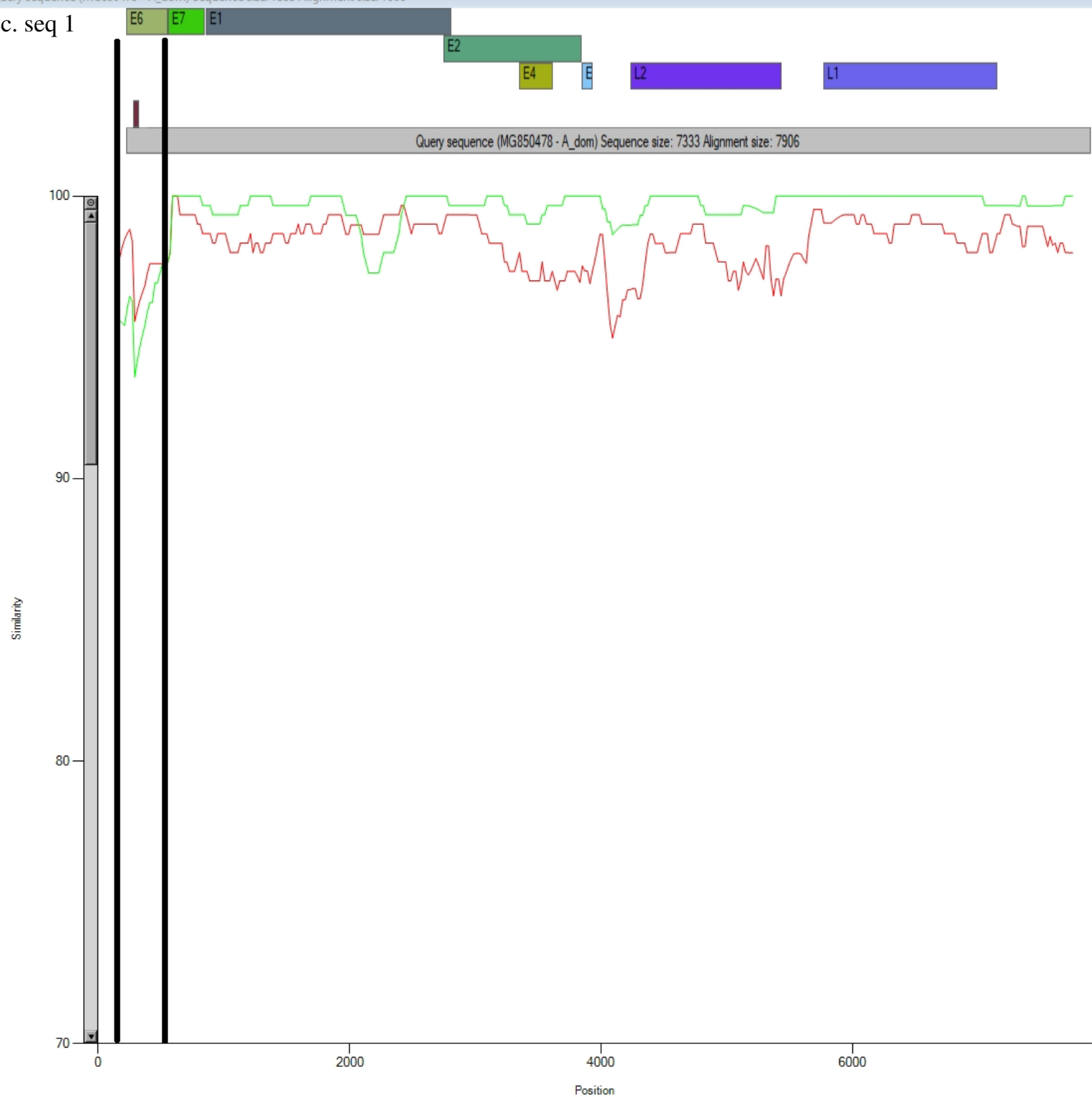
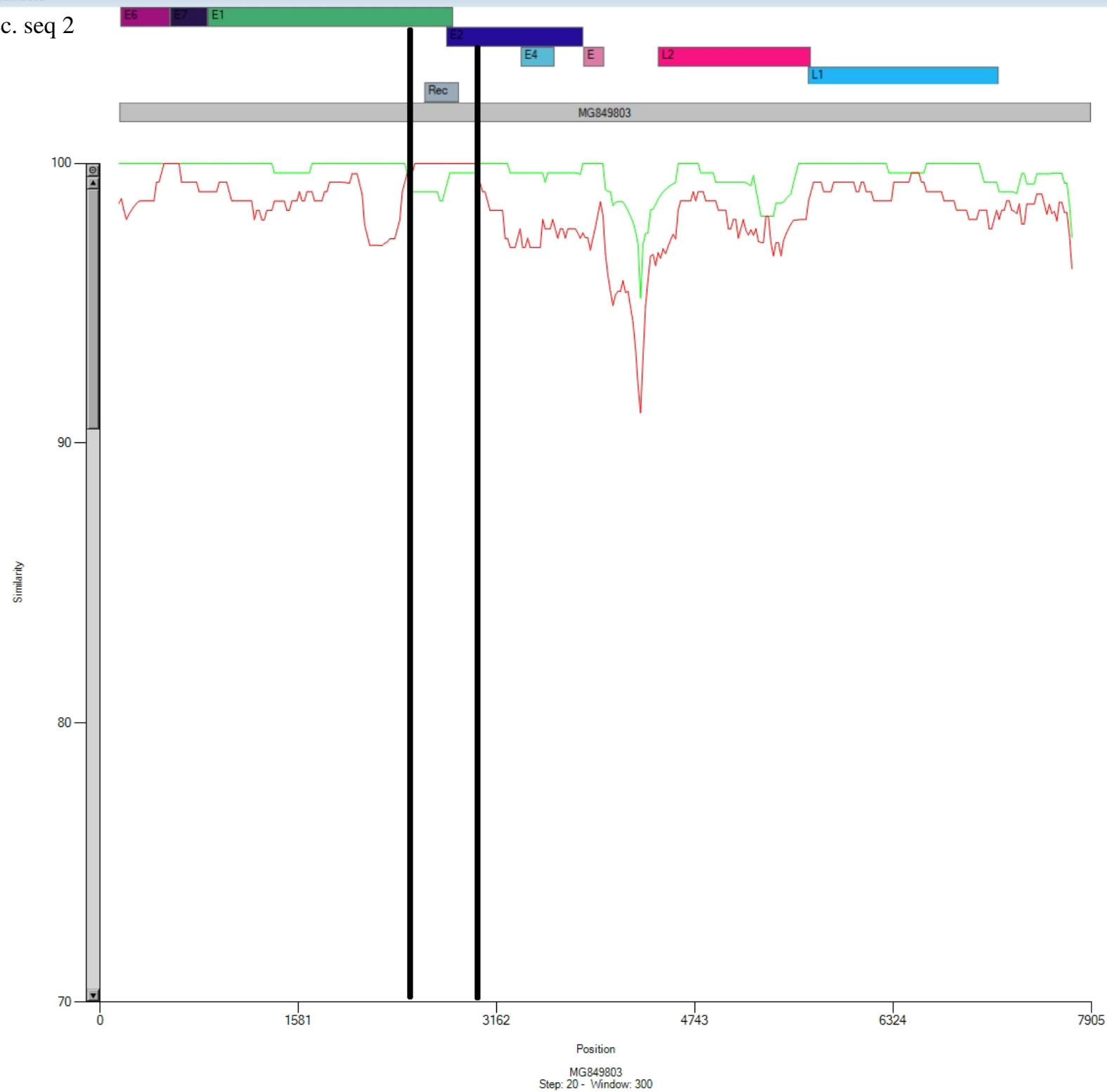


