

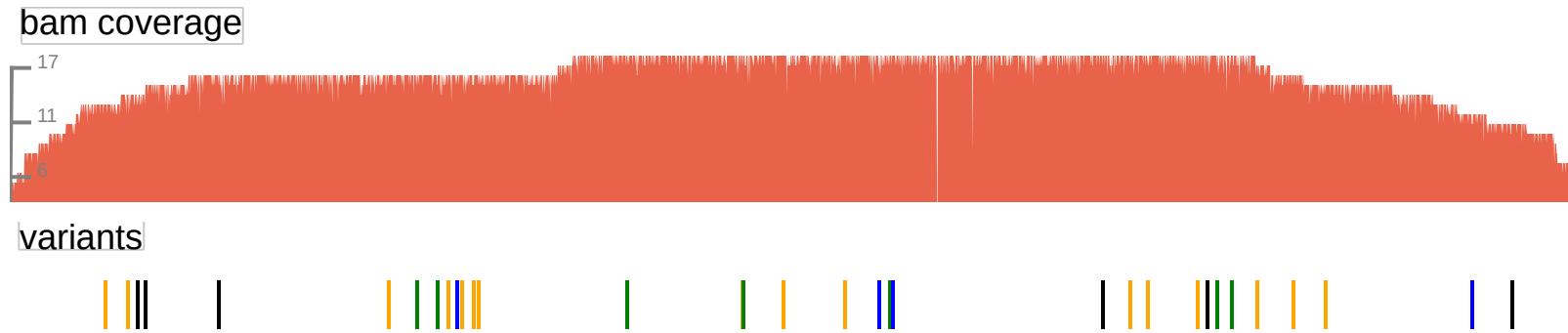
# Sample: test\_HLA2

Locus: HLA-K

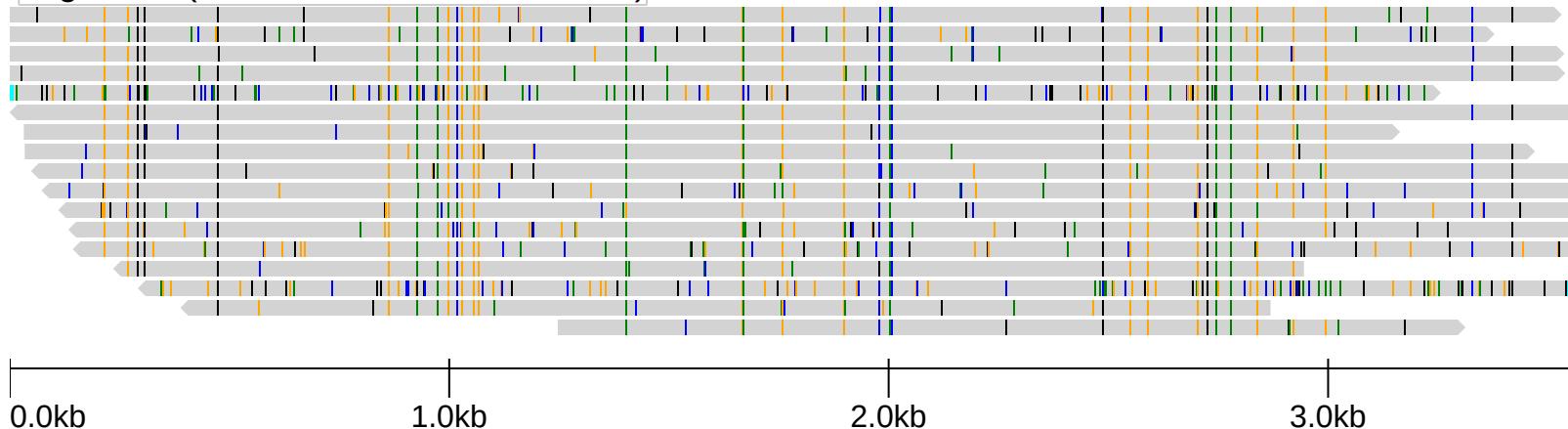
Resolution: 4th field

Full typing result:

HLA-K\*01:01:01:04



Alignment (reference: constructed het 2)



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

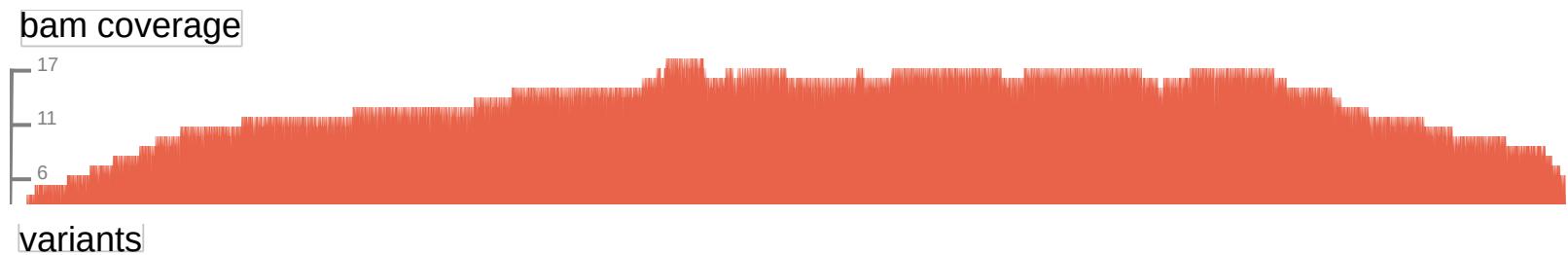
# Sample: test\_HLA2

Locus: HLA-DRB4

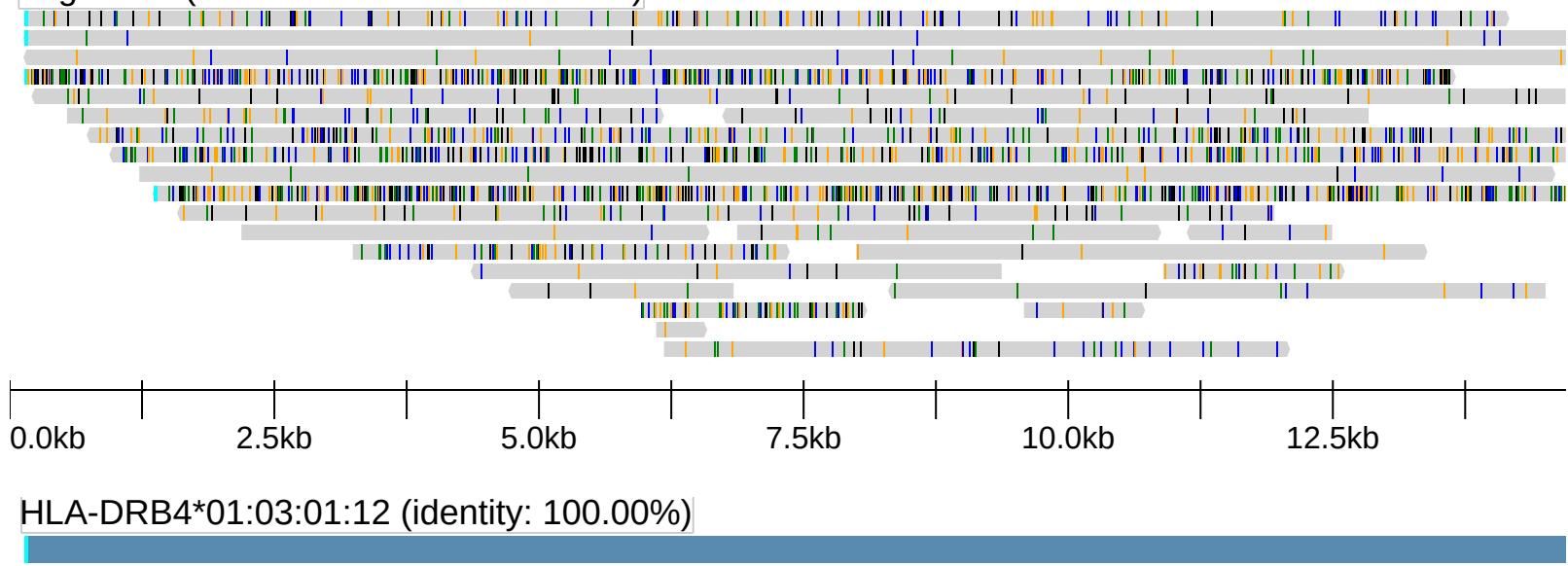
Resolution: 4th field

Full typing result:

HLA-DRB4\*01:03:01:12



Alignment (reference: constructed het 1)



# Sample: test\_HLA2

Locus: HLA-N

Resolution: 4th field

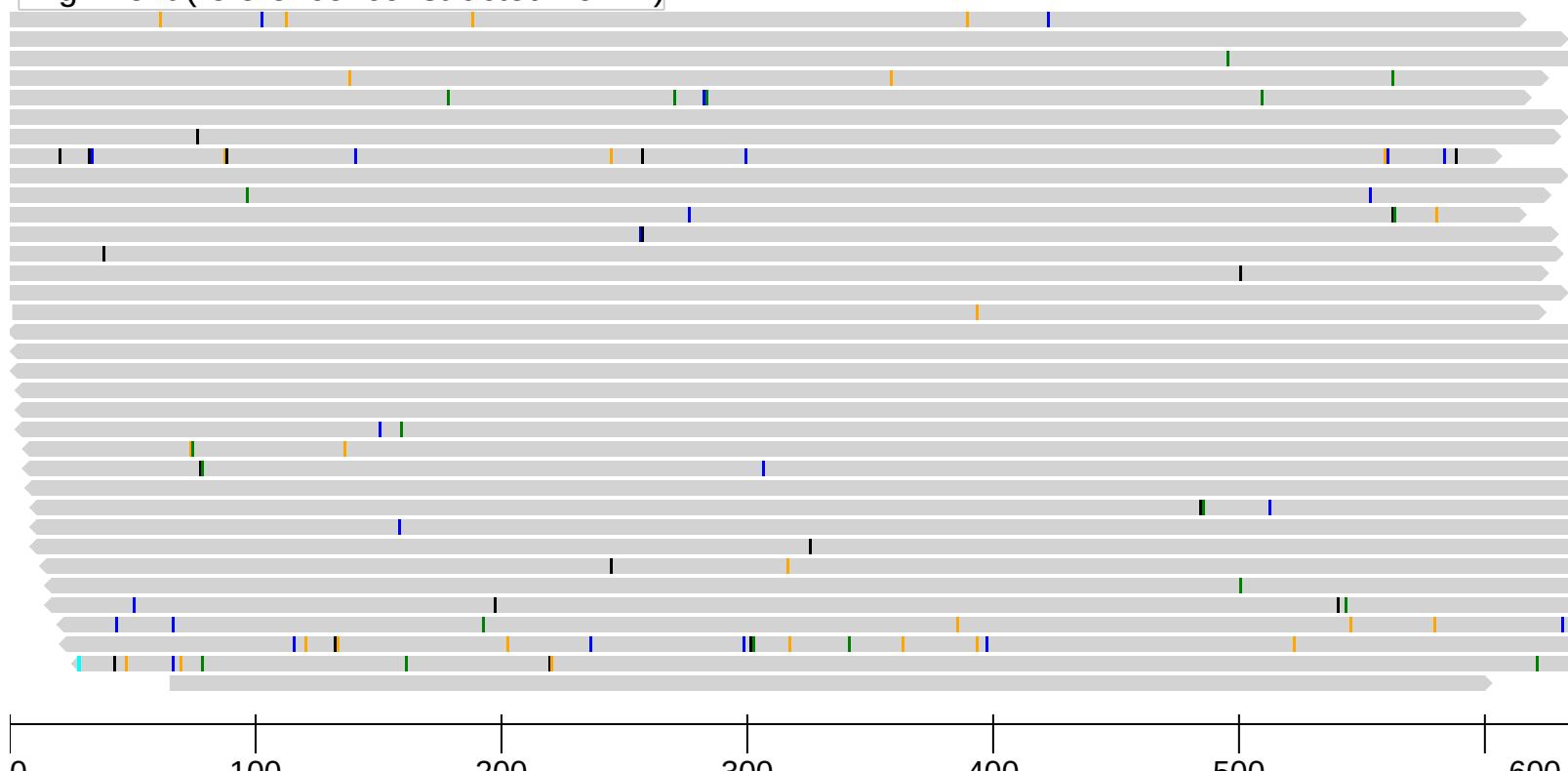
Full typing result:

HLA-N\*01:01:01:03



variants

Alignment (reference: constructed hom 1)



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

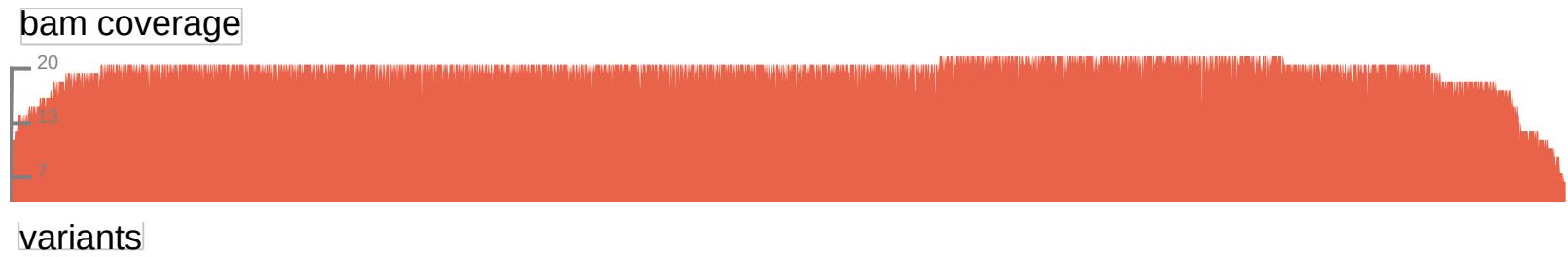
# Sample: test\_HLA2

Locus: HLA-E

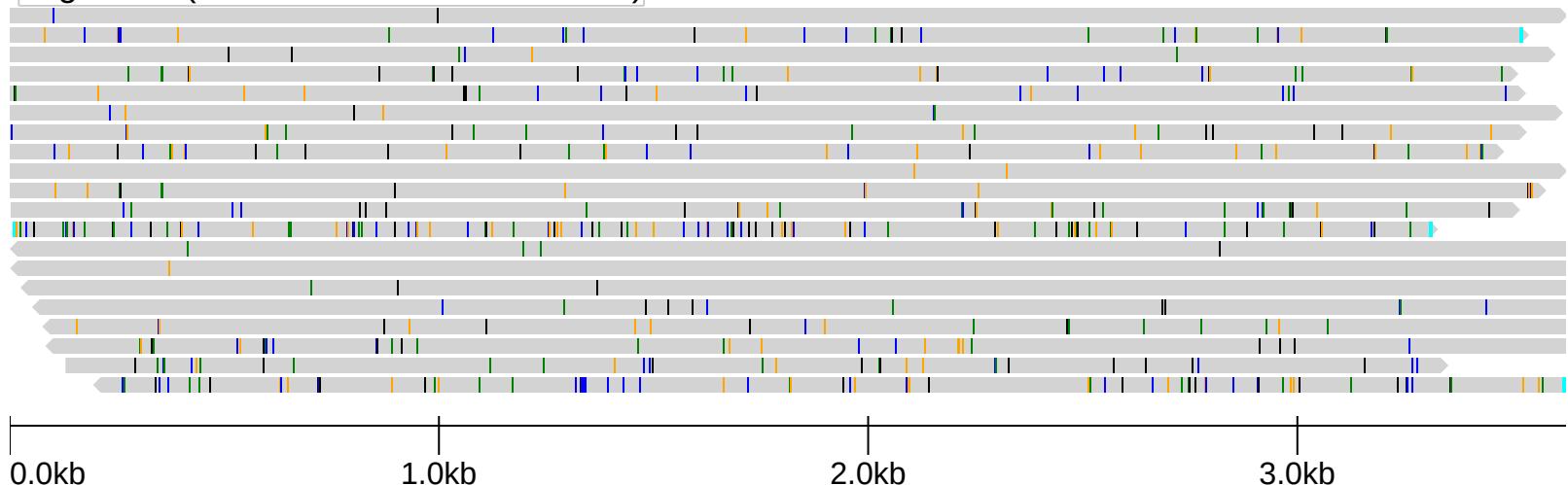
Resolution: 4th field

Full typing result:

HLA-E\*01:03:02:14



Alignment (reference: constructed het 1)



HLA-E\*01:03:02:14 (identity: 100.00%)

**Sample: test\_HLA2**

**Locus: HLA-DMA**

**Resolution: 4th field**

**Full typing result:**

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

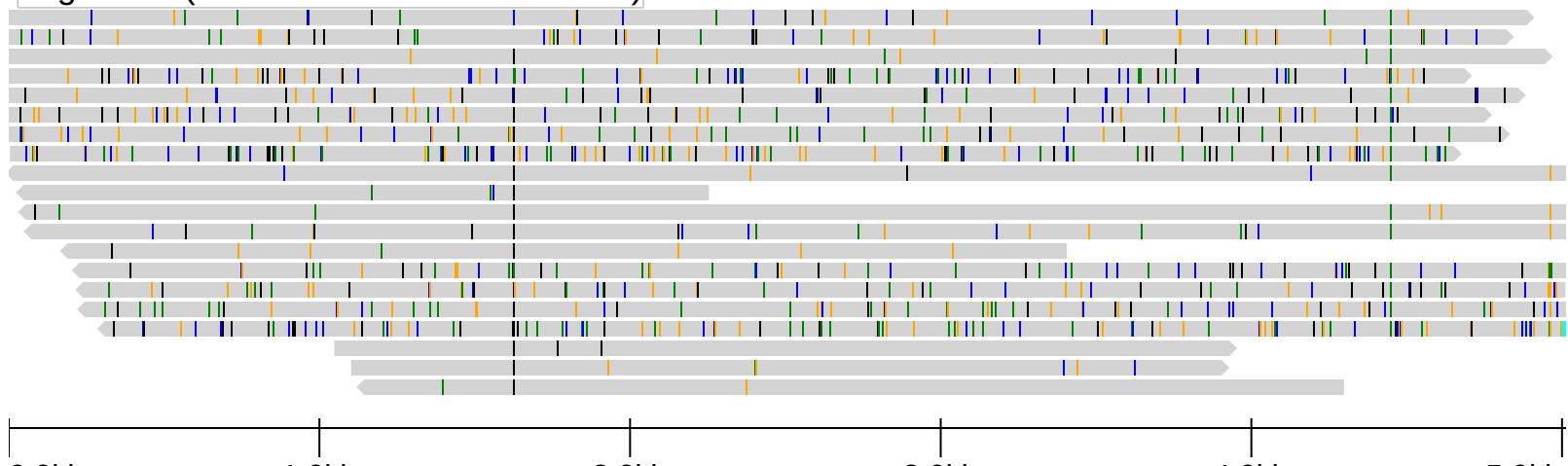
bam coverage



variants



Alignment (reference: constructed het 2)



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

**Sample: test\_HLA2**

**Locus: HLA-DRB3**

**Resolution: 4th field**

**Full typing result:**

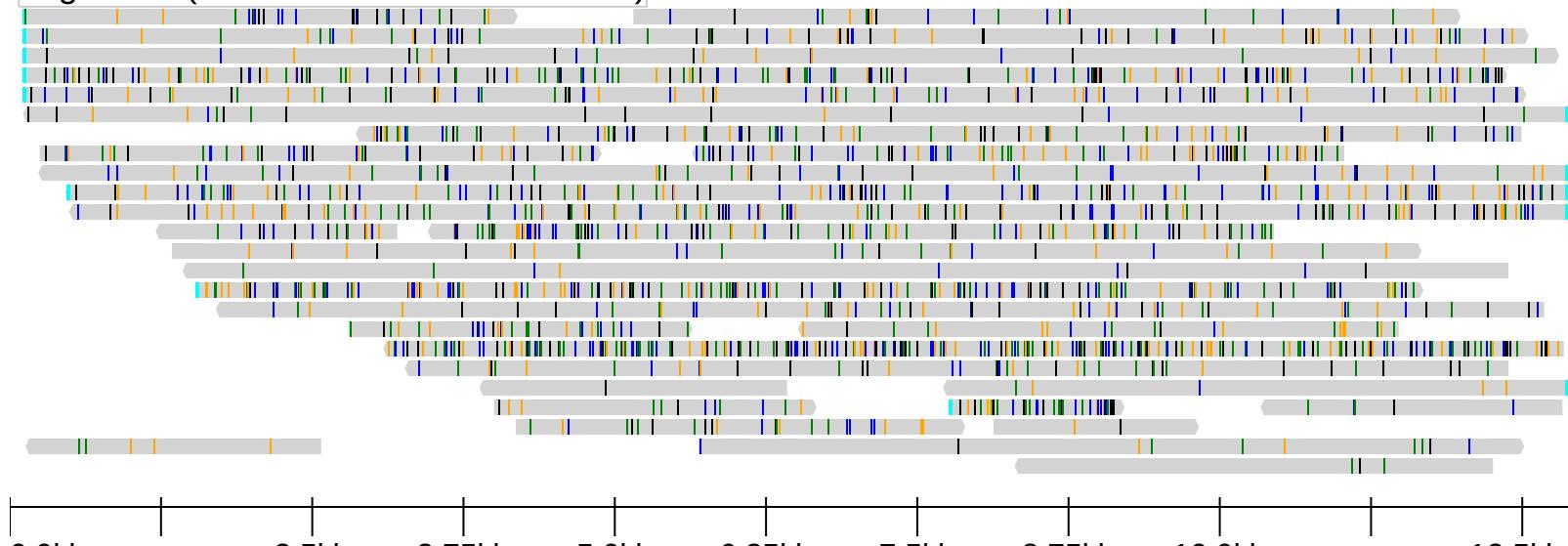
**HLA-DRB3\*03:01:01:03**

bam coverage



variants

Alignment (reference: constructed het 1)



**HLA-DRB3\*03:01:01:03 (identity: 100.00%)**

# Sample: test\_HLA2

Locus: HLA-DRB5

Resolution: 4th field

Full typing result:

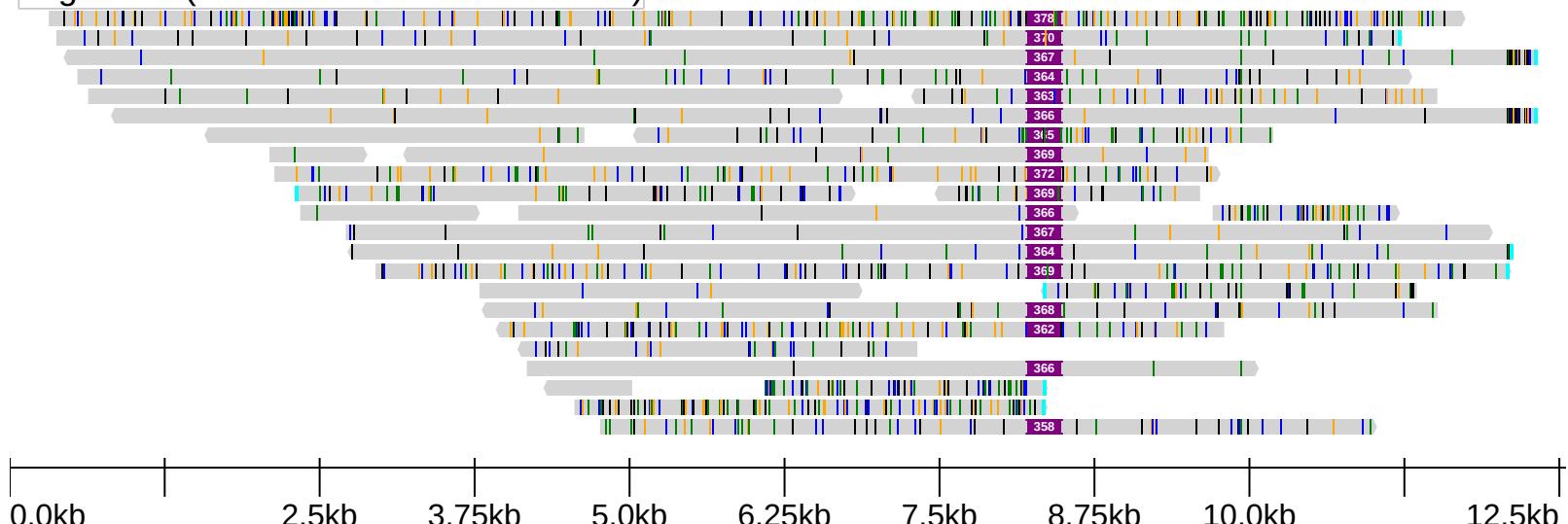
HLA-DRB5\*01:131N

bam coverage



variants

Alignment (reference: constructed het 2)



HLA-DRB5\*01:131N (identity: 100.00%)

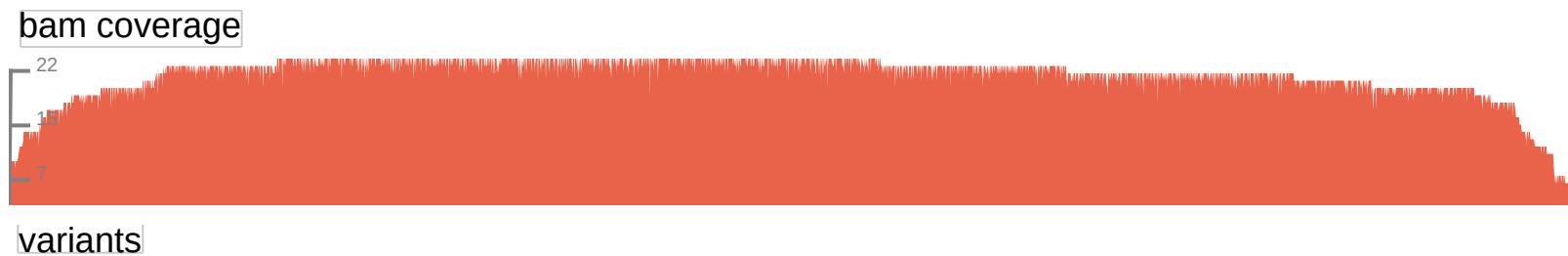
**Sample: test\_HLA2**

**Locus: HLA-DOA**

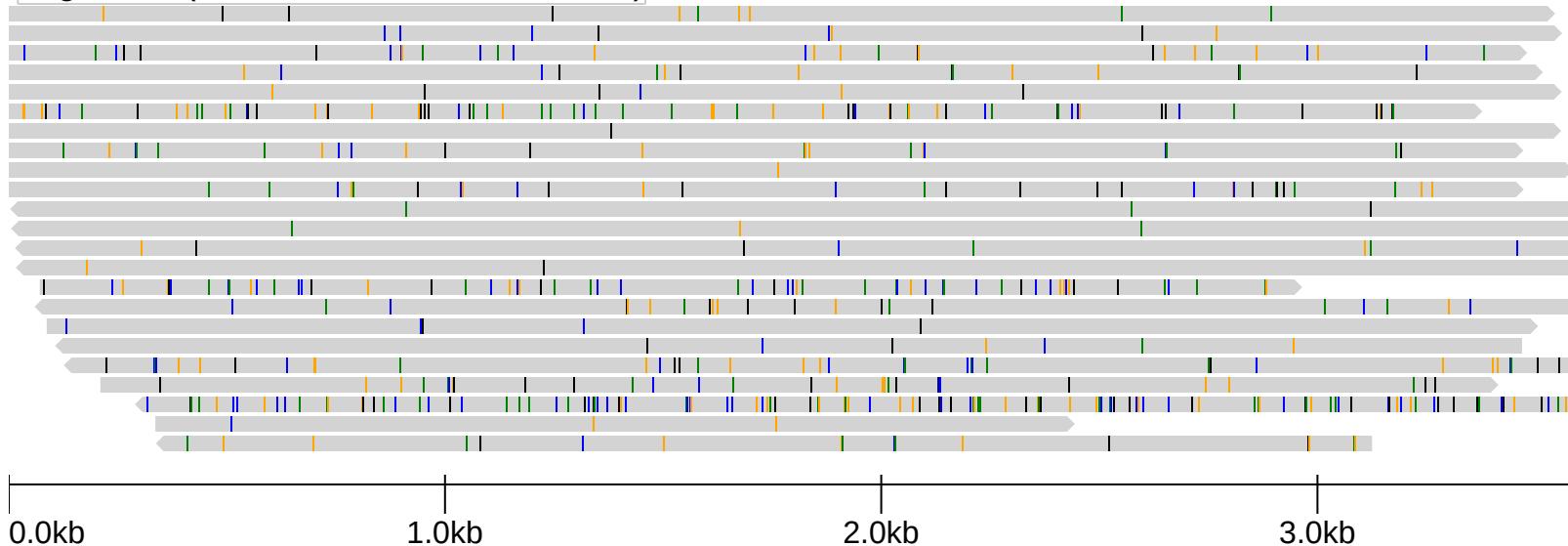
**Resolution: 4th field**

**Full typing result:**

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



Alignment (reference: constructed het 1)



HLA-DOA\*01:01:02:13 (identity: 100.00%)

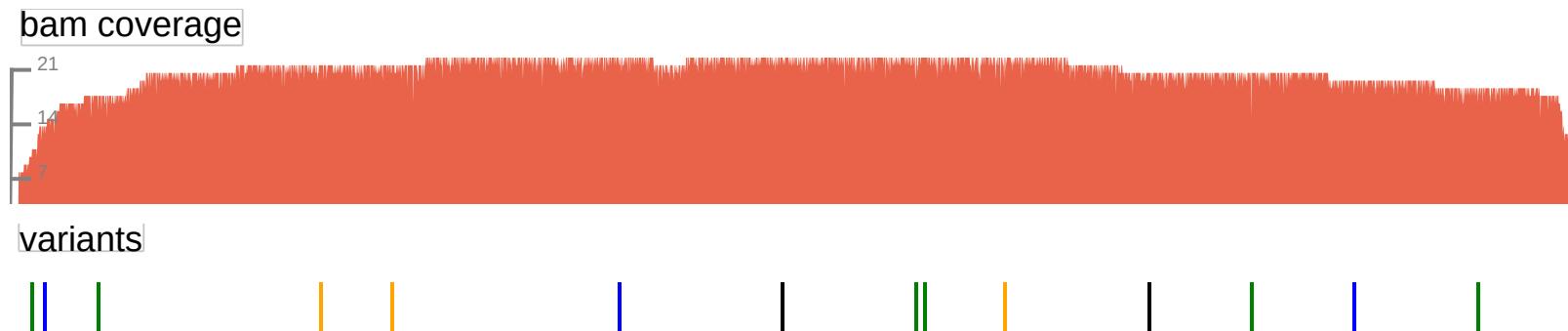
**Sample: test\_HLA2**

**Locus: HLA-DOB**

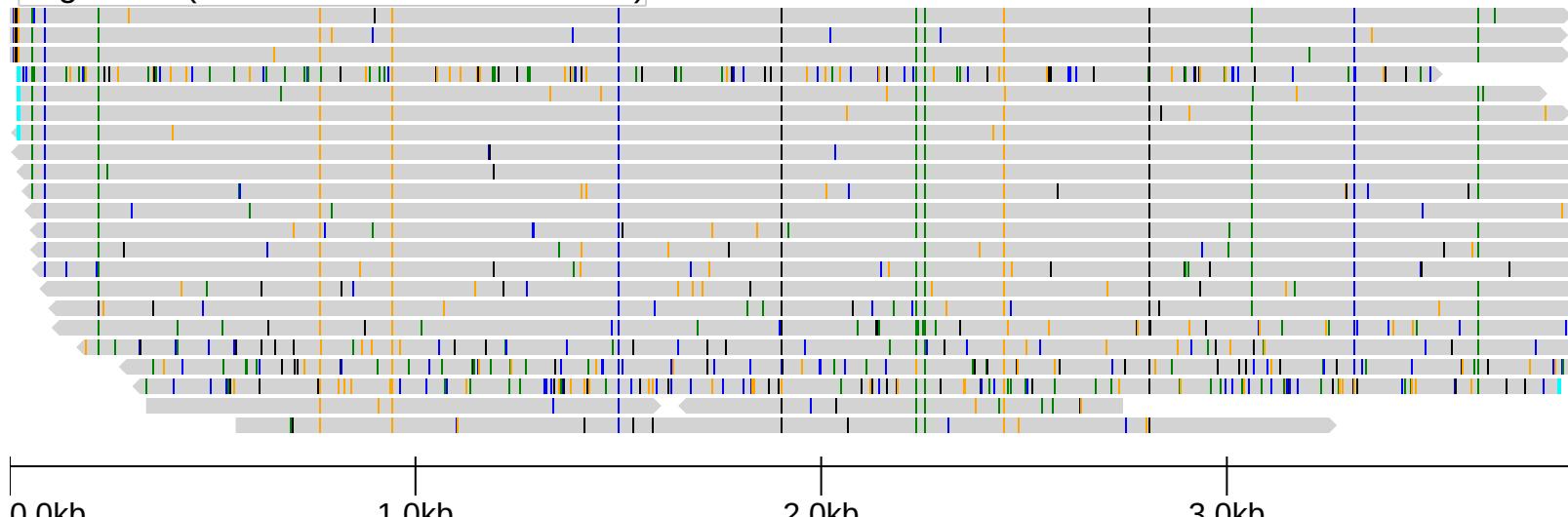
**Resolution: 4th field**

**Full typing result:**

**HLA-DOB\*01:13**



**Alignment (reference: constructed het 2)**



**HLA-DOB\*01:13 (identity: 100.00%)**

## Sample: test\_HLA2

Locus: HLA-T

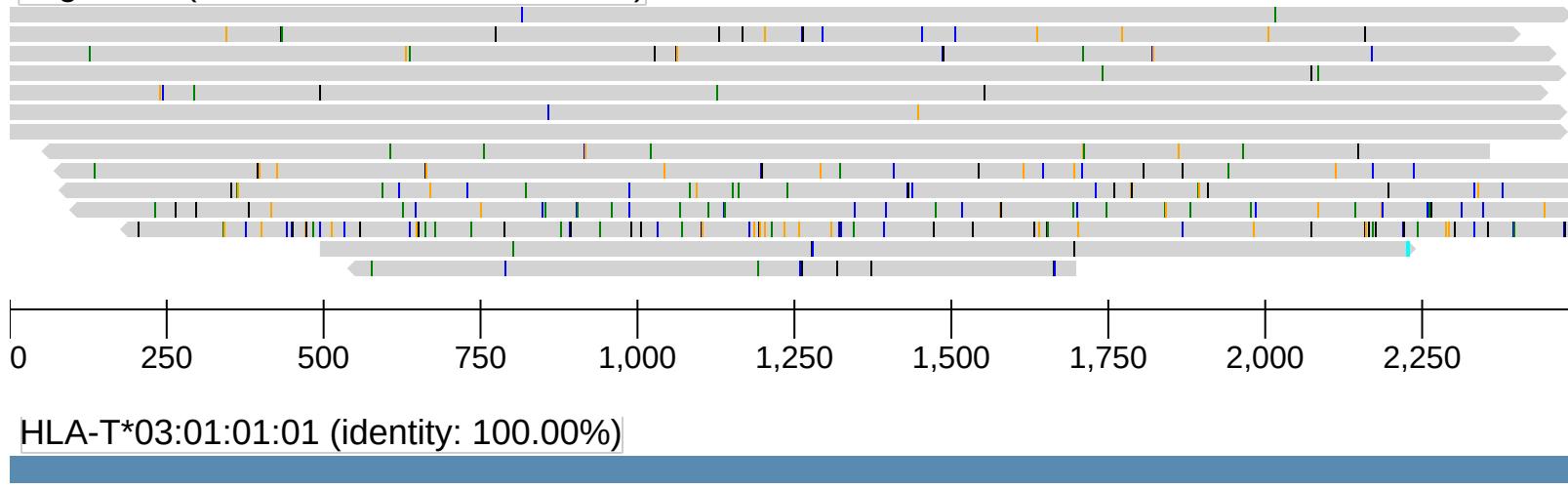
Resolution: 4th field

Full typing result:

