P\*01:01:01:01**

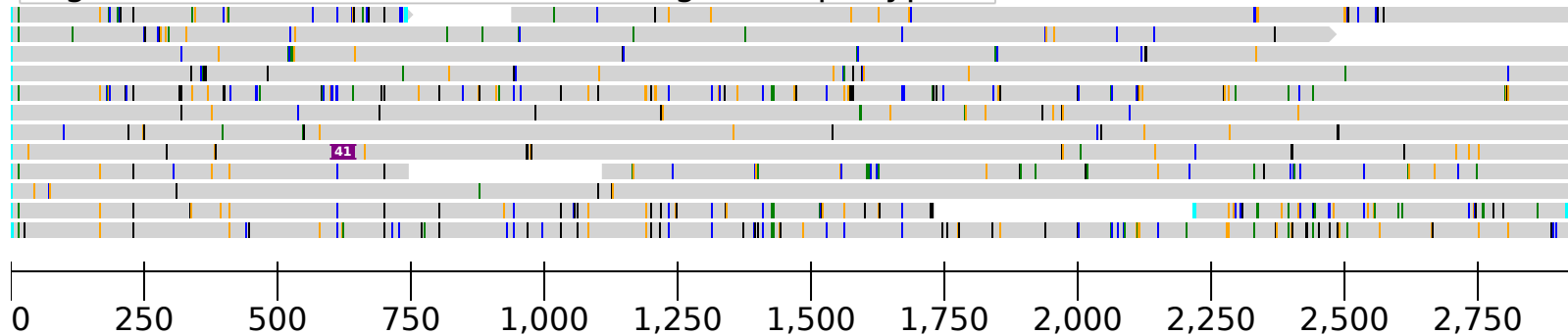
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



**HLA-P\*01:01:01:01 (identity: 98.95%)**



**Sample: NA19129**

**Locus: HLA-P**

**Resolution: 4th field**

**Full typing result:**

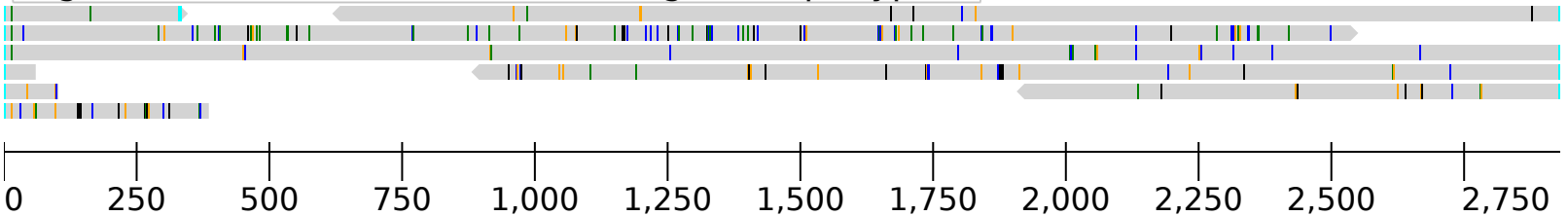
**HLA-P\*02:01:01:01**

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 2)



HLA-P\*02:01:01:01 (identity: 99.18%)