Rec. seq 1

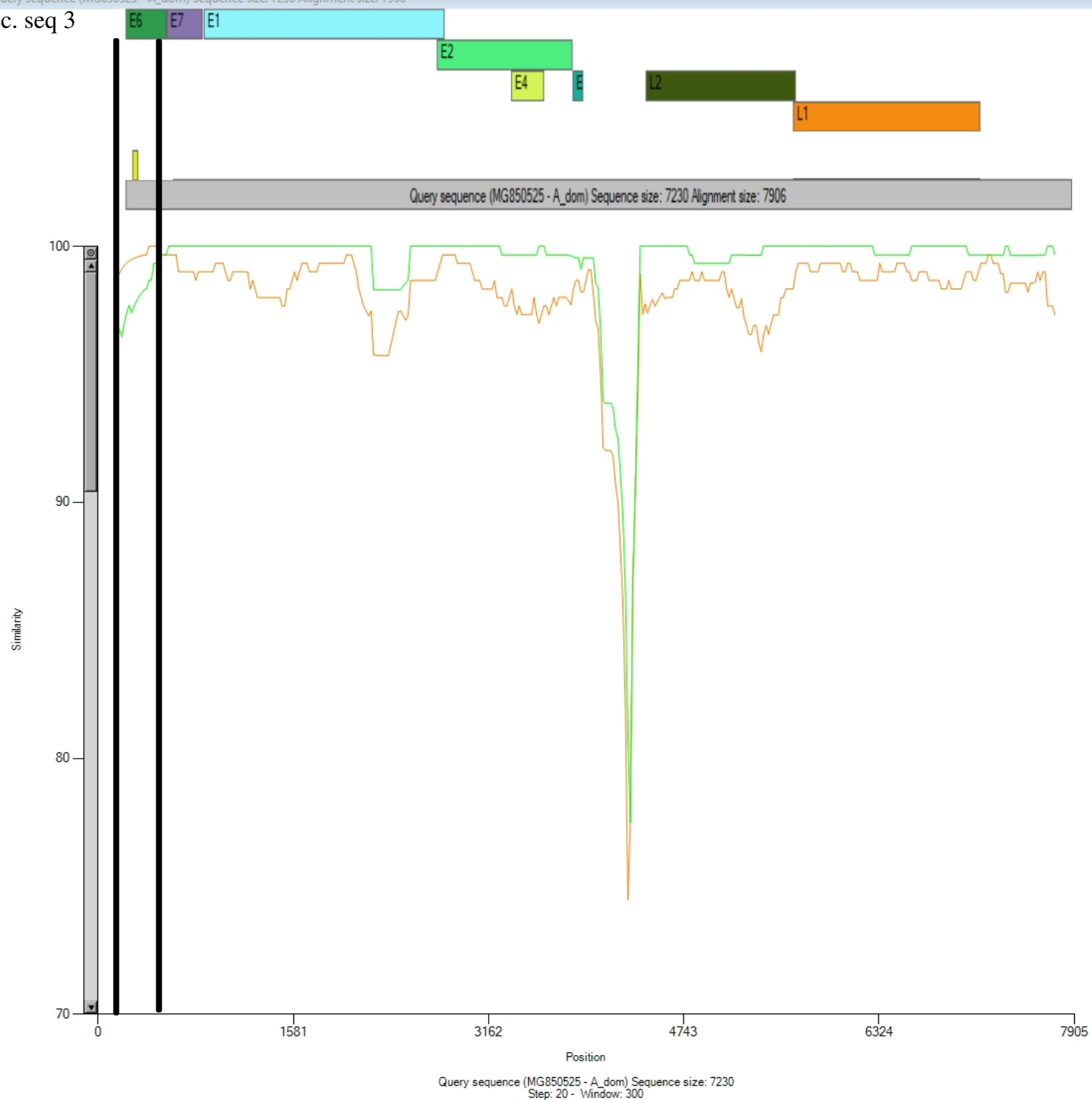


HQ644257 - D
AF472509 - C
AF536180 - B
NC_001526 - A

Rec. seq 2

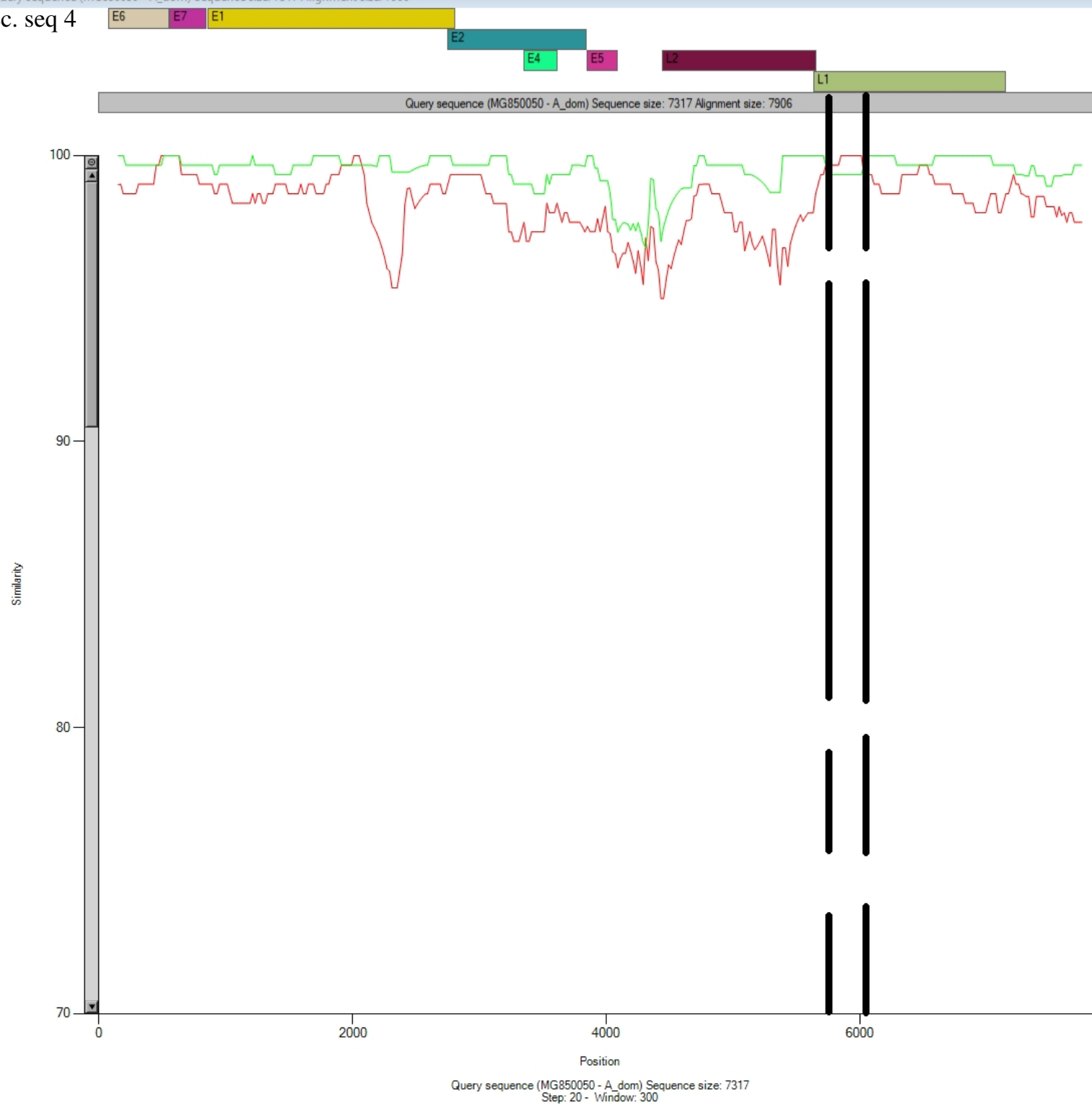


Rec. seq 3



AF472509 - C
NC_001526 - A
AF536180 - B
HQ644257 - D

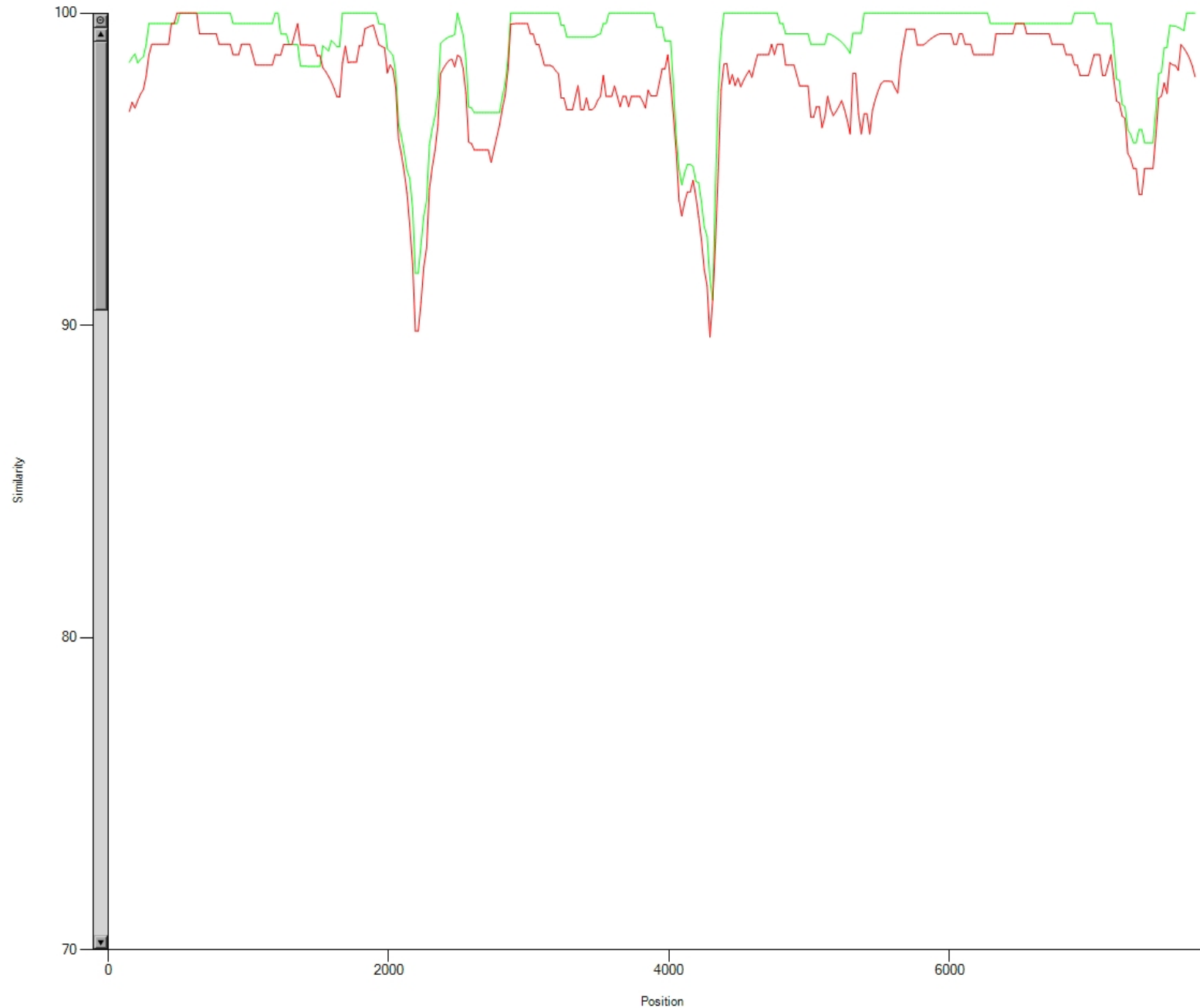
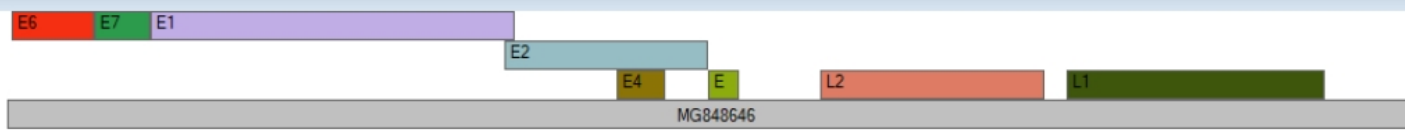
Rec. seq 4



HQ644257 - D
AF472509 - C
NC_001526 - A
AF536180 - B

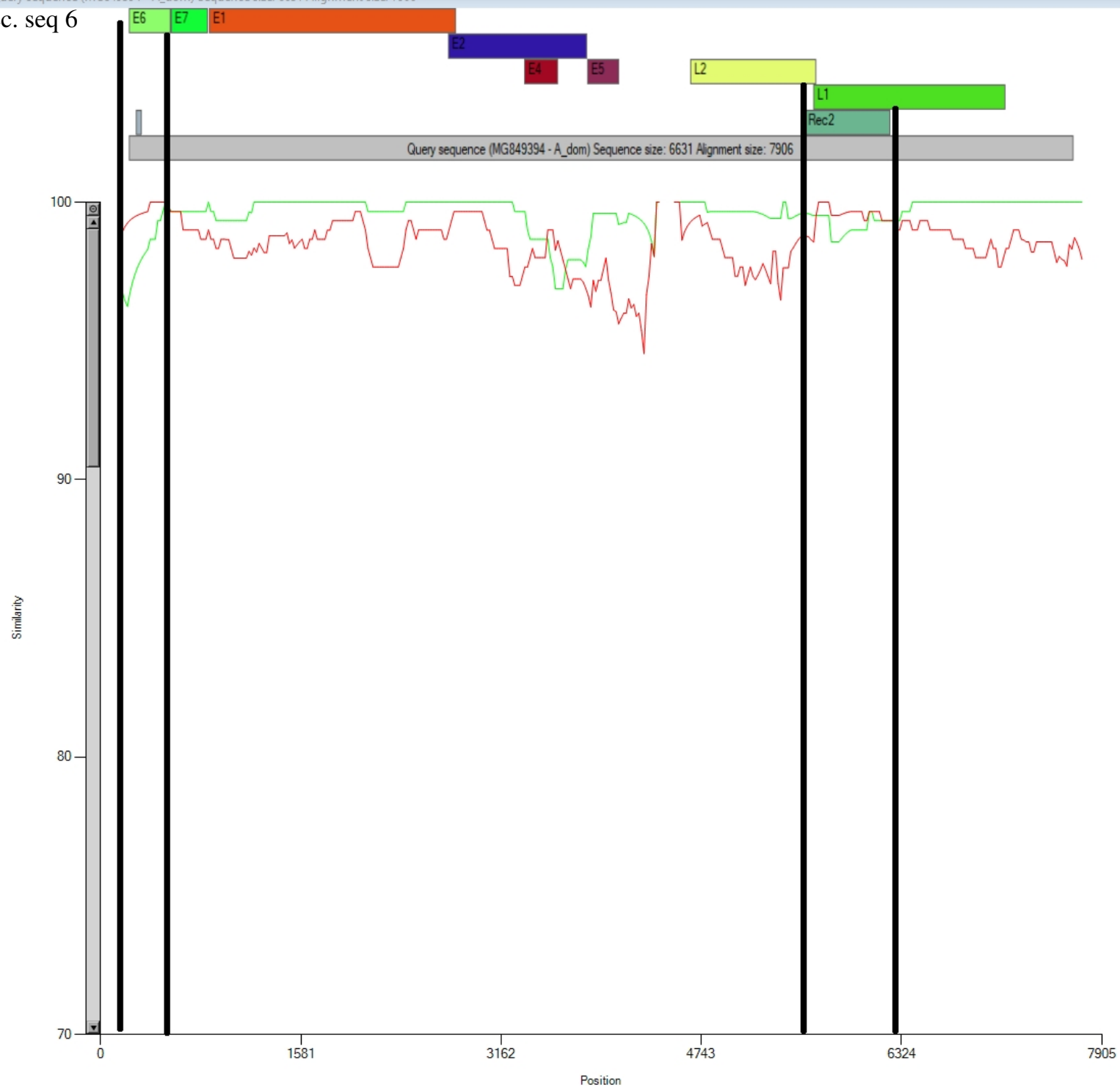
Dotted lines represent the lower confidence
recombination crossover sites
(recombination events supported by 2 or
less lineage specific SNPs)

Rec. seq 5



- AF536180
- NC_001526
- AF472509
- HQ644257

Rec. seq 6



Query sequence (MG849394 - A_dom) Sequence size: 6631
Step: 20 - Window: 300

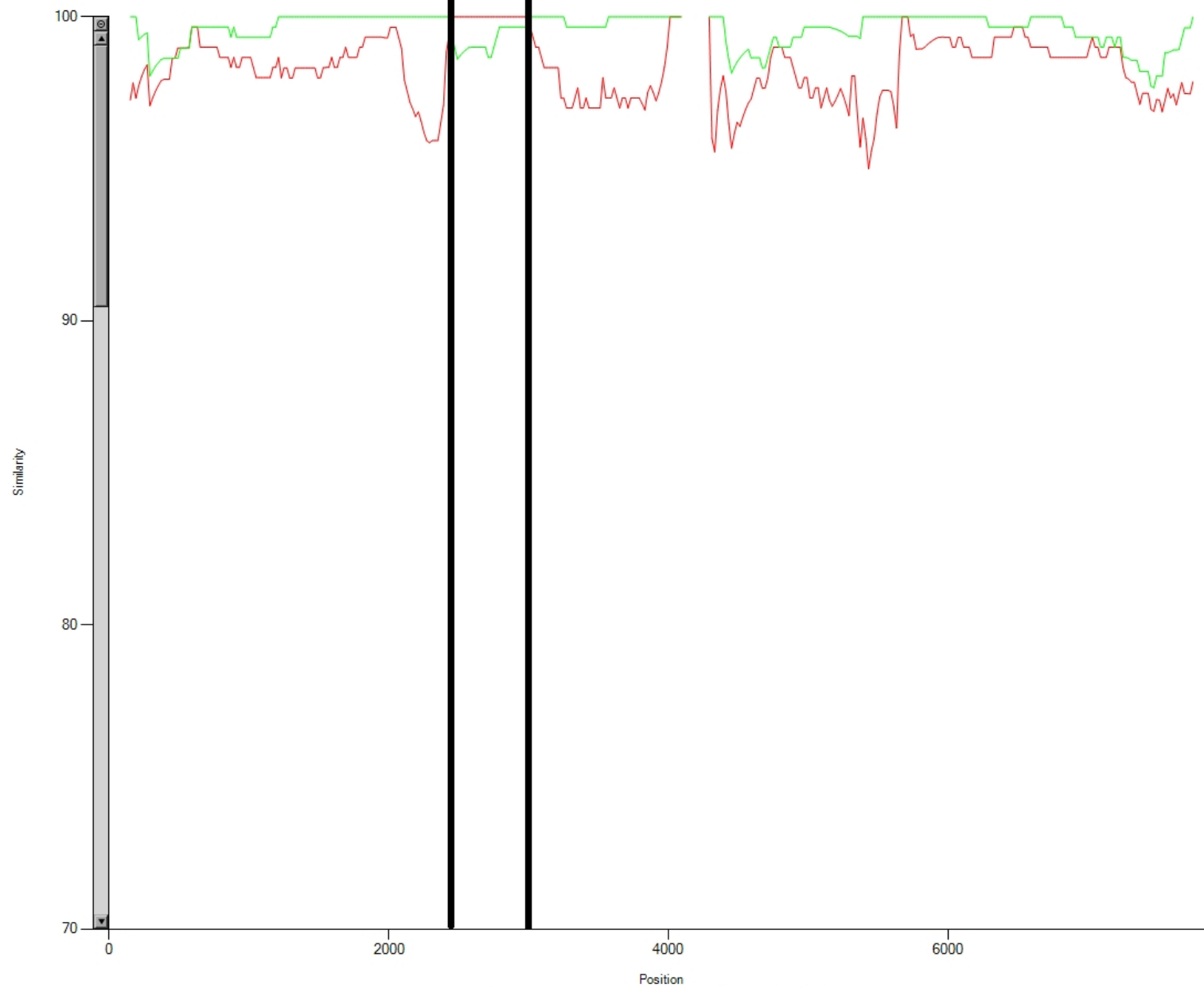
- NC_001526 - A
- AF536180 - B
- AF472509 - C
- HQ644257 - D