HLA-T\*03:01:01:01



Alignment (reference: constructed het 1)



# Sample: test\_HLA2

Locus: HLA-DQB1

Resolution: 4th field

Full typing result:

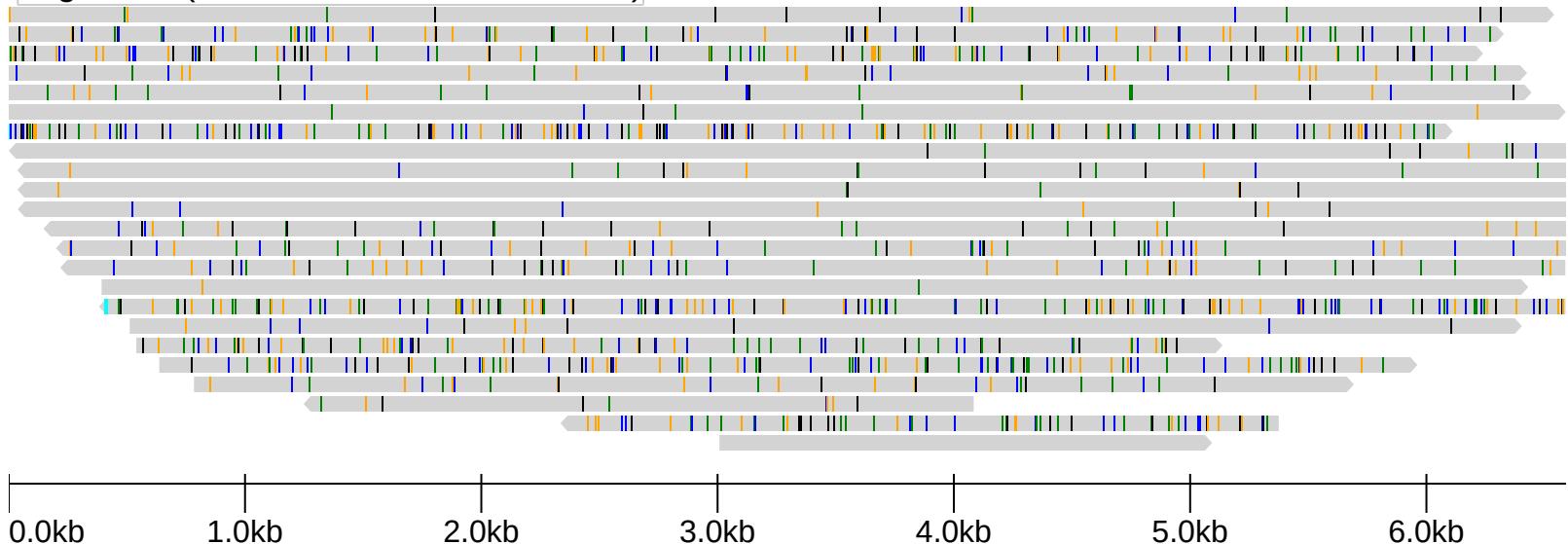
HLA-DQB1*06:14:02	HLA-DQB1*06:02:01:01	HLA-DQB1*06:02:01:15
HLA-DQB1*06:451	HLA-DQB1*06:02:01:03	HLA-DQB1*06:02:01:23
HLA-DQB1*06:306N	HLA-DQB1*06:02:01:02	HLA-DQB1*06:02:01:08
HLA-DQB1*06:02:01:10	HLA-DQB1*06:02:01:11	HLA-DQB1*06:02:01:12
HLA-DQB1*06:02:01:13	HLA-DQB1*06:02:01:16	HLA-DQB1*06:02:01:17

bam coverage



variants

Alignment (reference: constructed het 1)



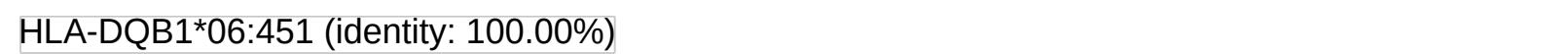
HLA-DQB1\*06:14:02 (identity: 100.00%)



HLA-DQB1\*06:02:01:01 (identity: 100.00%)



HLA-DQB1\*06:02:01:15 (identity: 100.00%)



HLA-DQB1\*06:451 (identity: 100.00%)



HLA-DQB1\*06:02:01:03 (identity: 99.98%)



HLA-DQB1\*06:02:01:23 (identity: 99.98%)



HLA-DQB1\*06:306N (identity: 99.98%)



HLA-DQB1\*06:02:01:02 (identity: 100.00%)



HLA-DQB1\*06:02:01:08 (identity: 100.00%)



HLA-DQB1\*06:02:01:10 (identity: 100.00%)



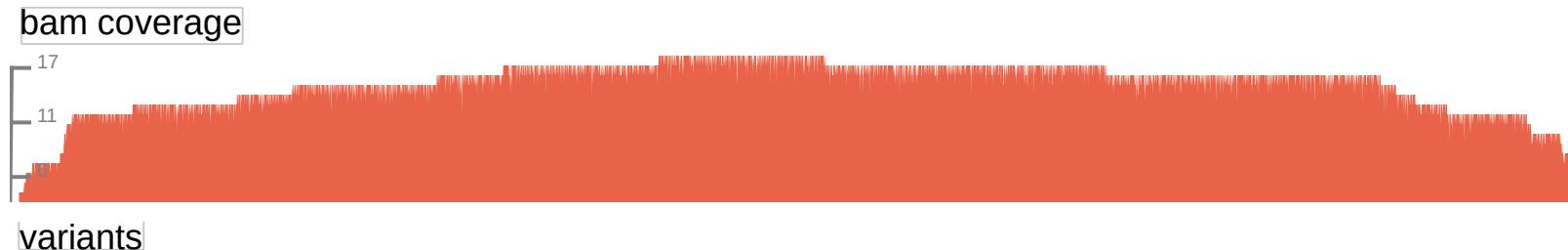
**Sample: test\_HLA2**

**Locus: HLA-DMB**

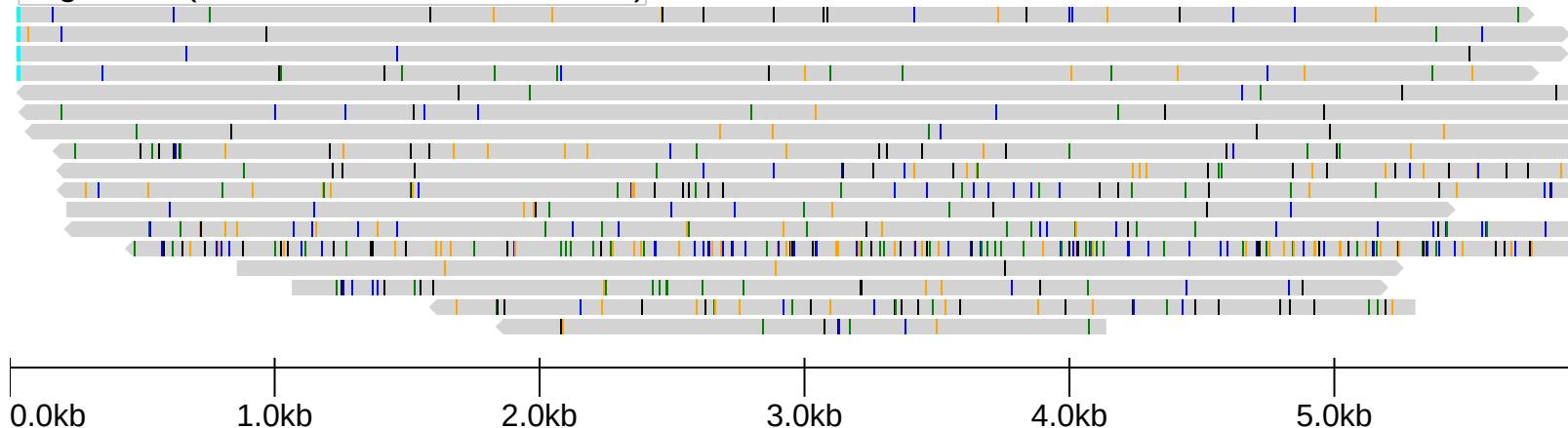
**Resolution: 4th field**

**Full typing result:**

**HLA-DMB\*01:01:01:24**



Alignment (reference: constructed het 1)



**HLA-DMB\*01:01:01:24 (identity: 100.00%)**

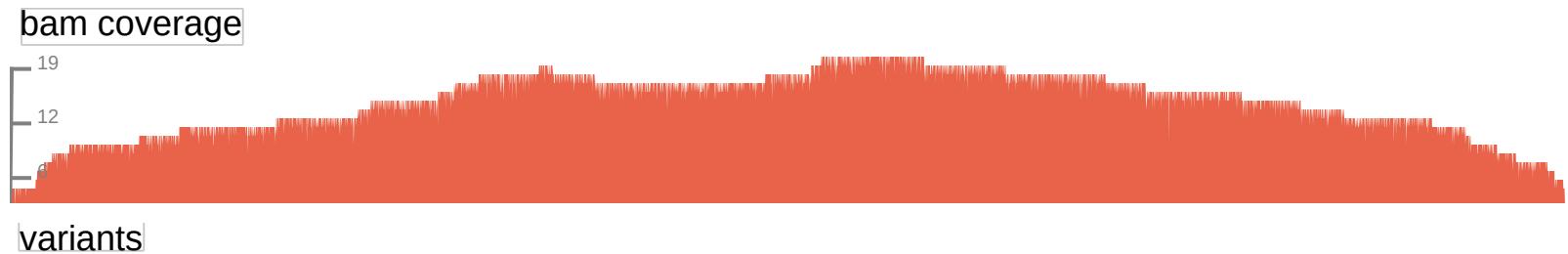
**Sample: test\_HLA2**

**Locus: HLA-DPA1**

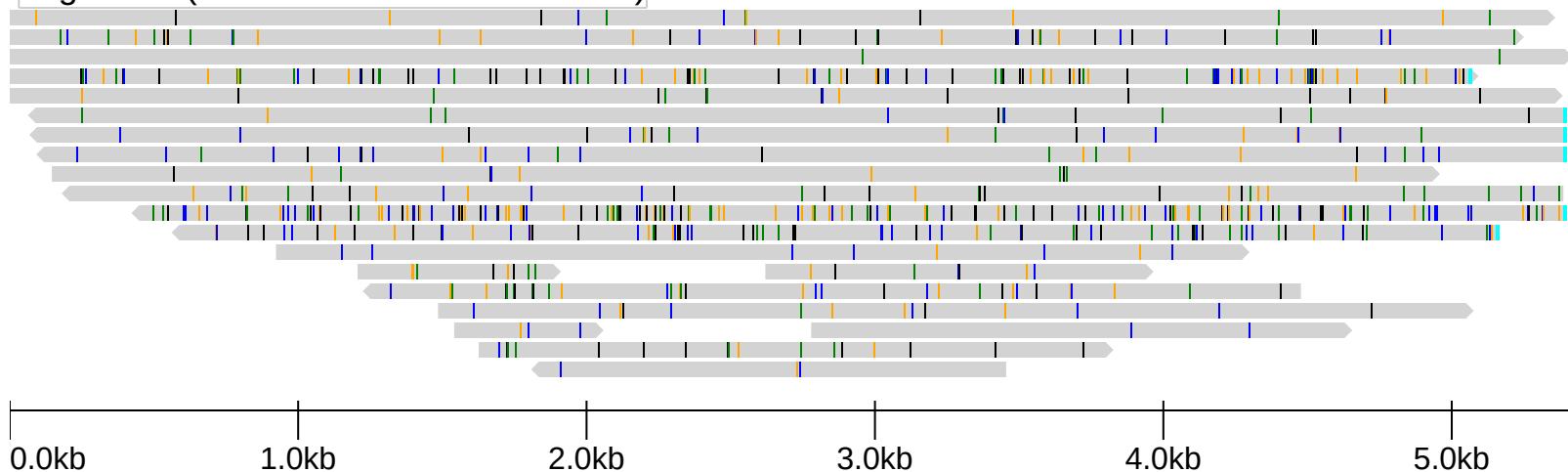
**Resolution: 4th field**

**Full typing result:**

**HLA-DPA1\*01:183**



Alignment (reference: constructed het 1)



**HLA-DPA1\*01:183 (identity: 100.00%)**

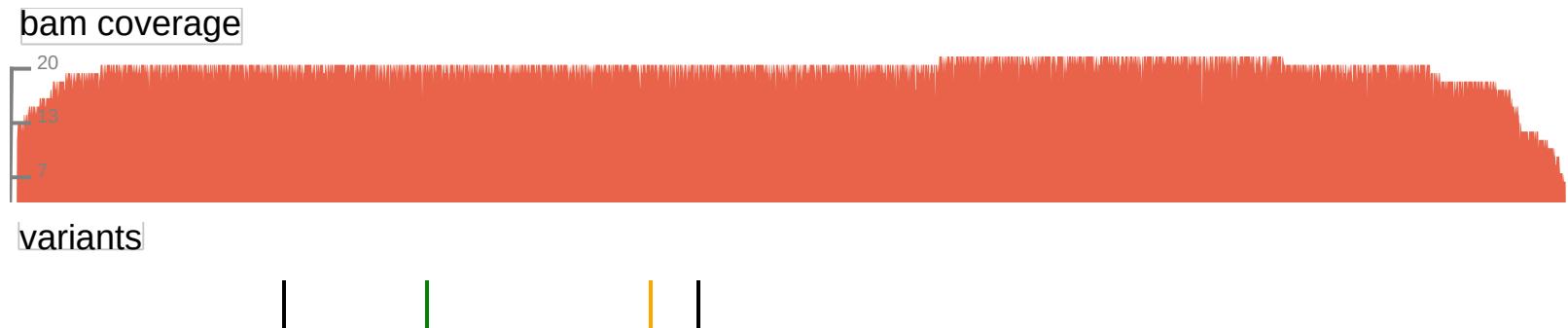
# Sample: test\_HLA2

Locus: HLA-E

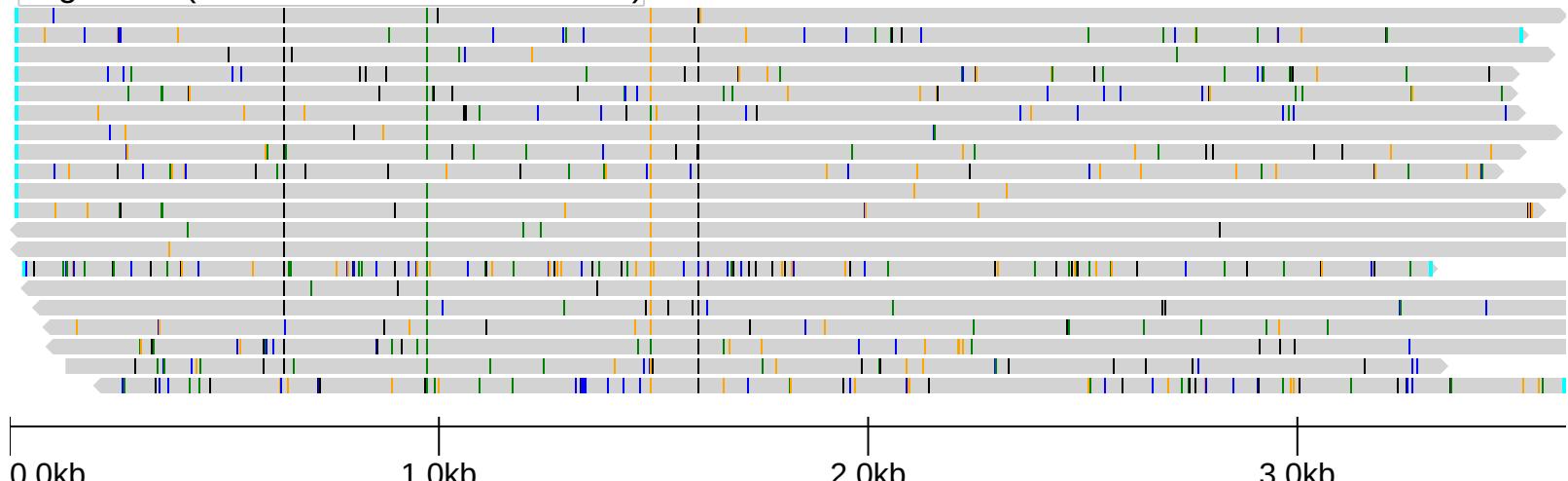
Resolution: 4th field

Full typing result:

HLA-E\*01:01:01:16



Alignment (reference: constructed het 2)



HLA-E\*01:01:01:16 (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-W

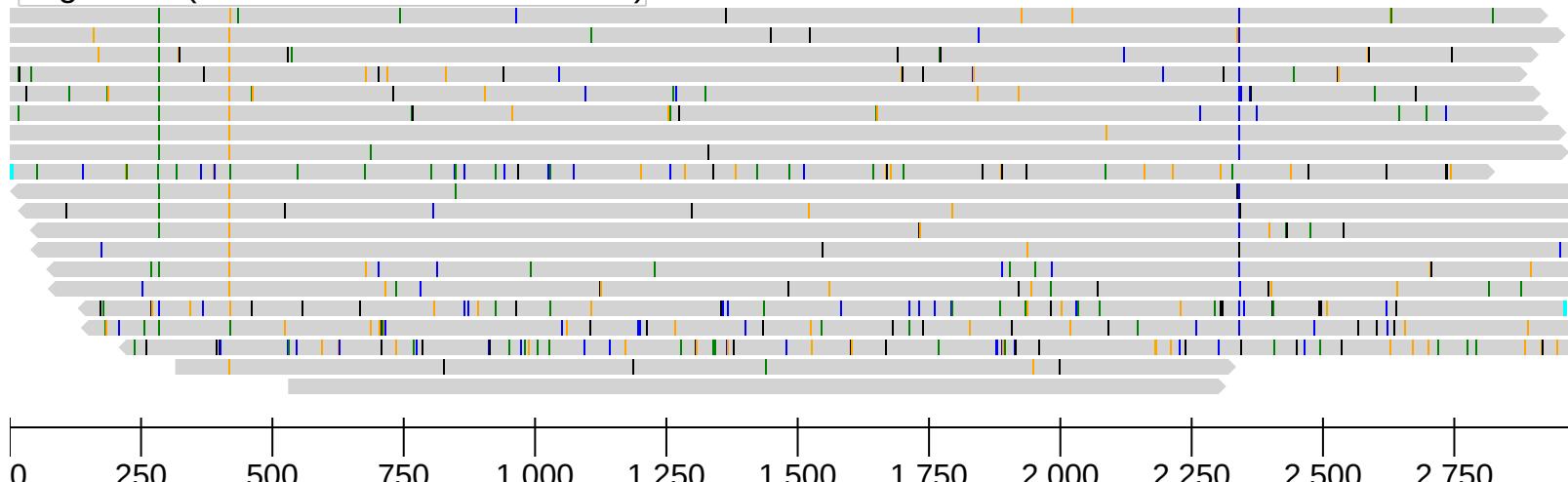
Resolution: 4th field

Full typing result:

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



Alignment (reference: constructed het 2)



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

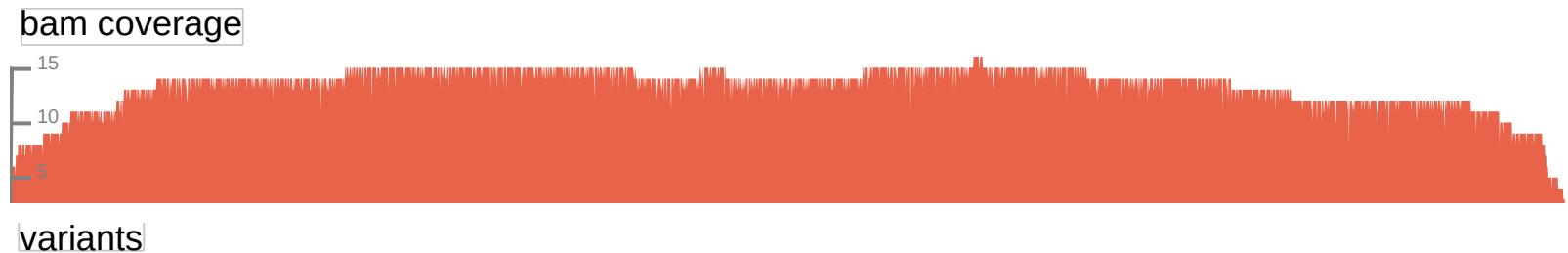
# Sample: test\_HLA2

Locus: HLA-B

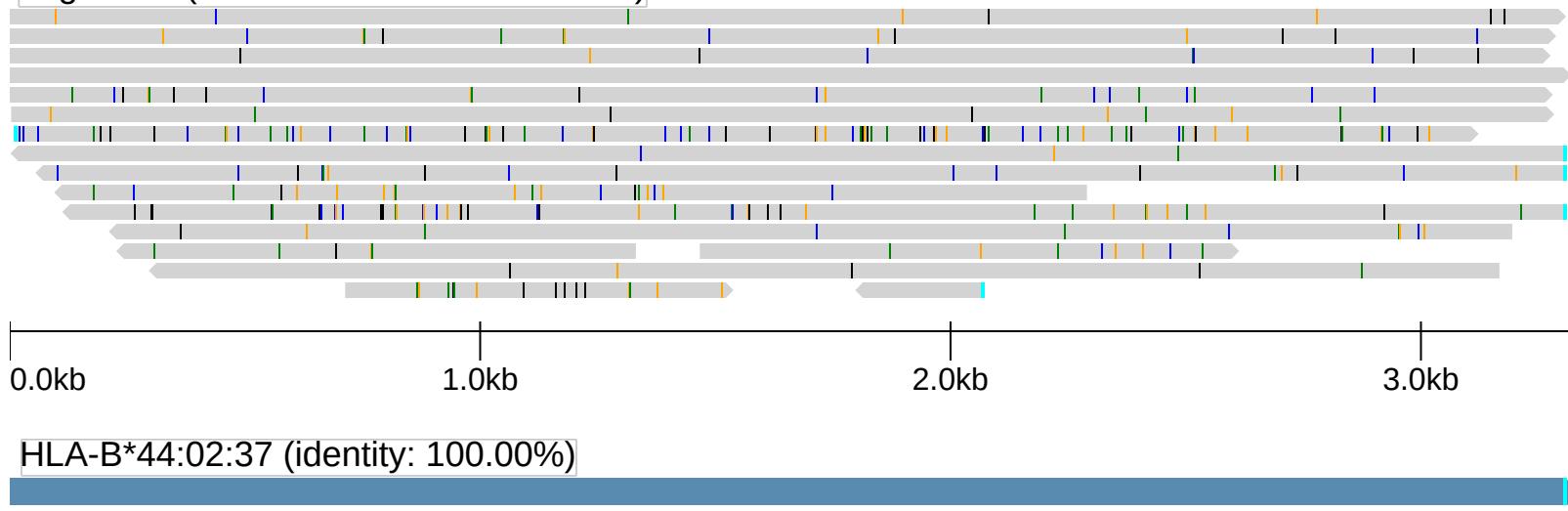
Resolution: 4th field

Full typing result:

HLA-B\*44:02:37



Alignment (reference: constructed het 1)



# Sample: test\_HLA2

Locus: HLA-G

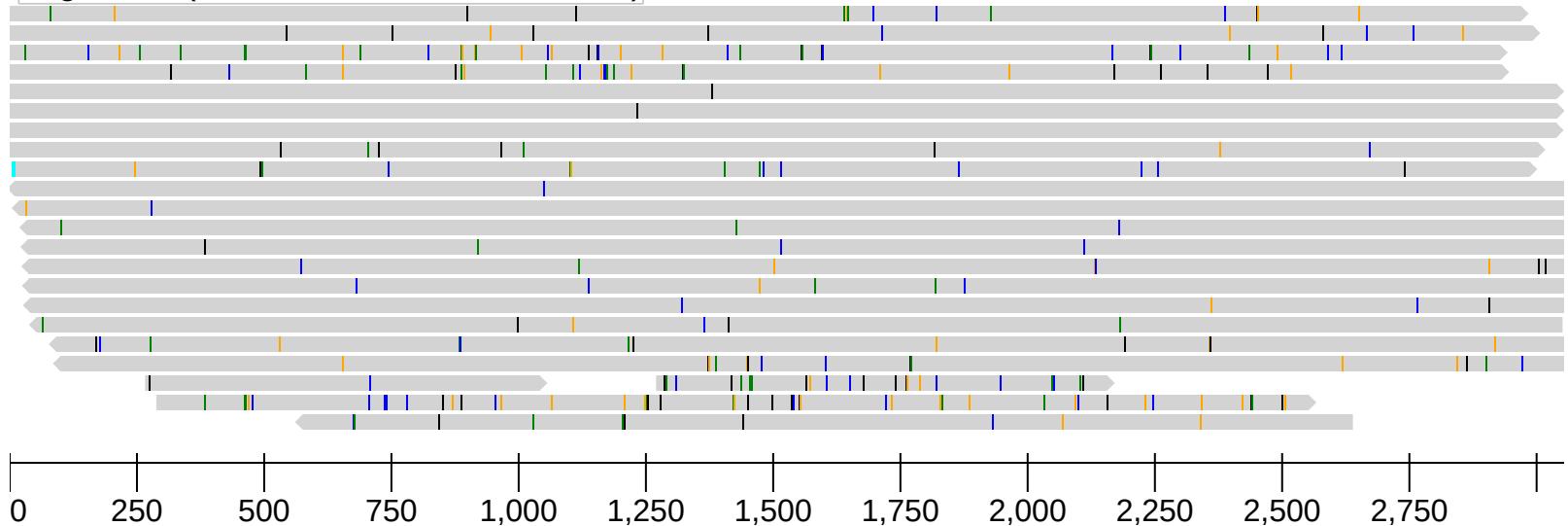
Resolution: 4th field

Full typing result:

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



Alignment (reference: constructed het 1)



HLA-G\*01:01:03:04 (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-U

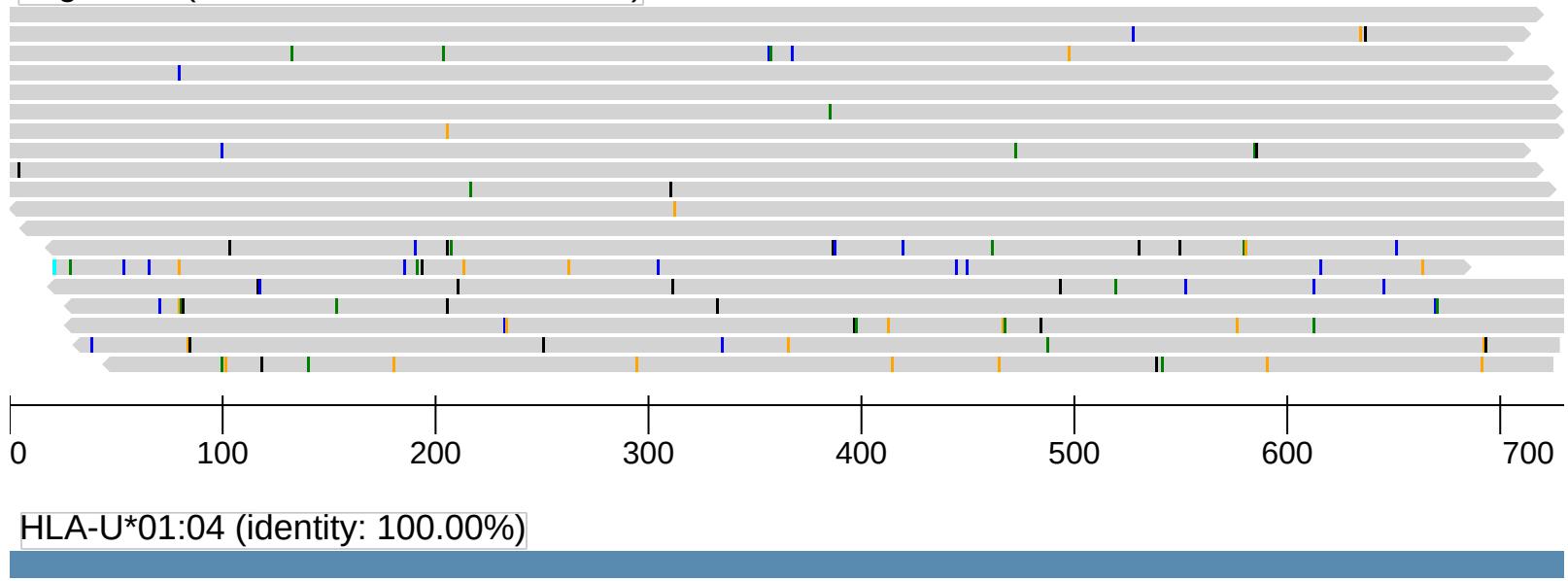
Resolution: 4th field

Full typing result:

HLA-U\*01:04



Alignment (reference: constructed het 1)



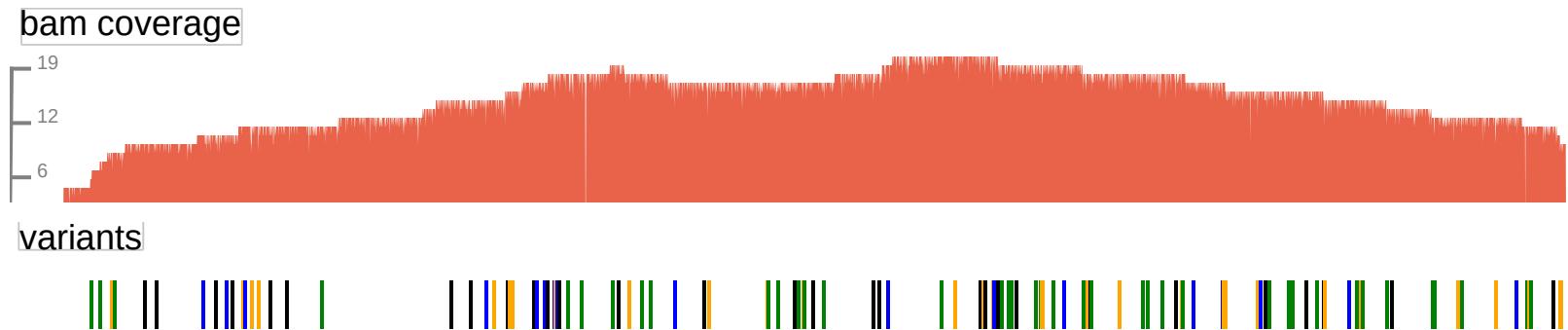
## Sample: test\_HLA2

## **Locus: HLA-DPA1**

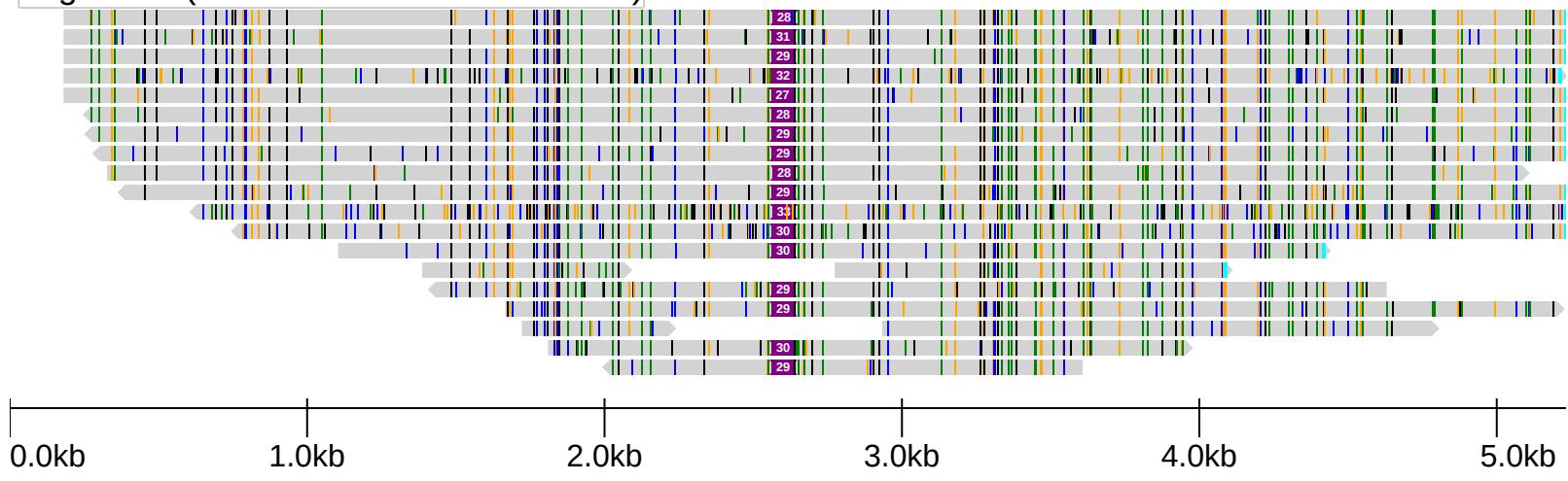
## ***Resolution: 4th field***

### ***Full typing result:***

**HLA-DPA1\*02:01:20**



## Alignment (reference: constructed het 2)



HLA-DPA1\*02:01:20 (identity: 100.00%)