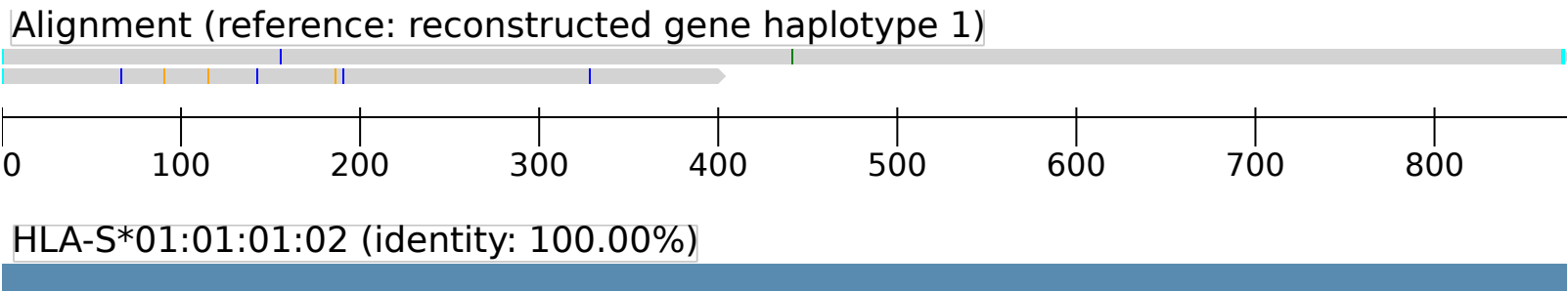
**Sample: NA19129**

**Locus: HLA-S**

**Resolution: 4th field**

**Full typing result:**

**HLA-S\*01:01:01:02**



**Sample: NA19129**

**Locus: HLA-T**

**Resolution: 4th field**

**Full typing result:**

**HLA-T\*01:01:01:02**

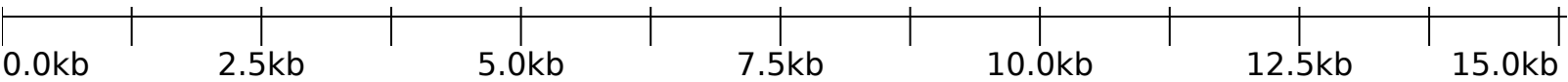
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



**HLA-T\*01:01:01:02 (identity: 99.90%)**



Sample: NA19129

Locus: HLA-U

Resolution: 4th field

Full typing result:

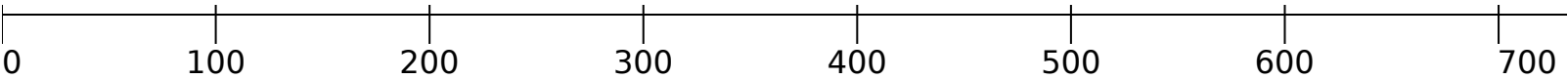
HLA-U\*01:03

bam coverage

44  
29  
4

variants

Alignment (reference: reconstructed gene haplotype 1)



HLA-U\*01:03 (identity: 99.85%)

**Sample: NA19129**

**Locus: HLA-V**

**Resolution: 4th field**

**Full typing result:**

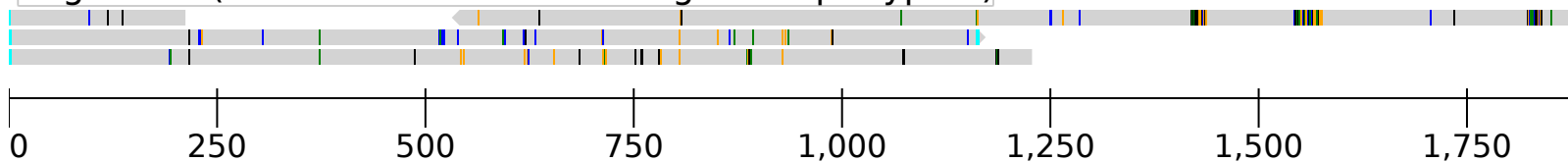
**HLA-V\*01:01:01:02**

bam coverage



variants

Alignment (reference: reconstructed gene haplotype 1)