Rec. seq 7



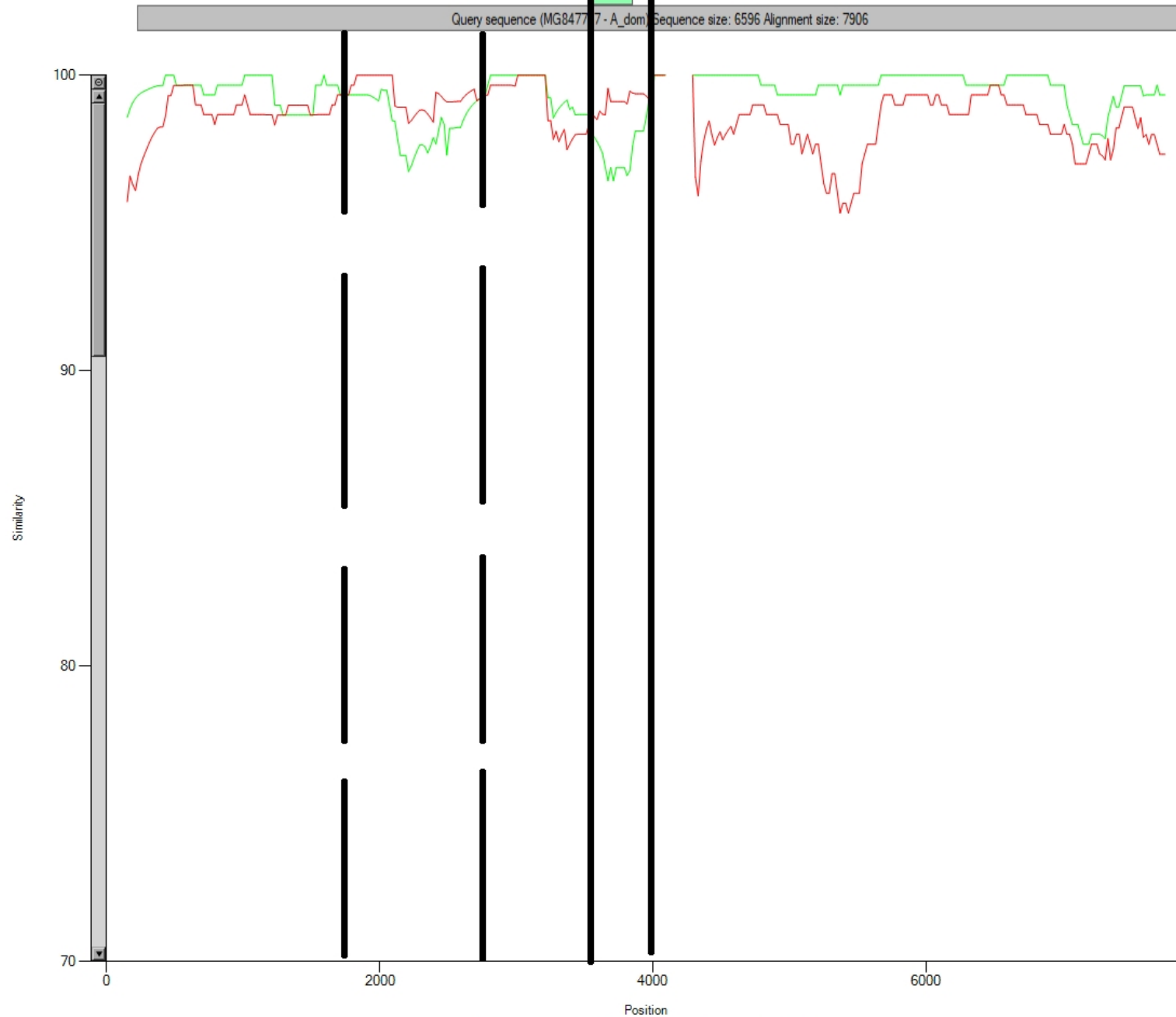
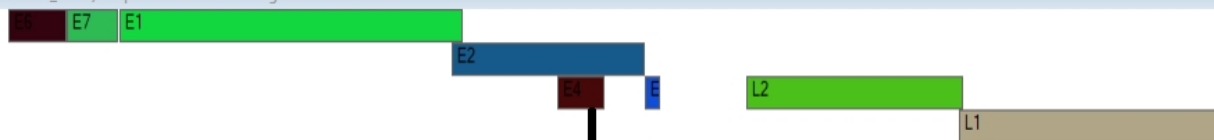
Rec

Query sequence (MG850440 - A_dom) Sequence size: 6604 Alignment size: 7906



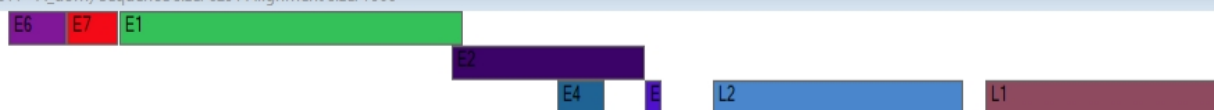
- HQ644257 - D
- NC_001526 - A
- AF536180 - B
- AF472509 - C

Rec. seq 8

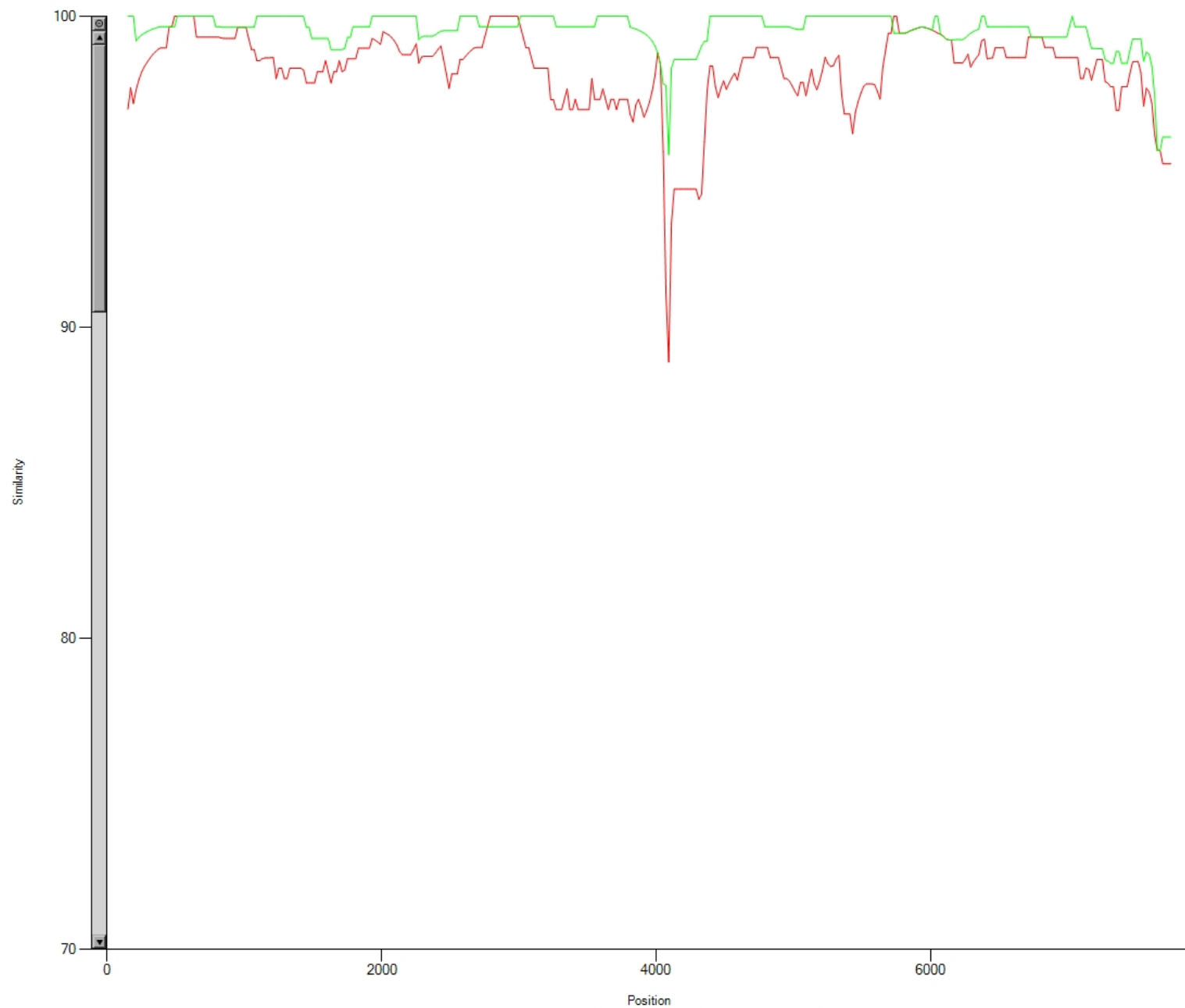


Query sequence (MG847737 - A_dom) Sequence size: 6596
Step: 20 - Window: 300

Rec. seq 9



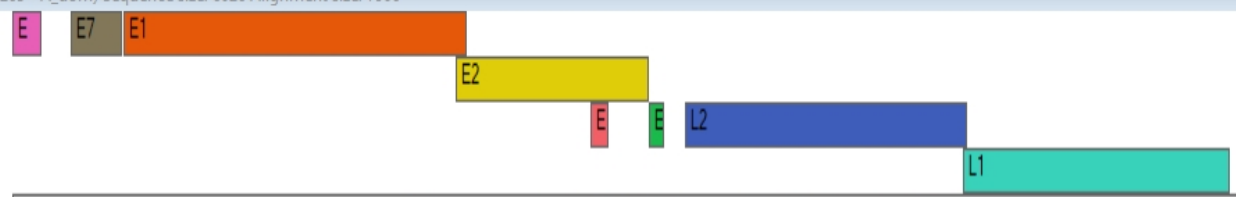
Query sequence (MT316244 - A_dom) Sequence size: 6291 Alignment size: 7906



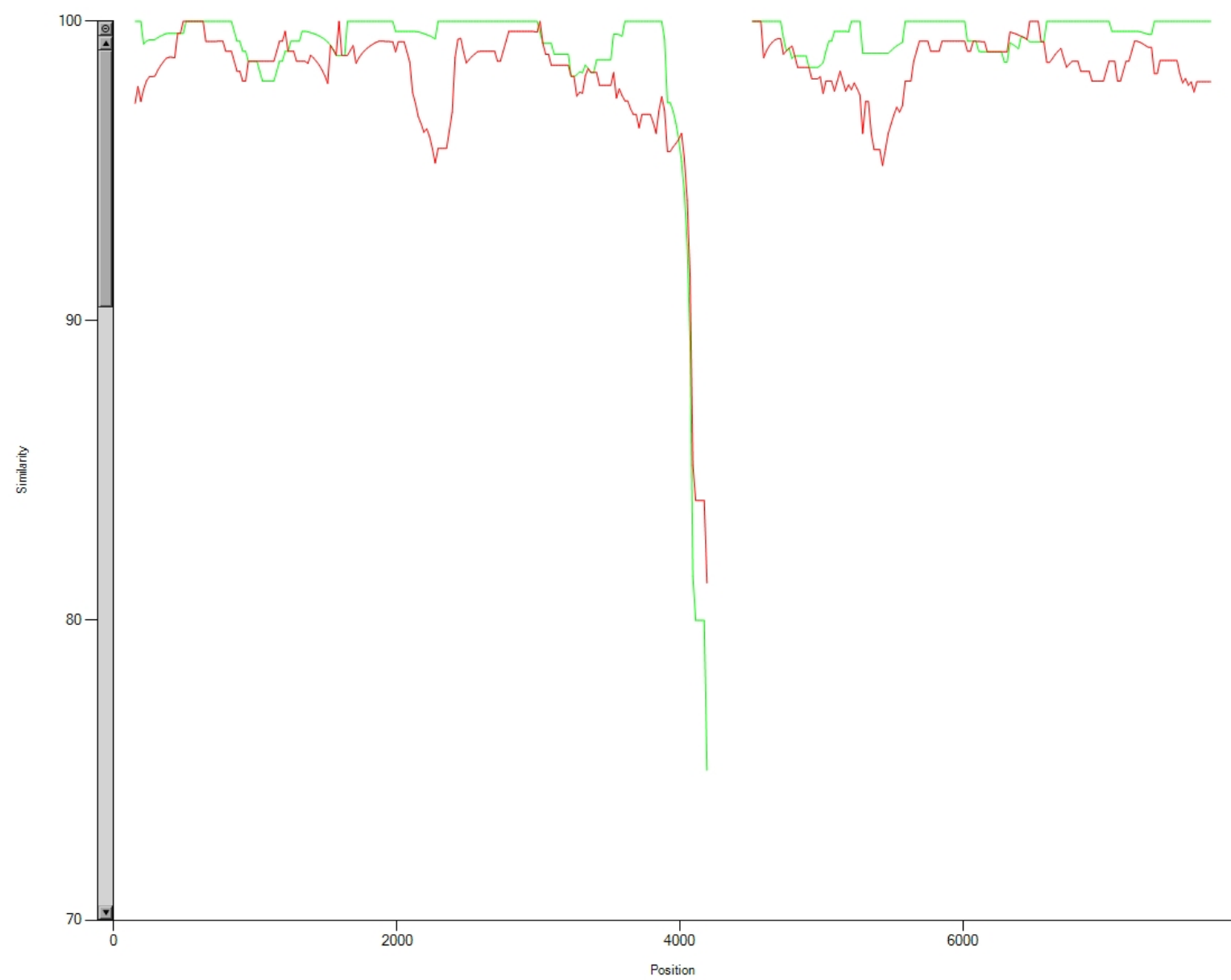
HQ644257 - D
AF472509 - C
NC_001526 - A
AF536180 - B