**Sample: test\_HLA2**

**Locus: MICA**

**Resolution: 4th field**

**Full typing result:**

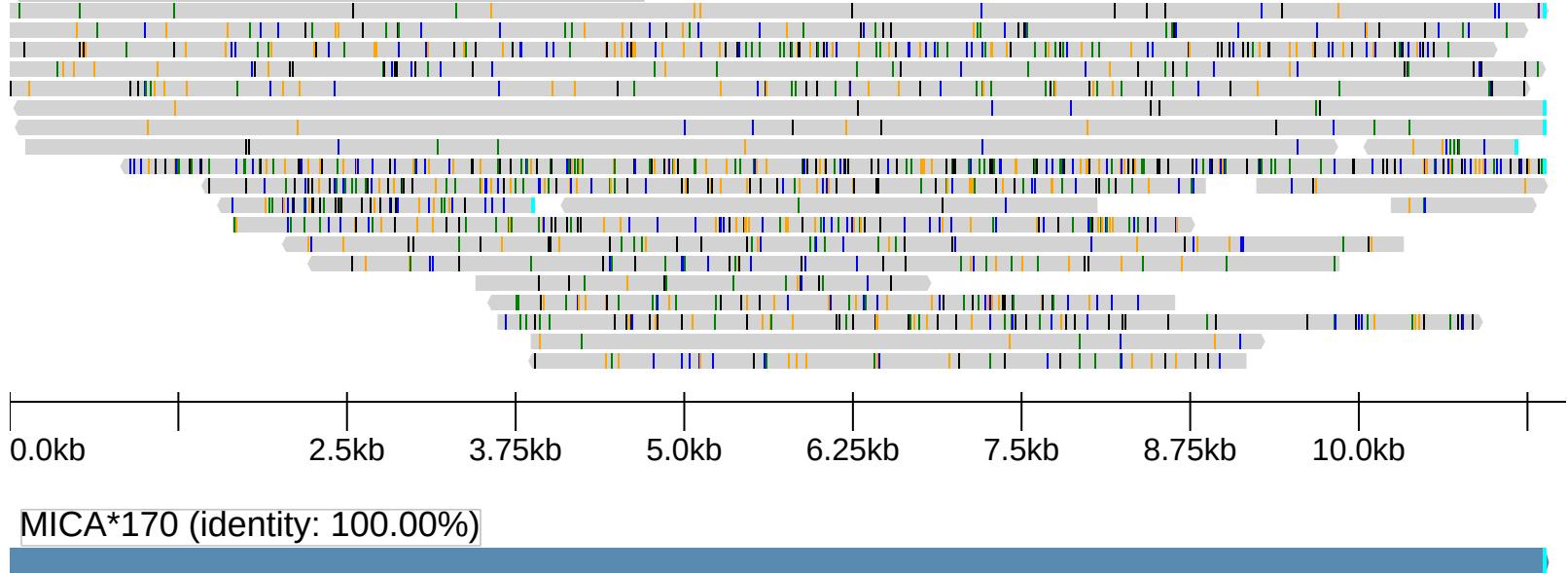
**MICA\*170**

bam coverage



variants

Alignment (reference: constructed het 1)



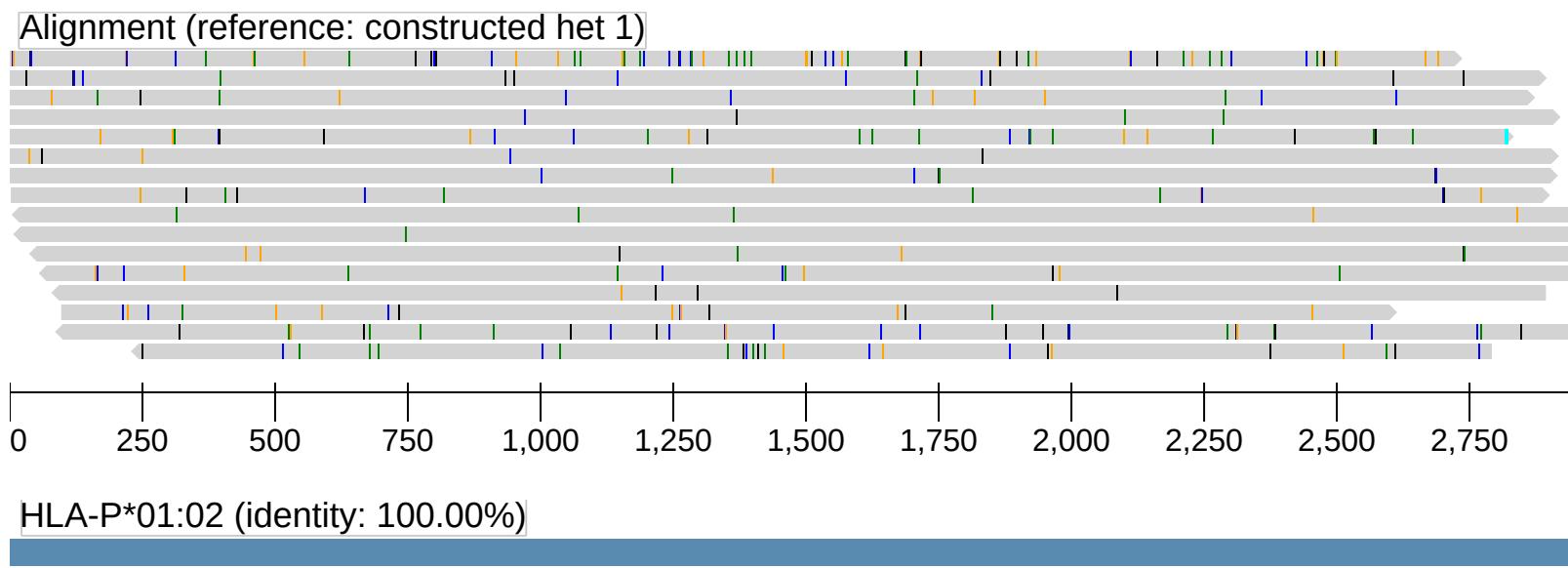
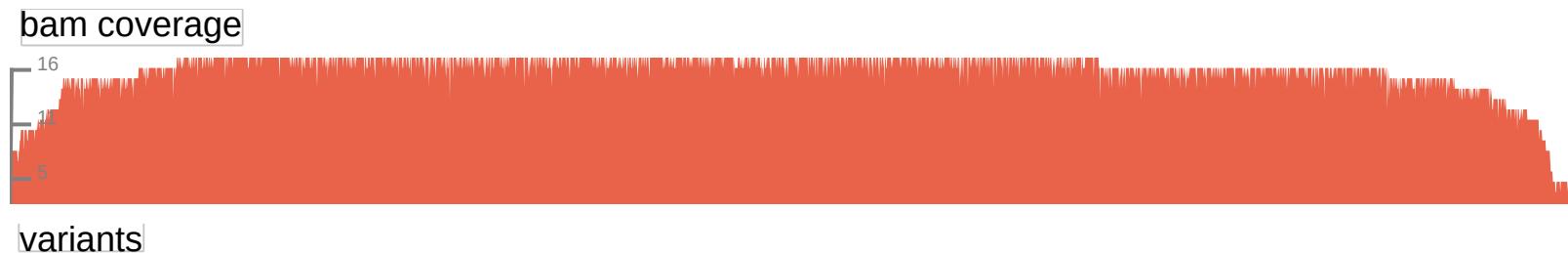
# Sample: test\_HLA2

Locus: HLA-P

Resolution: 4th field

Full typing result:

HLA-P\*01:02



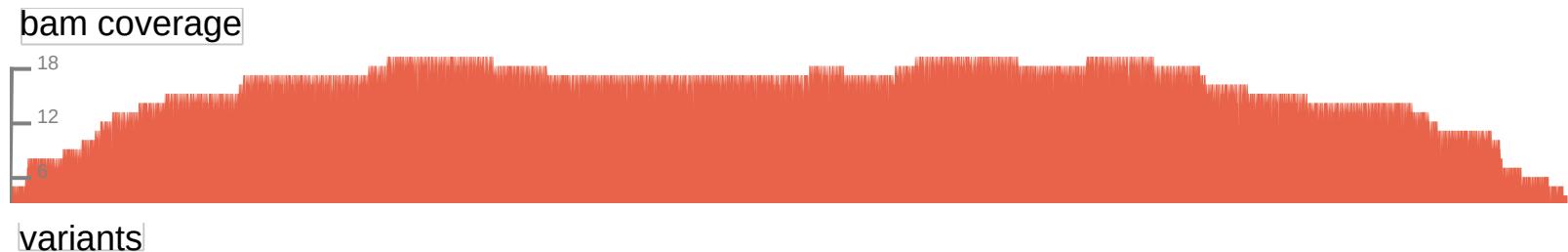
# Sample: test\_HLA2

Locus: TAP2

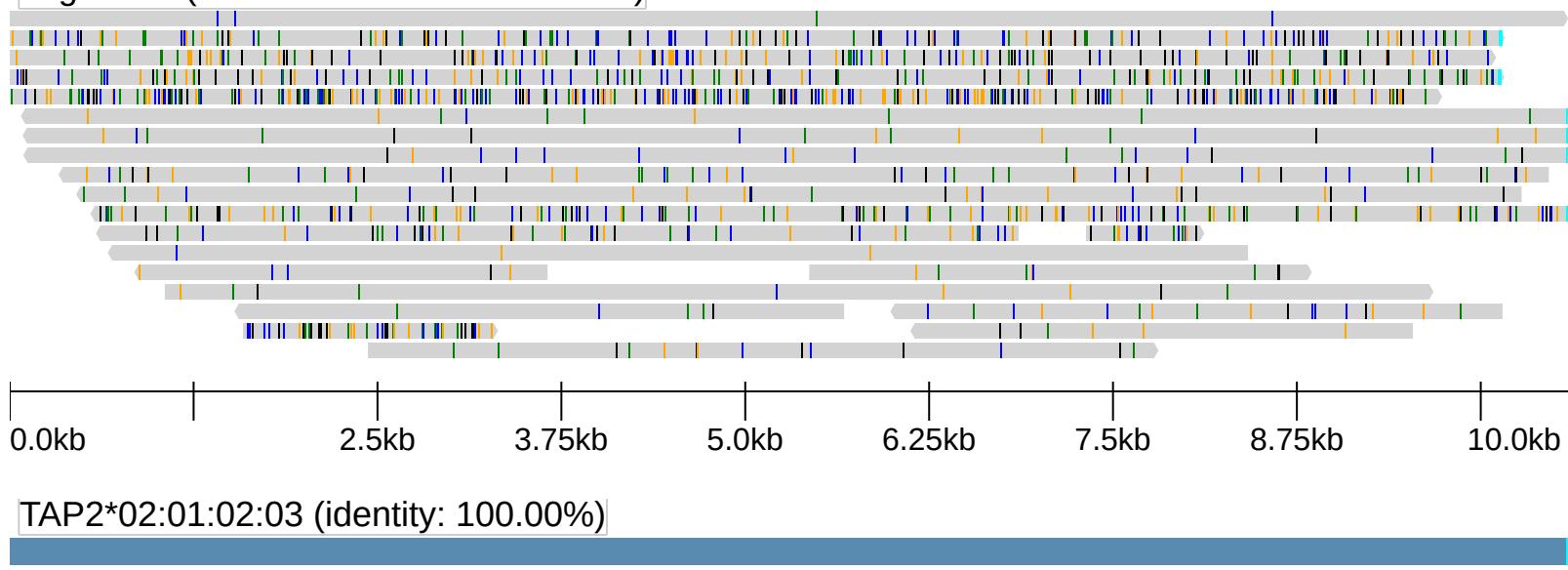
Resolution: 4th field

Full typing result:

TAP2\*02:01:02:03



Alignment (reference: constructed het 1)



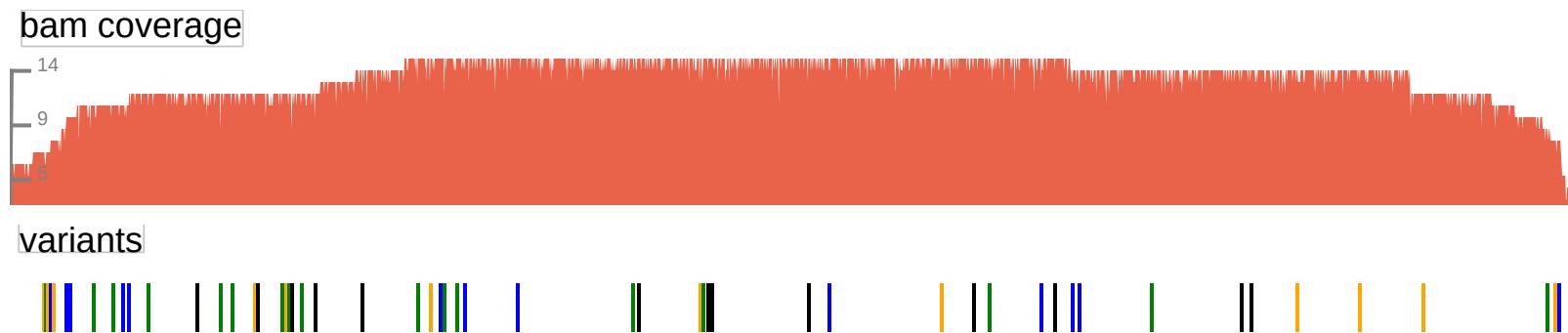
# Sample: test\_HLA2

Locus: HLA-T

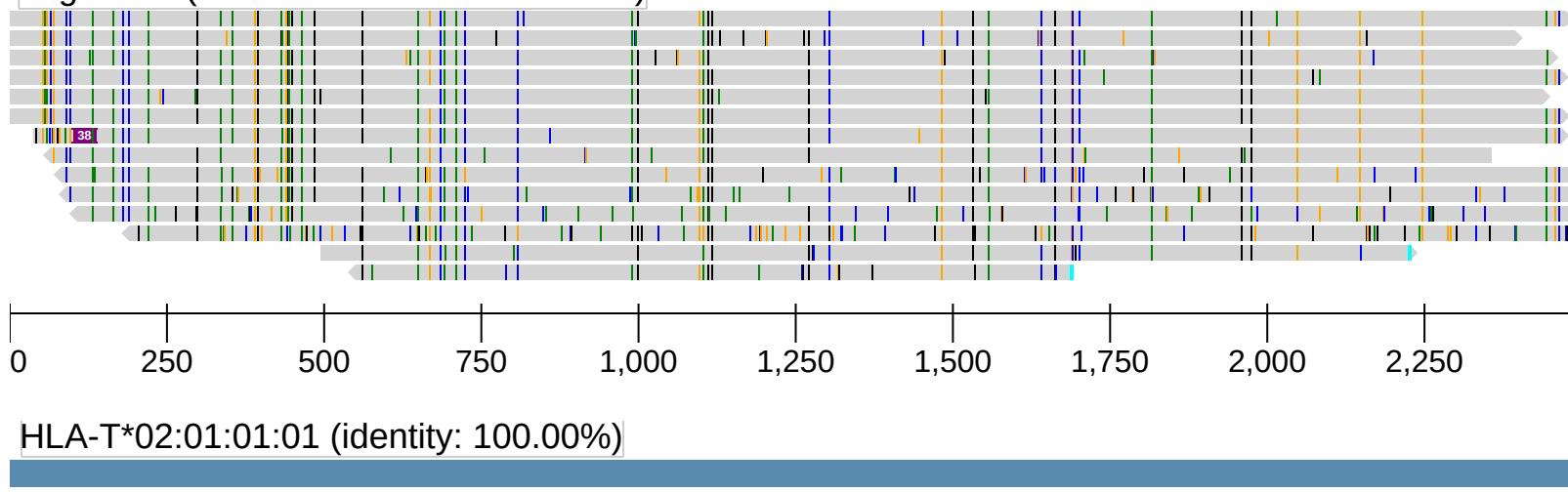
Resolution: 4th field

Full typing result:

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



Alignment (reference: constructed het 2)



# Sample: test\_HLA2

Locus: HLA-F

Resolution: 4th field

Full typing result:

HLA-F\*01:01:01:14

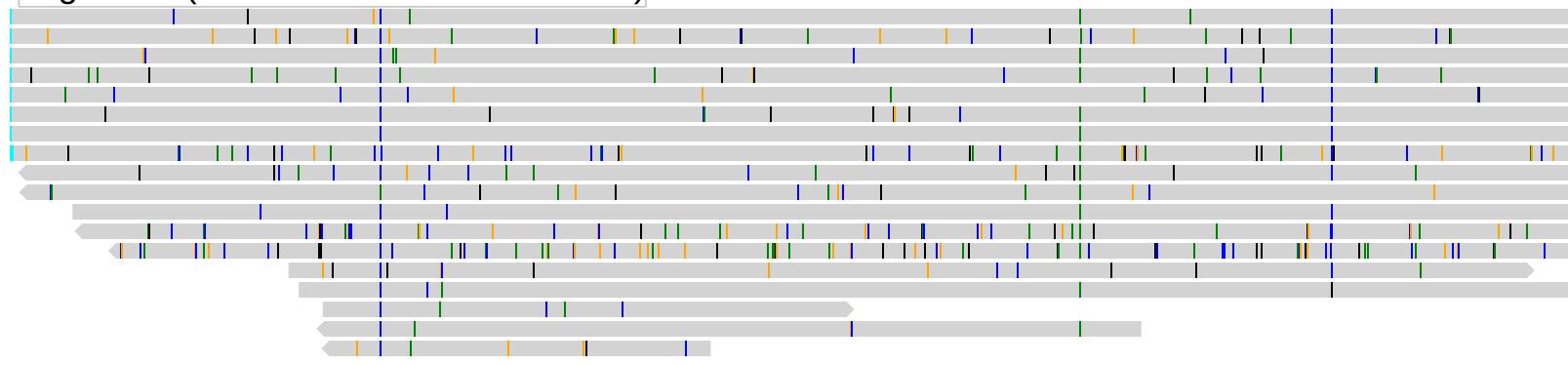
bam coverage



variants



Alignment (reference: constructed het 2)



HLA-F\*01:01:01:14 (identity: 100.00%)

**Sample: test\_HLA2**

**Locus: HLA-F**

**Resolution: 4th field**

**Full typing result:**

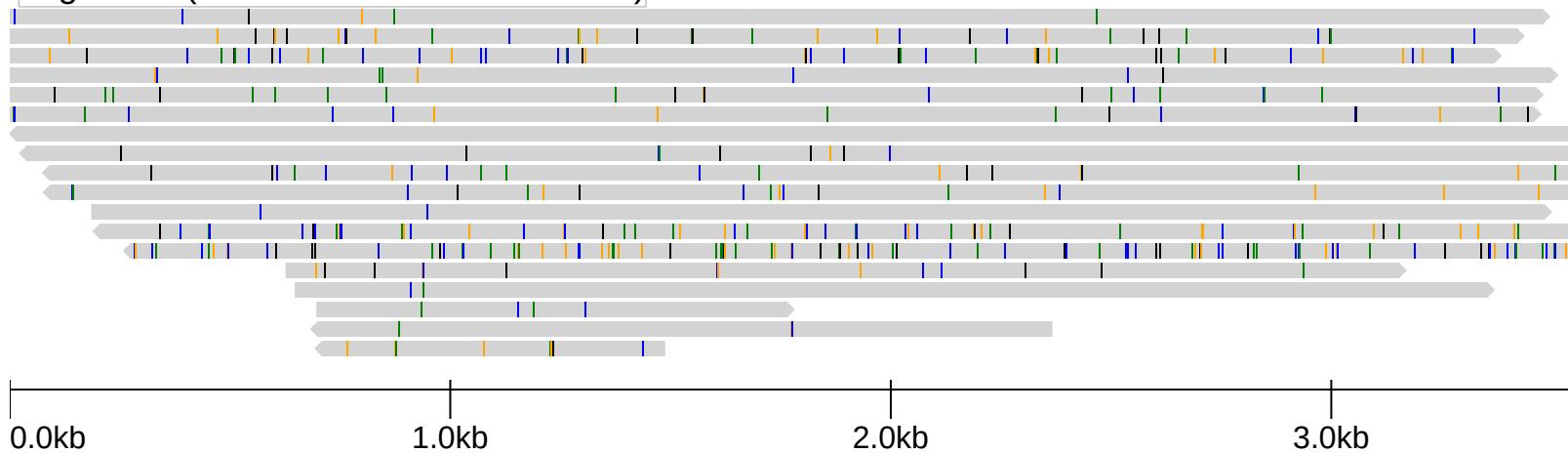
**HLA-F\*01:01:01:27**

**bam coverage**



**variants**

**Alignment (reference: constructed het 1)**



**HLA-F\*01:01:01:27 (identity: 100.00%)**

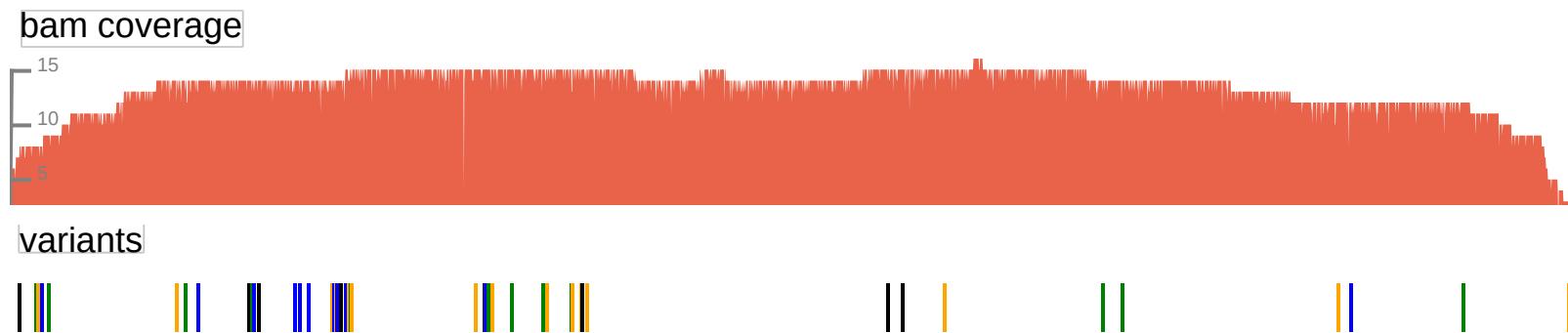
# Sample: test\_HLA2

Locus: HLA-B

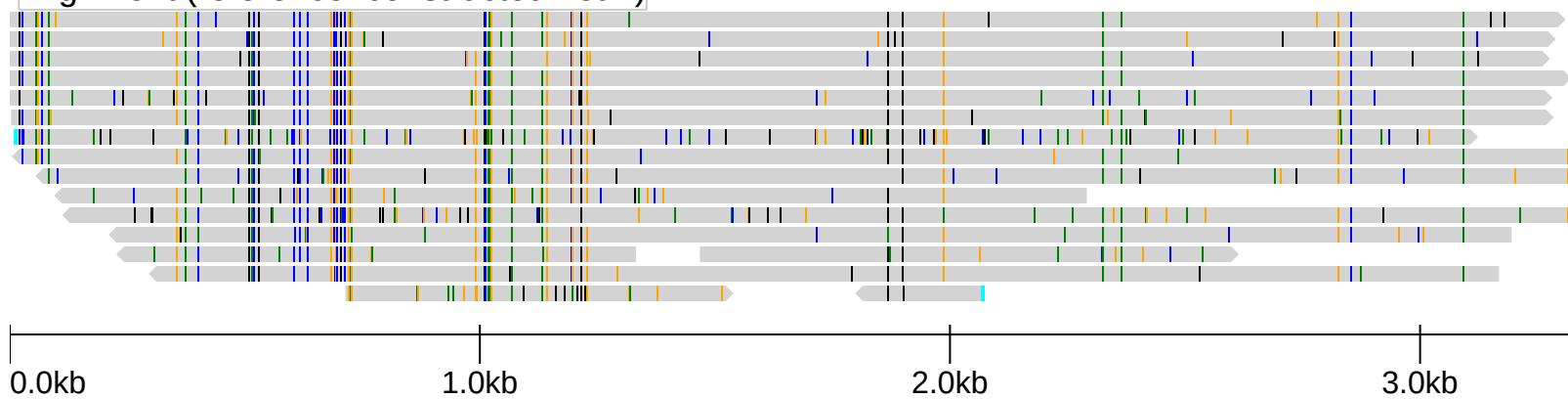
Resolution: 4th field

Full typing result:

HLA-B\*27:184



Alignment (reference: constructed het 2)



HLA-B\*27:184 (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-S

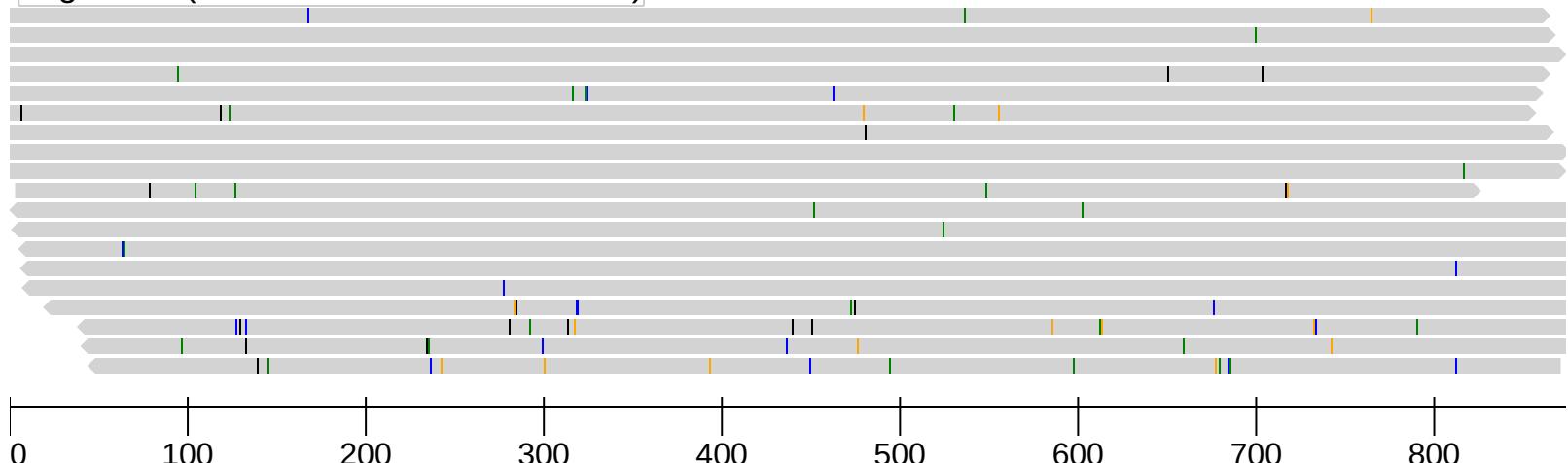
Resolution: 4th field

Full typing result:

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



Alignment (reference: constructed het 1)



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

# Sample: test\_HLA2

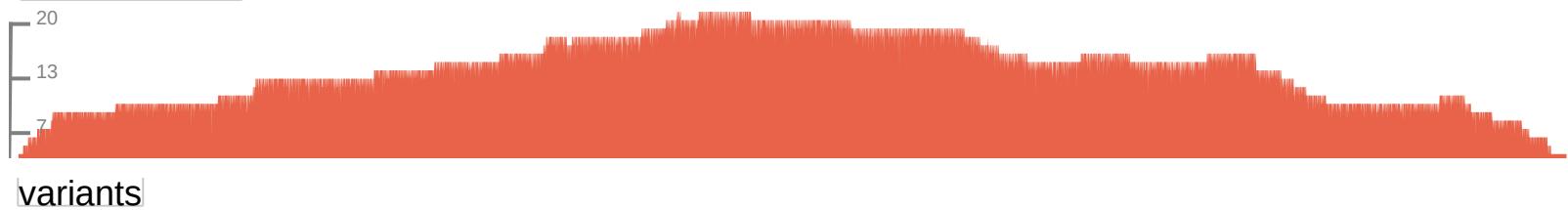
Locus: MICB

Resolution: 4th field

Full typing result:

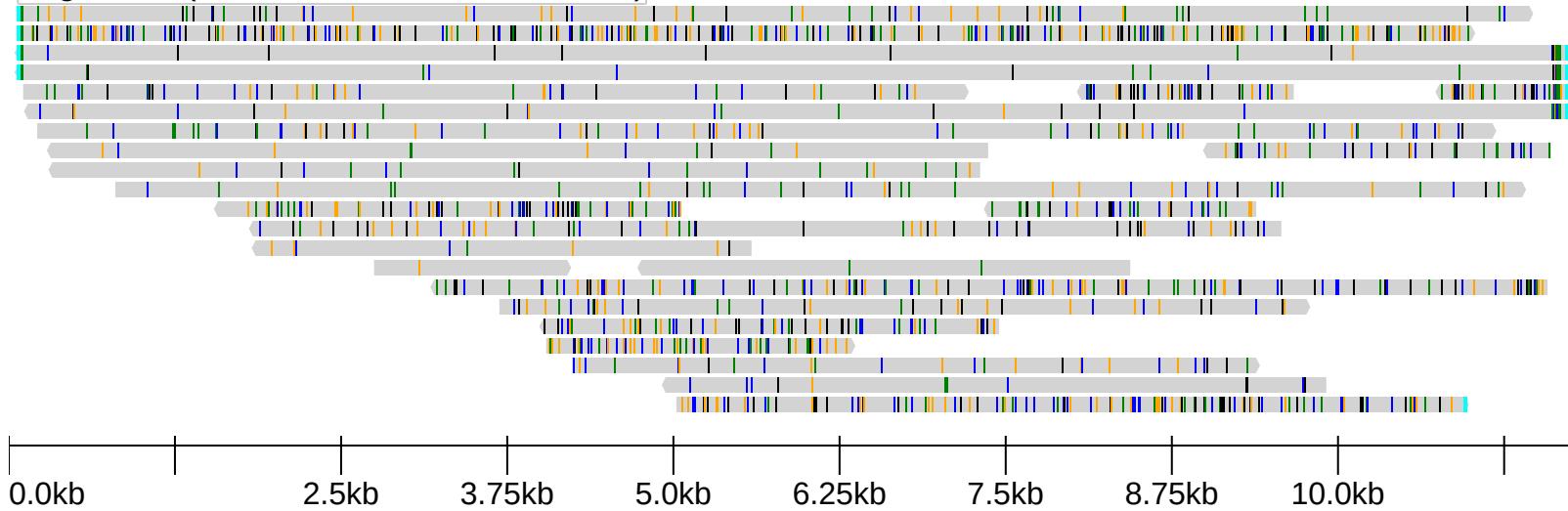
MICB*004:01:18	MICB*004:01:01	MICB*004:01:17
MICB*004:01:22	MICB*004:01:07	MICB*020:01:02
MICB*024:01:01	MICB*046	MICB*050
MICB*004:01:13	MICB*004:01:02	MICB*004:01:05
MICB*004:01:16	MICB*004:01:25	MICB*024:01:06

bam coverage



variants

Alignment (reference: constructed het 1)



MICB\*004:01:18 (identity: 100.00%)

MICB\*004:01:01 (identity: 99.97%)

MICB\*004:01:17 (identity: 99.99%)

MICB\*004:01:22 (identity: 99.99%)

MICB\*004:01:07 (identity: 99.97%)

MICB\*020:01:02 (identity: 99.97%)

MICB\*024:01:01 (identity: 99.97%)

MICB\*046 (identity: 99.97%)

MICB\*050 (identity: 99.97%)

MICB\*004:01:13 (identity: 99.97%)

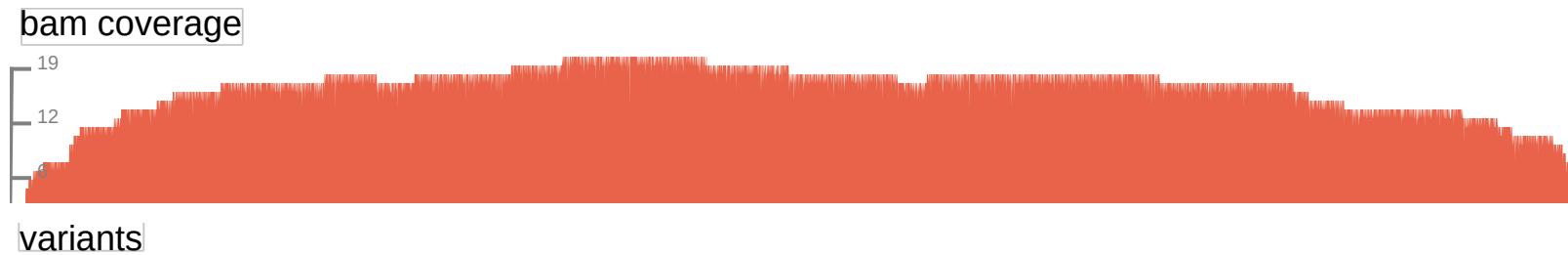
# Sample: test\_HLA2

Locus: HFE

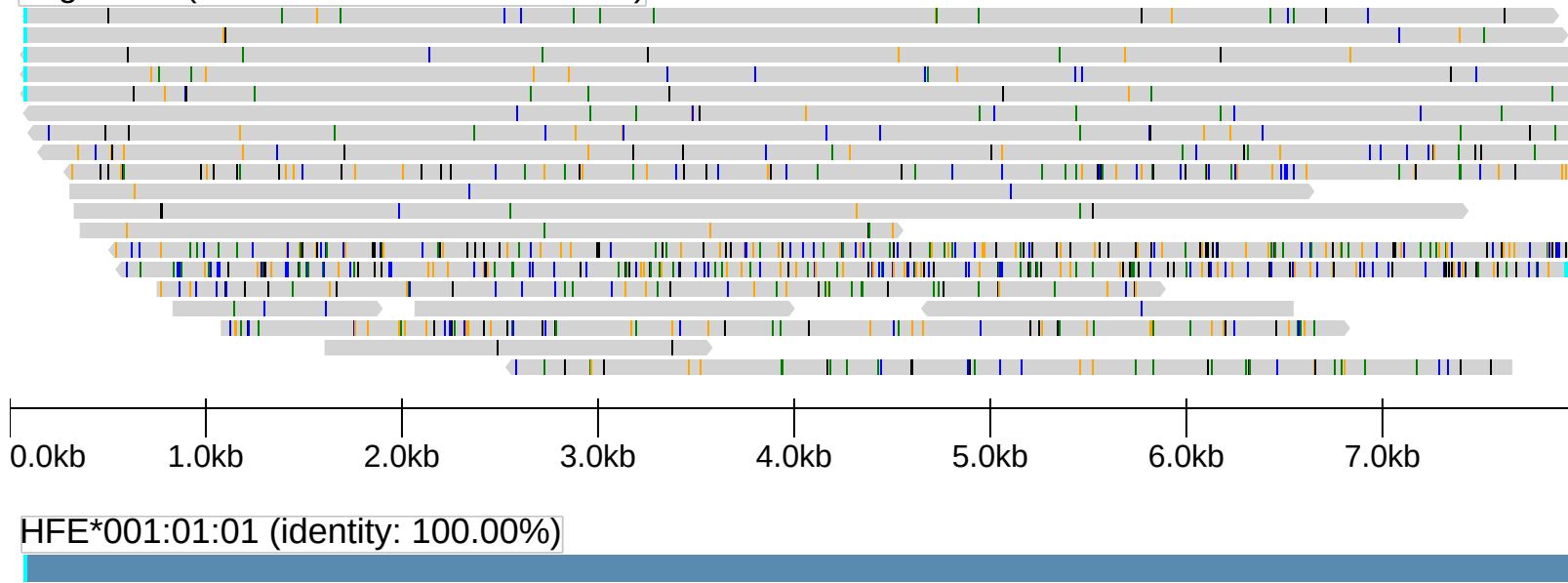
Resolution: 4th field

Full typing result:

HFE\*001:01:01



Alignment (reference: constructed het 1)



# Sample: test\_HLA2

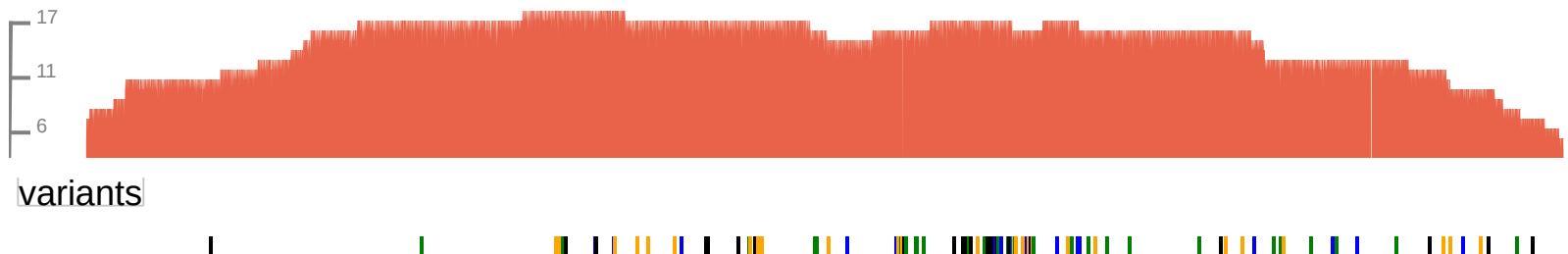
Locus: HLA-DRB1

Resolution: 4th field

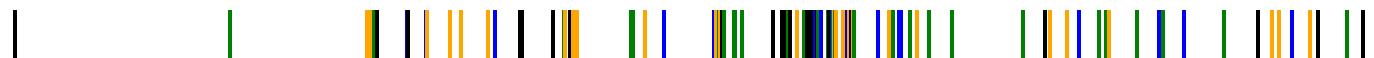
Full typing result:

HLA-DRB1*11:01:01:14	HLA-DRB1*11:01:01:03	HLA-DRB1*11:01:01:01
HLA-DRB1*11:01:01:09	HLA-DRB1*11:01:01:21	HLA-DRB1*11:01:03
HLA-DRB1*11:08:01	HLA-DRB1*11:12:01	HLA-DRB1*11:19:01
HLA-DRB1*11:24:01	HLA-DRB1*11:28:01:01	HLA-DRB1*11:29:01
HLA-DRB1*11:37:01	HLA-DRB1*11:01:01:04	HLA-DRB1*11:01:01:19

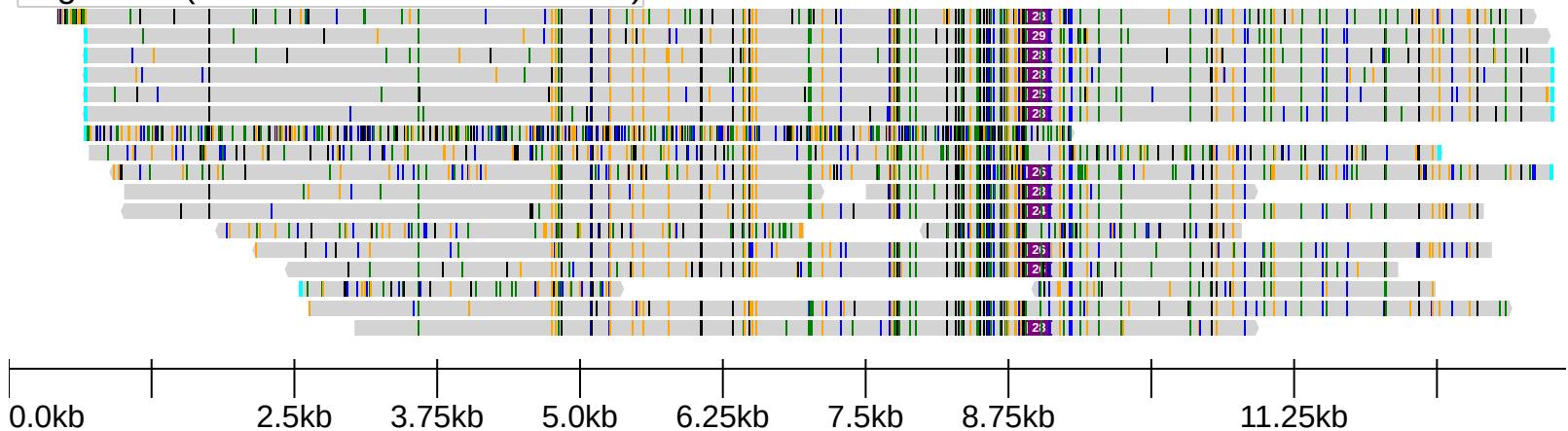
bam coverage



variants



Alignment (reference: constructed het 2)



HLA-DRB1\*11:01:01:14 (identity: 100.00%)



HLA-DRB1\*11:01:01:03 (identity: 100.00%)



HLA-DRB1\*11:01:01:01 (identity: 99.95%)



HLA-DRB1\*11:01:01:09 (identity: 100.00%)



HLA-DRB1\*11:01:01:21 (identity: 100.00%)



HLA-DRB1\*11:01:03 (identity: 100.00%)



HLA-DRB1\*11:08:01 (identity: 100.00%)



HLA-DRB1\*11:12:01 (identity: 100.00%)



HLA-DRB1\*11:19:01 (identity: 100.00%)



HLA-DRB1\*11:24:01 (identity: 100.00%)



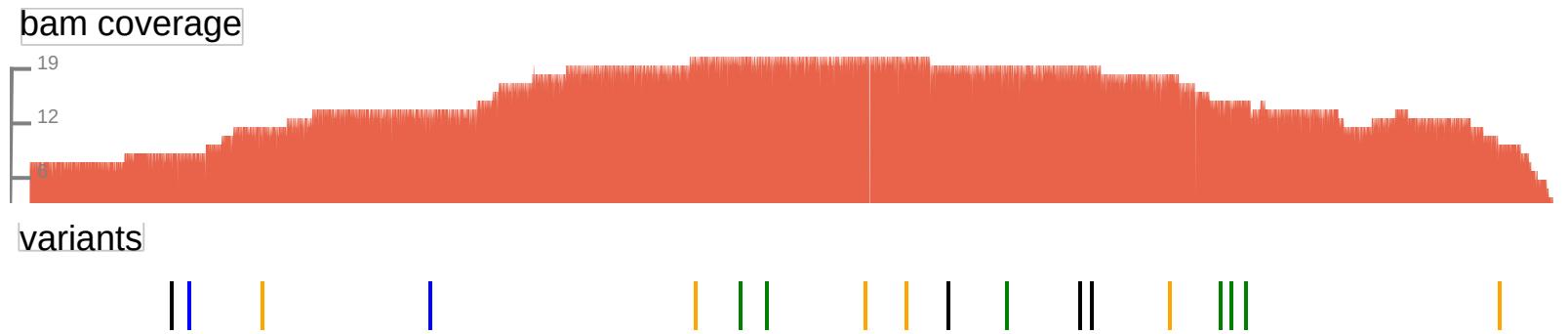
# Sample: test\_HLA2

Locus: MICA

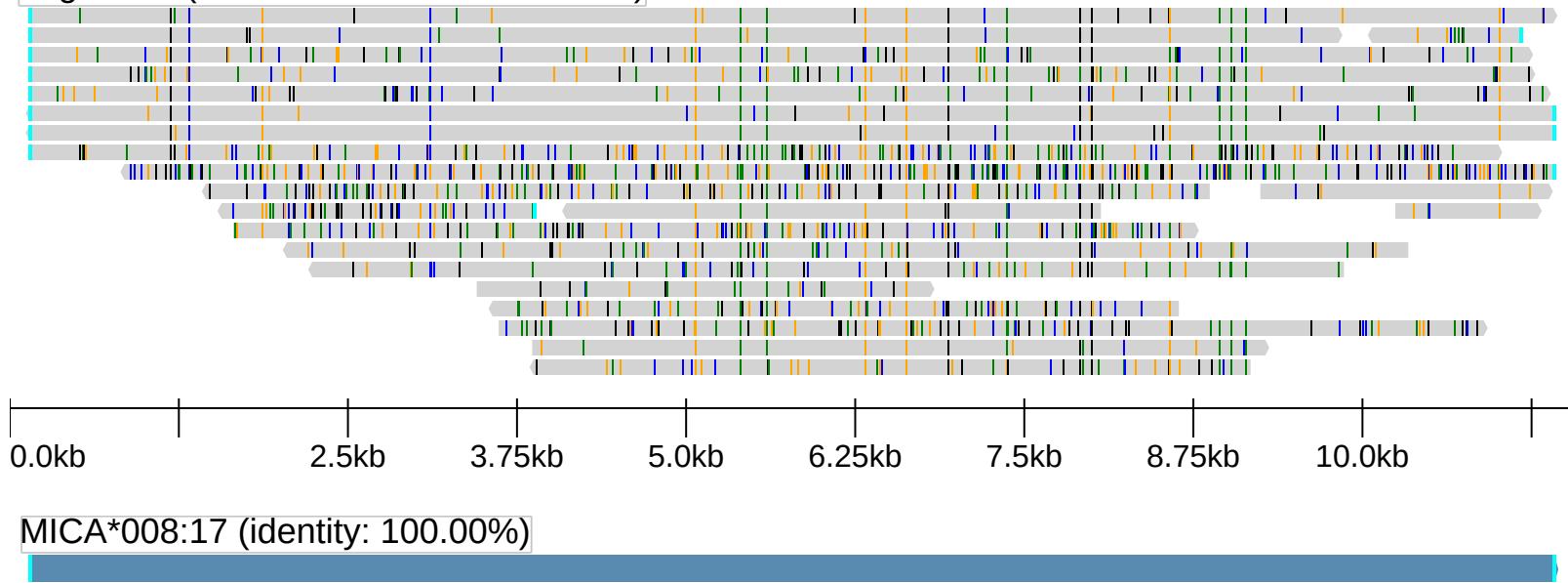
Resolution: 4th field

Full typing result:

MICA\*008:17



Alignment (reference: constructed het 2)



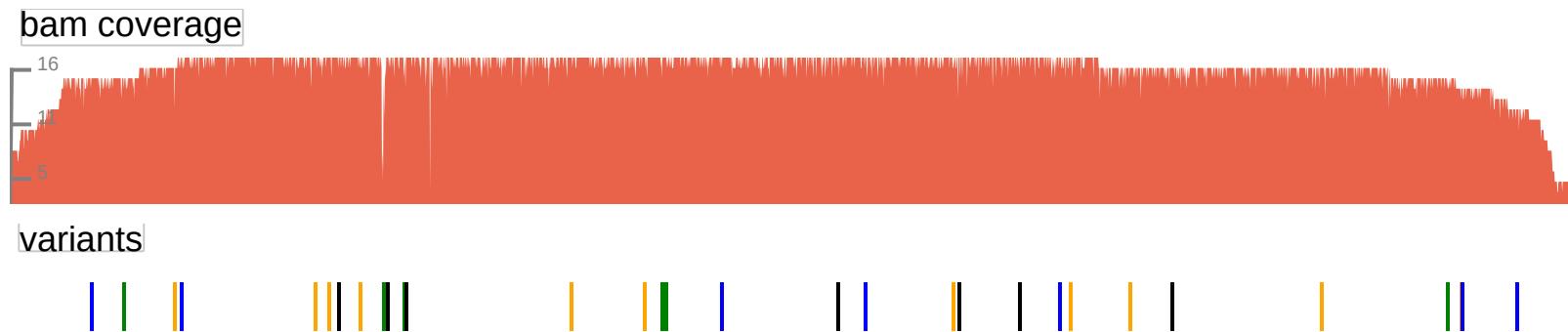
# Sample: test\_HLA2

Locus: HLA-P

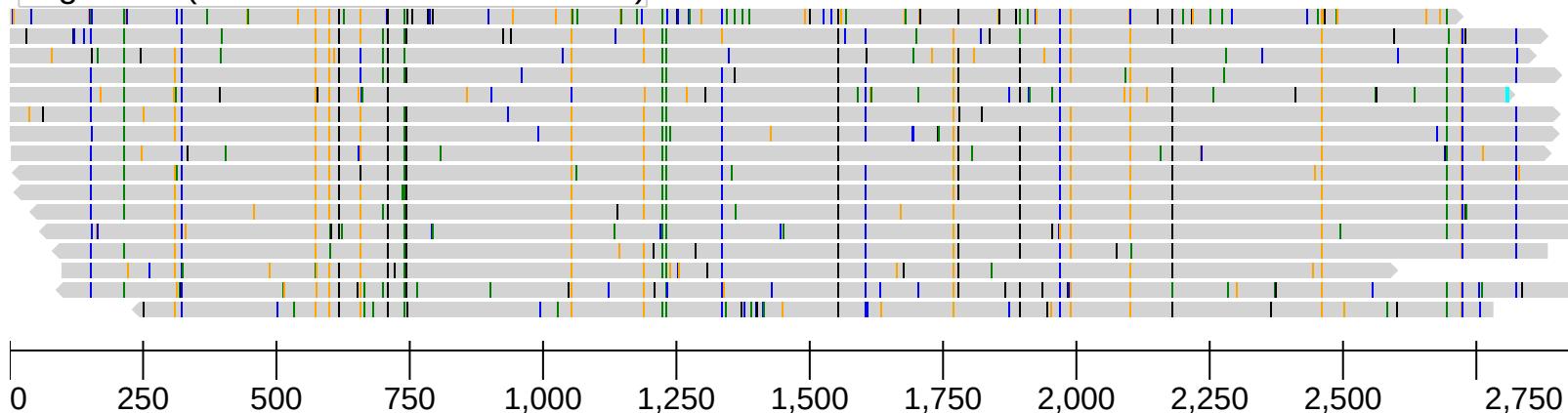
Resolution: 4th field

Full typing result:

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



Alignment (reference: constructed het 2)



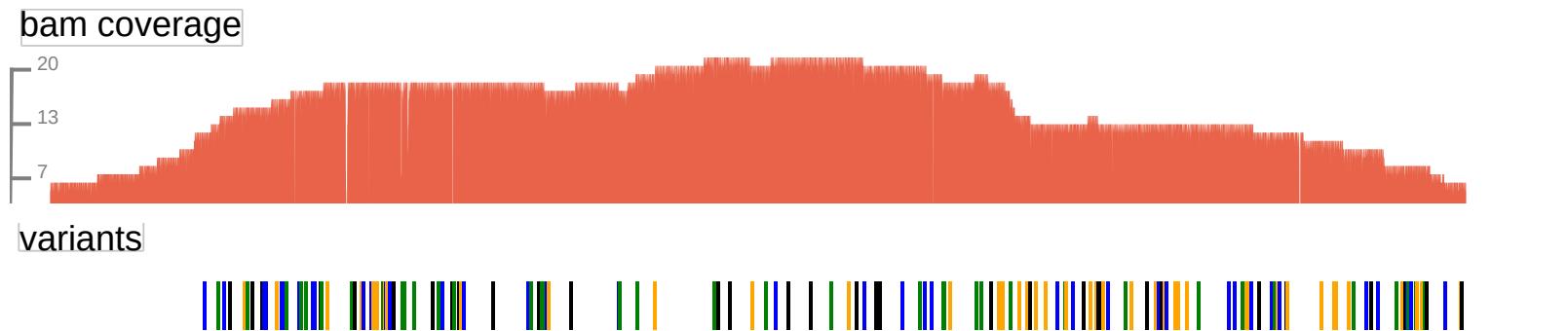
**Sample: test\_HLA2**

**Locus: HLA-DPB2**

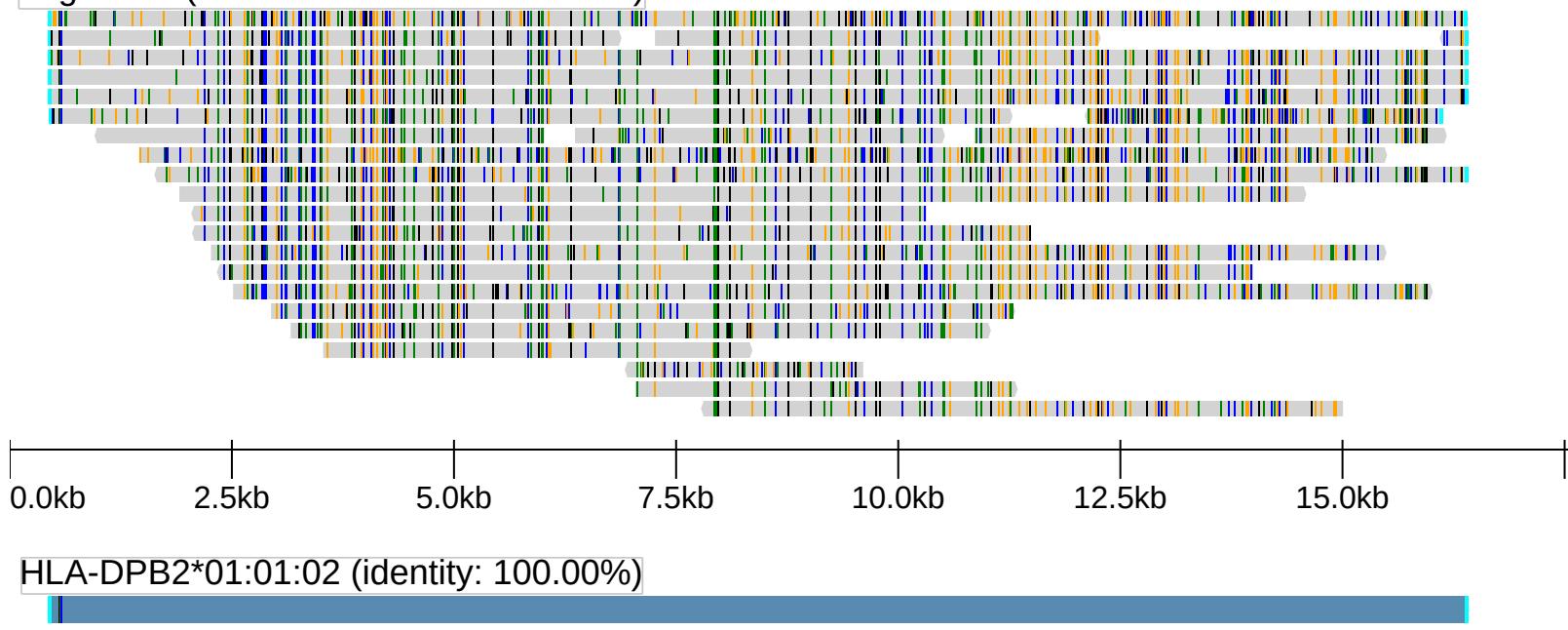
**Resolution: 4th field**

**Full typing result:**

**HLA-DPB2\*01:01:02**



Alignment (reference: constructed het 2)



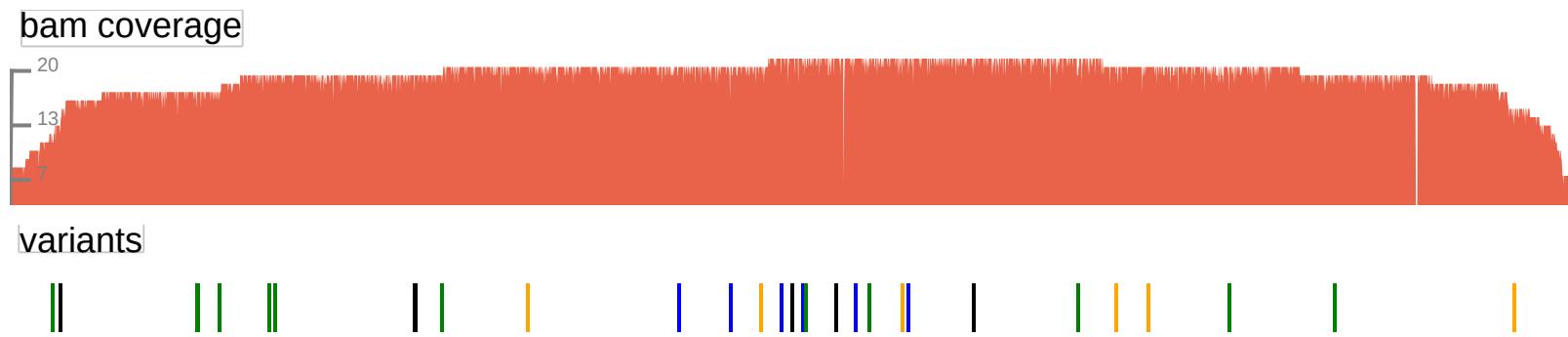
# Sample: test\_HLA2

Locus: HLA-J

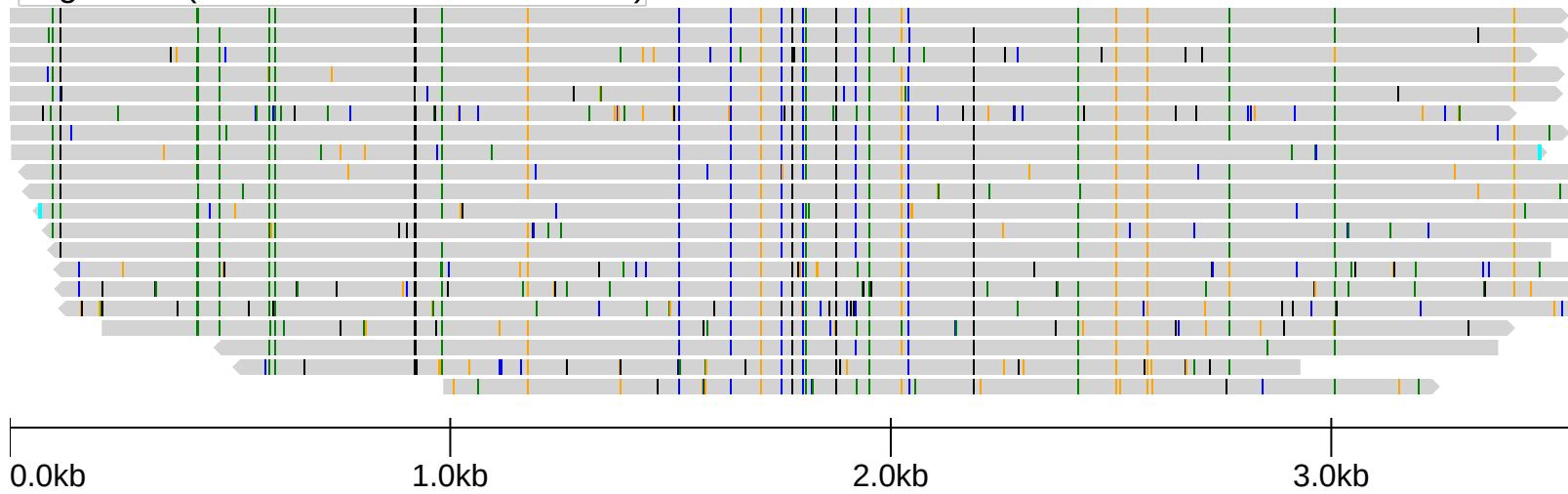
Resolution: 4th field

Full typing result:

HLA-J\*01:01:01:06



Alignment (reference: constructed het 2)



HLA-J\*01:01:01:06 (identity: 100.00%)

**Sample: test\_HLA2**

**Locus: HLA-DPB2**

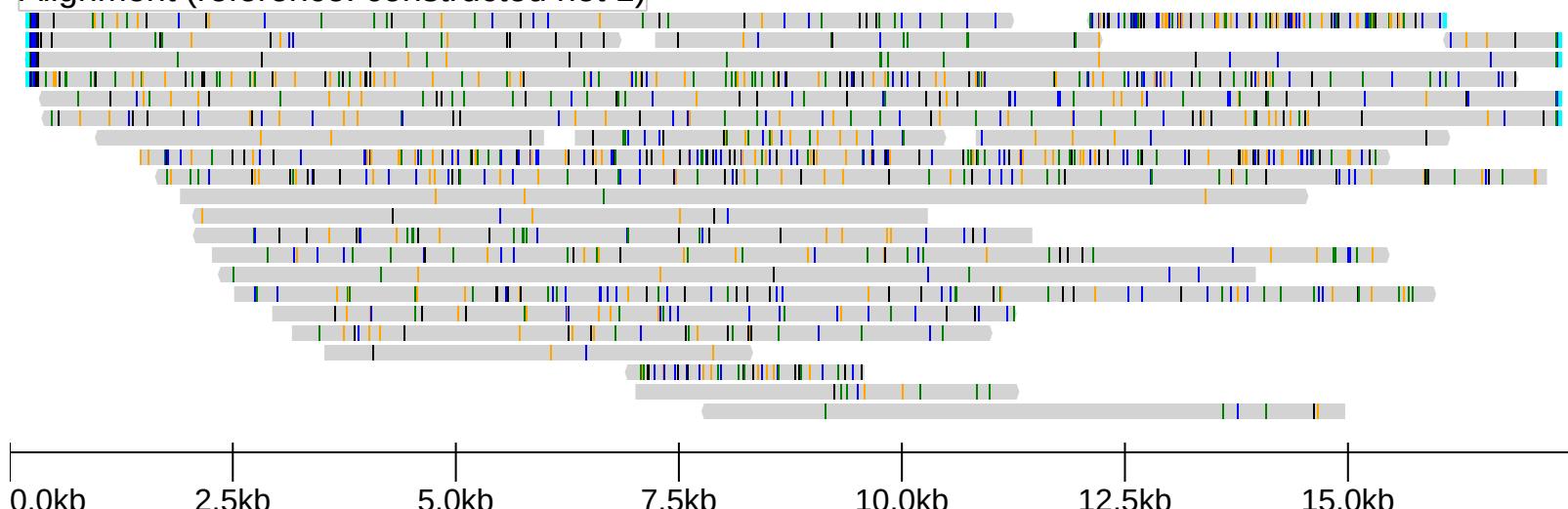
**Resolution: 4th field**

**Full typing result:**

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



**Alignment (reference: constructed het 1)**



**HLA-DPB2\*03:01:01:03 (identity: 100.00%)**

**Sample: test\_HLA2**

**Locus: TAP1**

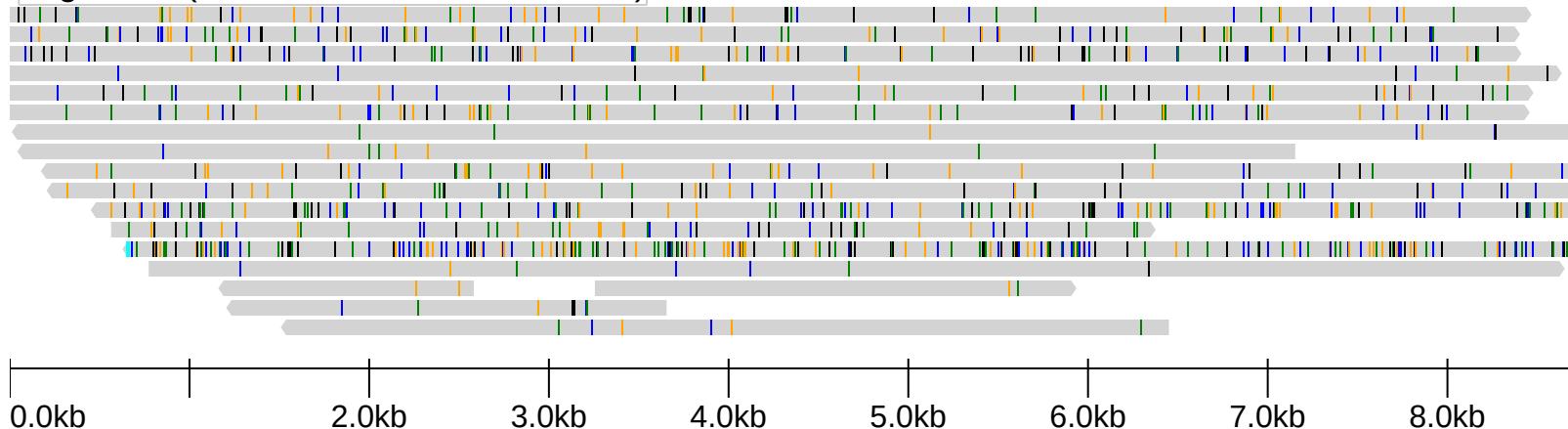
**Resolution: 4th field**

**Full typing result:**

**TAP1\*01:03**



Alignment (reference: constructed het 1)



**TAP1\*01:03 (identity: 100.00%)**

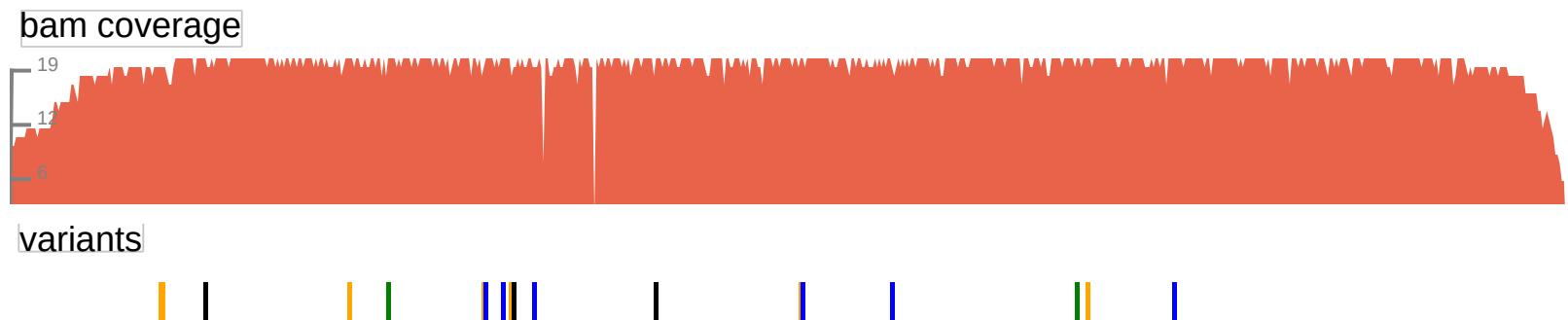
# Sample: test\_HLA2

Locus: HLA-U

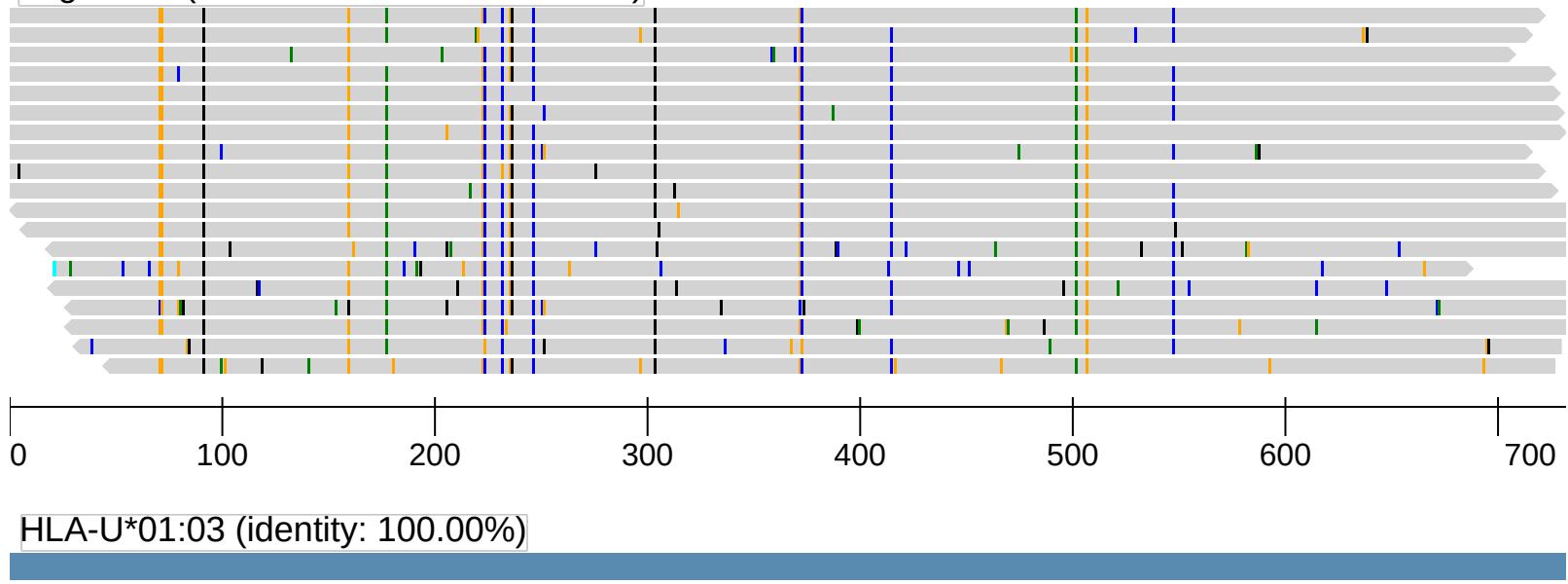
Resolution: 4th field

Full typing result:

HLA-U\*01:03



Alignment (reference: constructed het 2)



# Sample: test\_HLA2

Locus: HLA-DRB3

Resolution: 4th field

Full typing result:

HLA-DRB3*02:02:01:09	HLA-DRB3*02:02:01:08	HLA-DRB3*02:02:01:06
HLA-DRB3*02:02:01:07	HLA-DRB3*02:02:01:11	HLA-DRB3*02:02:01:13
HLA-DRB3*02:02:01:02	HLA-DRB3*02:02:01:10	HLA-DRB3*02:193