**HLA-V\*01:01:01:02 (identity: 95.96%)**





**Sample: NA19129**

**Locus: HLA-W**

**Resolution: 4th field**

**Full typing result:**

**HLA-W\*01:01:01:01**

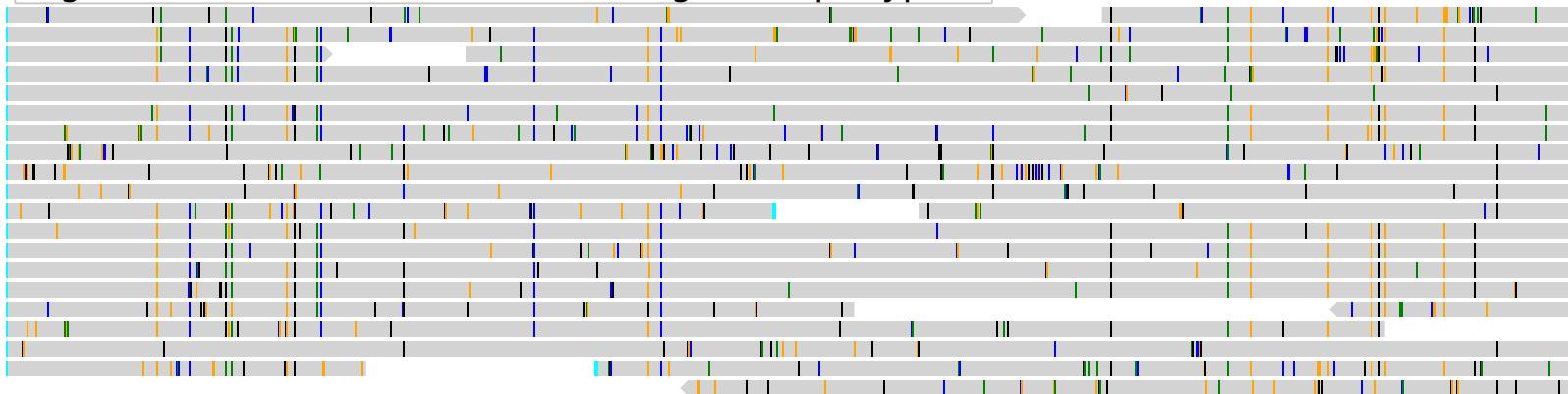
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 2)



0 250 500 750 1,000 1,250 1,500 1,750 2,000 2,250 2,500 2,750

HLA-W\*01:01:01:01 (identity: 99.13%)



**Sample: NA19129**

**Locus: HLA-W**

**Resolution: 4th field**

**Full typing result:**

**HLA-W\*03:01:01:01**

**HLA-W\*03:01:01:02**

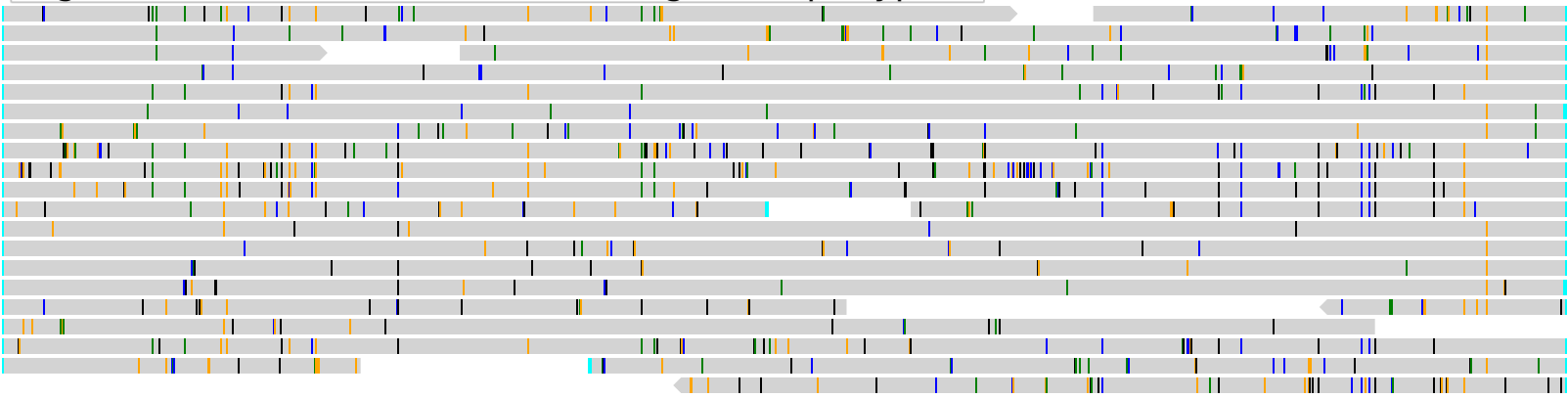
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