Query sequence (MT316244 - A_dom) Sequence size: 6291
Step: 20 - Window: 300

Rec. seq 10

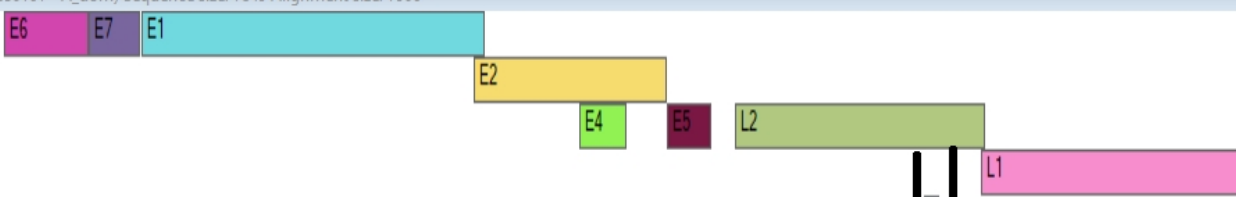


Query sequence (MT316265 - A_dom) Sequence size: 6026 Alignment size: 7906

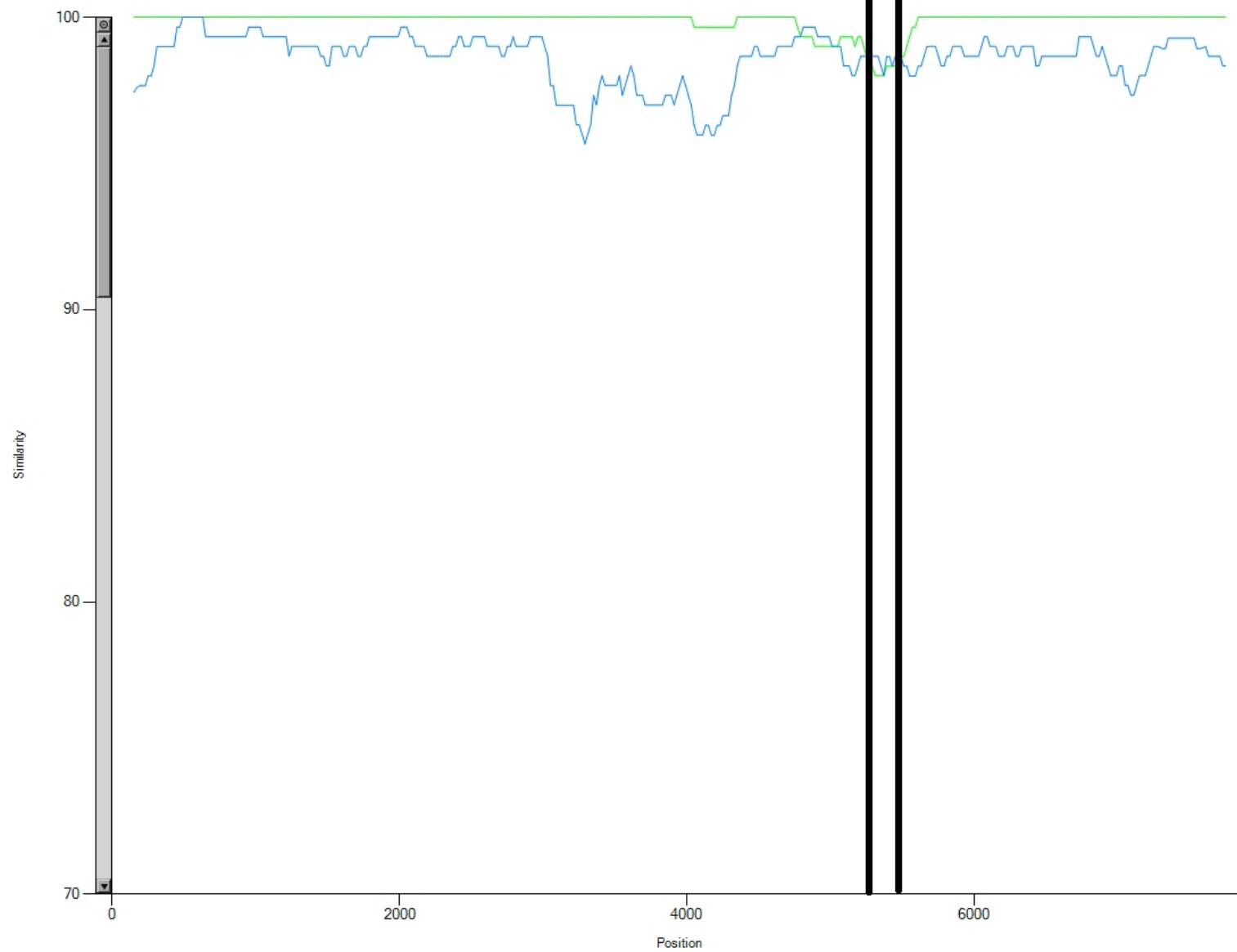


AF472509 - C
NC_001526 - A
AF536180 - B
HQ644257 - D

Rec. seq 11

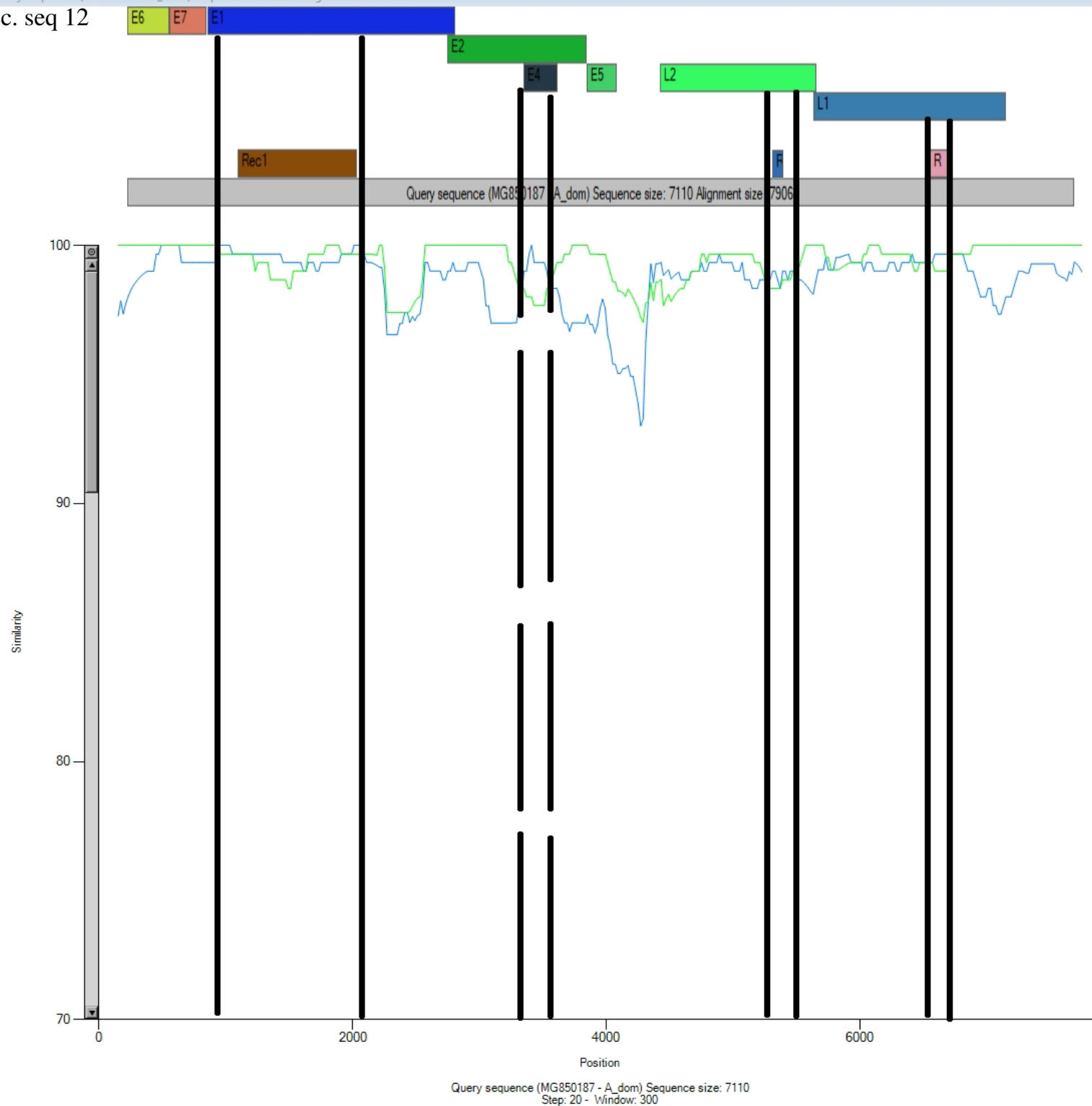


Query sequence (MG850161 - A_dom) Sequence size: 7849 Alignment size: 7906



- NC_001526 - A
- AF536180 - B
- AF472509 - C
- HQ644257 - D

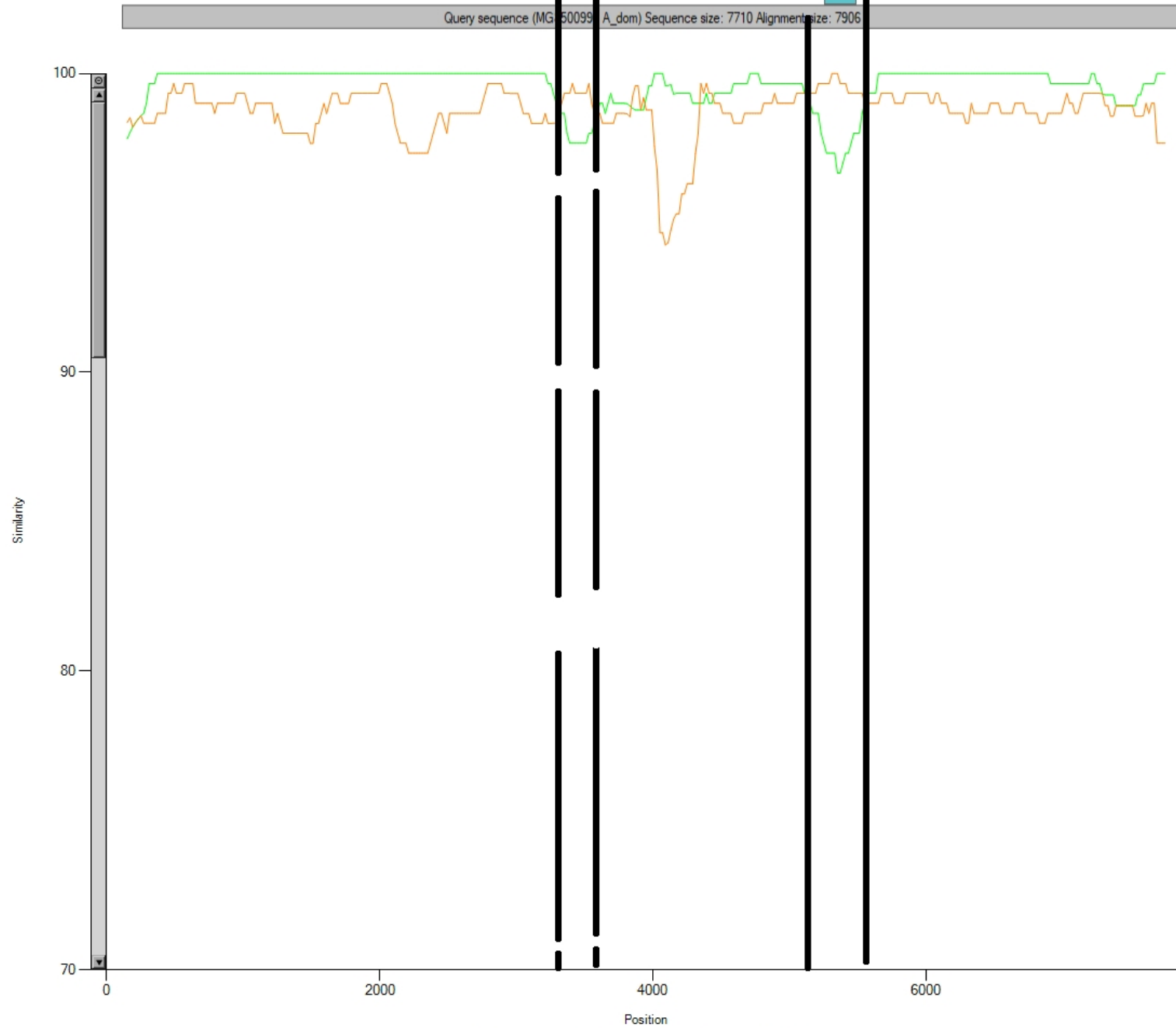
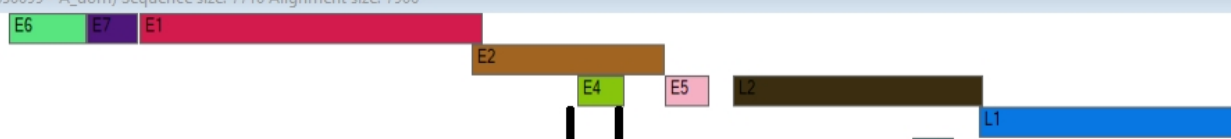
Rec. seq 12



- AF536180 - B
- NC_001526 - A
- AF472509 - C
- HQ644257 - D

Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

Rec. seq 13

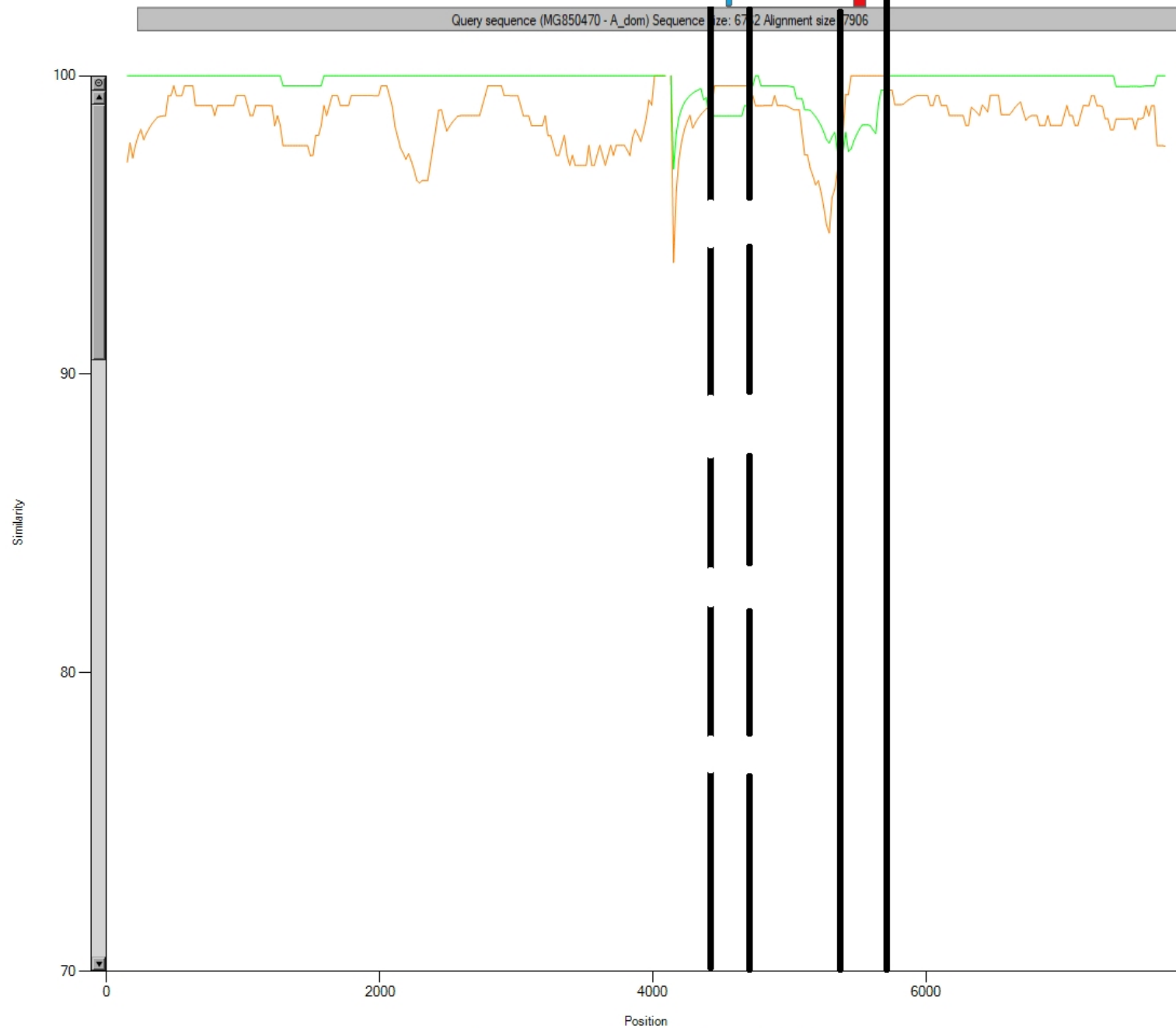
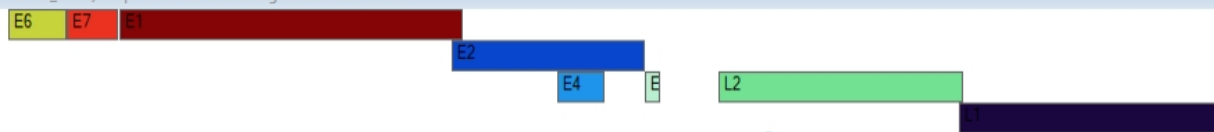