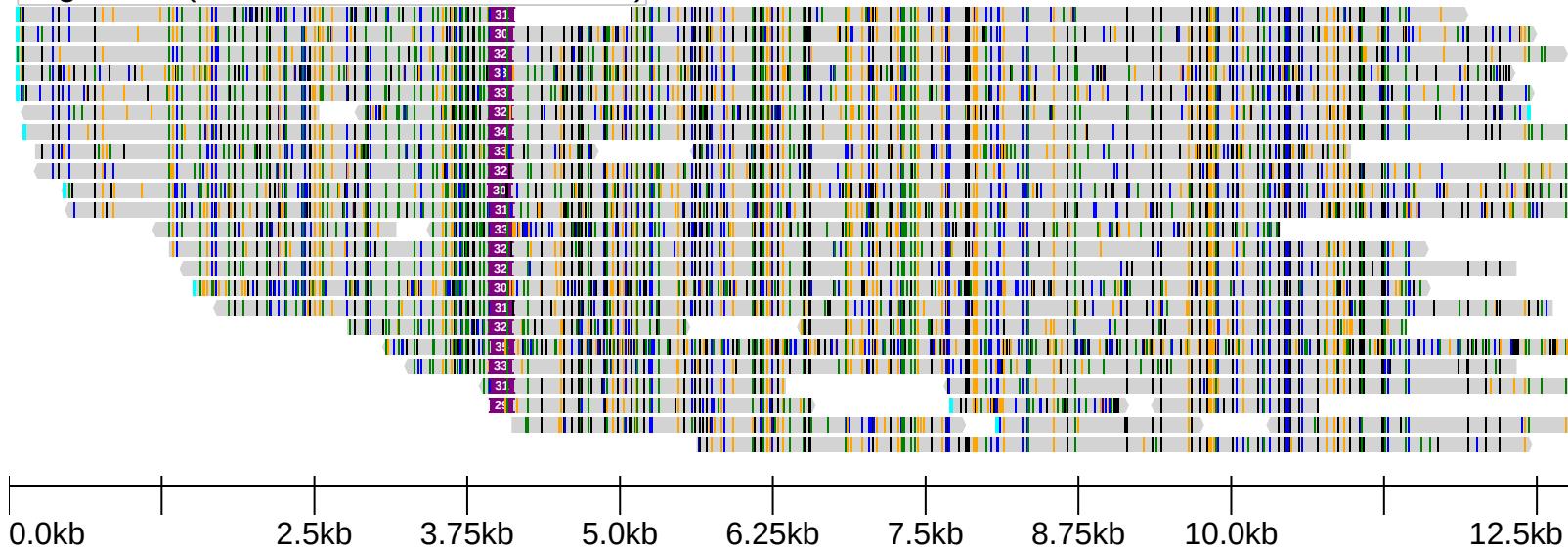
bam coverage



variants



Alignment (reference: constructed het 2)



HLA-DRB3\*02:02:01:09 (identity: 100.00%)

HLA-DRB3\*02:02:01:08 (identity: 99.99%)

HLA-DRB3\*02:02:01:06 (identity: 99.98%)

HLA-DRB3\*02:02:01:07 (identity: 99.99%)

HLA-DRB3\*02:02:01:11 (identity: 99.90%)

HLA-DRB3\*02:02:01:13 (identity: 99.95%)

HLA-DRB3\*02:02:01:02 (identity: 99.98%)

HLA-DRB3\*02:02:01:10 (identity: 99.99%)

HLA-DRB3\*02:193 (identity: 99.97%)

**Sample: test\_HLA2**

**Locus: HLA-DOB**

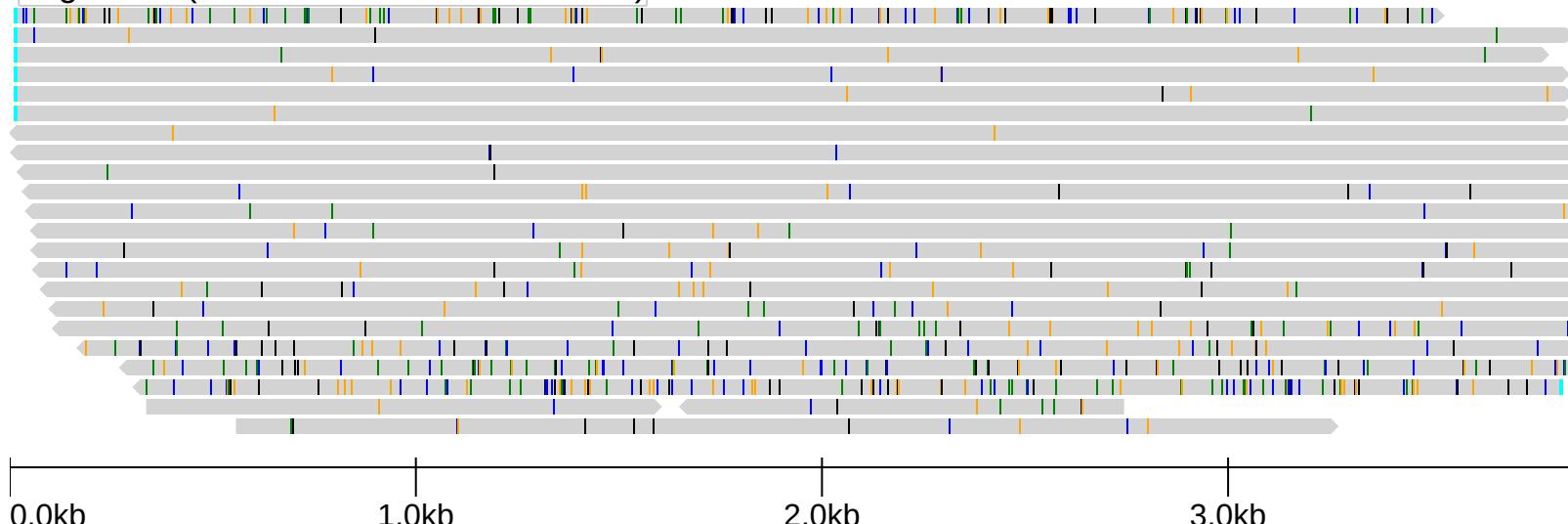
**Resolution: 4th field**

**Full typing result:**

**HLA-DOB\*01:11**



Alignment (reference: constructed het 1)



**HLA-DOB\*01:11 (identity: 100.00%)**

# Sample: test\_HLA2

Locus: HLA-DRA

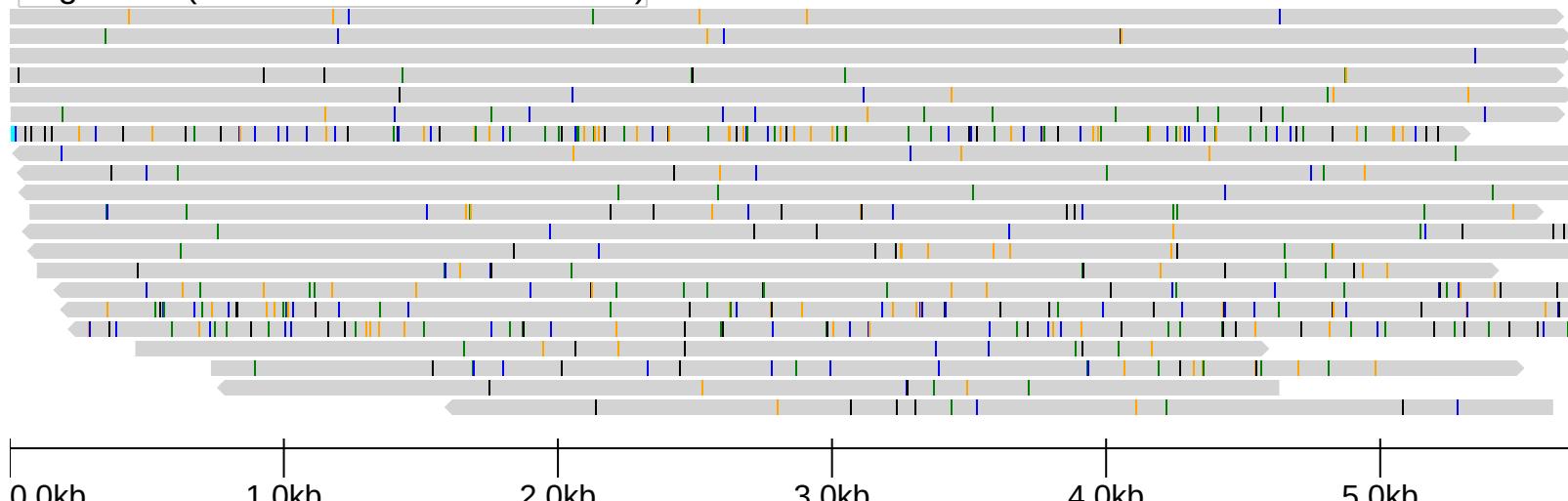
Resolution: 4th field

Full typing result:

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



Alignment (reference: constructed het 1)



HLA-DRA\*01:02:02:13 (identity: 100.00%)

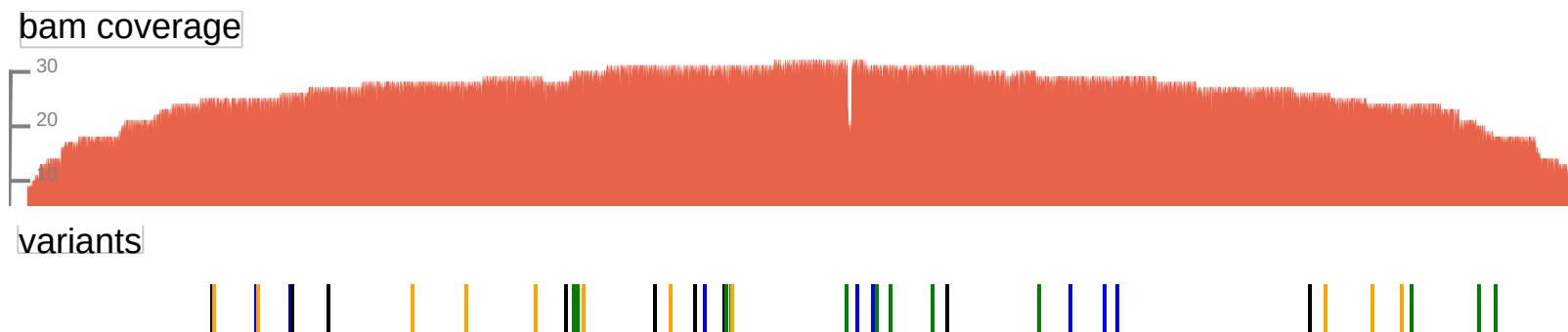
# Sample: test\_HLA2

Locus: HLA-DPA2

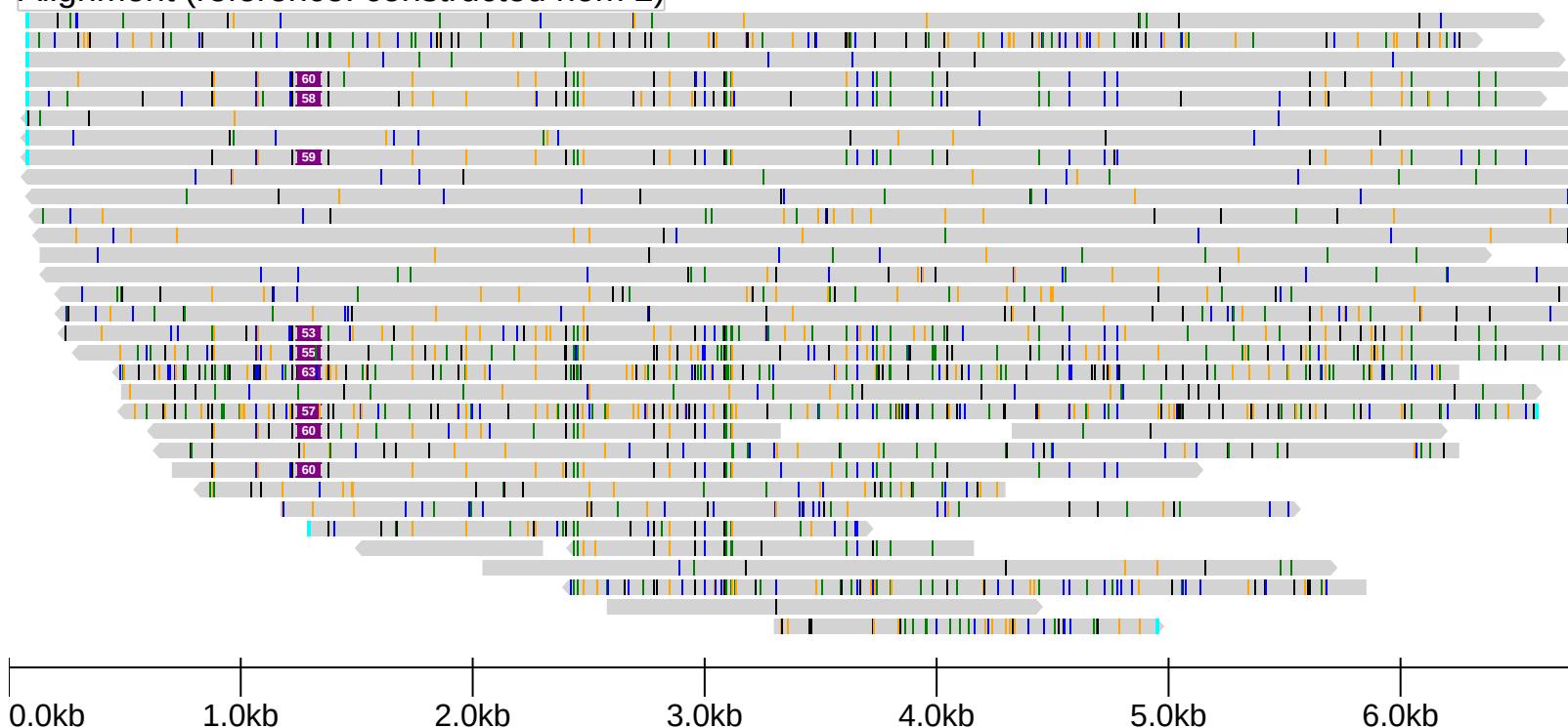
Resolution: 4th field

Full typing result:

HLA-DPA2\*01:01:01:02      HLA-DPA2\*01:01:01:03



Alignment (reference: constructed hom 2)



HLA-DPA2\*01:01:01:02 (identity: 100.00%)

HLA-DPA2\*01:01:01:03 (identity: 100.00%)

**Sample: test\_HLA2**

**Locus: HLA-DMA**

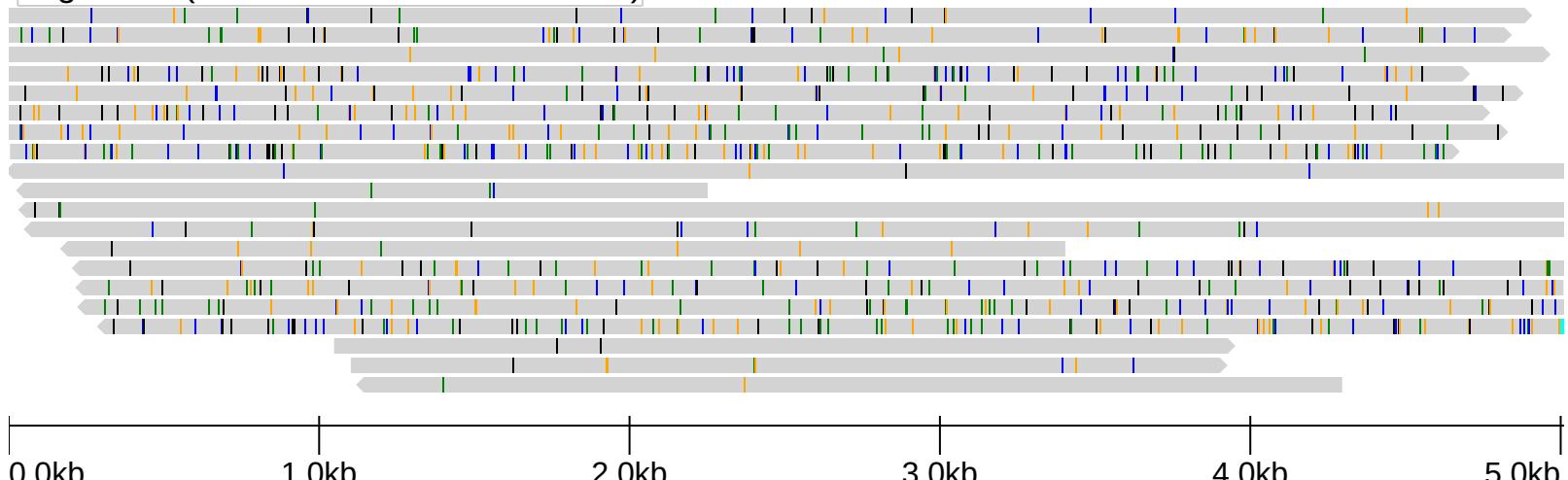
**Resolution: 4th field**

**Full typing result:**

**HLA-DMA\*01:01:01:41**



Alignment (reference: constructed het 1)



**HLA-DMA\*01:01:01:41 (identity: 100.00%)**

# Sample: test\_HLA2

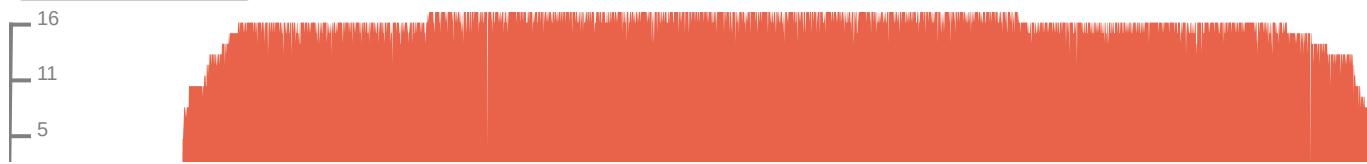
Locus: HLA-C

Resolution: 4th field

Full typing result:

HLA-C*01:03:01	HLA-C*01:146:02	HLA-C*01:03:03
HLA-C*01:03:02	HLA-C*01:231N	HLA-C*01:02:01:01
HLA-C*01:02:01:05	HLA-C*01:02:01:71	HLA-C*01:02:01:72
HLA-C*01:02:01:66		

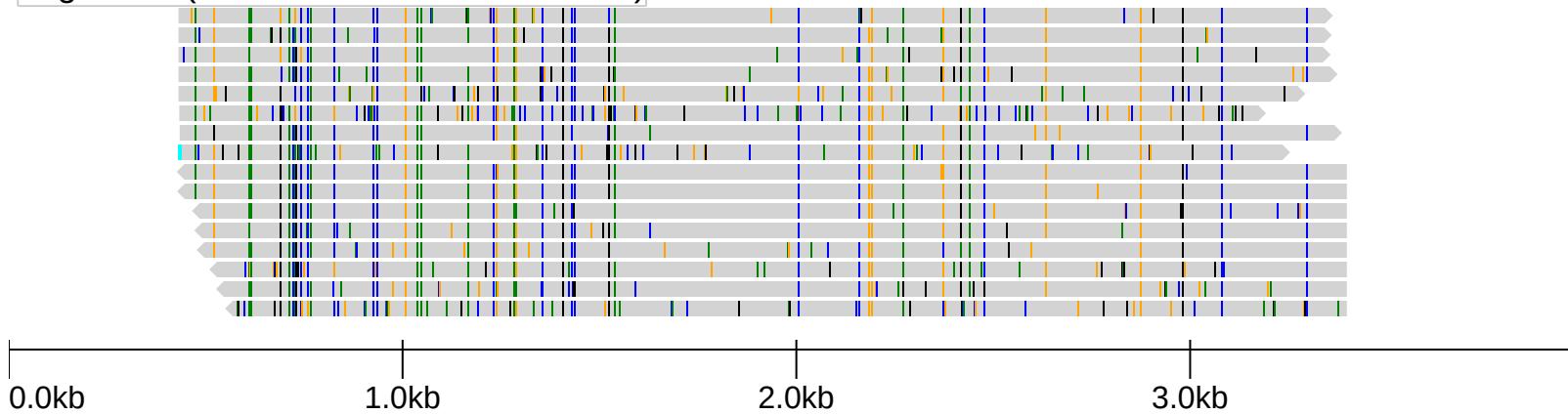
bam coverage



variants



Alignment (reference: constructed het 2)



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



HLA-C\*01:146:02 (identity: 100.00%)



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



HLA-C\*01:231N (identity: 99.22%)



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



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



HLA-C\*01:02:01:71 (identity: 100.00%)



HLA-C\*01:02:01:72 (identity: 100.00%)



HLA-C\*01:02:01:66 (identity: 100.00%)



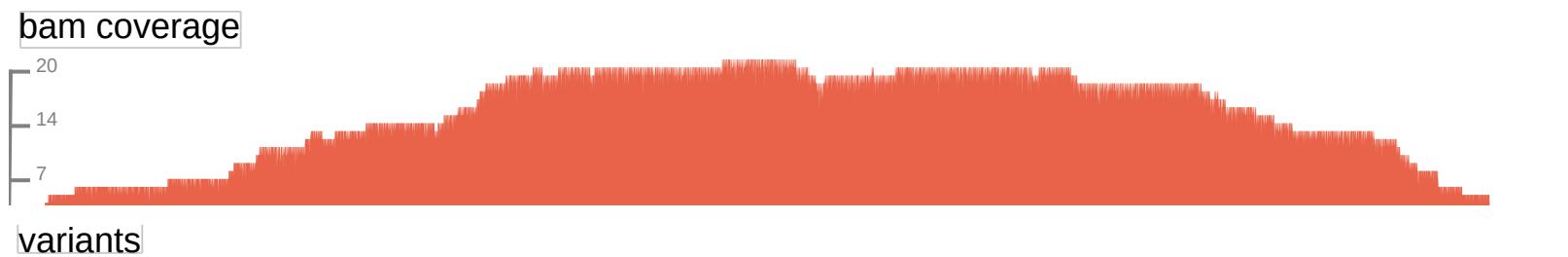
# Sample: test\_HLA2

Locus: HLA-DRB5

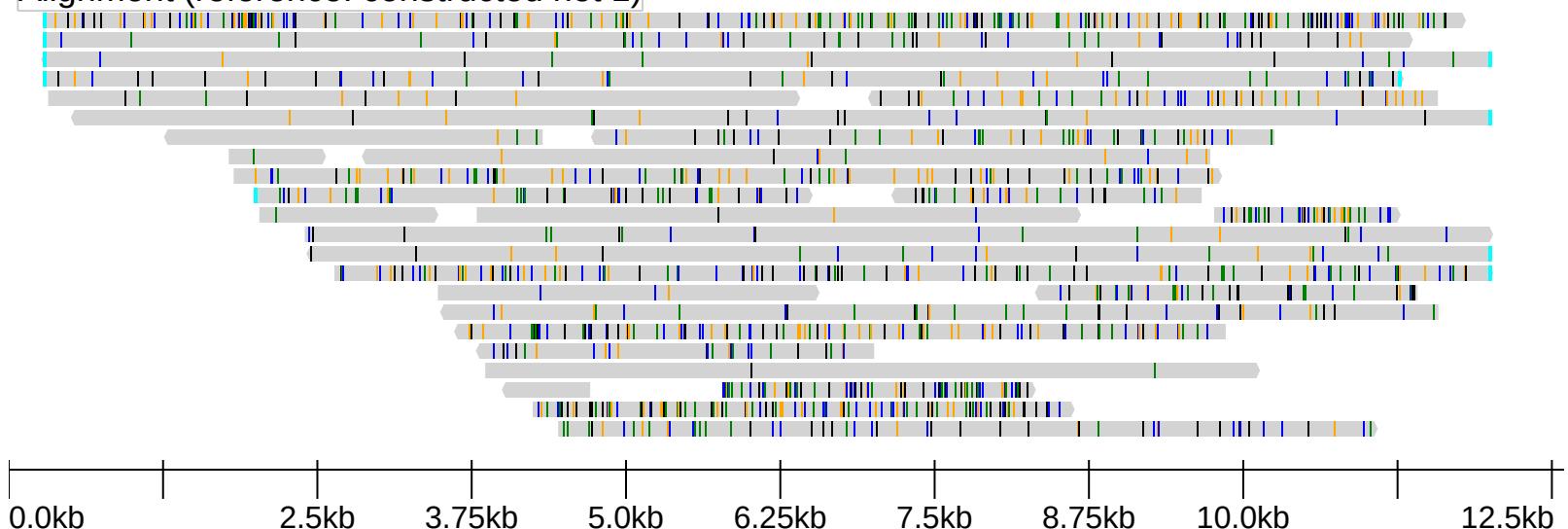
Resolution: 4th field

Full typing result:

HLA-DRB5*01:01:01:04	HLA-DRB5*01:01:01:02	HLA-DRB5*01:01:01:06
HLA-DRB5*01:01:01:01	HLA-DRB5*01:01:01:03	HLA-DRB5*01:01:01:05



Alignment (reference: constructed het 1)



HLA-DRB5\*01:01:01:04 (identity: 100.00%)

HLA-DRB5\*01:01:01:02 (identity: 99.94%)

HLA-DRB5\*01:01:01:06 (identity: 99.99%)

HLA-DRB5\*01:01:01:01 (identity: 99.94%)

HLA-DRB5\*01:01:01:03 (identity: 99.95%)

HLA-DRB5\*01:01:01:05 (identity: 99.94%)

# Sample: test\_HLA2

Locus: HLA-A

Resolution: 4th field

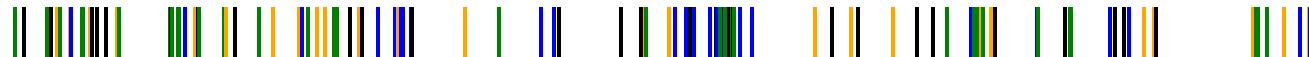
Full typing result:

HLA-A\*30:02:01:18

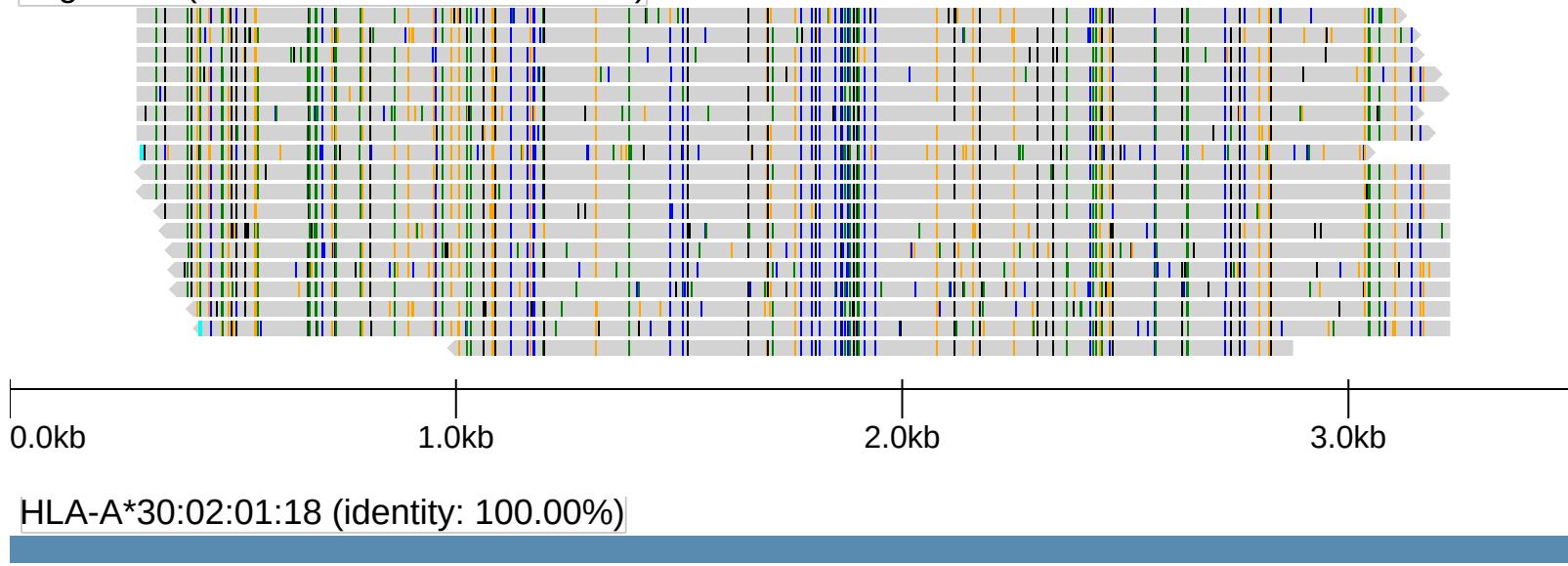
bam coverage



variants



Alignment (reference: constructed het 2)



# Sample: test\_HLA2

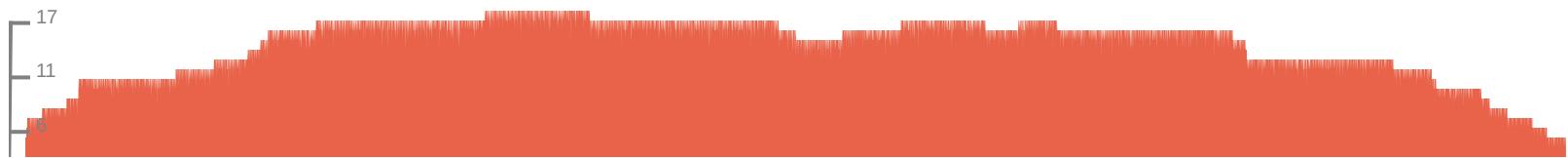
Locus: HLA-DRB1

Resolution: 4th field

Full typing result:

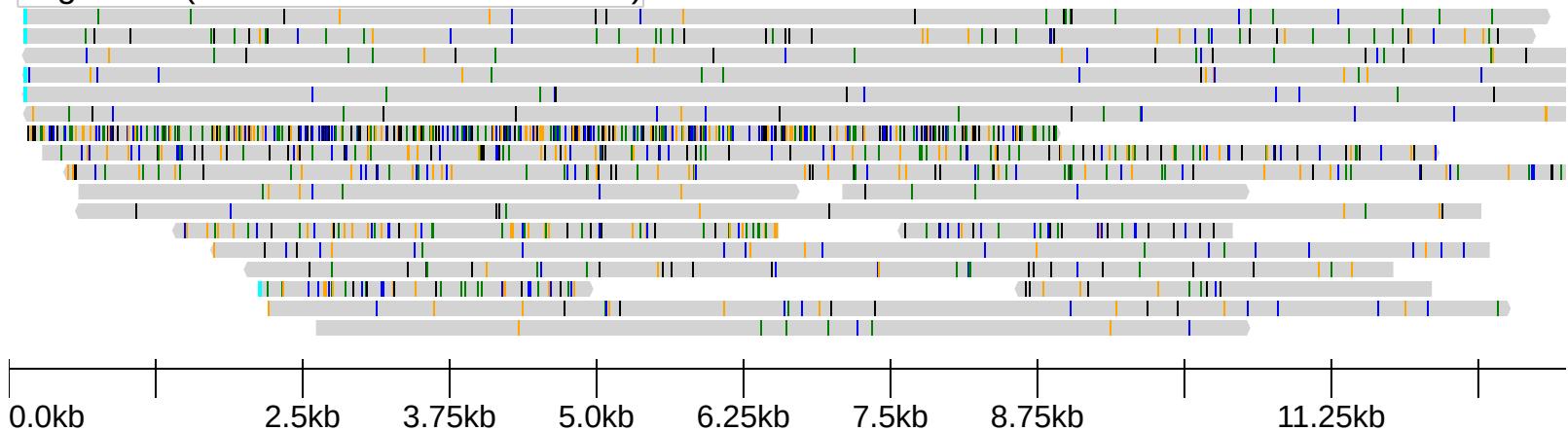
HLA-DRB1*12:01:01:14	HLA-DRB1*12:01:01:03	HLA-DRB1*12:01:01:08
HLA-DRB1*12:01:01:04	HLA-DRB1*12:01:01:07	HLA-DRB1*12:01:01:09
HLA-DRB1*12:01:01:10	HLA-DRB1*12:01:01:12	HLA-DRB1*12:01:01:15
HLA-DRB1*12:95	HLA-DRB1*12:01:01:05	HLA-DRB1*12:01:01:06

bam coverage



variants

Alignment (reference: constructed het 1)



HLA-DRB1\*12:01:01:14 (identity: 100.00%)

HLA-DRB1\*12:01:01:03 (identity: 99.98%)

HLA-DRB1\*12:01:01:08 (identity: 99.92%)

HLA-DRB1\*12:01:01:04 (identity: 99.88%)

HLA-DRB1\*12:01:01:07 (identity: 99.92%)

HLA-DRB1\*12:01:01:09 (identity: 99.98%)

HLA-DRB1\*12:01:01:10 (identity: 99.92%)

HLA-DRB1\*12:01:01:12 (identity: 99.98%)

HLA-DRB1\*12:01:01:15 (identity: 99.95%)

HLA-DRB1\*12:95 (identity: 99.98%)

# Sample: test\_HLA2

Locus: HLA-L

Resolution: 4th field

Full typing result:

HLA-L\*01:01:02

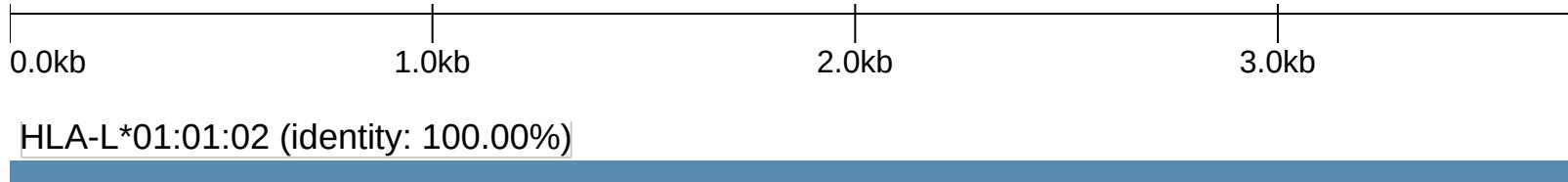
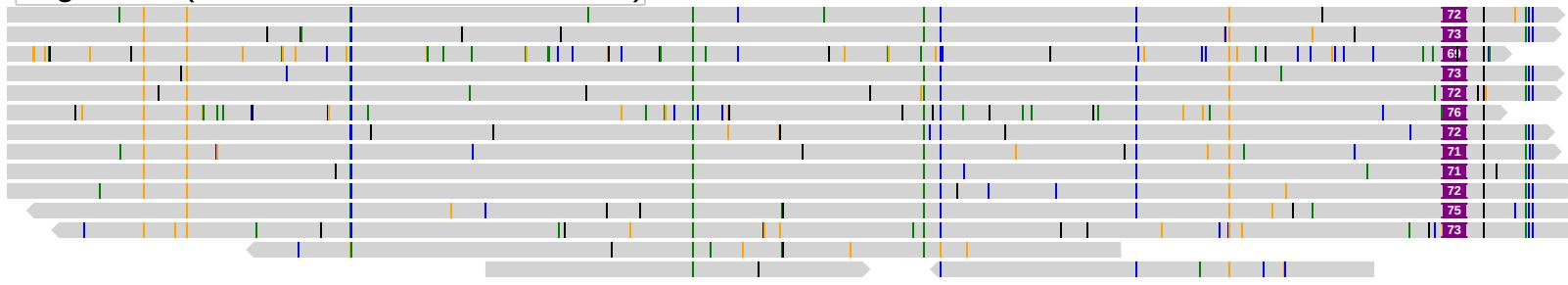
bam coverage



variants



Alignment (reference: constructed het 2)