HLA-W\*03:01:01:01 (identity: 98.94%)



HLA-W\*03:01:01:02 (identity: 98.91%)



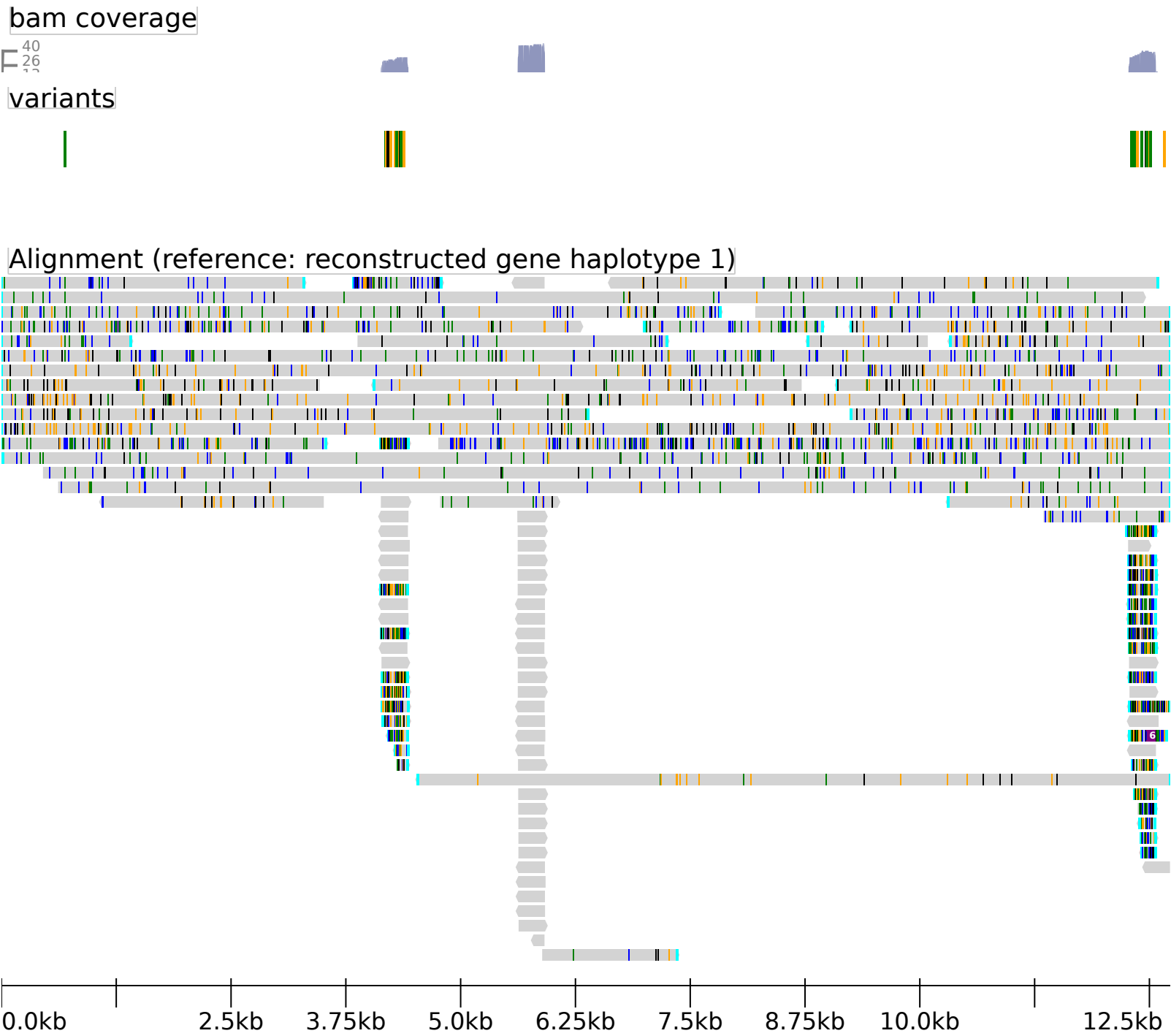
Sample: NA19129

Locus: MICA

Resolution: 4th field

Full typing result:

MICA\*008:04:01



MICA\*008:04:01 (identity: 100.00%)

Sample: NA19129

Locus: MICA

Resolution: 4th field

Full typing result:

MICA\*001:01

bam coverage

86  
57

variants

Alignment (reference: reconstructed gene haplotype 2)



0.0kb 2.5kb 3.75kb 5.0kb 6.25kb 7.5kb 8.75kb 10.0kb 12.5kb

MICA\*001:01 (identity: 98.96%)



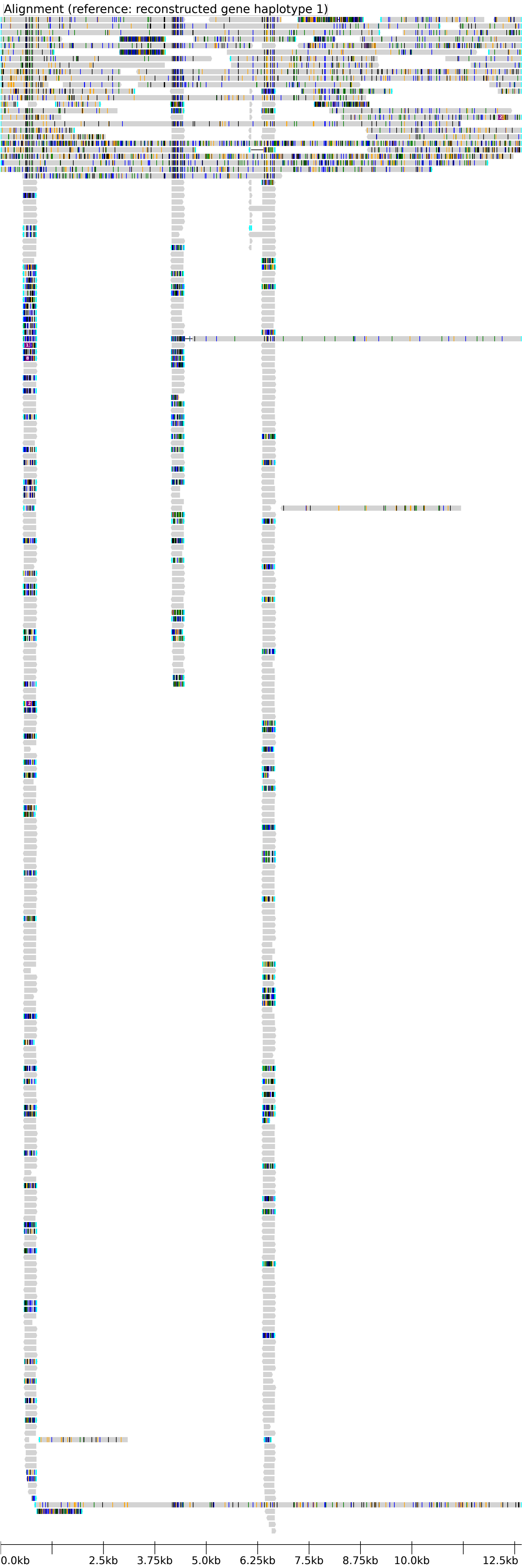
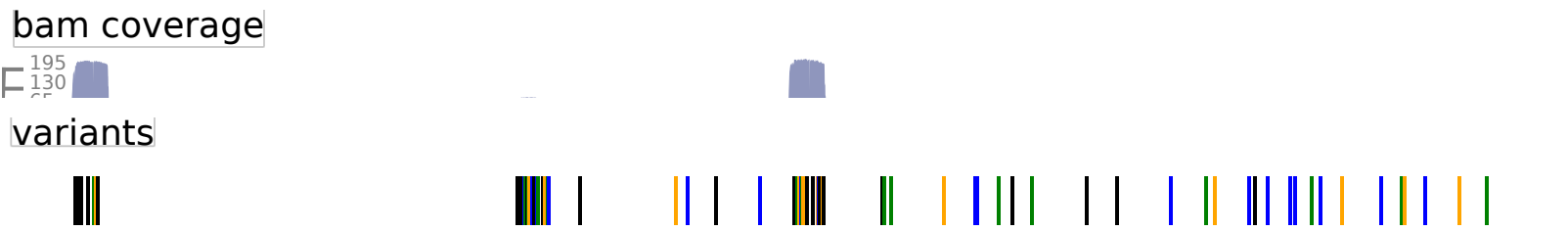
Sample: NA19129