Query sequence (MG850099 - A_dom) Sequence size: 7710
Step: 20 - Window: 300

- NC_001526 - A
- HQ644257 - D
- AF472509 - C
- AF536180 - B

Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

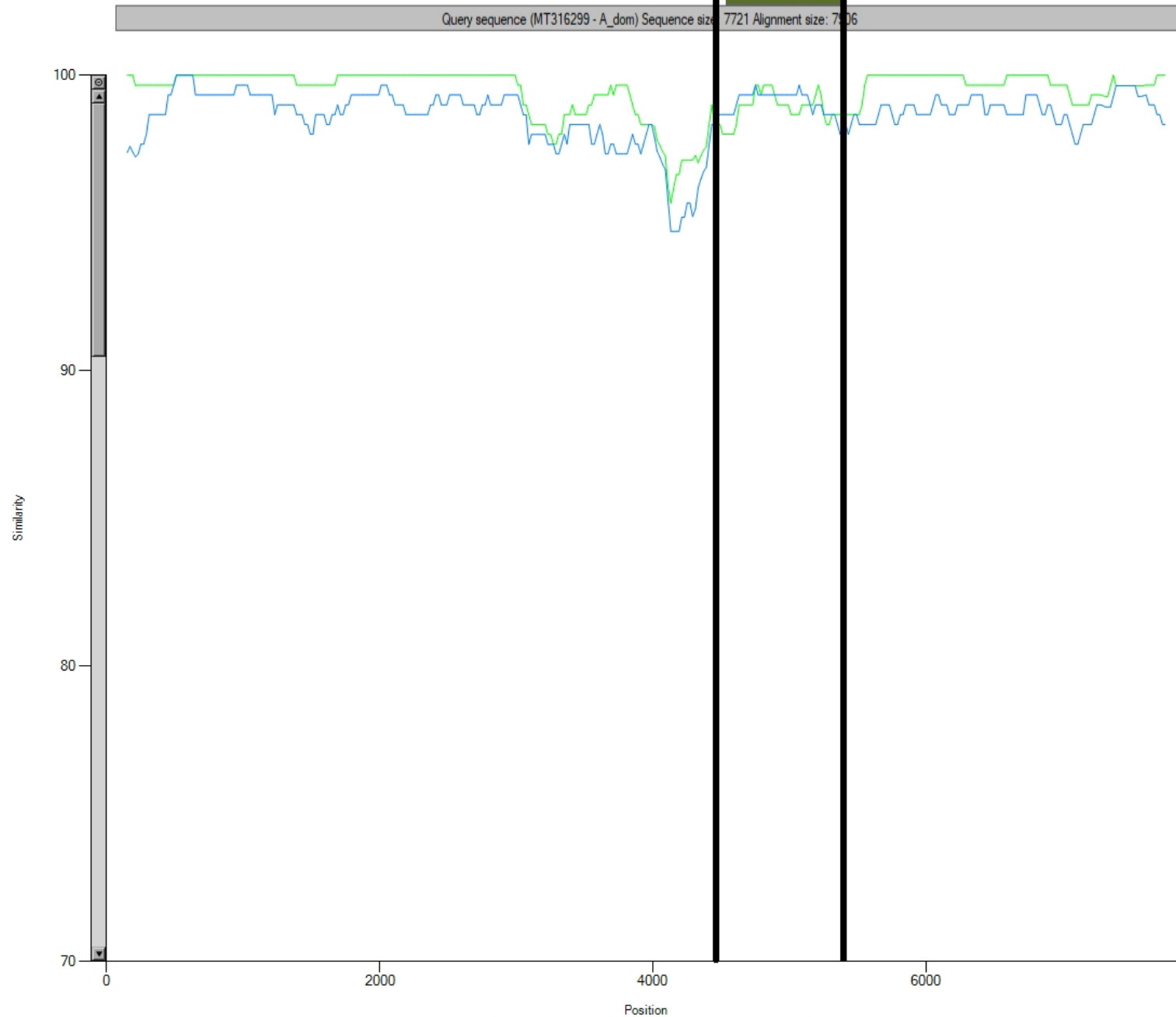
Rec. seq 14



- AF472509 - C
- NC_001526 - A
- AF536180 - B
- HQ644257 - D

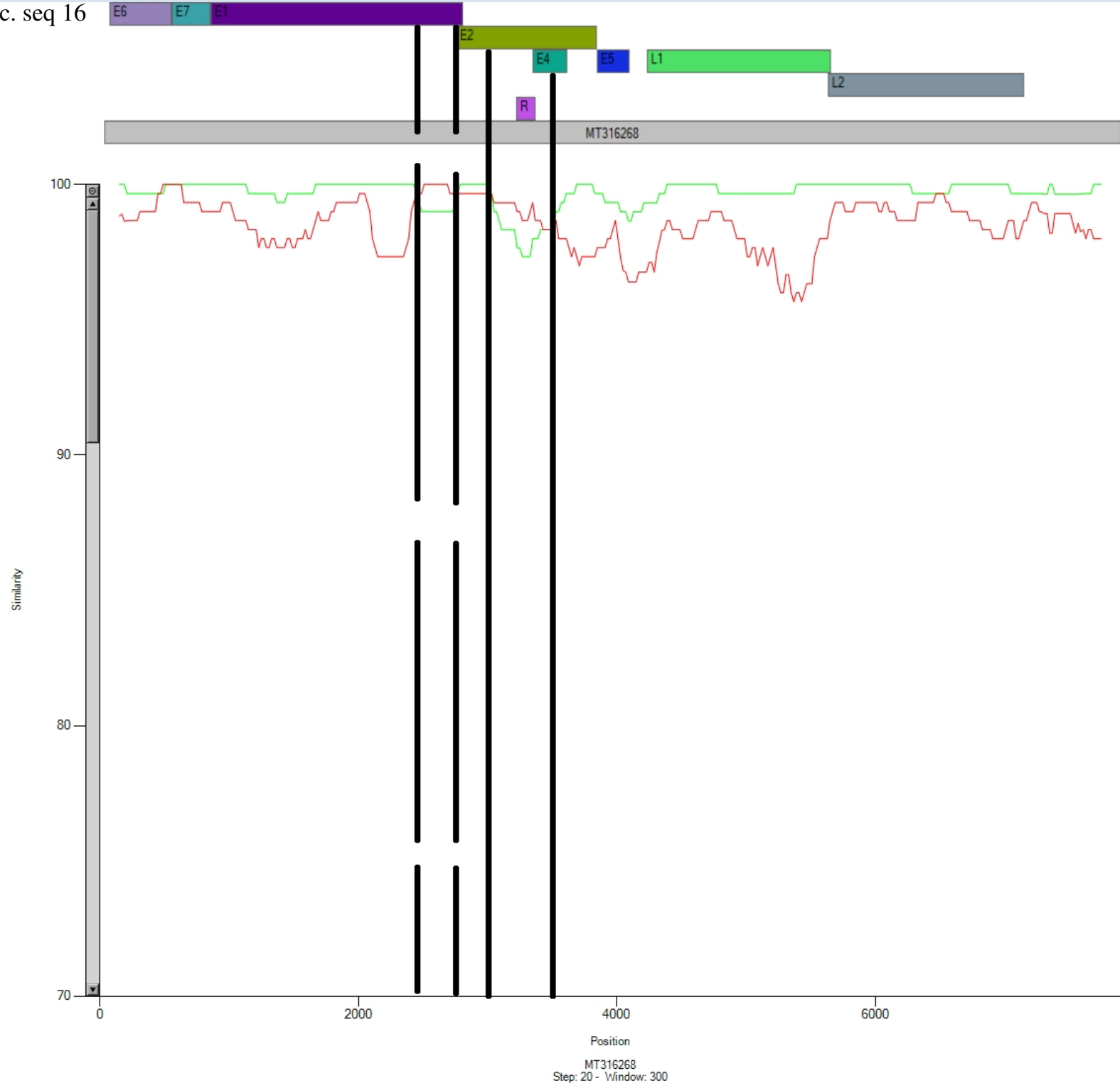
Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

Rec. seq 15



Query sequence (MT316299 - A_dom) Sequence size: 7721
Step: 20 - Window: 300

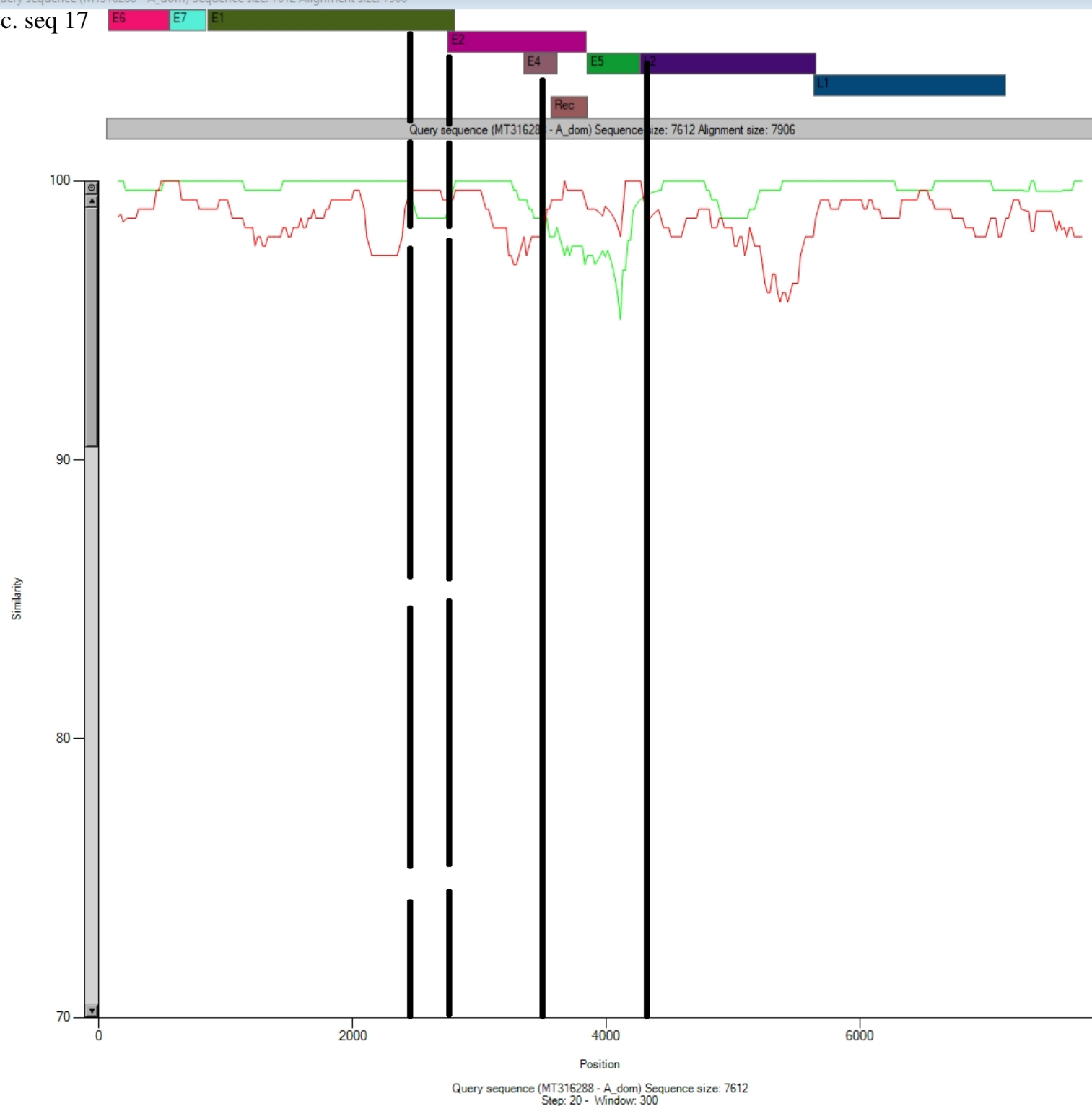
HQ644257 - D
NC_001526 - A
AF536180 - B
AF472509 - C



AF536180
NC_001526
AF472509
HQ644257

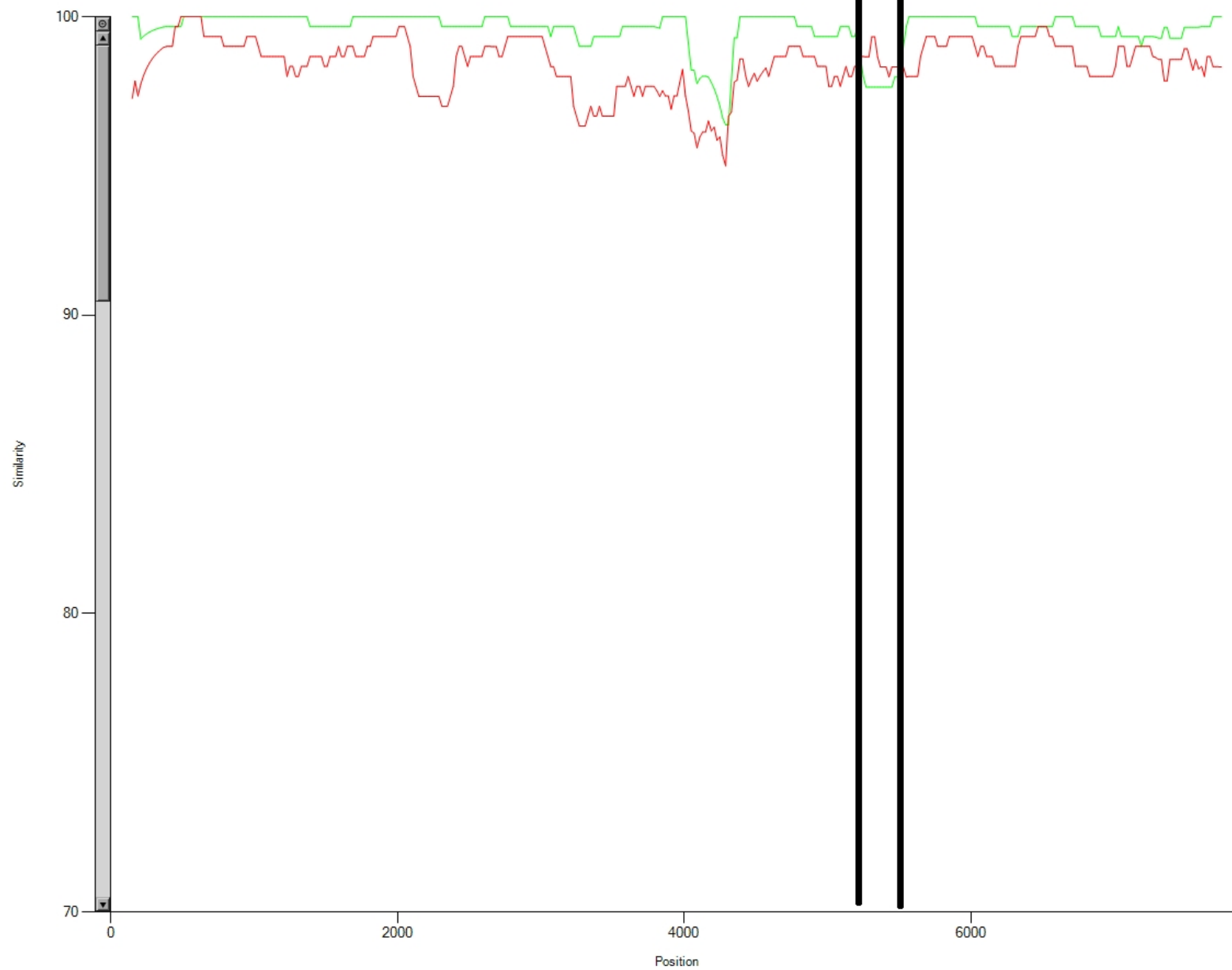
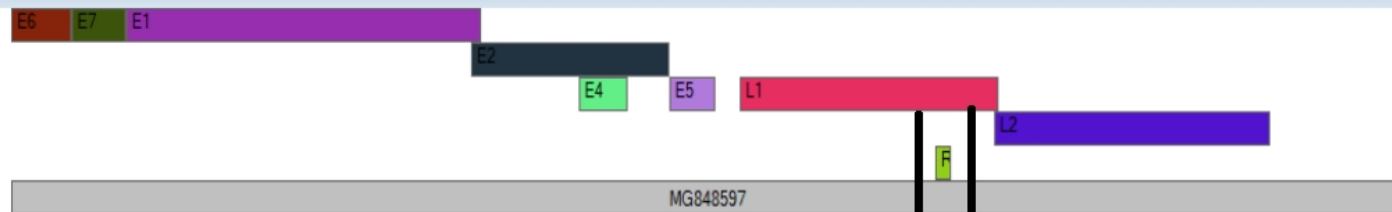
Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