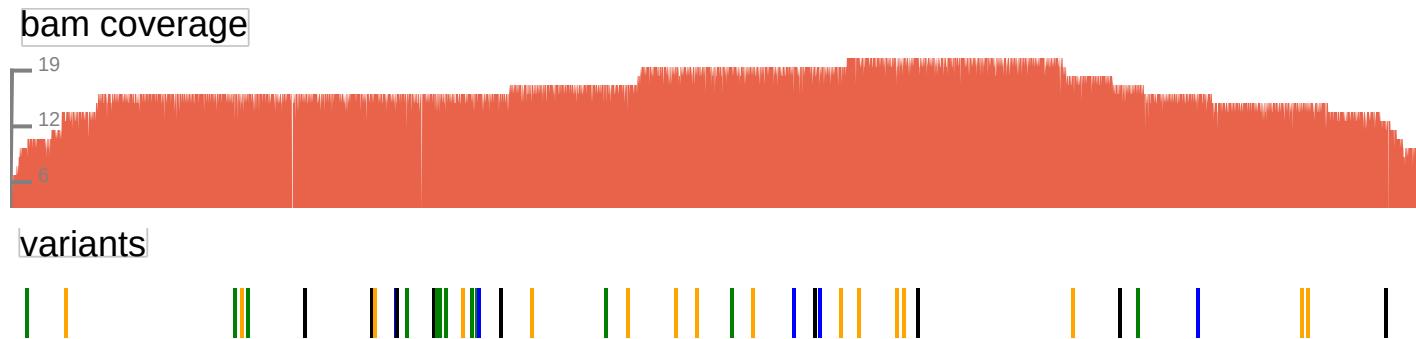
**Sample: test\_HLA2**

**Locus: HLA-DQA2**

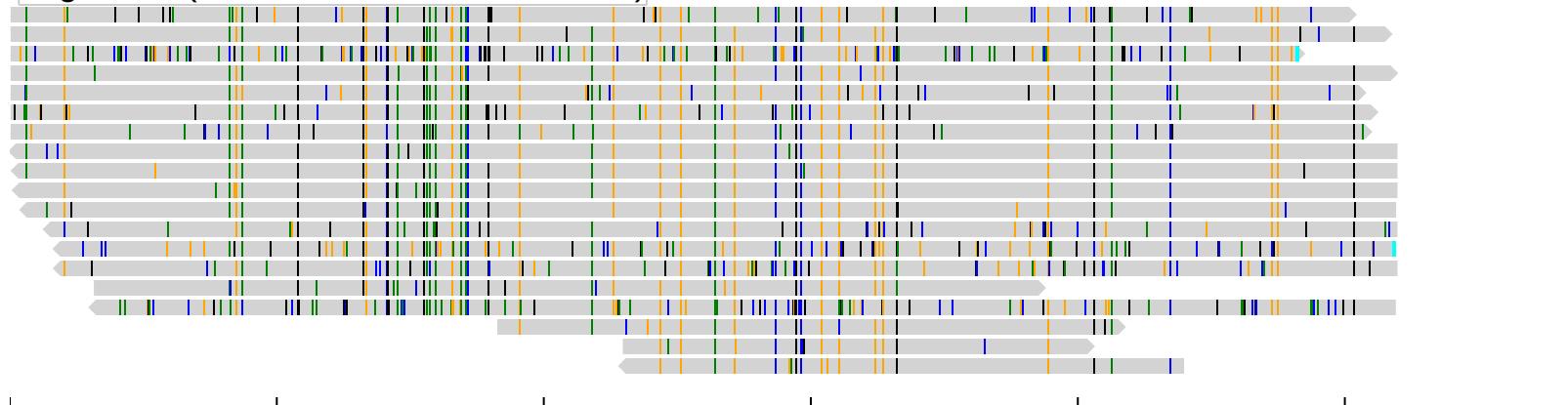
**Resolution: 4th field**

**Full typing result:**

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



Alignment (reference: constructed het 2)



**HLA-DQA2\*01:01:01:02 (identity: 100.00%)**

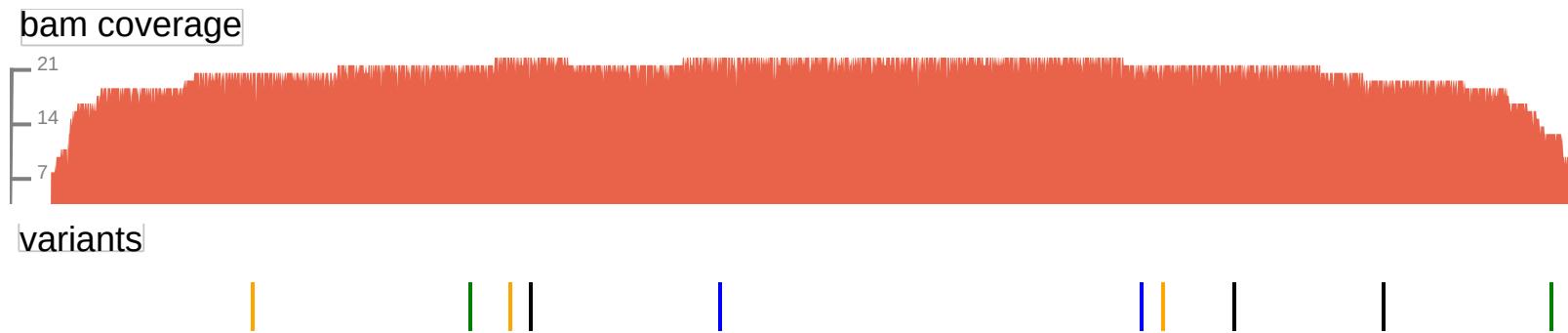
# Sample: test\_HLA2

Locus: HLA-G

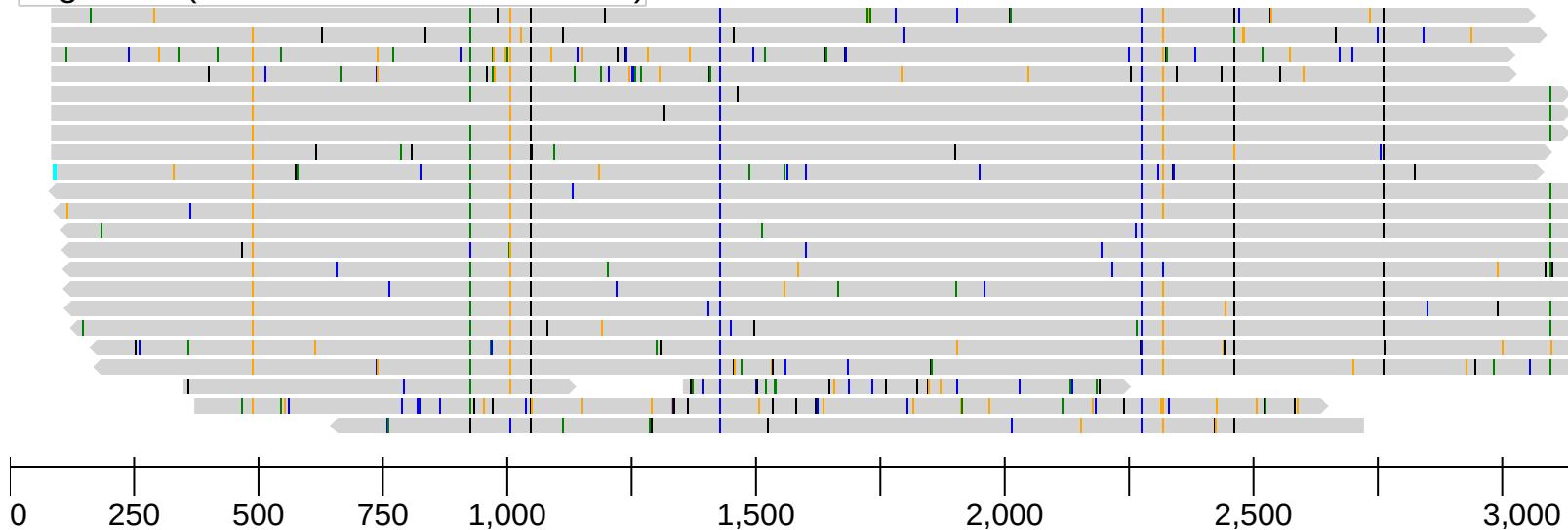
Resolution: 4th field

Full typing result:

HLA-G\*01:45



Alignment (reference: constructed het 2)



HLA-G\*01:45 (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-DPA2

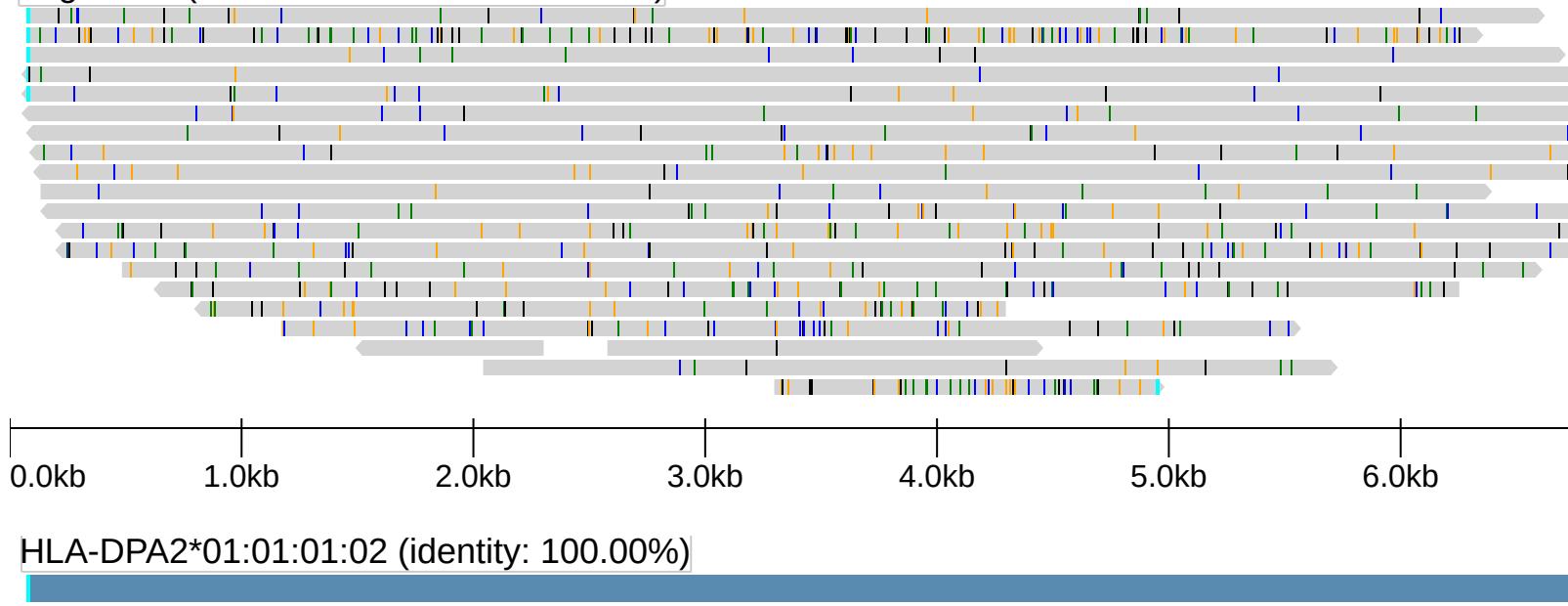
Resolution: 4th field

Full typing result:

HLA-DPA2\*01:01:01:02



Alignment (reference: constructed hom 1)



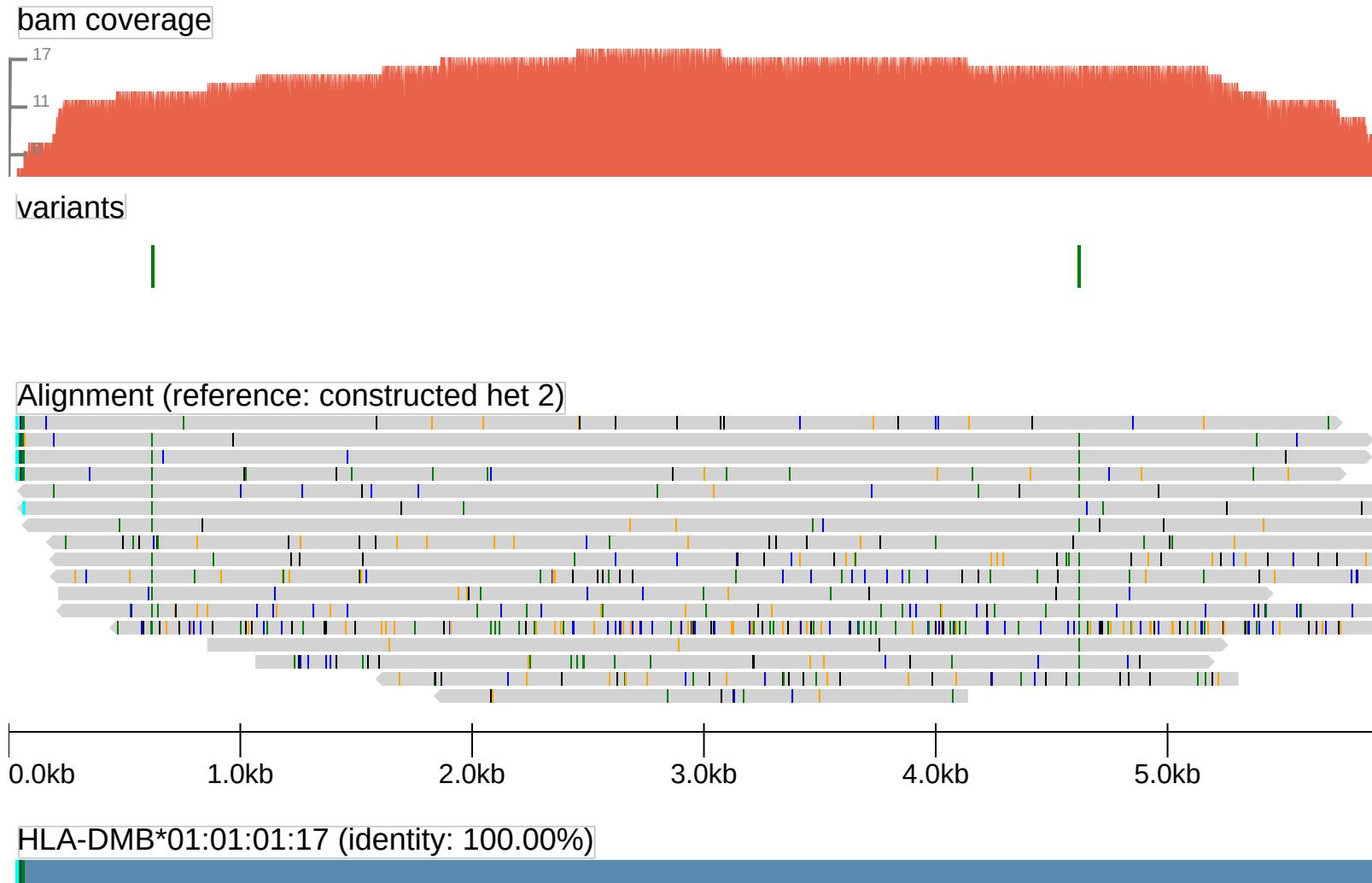
**Sample: test\_HLA2**

**Locus: HLA-DMB**

**Resolution: 4th field**

**Full typing result:**

**HLA-DMB\*01:01:01:17**



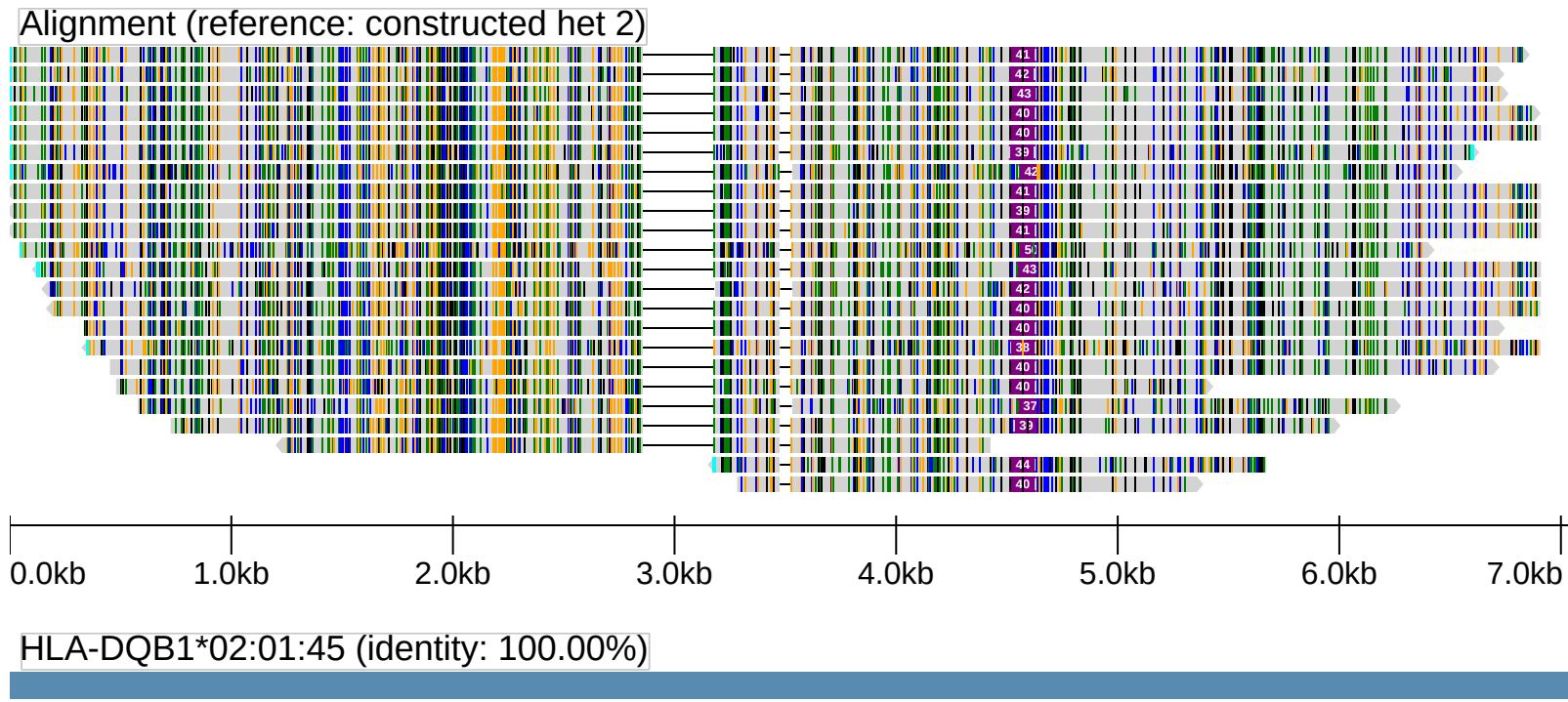
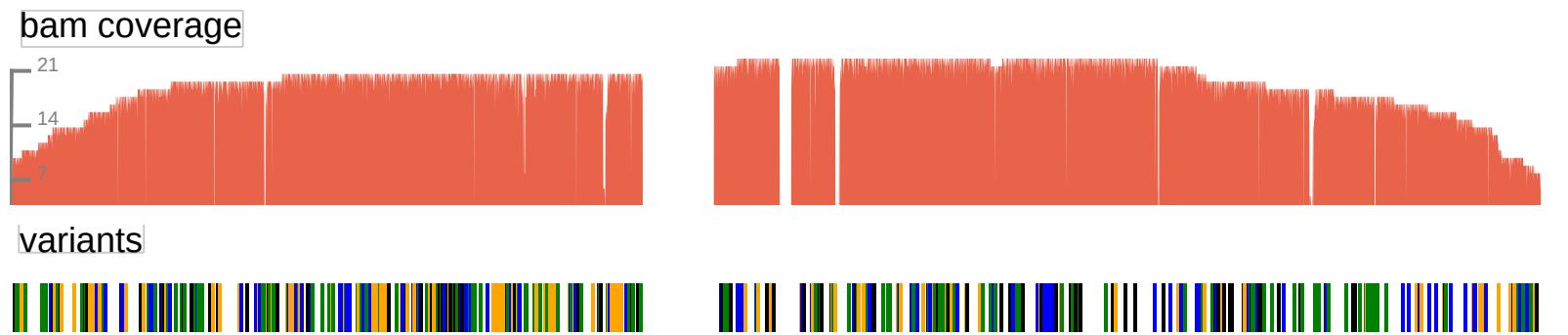
# Sample: test\_HLA2

Locus: HLA-DQB1

Resolution: 4th field

Full typing result:

HLA-DQB1\*02:01:45



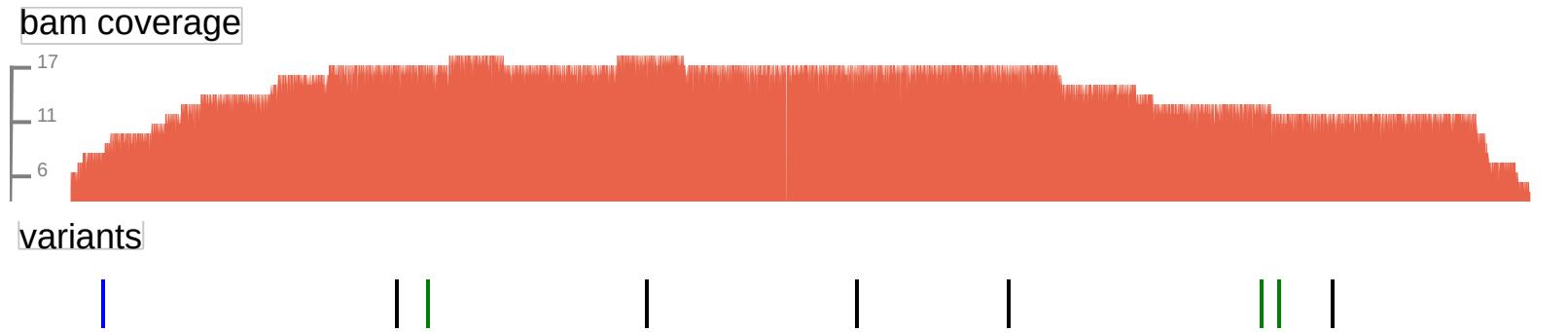
**Sample: test\_HLA2**

**Locus: TAP1**

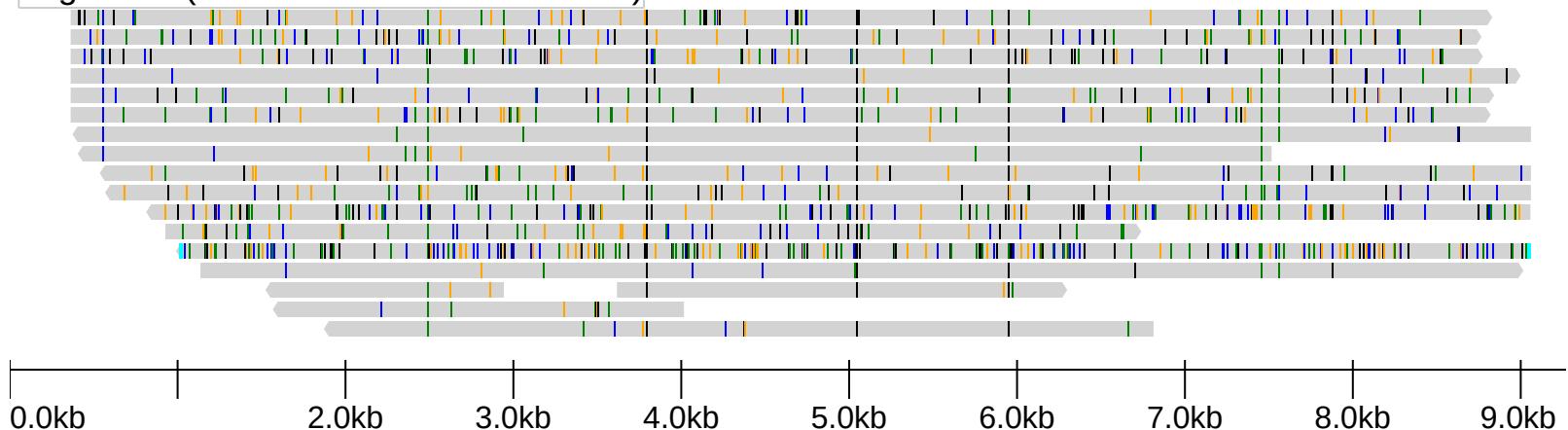
**Resolution: 4th field**

**Full typing result:**

TAP1\*01:01:01:05



Alignment (reference: constructed het 2)



TAP1\*01:01:01:05 (identity: 100.00%)

**Sample: test\_HLA2**

**Locus: HLA-K**

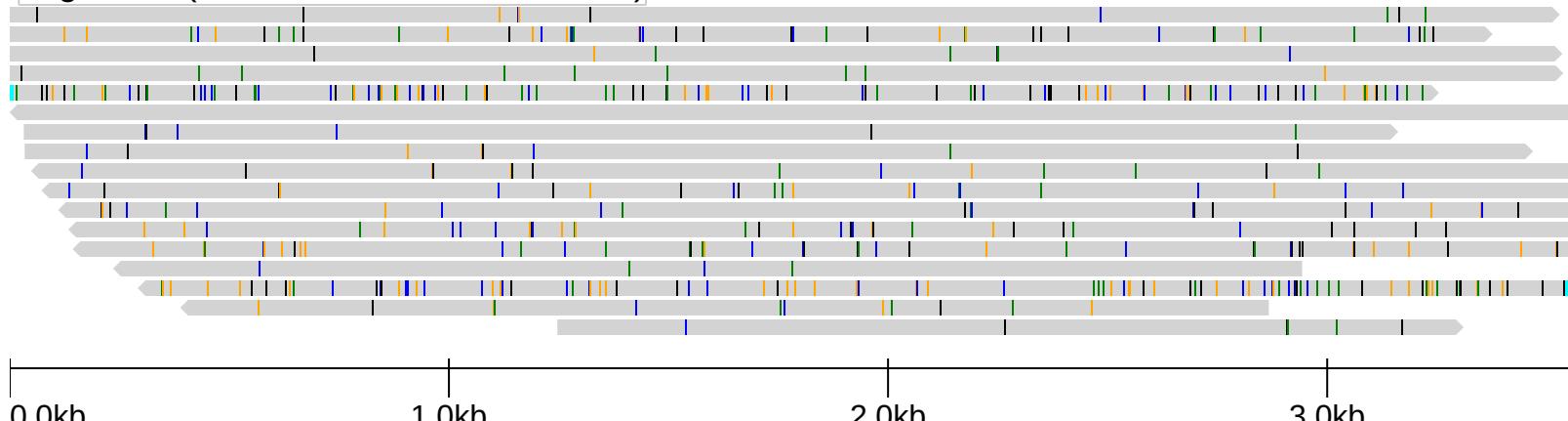
**Resolution: 4th field**

**Full typing result:**

**HLA-K\*01:02**



Alignment (reference: constructed het 1)



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

# Sample: test\_HLA2

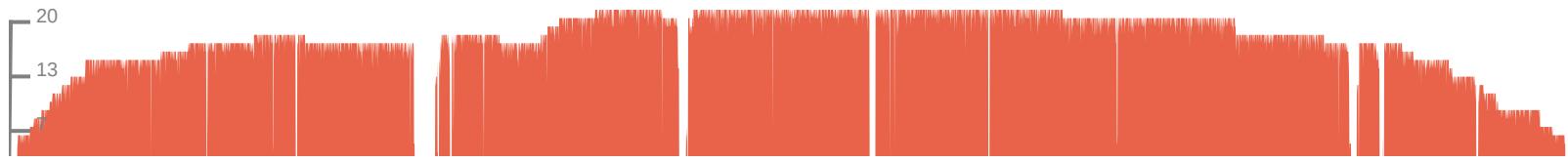
Locus: HLA-DQA1

Resolution: 4th field

Full typing result:

HLA-DQA1*05:05:01:35	HLA-DQA1*05:05:01:36	HLA-DQA1*05:05:01:27
HLA-DQA1*05:05:01:29	HLA-DQA1*05:05:01:30	HLA-DQA1*05:05:01:01
HLA-DQA1*05:05:01:02	HLA-DQA1*05:05:01:32	HLA-DQA1*05:05:01:09
HLA-DQA1*05:05:01:03	HLA-DQA1*05:05:01:24	HLA-DQA1*05:65:01:03
HLA-DQA1*05:05:01:28		

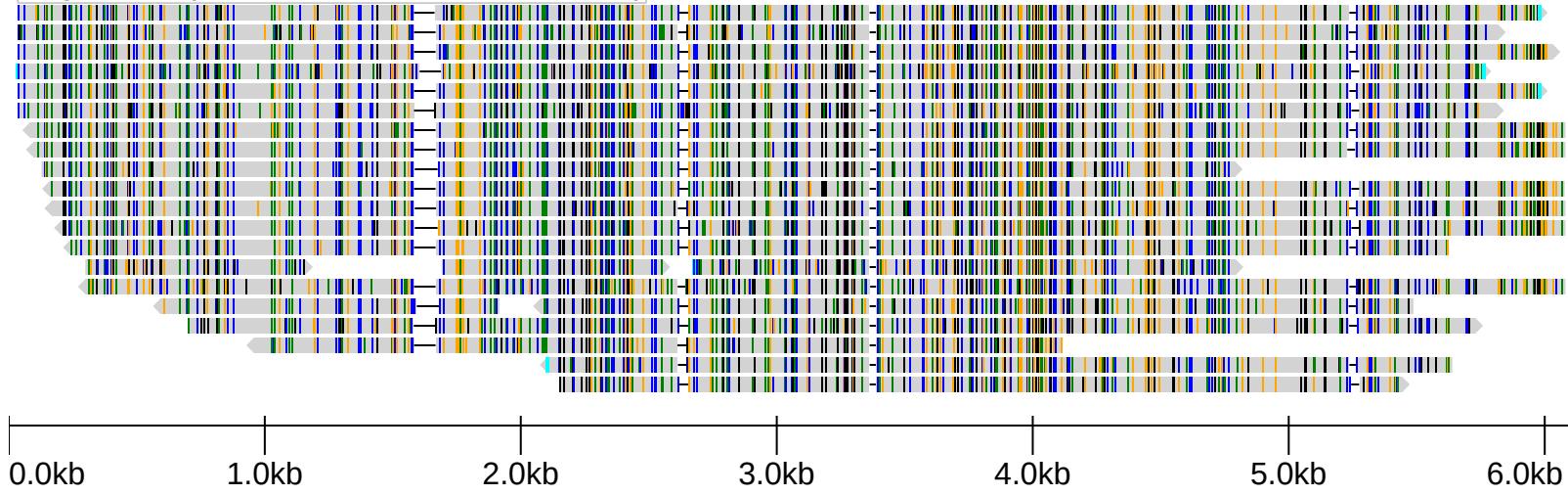
bam coverage



variants



Alignment (reference: constructed het 2)



HLA-DQA1\*05:05:01:35 (identity: 100.00%)



HLA-DQA1\*05:05:01:36 (identity: 99.61%)



HLA-DQA1\*05:05:01:27 (identity: 99.67%)



HLA-DQA1\*05:05:01:29 (identity: 99.93%)



HLA-DQA1\*05:05:01:30 (identity: 99.93%)



HLA-DQA1\*05:05:01:01 (identity: 99.61%)



HLA-DQA1\*05:05:01:02 (identity: 99.54%)



HLA-DQA1\*05:05:01:32 (identity: 99.41%)



HLA-DQA1\*05:05:01:09 (identity: 99.67%)



HLA-DQA1\*05:05:01:03 (identity: 99.72%)