Locus: MICB

Resolution: 4th field

Full typing result:

MICB\*052



MICB\*052 (identity: 99.46%)

Sample: NA19129

Locus: TAP1

Resolution: 4th field

Full typing result:

TAP1\*01:01:01:04

TAP1\*01:01:01:05

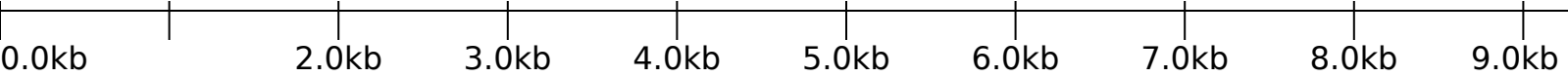
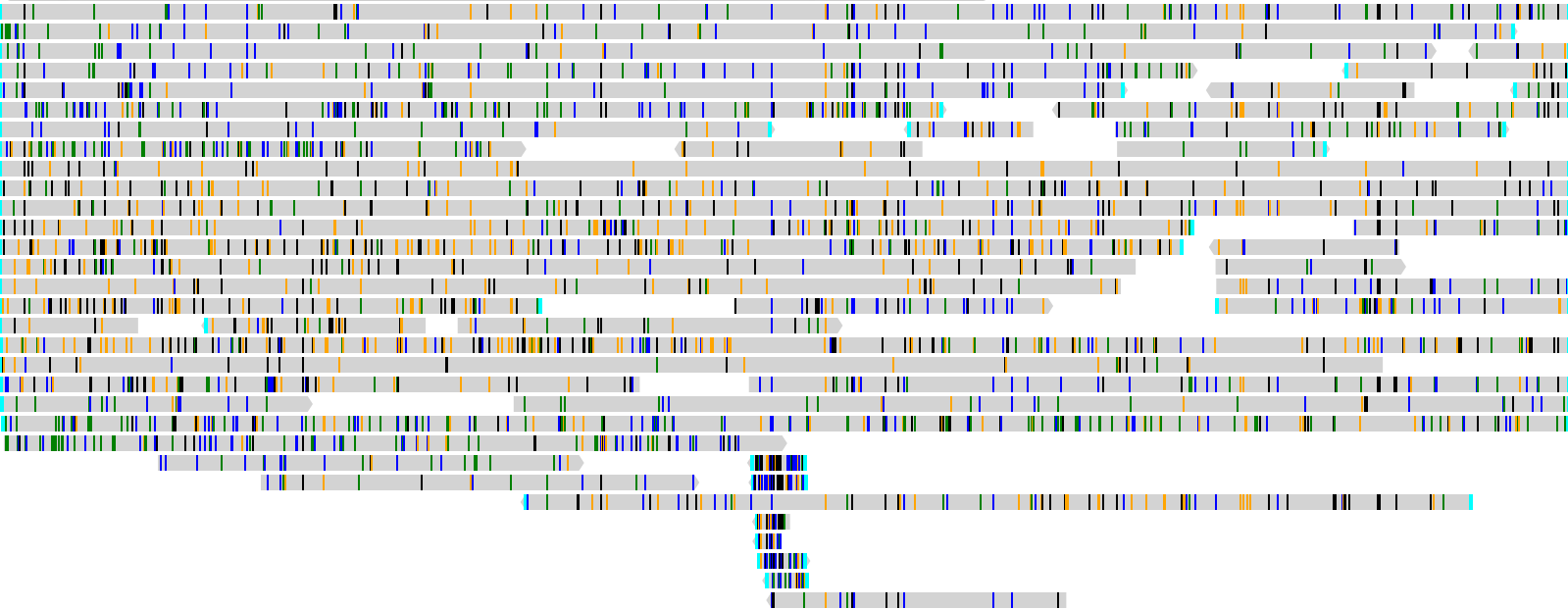
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