Rec. seq 17



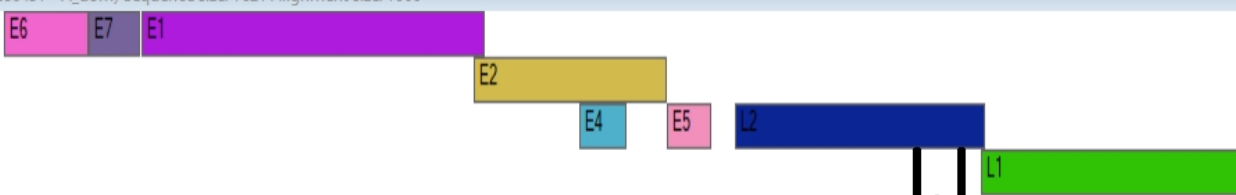
AF472509 - C
NC_001526 - A
AF536180 - B
HQ644257 - D

Dotted lines represent the lower confidence
recombination crossover sites
(recombination events supported by 2 or
less lineage specific SNPs)

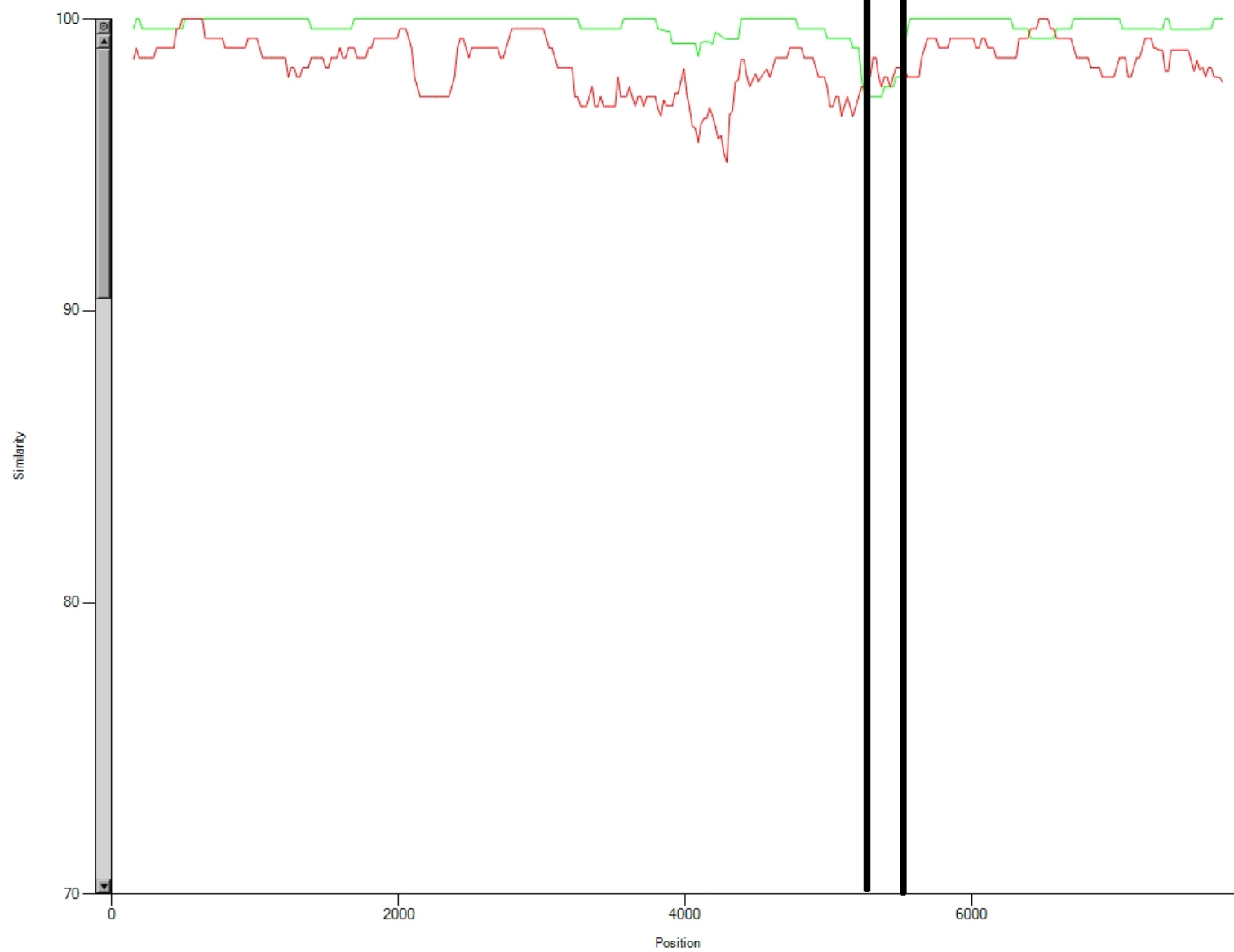


- AF536180
- NC_001526
- AF472509
- HQ644257

Rec. seq 19



Query sequence (MG850431 - A_dom) Sequence size: 7621 Alignment size: 7906



NC_001526 - A
AF536180 - B
AF472509 - C
HQ644257 - D

Rec. seq 20

Similarity

100
90
80
70

0

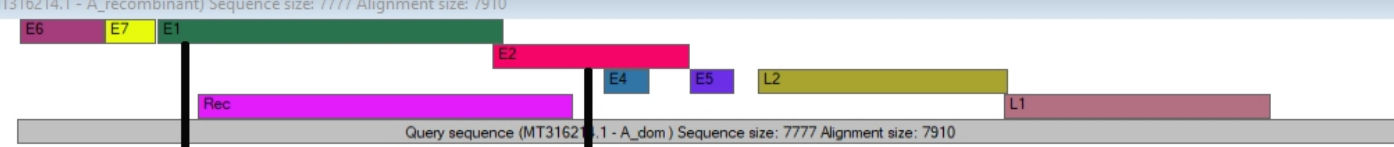
2000

Position

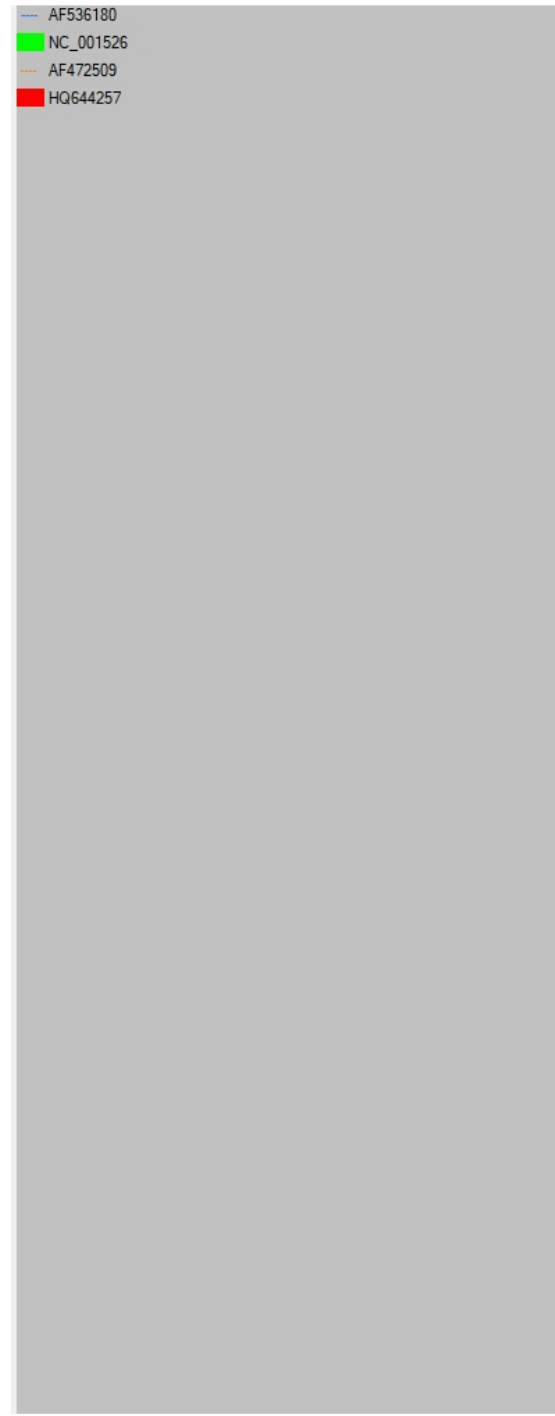
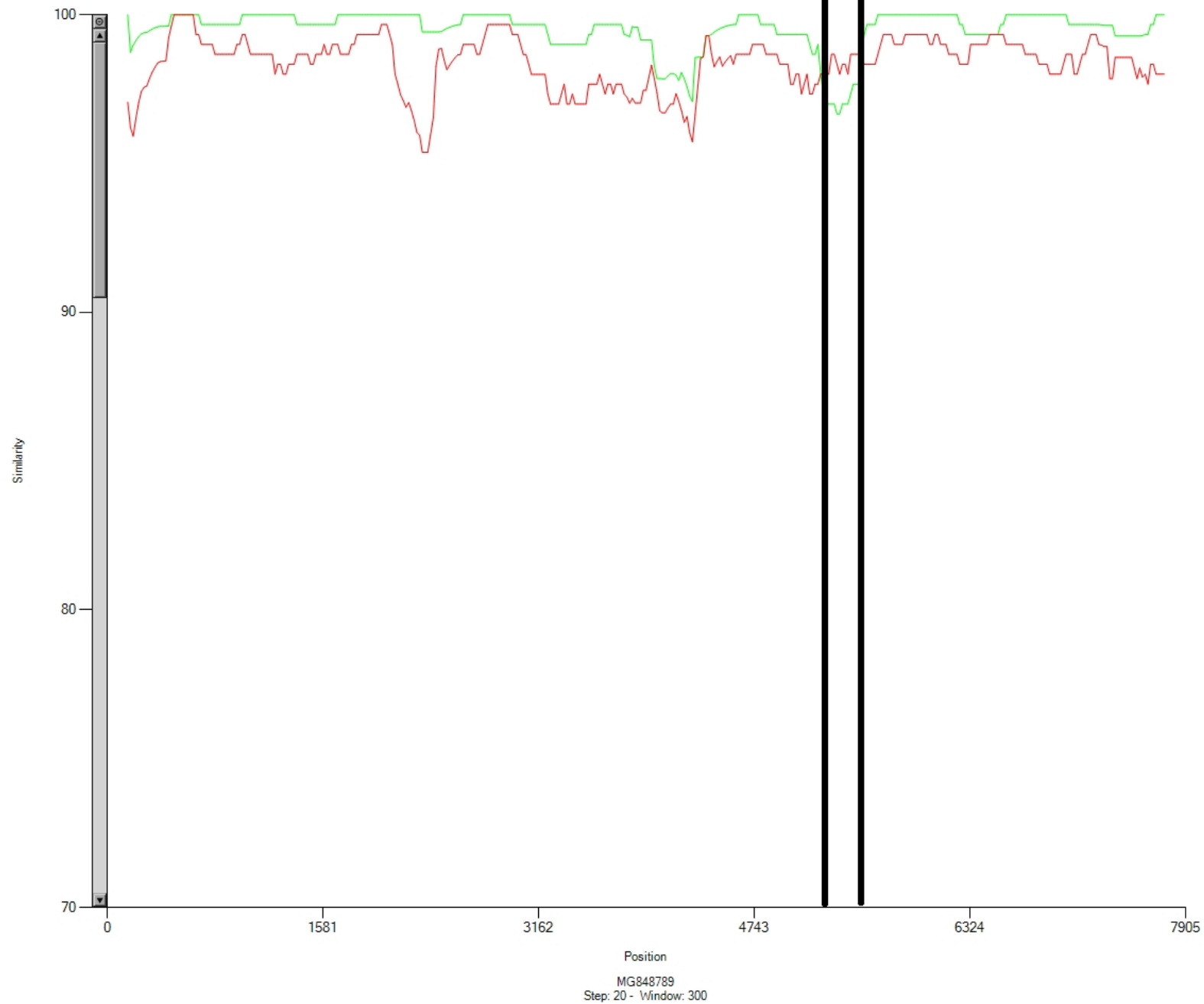
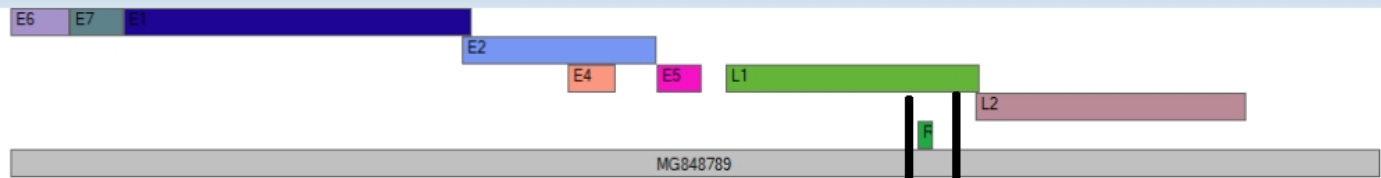
4000

6000

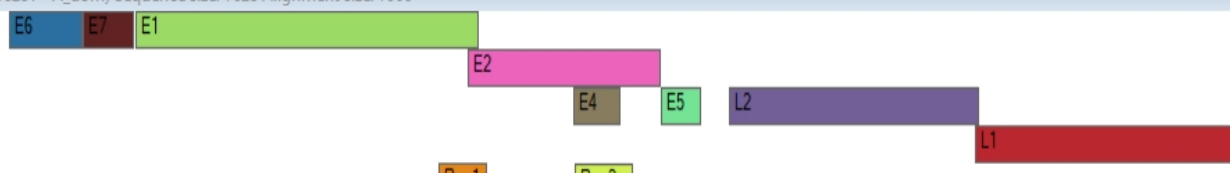
Query sequence (MT316214.1 - A_recombinant) Sequence size: 7777
Step: 20 - Window: 300