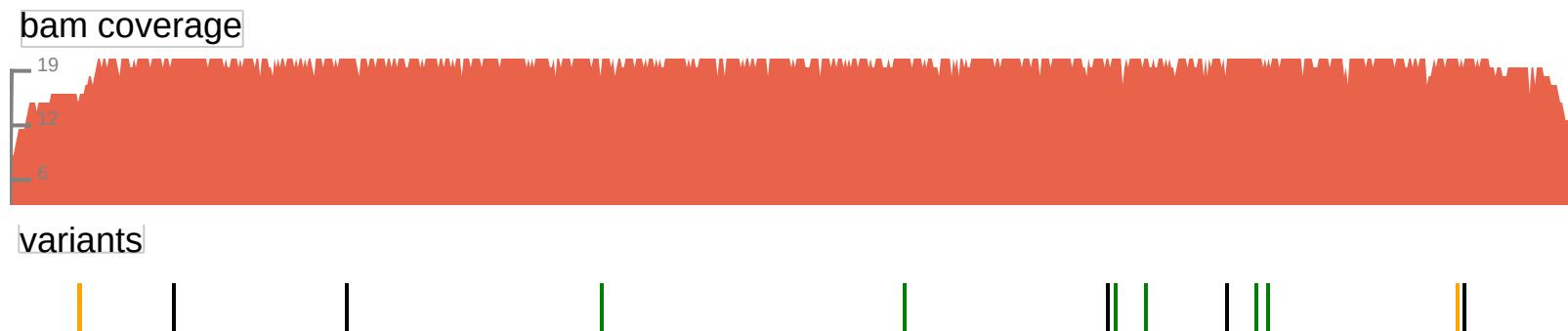
# Sample: test\_HLA2

Locus: HLA-S

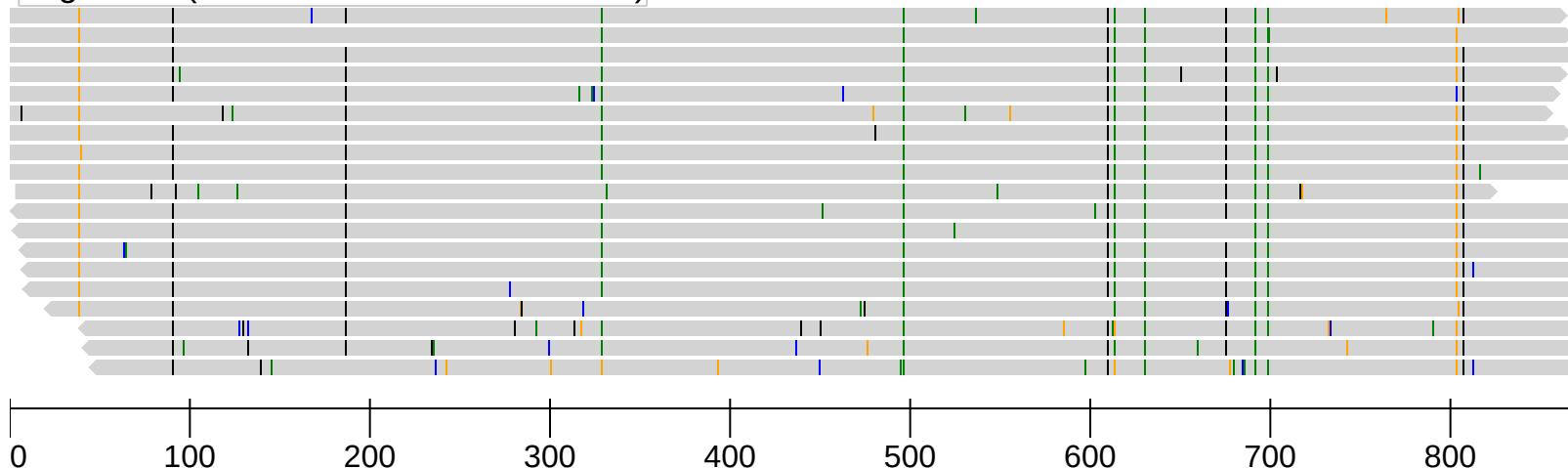
Resolution: 4th field

Full typing result:

HLA-S\*01:03



Alignment (reference: constructed het 2)



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

# Sample: test\_HLA2

Locus: HLA-DQA1

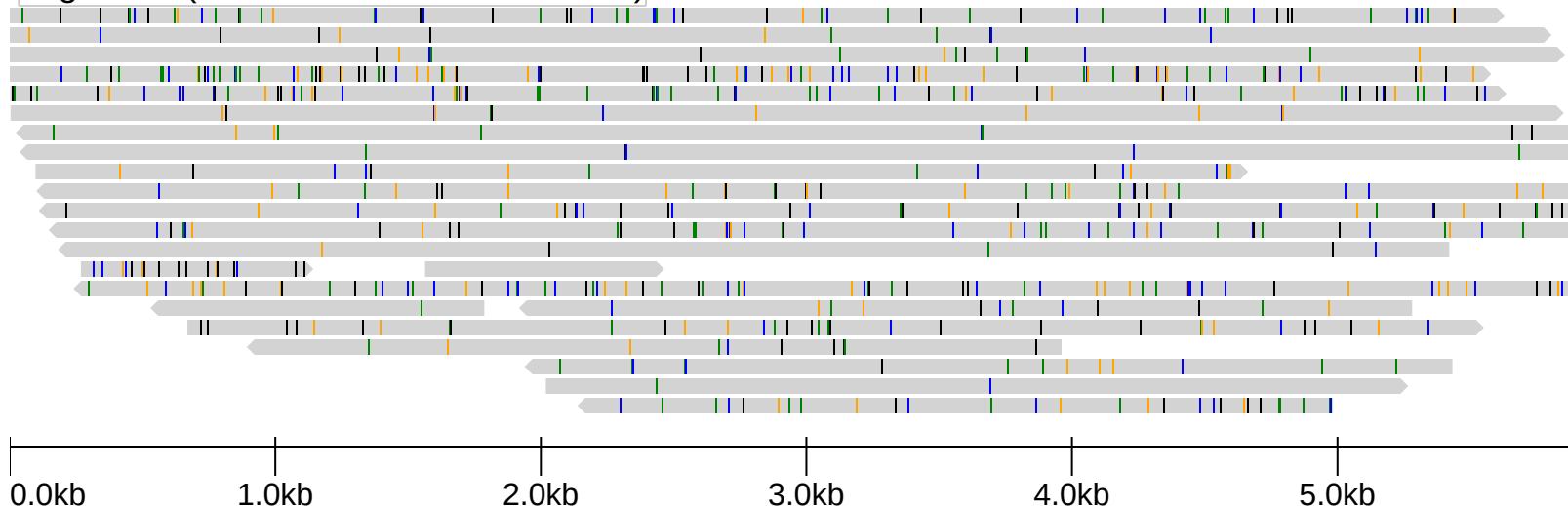
Resolution: 4th field

Full typing result:

HLA-DQA1\*02:01:09:02



Alignment (reference: constructed het 1)



HLA-DQA1\*02:01:09:02 (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-DPB1

Resolution: 4th field

Full typing result:

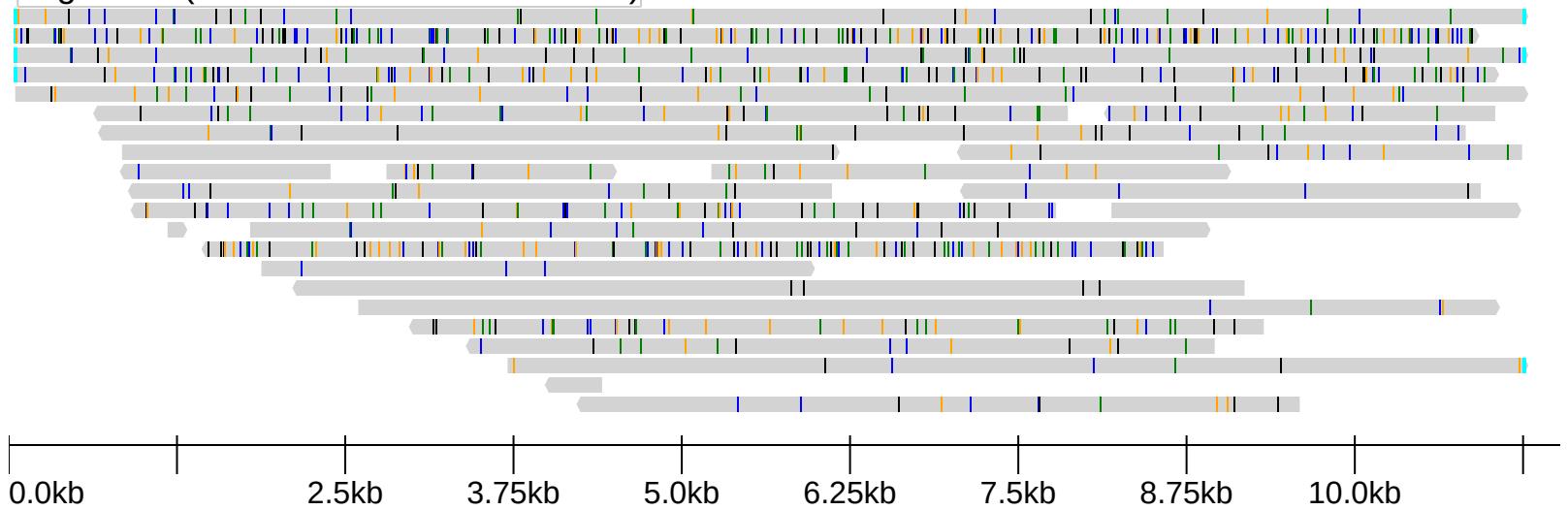
HLA-DPB1*04:01:01:92	HLA-DPB1*04:01:01:01	HLA-DPB1*04:01:01:35
HLA-DPB1*04:01:01:06	HLA-DPB1*1423:01N	HLA-DPB1*04:01:01:02
HLA-DPB1*04:01:01:04	HLA-DPB1*04:01:01:07	HLA-DPB1*04:01:01:08
HLA-DPB1*04:01:01:10	HLA-DPB1*04:01:01:101	HLA-DPB1*04:01:01:104
HLA-DPB1*04:01:01:108	HLA-DPB1*04:01:01:113	HLA-DPB1*04:01:01:114

bam coverage



variants

Alignment (reference: constructed het 1)



HLA-DPB1\*04:01:01:92 (identity: 100.00%)

HLA-DPB1\*04:01:01:01 (identity: 100.00%)

HLA-DPB1\*04:01:01:35 (identity: 99.93%)

HLA-DPB1\*04:01:01:06 (identity: 99.96%)

HLA-DPB1\*1423:01N (identity: 99.96%)

HLA-DPB1\*04:01:01:02 (identity: 99.93%)

HLA-DPB1\*04:01:01:04 (identity: 99.96%)

HLA-DPB1\*04:01:01:07 (identity: 100.00%)

HLA-DPB1\*04:01:01:08 (identity: 100.00%)

HLA-DPB1\*04:01:01:10 (identity: 100.00%)

# Sample: test\_HLA2

Locus: TAP2

Resolution: 4th field

Full typing result:

TAP2\*01:05:01:08

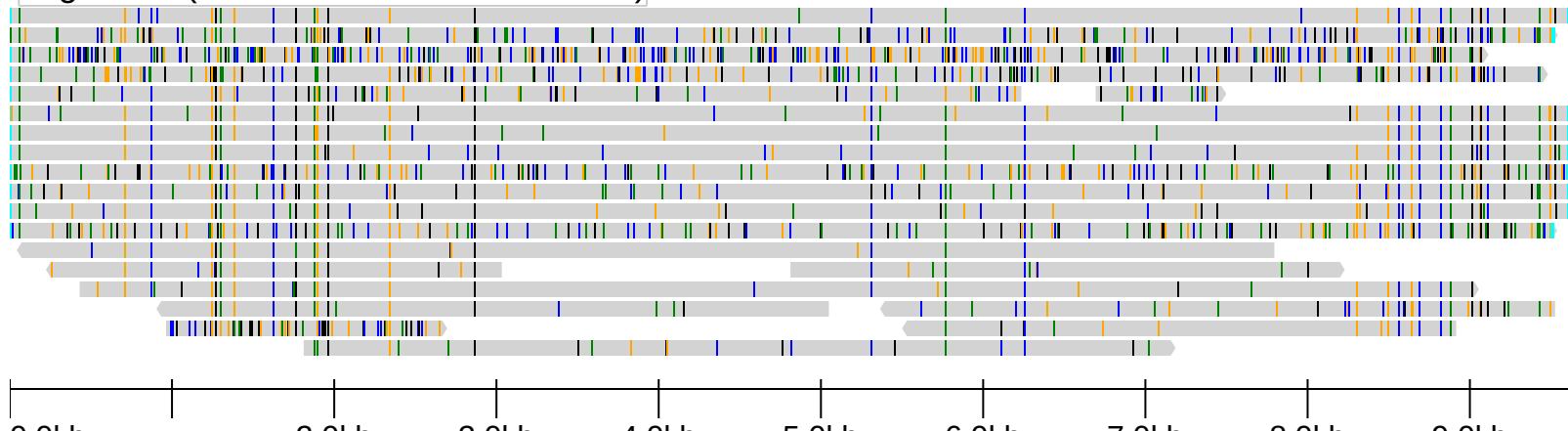
bam coverage



variants



Alignment (reference: constructed het 2)



TAP2\*01:05:01:08 (identity: 100.00%)

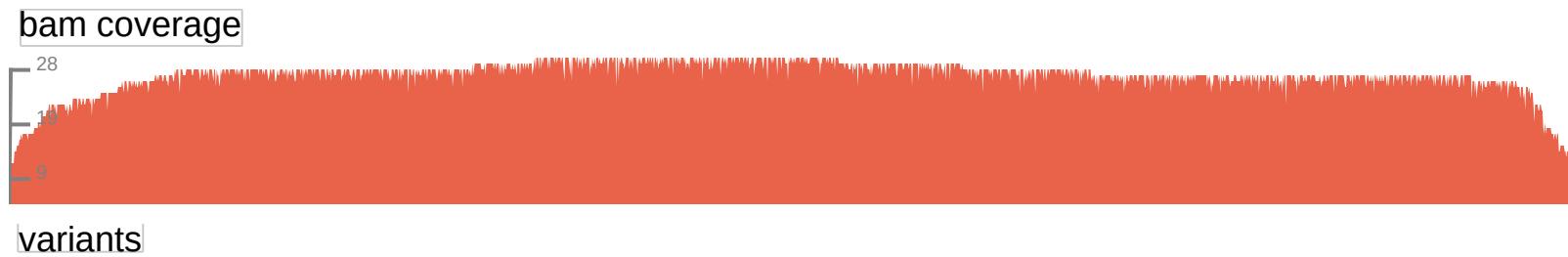
# Sample: test\_HLA2

Locus: HLA-V

Resolution: 4th field

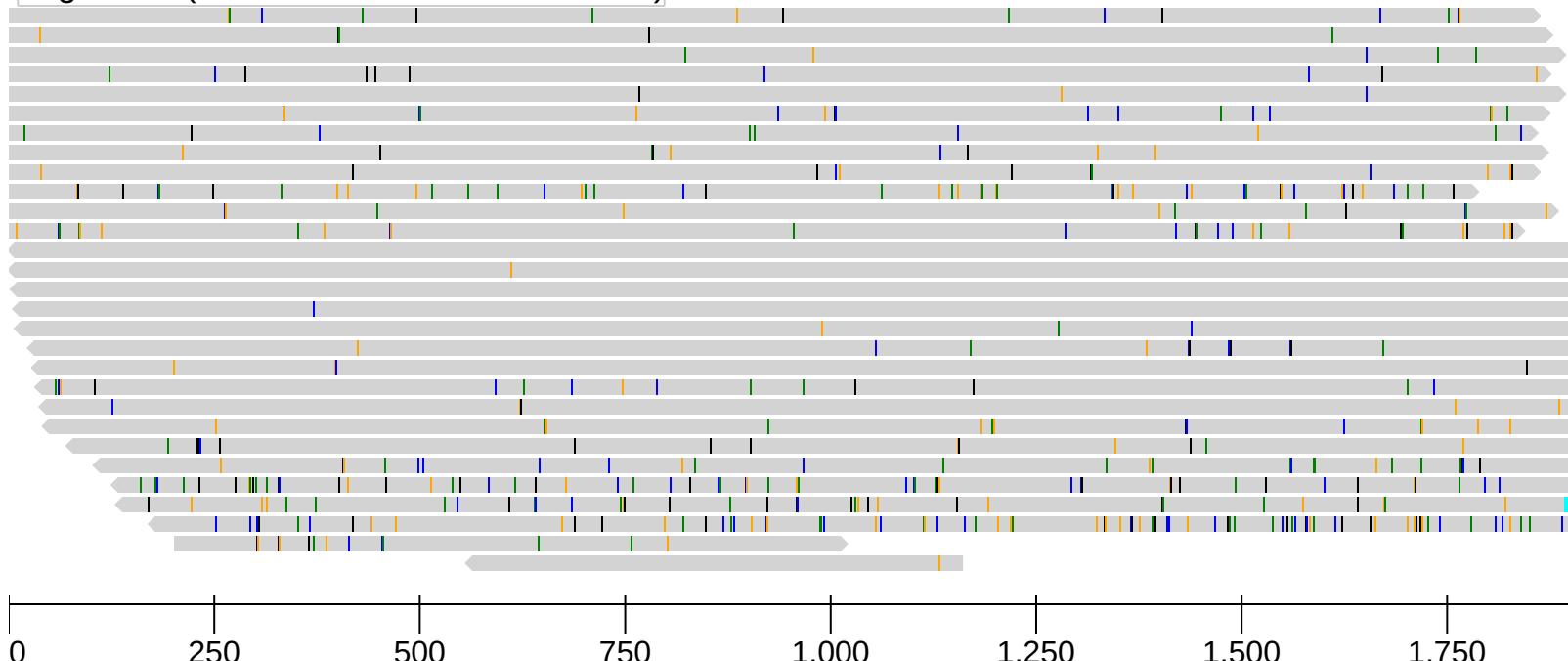
Full typing result:

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



variants

Alignment (reference: constructed hom 1)



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

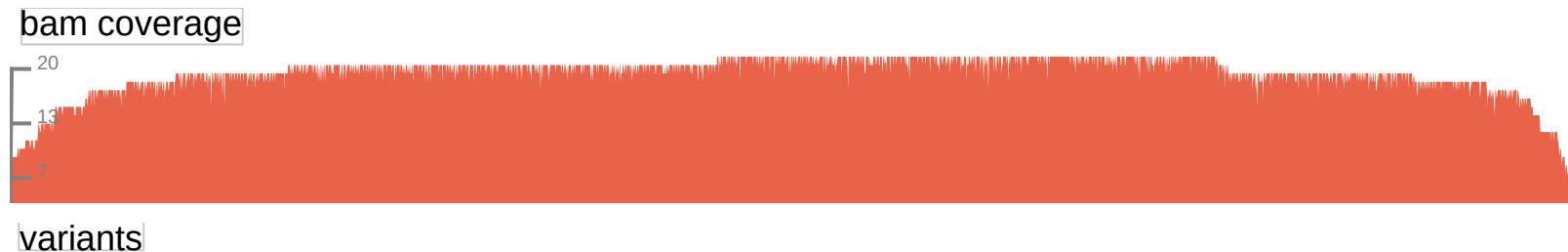
# Sample: test\_HLA2

Locus: HLA-W

Resolution: 4th field

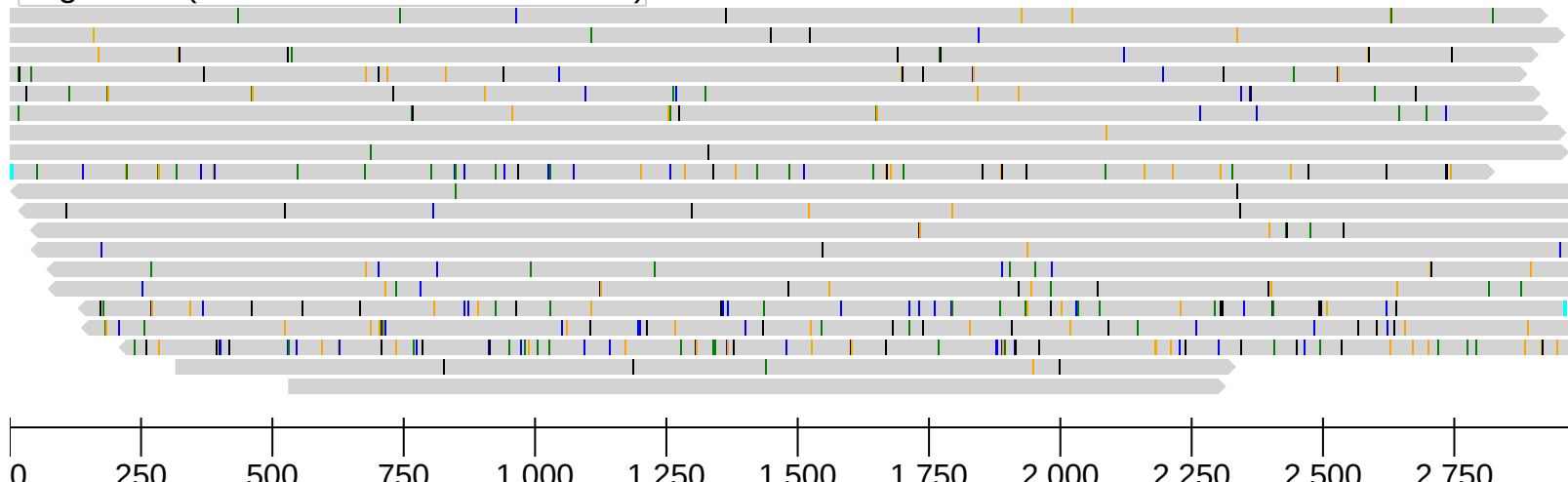
Full typing result:

HLA-W\*01:01:01:07



variants

Alignment (reference: constructed het 1)



HLA-W\*01:01:01:07 (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-H

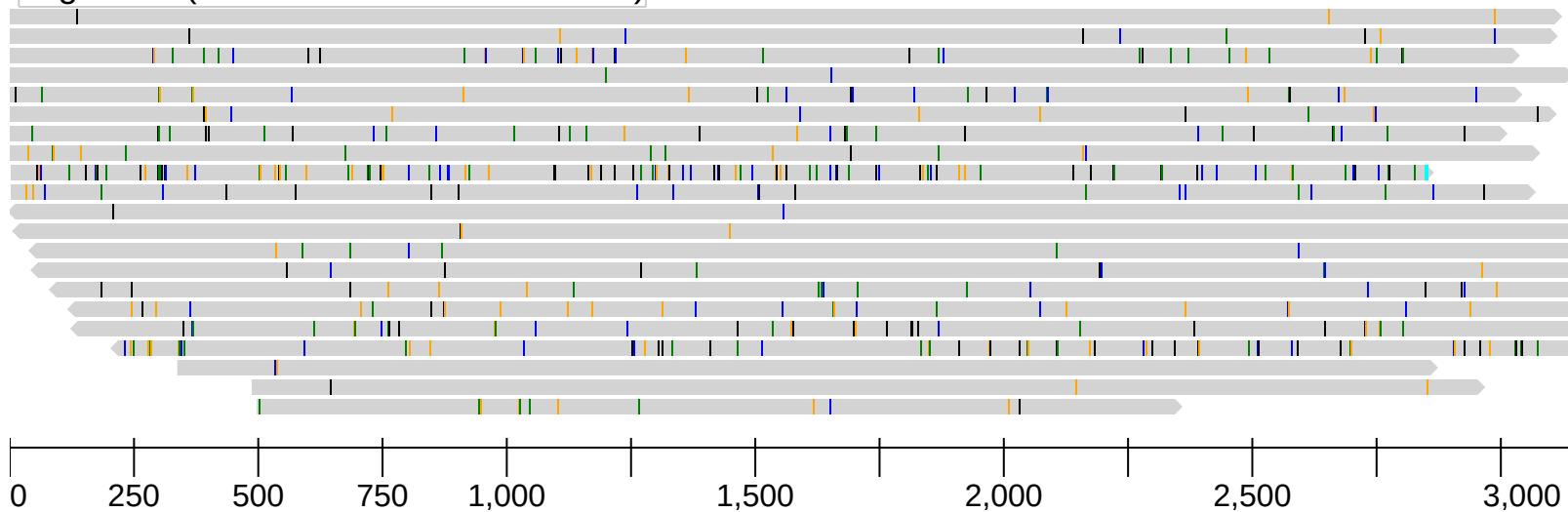
Resolution: 4th field

Full typing result:

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



Alignment (reference: constructed het 1)



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

# Sample: test\_HLA2

Locus: MICB

Resolution: 4th field

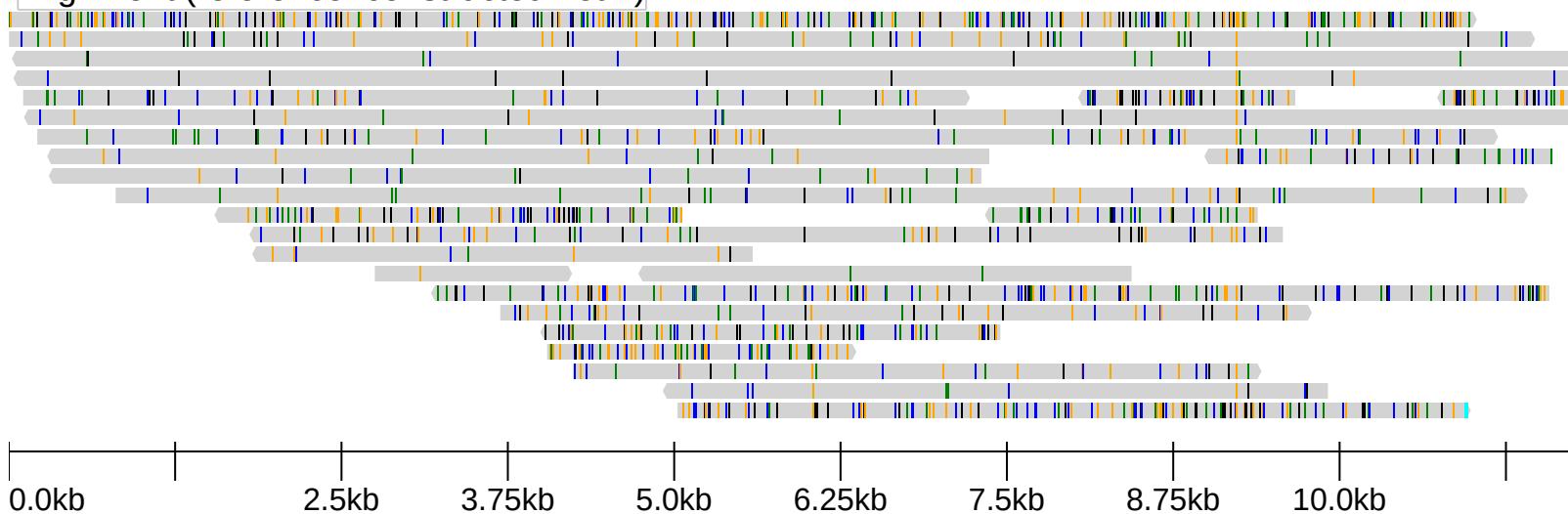
Full typing result:

MICB*034	MICB*004:01:13	MICB*004:01:16
MICB*004:01:27	MICB*024:01:03	MICB*004:01:01
MICB*004:01:15	MICB*004:01:17	MICB*004:01:18
MICB*004:01:22	MICB*004:01:14	MICB*020:01:01
MICB*004:01:23	MICB*024:01:04	MICB*004:01:12

bam coverage



Alignment (reference: constructed het 2)



MICB\*034 (identity: 100.00%)

MICB\*004:01:13 (identity: 100.00%)

MICB\*004:01:16 (identity: 99.99%)

MICB\*004:01:27 (identity: 99.99%)

MICB\*024:01:03 (identity: 100.00%)

MICB\*004:01:01 (identity: 99.97%)

MICB\*004:01:15 (identity: 99.96%)

MICB\*004:01:17 (identity: 99.97%)

MICB\*004:01:18 (identity: 99.97%)

MICB\*004:01:22 (identity: 99.96%)

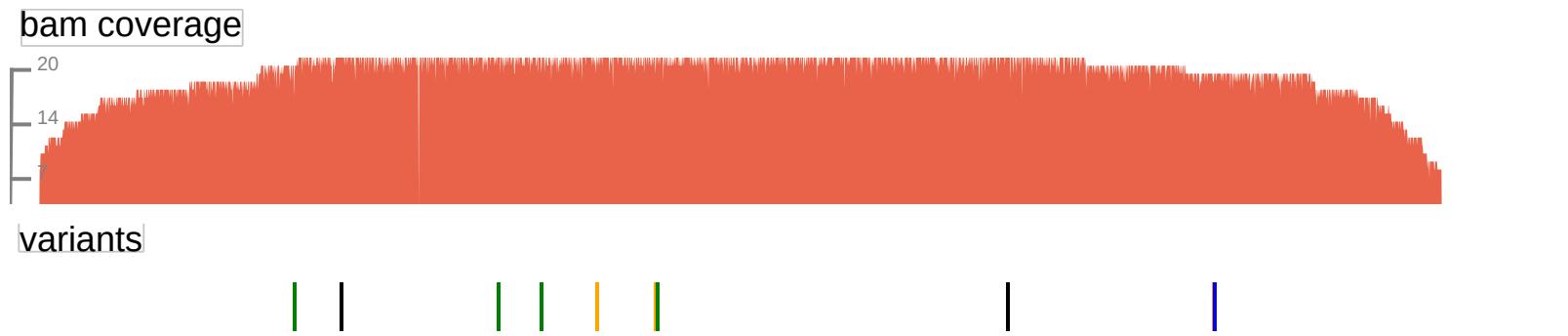
# Sample: test\_HLA2

Locus: HLA-H

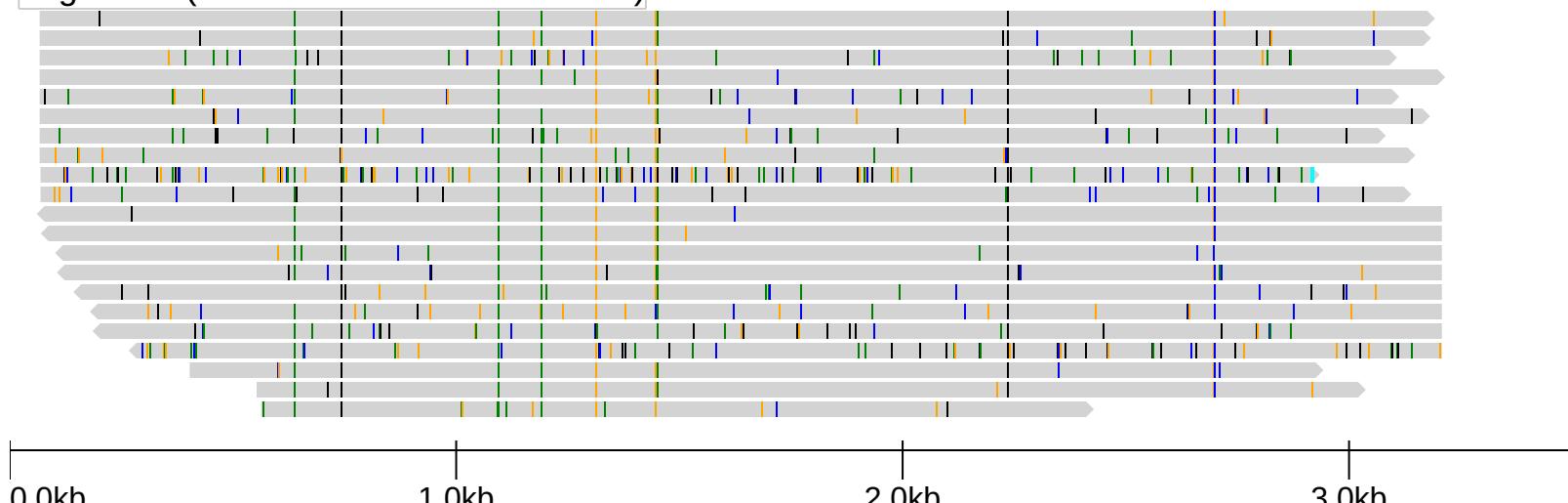
Resolution: 4th field

Full typing result:

HLA-H\*01:04



Alignment (reference: constructed het 2)



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

# Sample: test\_HLA2

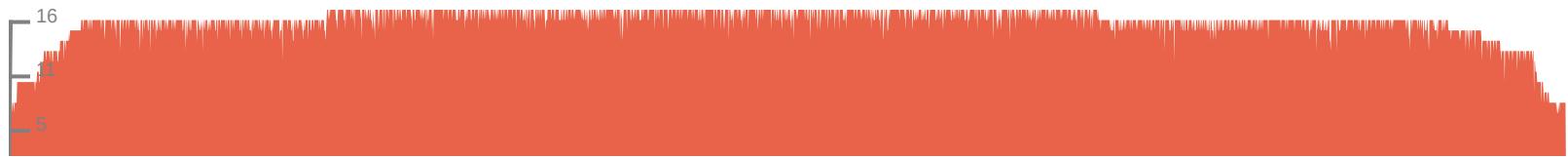
Locus: HLA-C

Resolution: 4th field

Full typing result:

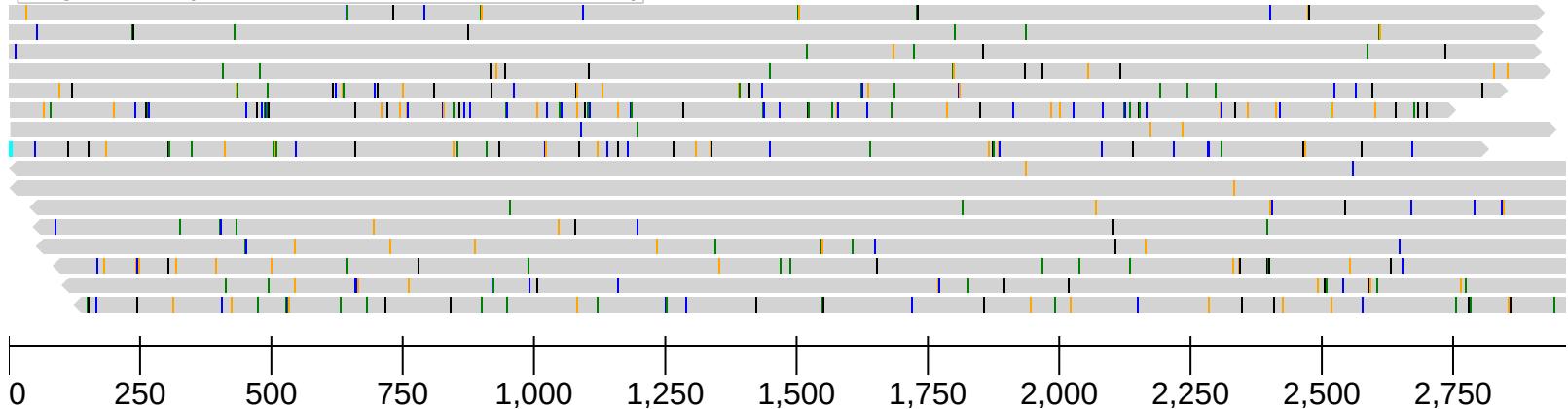
HLA-C*02:177	HLA-C*02:02:02:01	HLA-C*02:02:02:03
HLA-C*02:02:02:05	HLA-C*02:02:02:20	HLA-C*02:02:02:43
HLA-C*02:02:02:46	HLA-C*02:02:02:47	HLA-C*02:02:02:78
HLA-C*02:02:02:79	HLA-C*02:02:02:80	HLA-C*02:02:02:81
HLA-C*02:02:02:82	HLA-C*02:02:02:83	HLA-C*02:02:02:84

bam coverage



variants

Alignment (reference: constructed het 1)



HLA-C\*02:177 (identity: 100.00%)



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



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



HLA-C\*02:02:02:05 (identity: 100.00%)



HLA-C\*02:02:02:20 (identity: 100.00%)



HLA-C\*02:02:02:43 (identity: 100.00%)