TAP1\*01:01:01:04 (identity: 99.98%)

TAP1\*01:01:01:05 (identity: 99.98%)



**Sample: NA19129**

**Locus: TAP2**

**Resolution: 4th field**

**Full typing result:**

**TAP2\*01:01:03:01**

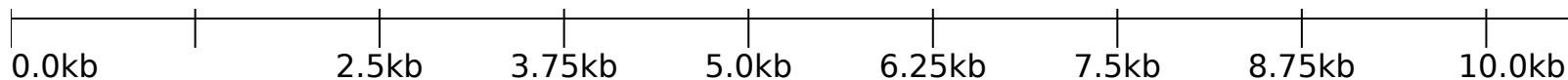
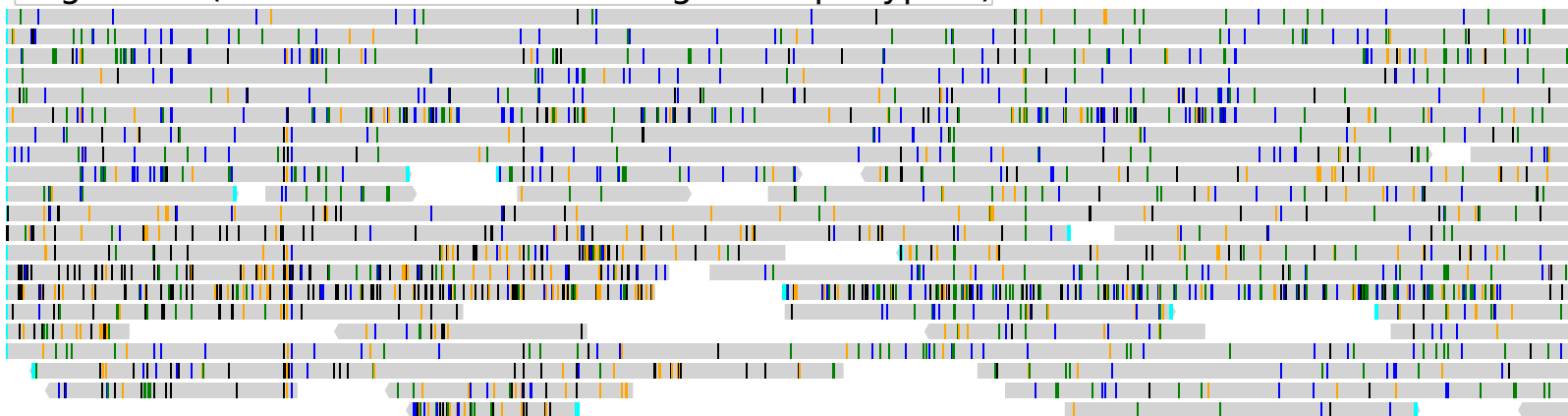
bam coverage



variants



Alignment (reference: reconstructed gene haplotype 1)



TAP2\*01:01:03:01 (identity: 99.94%)



**Sample: NA19129**

**Locus: TAP2**

**Resolution: 4th field**

**Full typing result:**

TAP2\*01:01:03:03

TAP2\*01:01:03:01

TAP2\*01:01:03:02