- HQ644257.1 - D
- AF472509.1 - C
- NC_001526.4 - A
- AF536180.1 - B



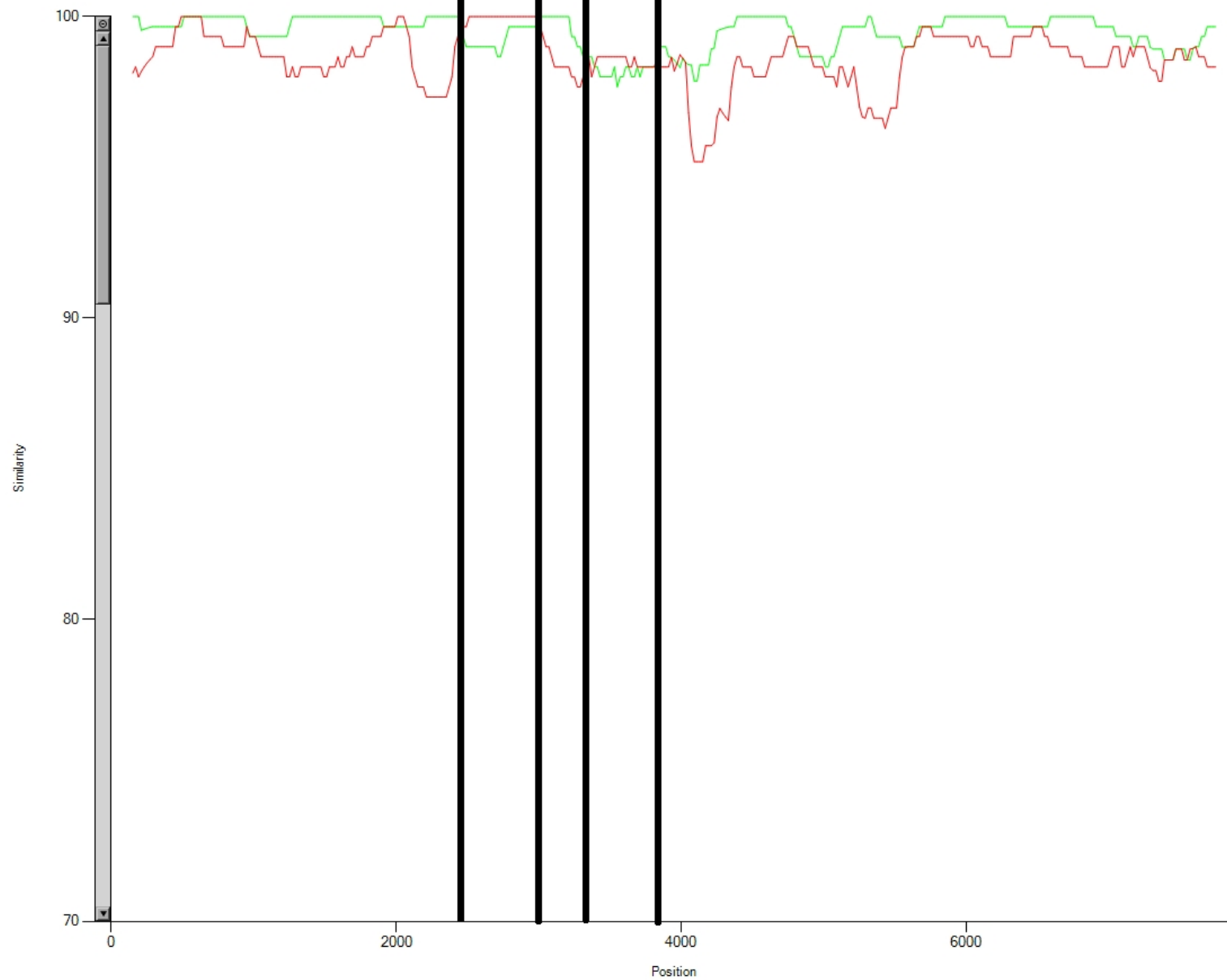
Rec. seq 22



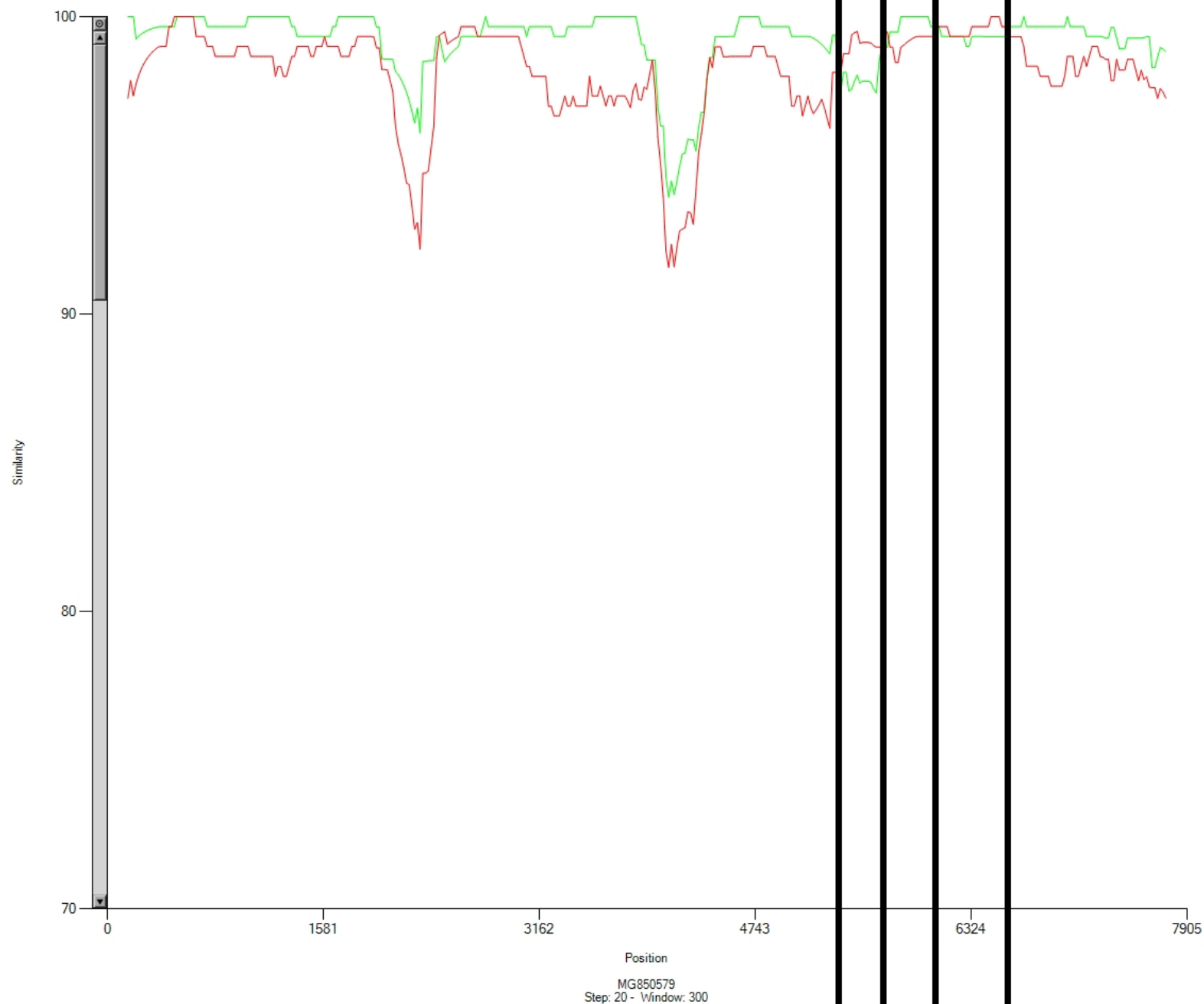
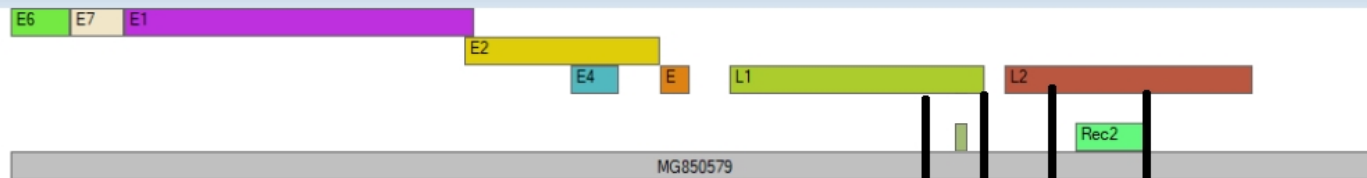
Rec1