HLA-C\*02:02:02:46 (identity: 100.00%)



HLA-C\*02:02:02:47 (identity: 100.00%)



HLA-C\*02:02:02:78 (identity: 100.00%)



HLA-C\*02:02:02:79 (identity: 100.00%)



# Sample: test\_HLA2

Locus: HLA-J

Resolution: 4th field

Full typing result:

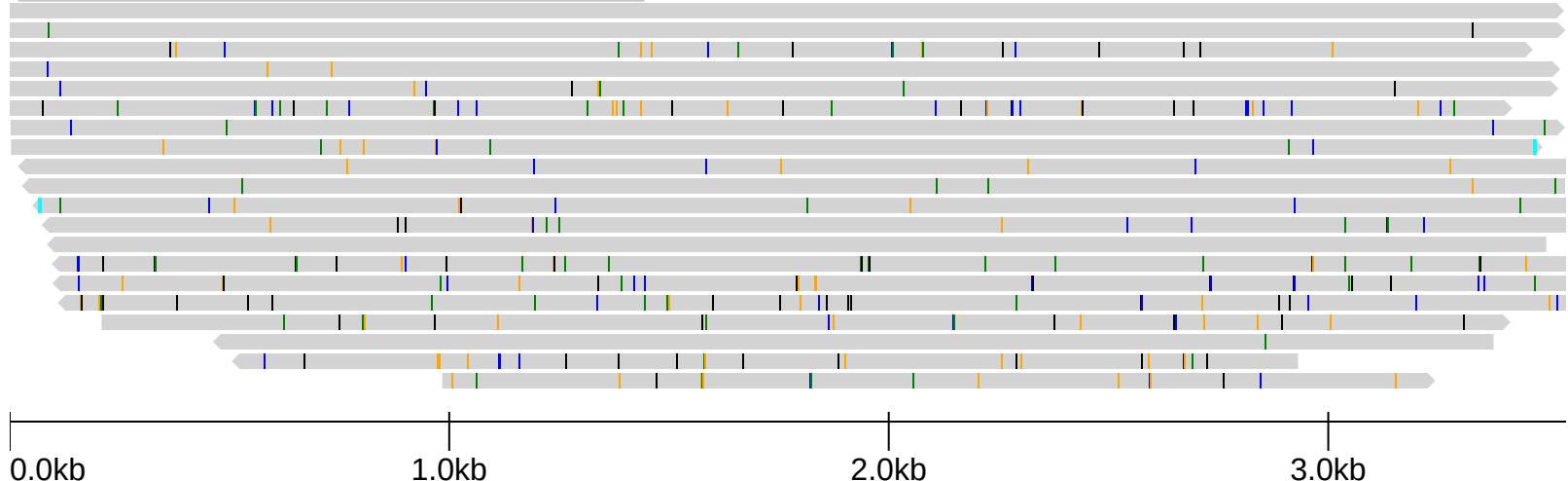
HLA-J\*01:01:01:18

bam coverage



variants

Alignment (reference: constructed het 1)



HLA-J\*01:01:01:18 (identity: 100.00%)

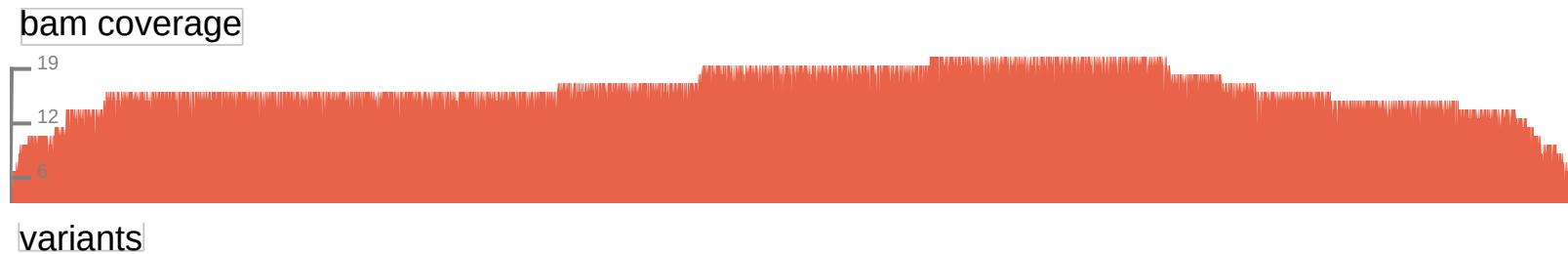
**Sample: test\_HLA2**

**Locus: HLA-DQA2**

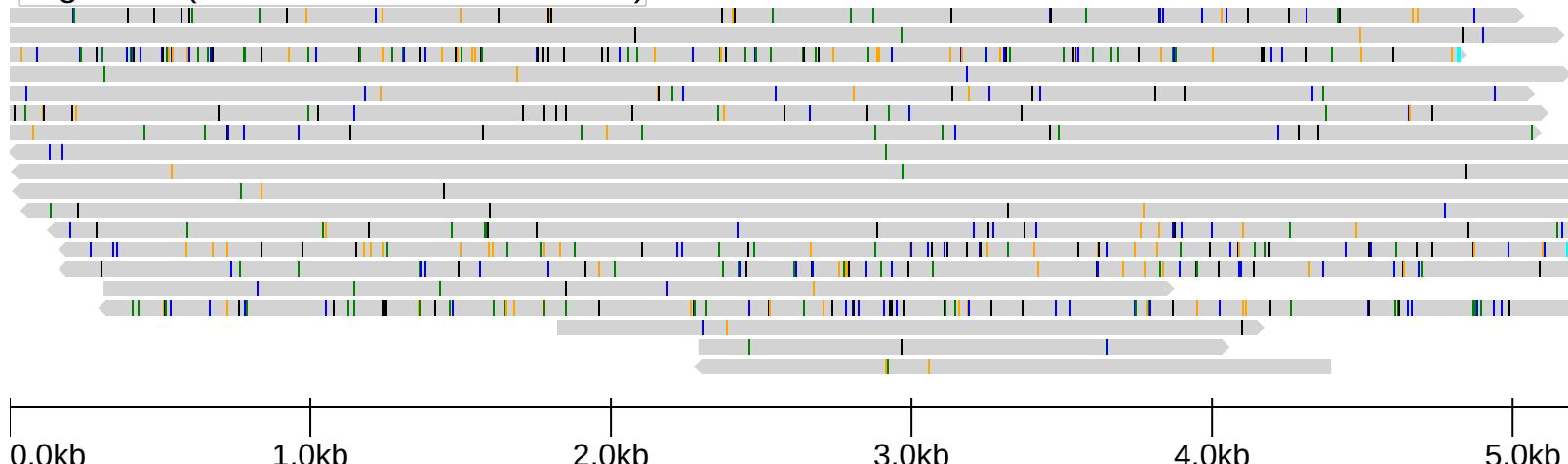
**Resolution: 4th field**

**Full typing result:**

**HLA-DQA2\*01:01:02:13**



Alignment (reference: constructed het 1)



**HLA-DQA2\*01:01:02:13 (identity: 100.00%)**

# Sample: test\_HLA2

Locus: HLA-A

Resolution: 4th field

Full typing result:

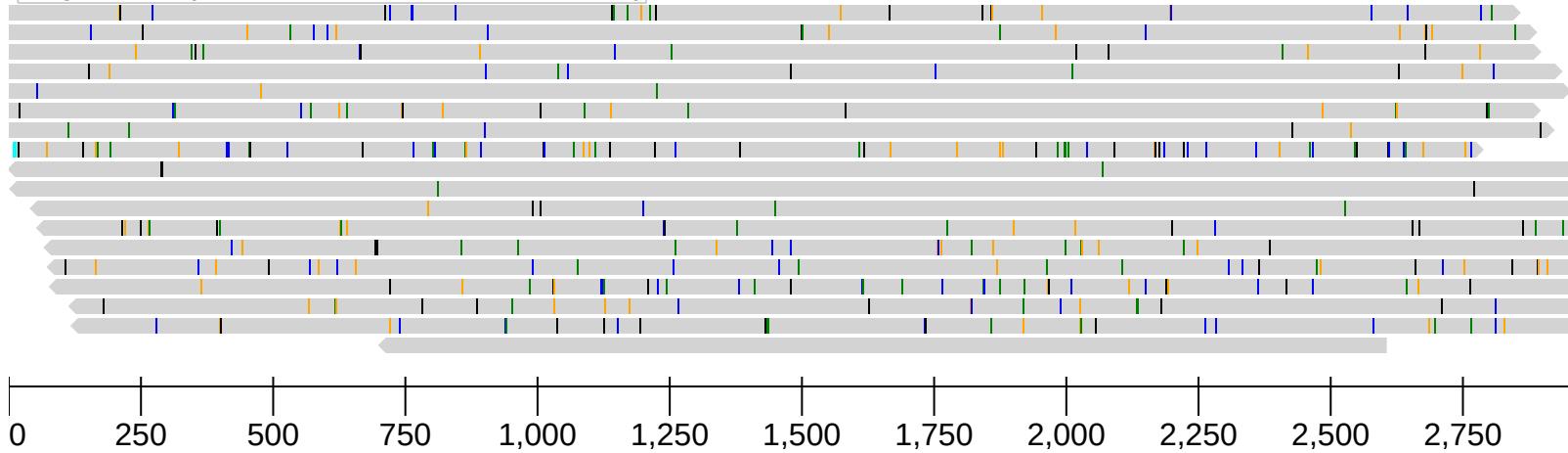
HLA-A*02:01:01:168	HLA-A*02:01:01:01	HLA-A*02:01:01:02L
HLA-A*02:01:01:145	HLA-A*02:01:01:150	HLA-A*02:01:01:155
HLA-A*02:01:01:157	HLA-A*02:01:01:159	HLA-A*02:01:01:16
HLA-A*02:01:01:160	HLA-A*02:01:01:205	HLA-A*02:01:01:206
HLA-A*02:01:01:243	HLA-A*02:01:01:245	HLA-A*02:01:01:247

bam coverage



variants

Alignment (reference: constructed het 1)



HLA-A\*02:01:01:168 (identity: 100.00%)



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



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



HLA-A\*02:01:01:145 (identity: 100.00%)



HLA-A\*02:01:01:150 (identity: 100.00%)



HLA-A\*02:01:01:155 (identity: 100.00%)



HLA-A\*02:01:01:157 (identity: 100.00%)



HLA-A\*02:01:01:159 (identity: 100.00%)



HLA-A\*02:01:01:16 (identity: 100.00%)



HLA-A\*02:01:01:160 (identity: 100.00%)



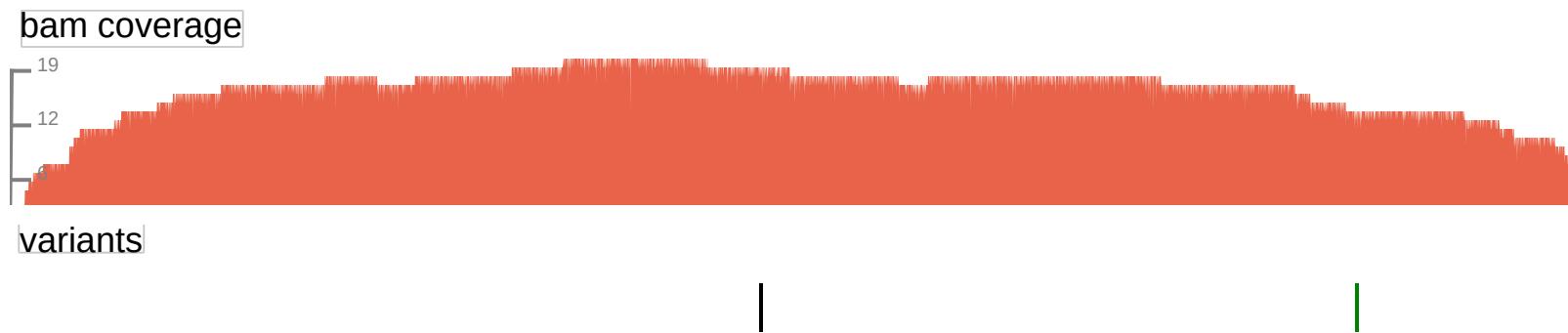
# Sample: test\_HLA2

Locus: HFE

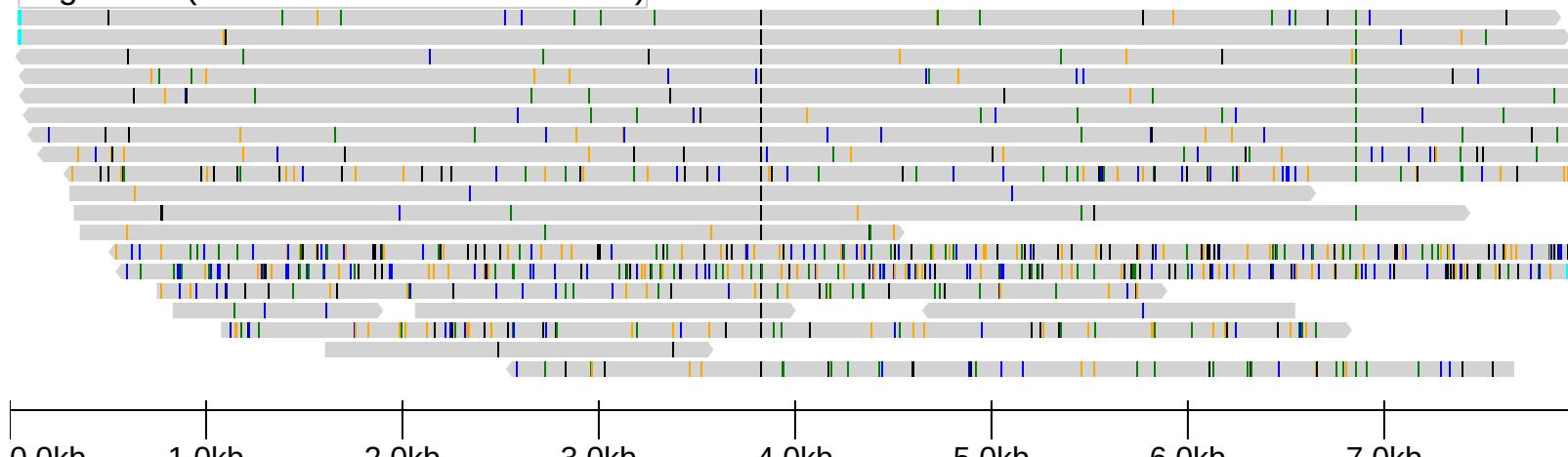
Resolution: 4th field

Full typing result:

HFE\*001:01:02



Alignment (reference: constructed het 2)



HFE\*001:01:02 (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-DPB1

Resolution: 4th field

Full typing result:

HLA-DPB1*02:01:15	HLA-DPB1*02:01:02:03	HLA-DPB1*02:01:02:28
HLA-DPB1*02:01:02:26	HLA-DPB1*02:01:02:50	HLA-DPB1*02:01:02:86
HLA-DPB1*81:01:01:02	HLA-DPB1*967:01	HLA-DPB1*02:01:02:34
HLA-DPB1*02:01:02:46Q	HLA-DPB1*02:01:19:01	HLA-DPB1*1369:01
HLA-DPB1*416:01:01:02	HLA-DPB1*02:01:02:05	HLA-DPB1*02:01:02:01

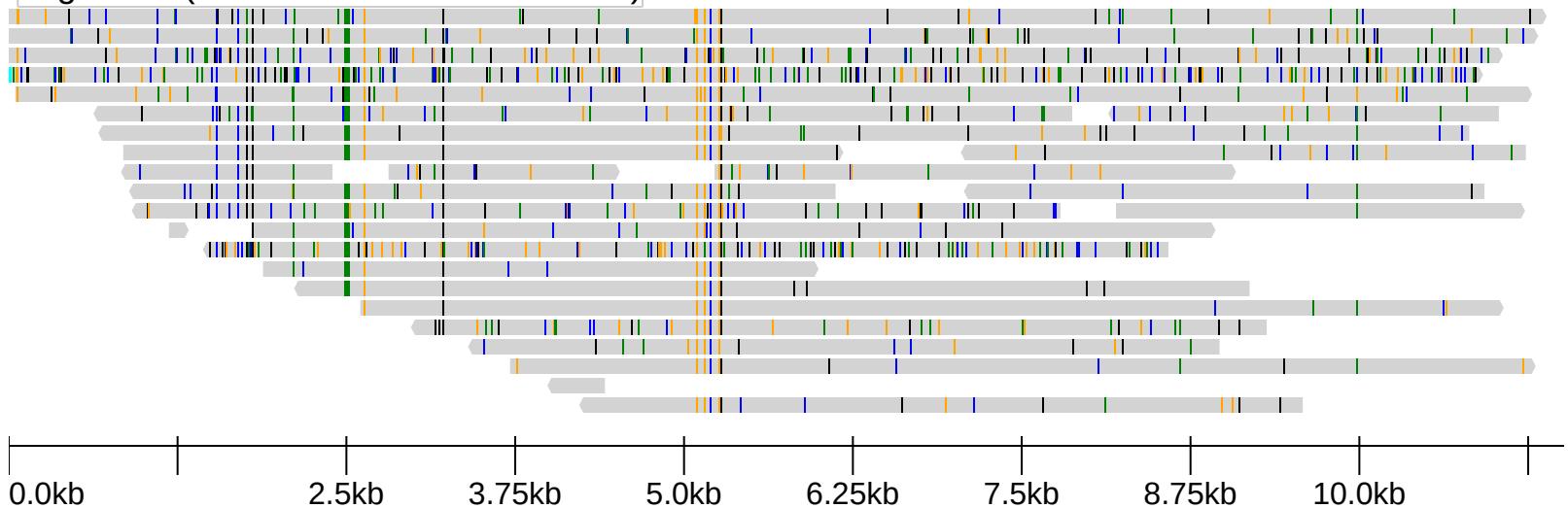
bam coverage



variants



Alignment (reference: constructed het 2)



HLA-DPB1\*02:01:15 (identity: 100.00%)

HLA-DPB1\*02:01:02:03 (identity: 100.00%)

HLA-DPB1\*02:01:02:28 (identity: 99.96%)

HLA-DPB1\*02:01:02:26 (identity: 100.00%)

HLA-DPB1\*02:01:02:50 (identity: 100.00%)

HLA-DPB1\*02:01:02:86 (identity: 100.00%)

HLA-DPB1\*81:01:01:02 (identity: 100.00%)

HLA-DPB1\*967:01 (identity: 100.00%)

HLA-DPB1\*02:01:02:34 (identity: 99.86%)

HLA-DPB1\*02:01:02:46Q (identity: 100.00%)

# Sample: test\_HLA2

Locus: HLA-L

Resolution: 4th field

Full typing result:

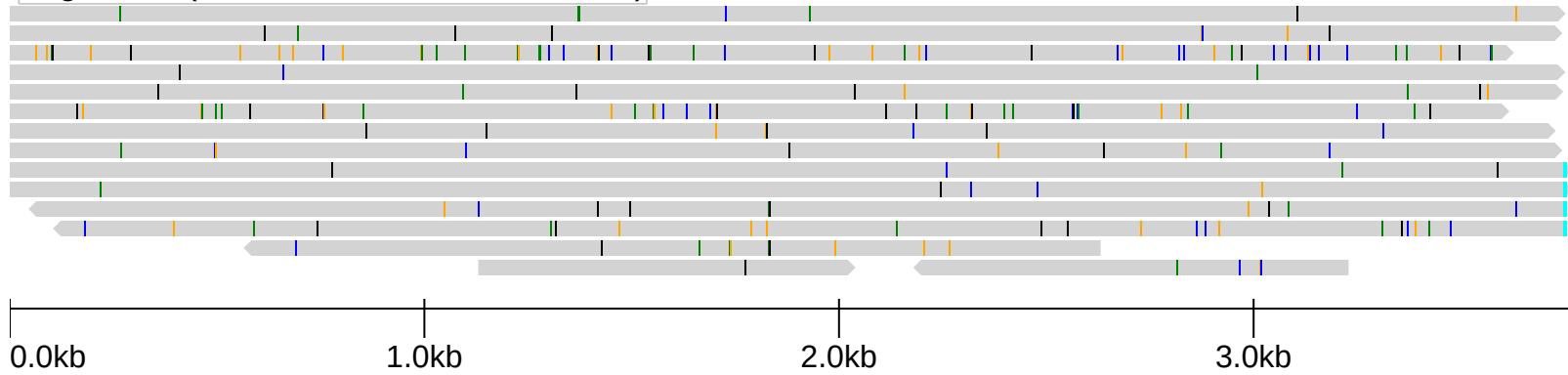
HLA-L\*01:01:01:01

bam coverage



variants

Alignment (reference: constructed het 1)



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

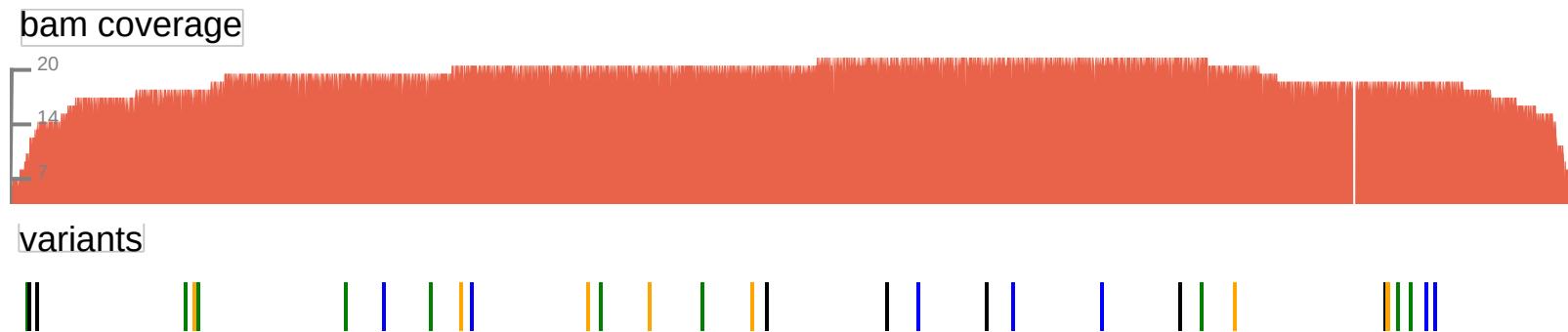
# Sample: test\_HLA2

Locus: HLA-DRA

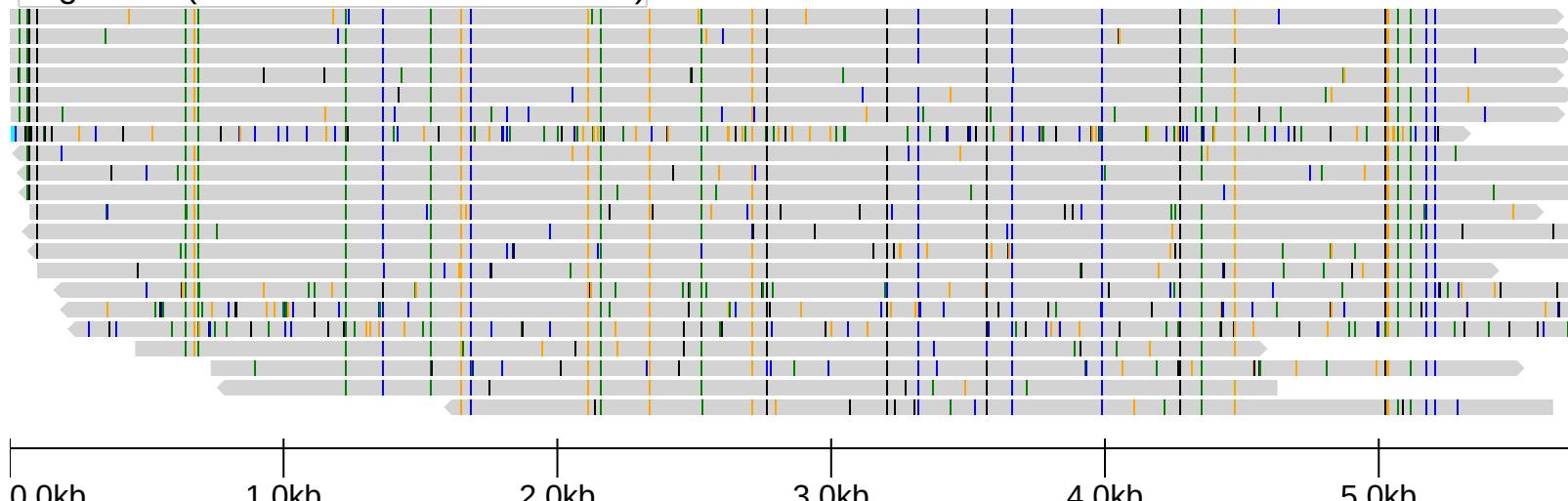
Resolution: 4th field

Full typing result:

HLA-DRA\*01:01:01:25



Alignment (reference: constructed het 2)



HLA-DRA\*01:01:01:25 (identity: 100.00%)

# Sample: test\_HLA2

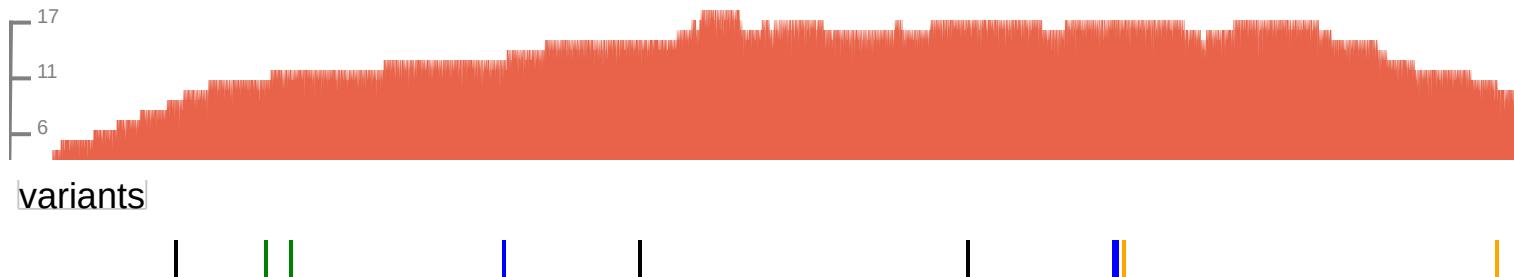
Locus: HLA-DRB4

Resolution: 4th field

Full typing result:

HLA-DRB4*01:03:01:16	HLA-DRB4*01:03:01:04	HLA-DRB4*01:03:01:11
HLA-DRB4*01:03:01:10	HLA-DRB4*01:03:01:01	HLA-DRB4*01:03:01:03
HLA-DRB4*01:03:01:15	HLA-DRB4*01:03:01:17	HLA-DRB4*01:02
HLA-DRB4*01:03:01:14	HLA-DRB4*01:03:01:18	HLA-DRB4*01:152
HLA-DRB4*01:03:01:09	HLA-DRB4*01:03:01:13N	

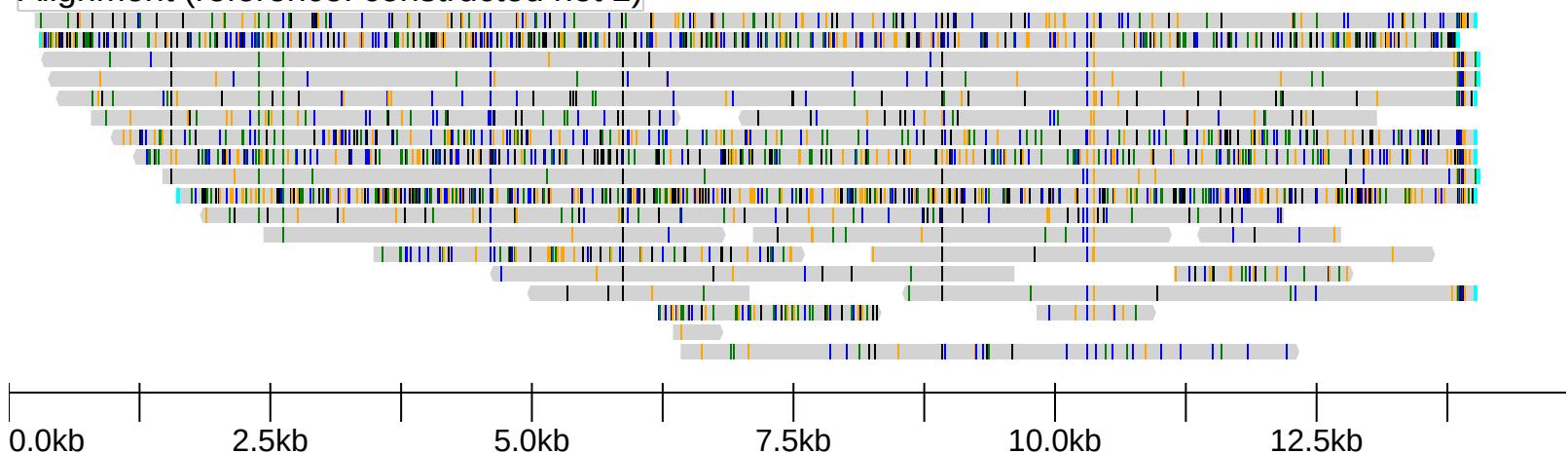
bam coverage



variants



Alignment (reference: constructed het 2)



HLA-DRB4\*01:03:01:16 (identity: 100.00%)



HLA-DRB4\*01:03:01:04 (identity: 100.00%)



HLA-DRB4\*01:03:01:11 (identity: 99.99%)



HLA-DRB4\*01:03:01:10 (identity: 100.00%)



HLA-DRB4\*01:03:01:01 (identity: 99.99%)



HLA-DRB4\*01:03:01:03 (identity: 99.99%)



HLA-DRB4\*01:03:01:15 (identity: 99.99%)



HLA-DRB4\*01:03:01:17 (identity: 99.98%)



HLA-DRB4\*01:02 (identity: 99.99%)



HLA-DRB4\*01:03:01:14 (identity: 99.99%)



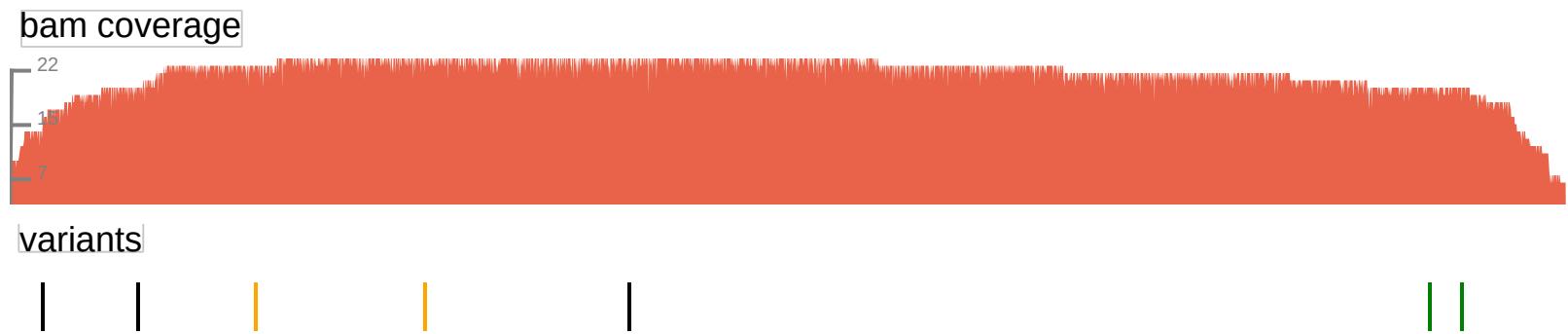
**Sample: test\_HLA2**

**Locus: HLA-DOA**

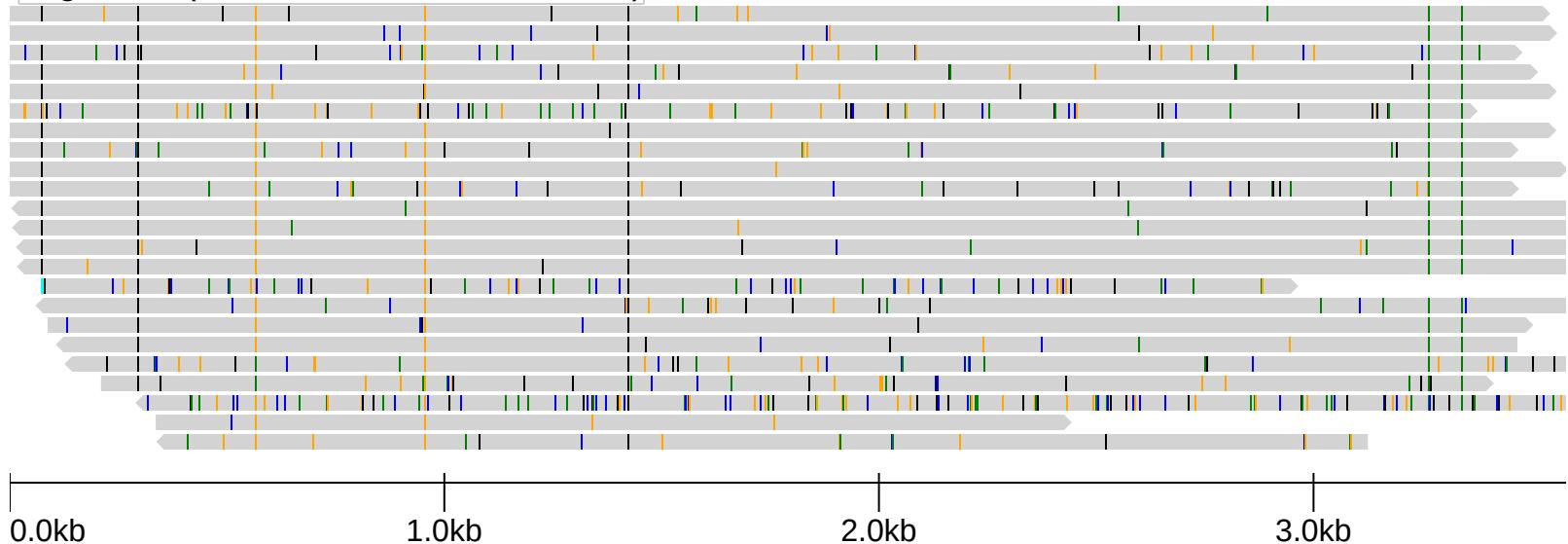
**Resolution: 4th field**

**Full typing result:**

**HLA-DOA\*01:01:02:22**



**Alignment (reference: constructed het 2)**



**HLA-DOA\*01:01:02:22 (identity: 100.00%)**