Rec2

Query sequence (MT316281 - A_dom) Sequence size: 7628 Alignment size: 7906



NC_001526 - A
AF536180 - B
AF472509 - C
HQ644257 - D



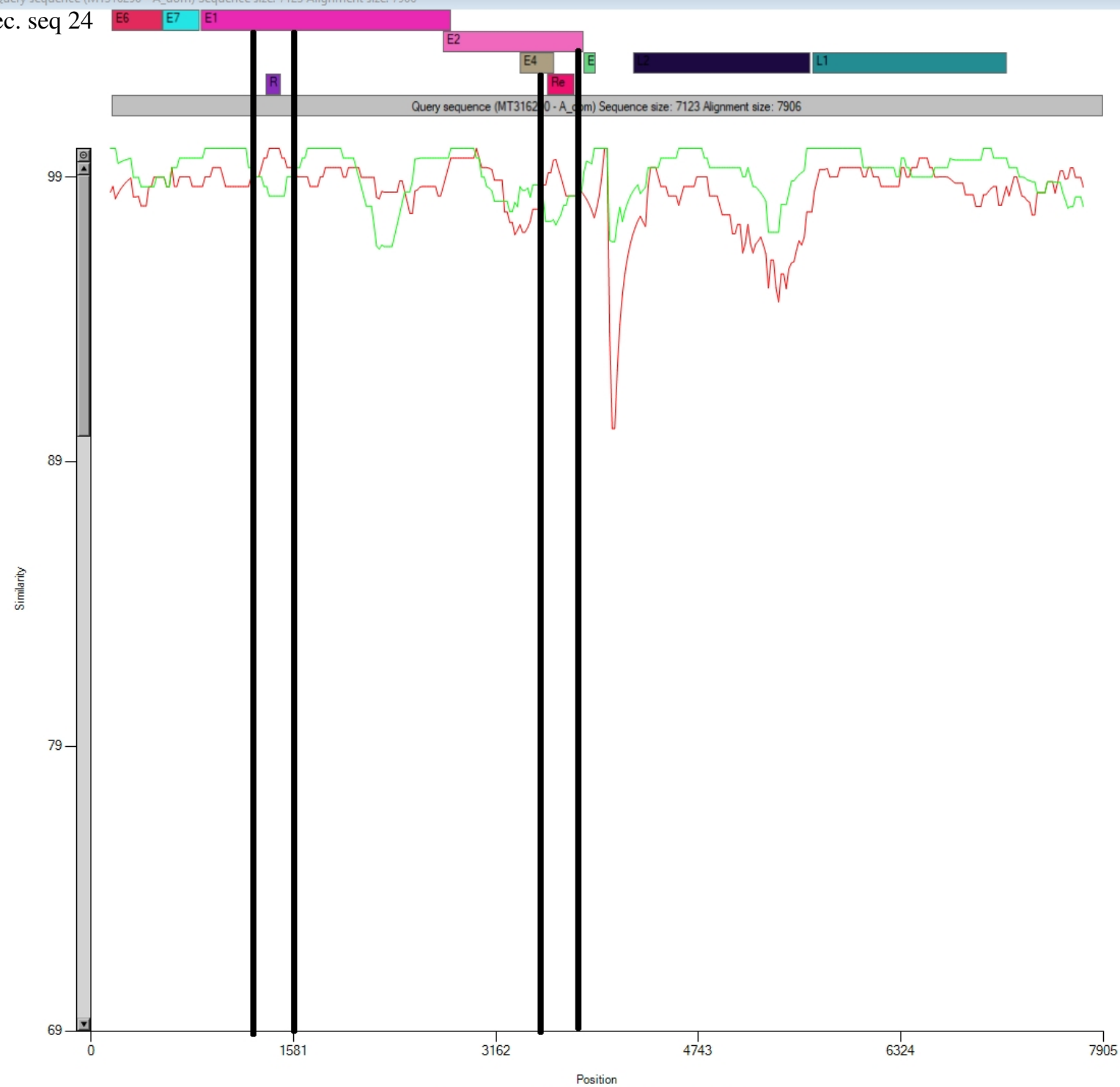
AF536180

NC_001526

AF472509

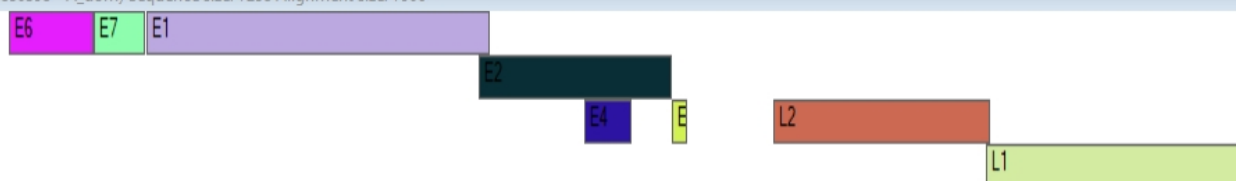
HQ644257

Rec. seq 24



HQ644257 - D
AF472509 - C
NC_001526 - A
AF536180 - B

Rec. seq 25



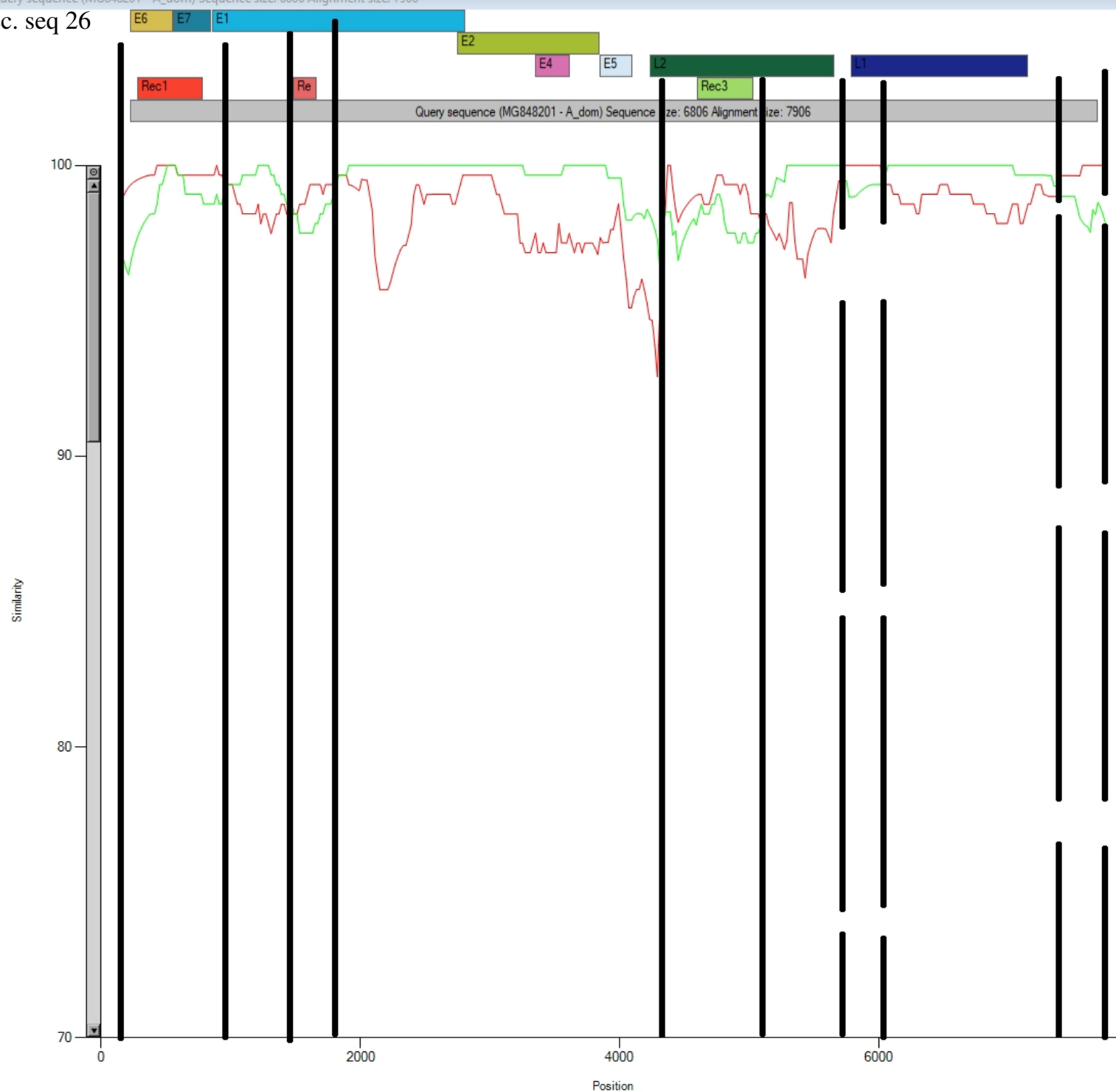
Query sequence (MG850398 - A_dom) Sequence size: 7258 Alignment size: 7906



Query sequence (MG850398 - A_dom) Sequence size: 7258
Step: 20 - Window: 300

NC_001526 - A
AF536180 - B
AF472509 - C
HQ644257 - D

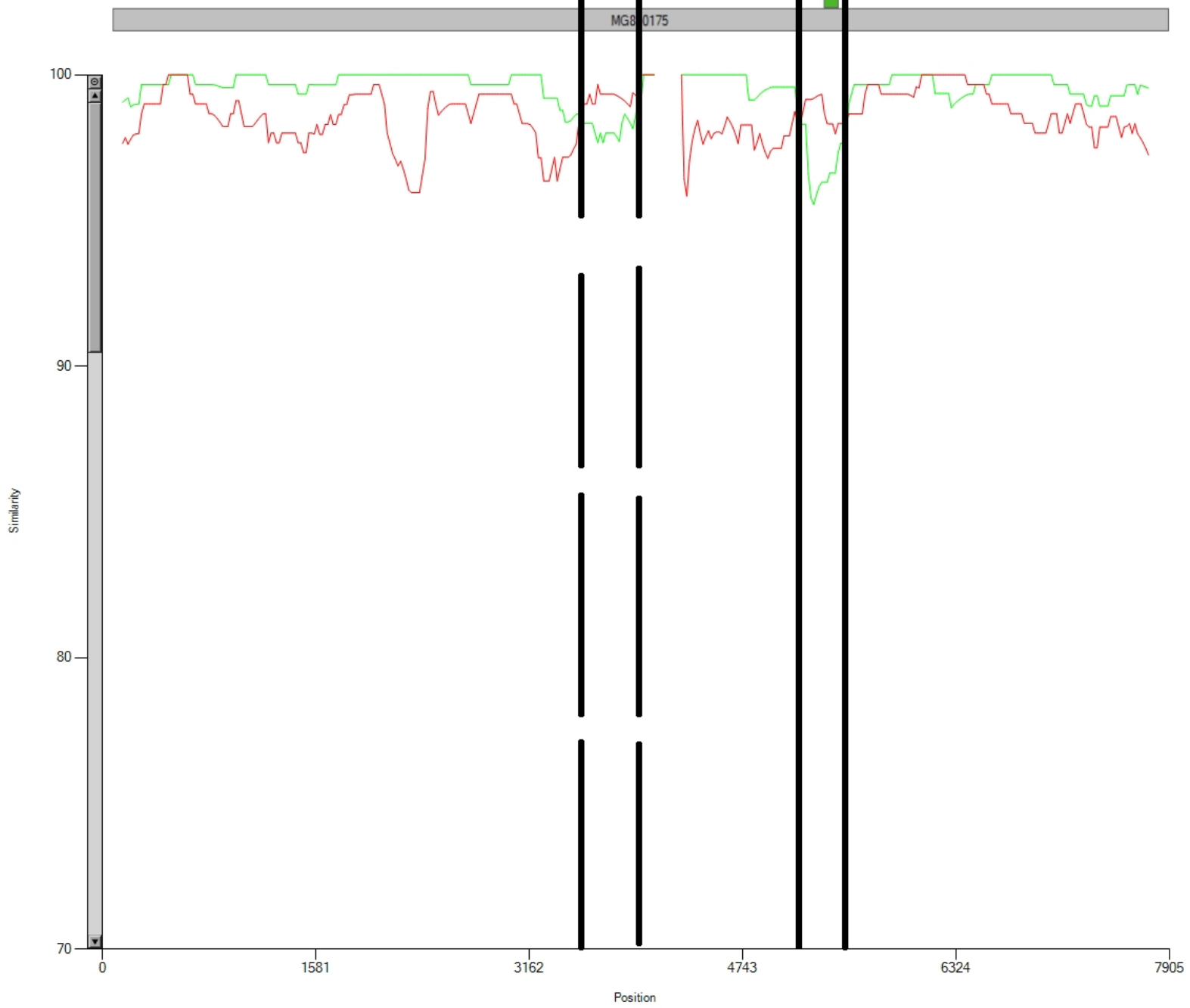
Rec. seq 26



HQ644257 - D
AF472509 - C
NC_001526 - A
AF536180 - B

Dotted lines represent the lower confidence
recombination crossover sites
(recombination events supported by 2 or
less lineage specific SNPs)

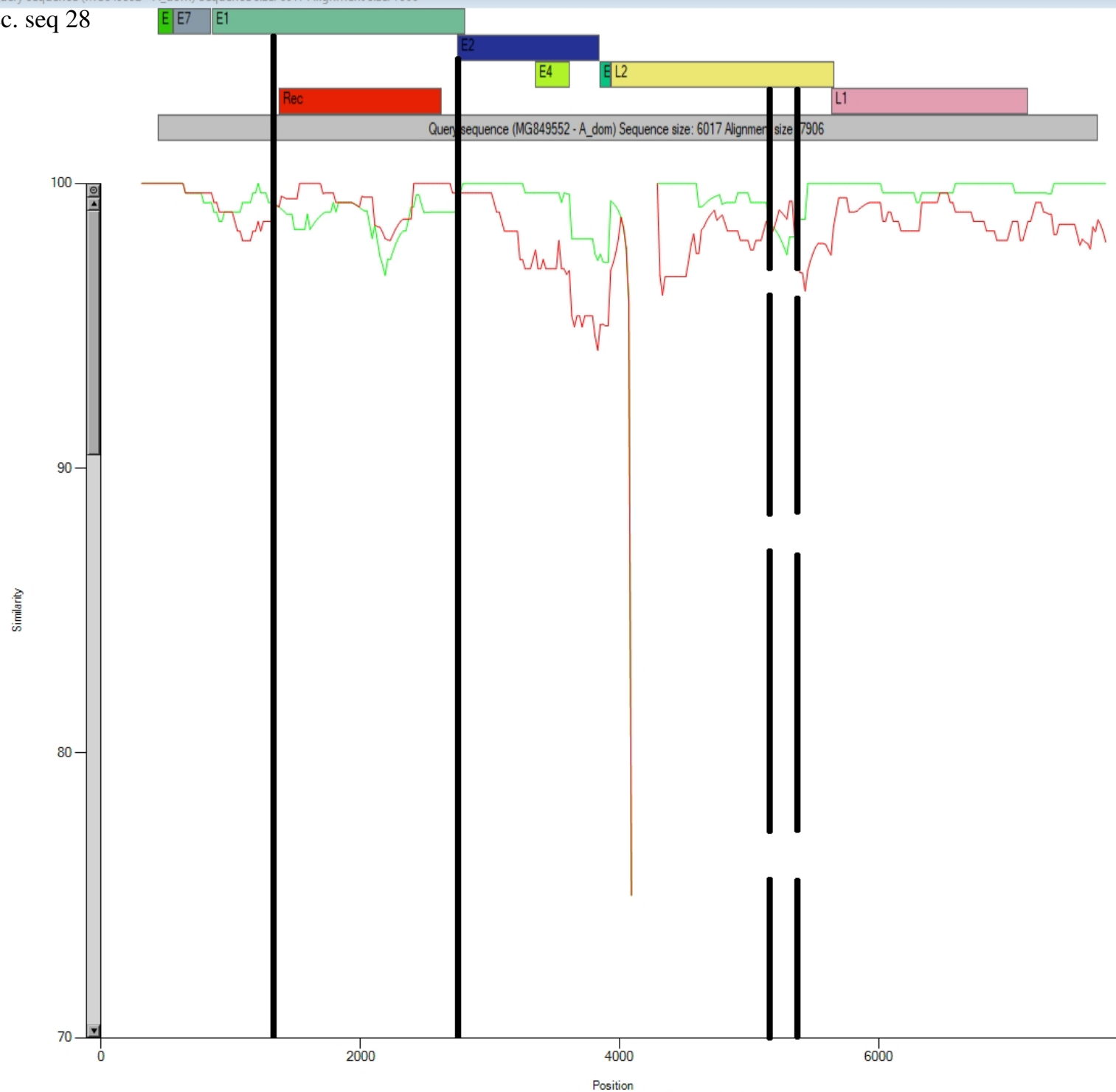
Rec. seq 27



- AF536180
- NC_001526
- AF472509
- HQ644257

Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

Rec. seq 28

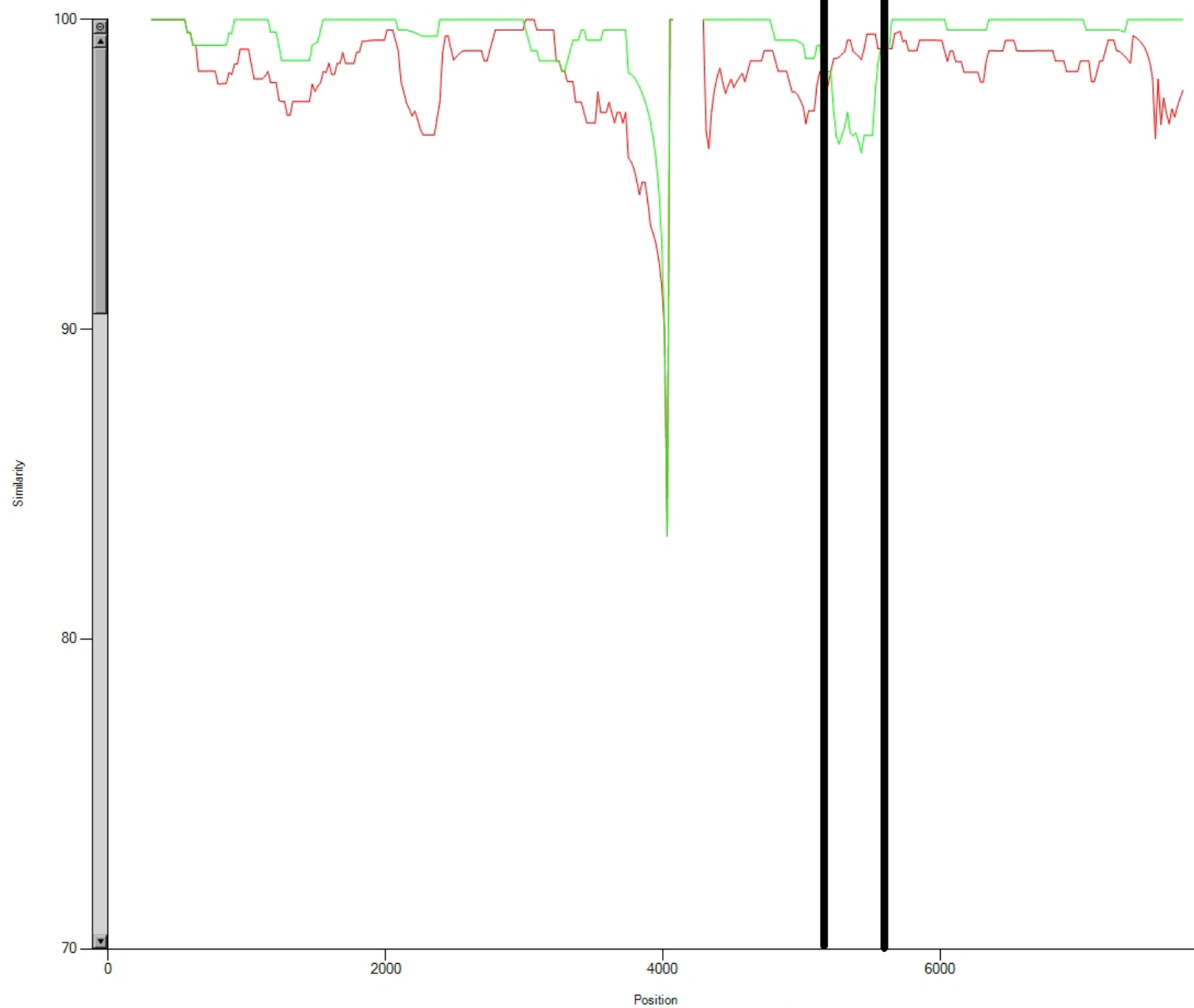


Query sequence (MG849552 - A_dom) Sequence size: 6017
Step: 20 - Window: 300

NC_001526 - A
AF536180 - B
AF472509 - C
HQ644257 - D

Dotted lines represent the lower confidence
recombination crossover sites
(recombination events supported by 2 or
less lineage specific SNPs)

Rec. seq 29



- HQ644257 - D
- AF472509 - C
- AF536180 - B
- NC_001526 - A

Rec. seq 30

Similarity

100
90
80
70

0

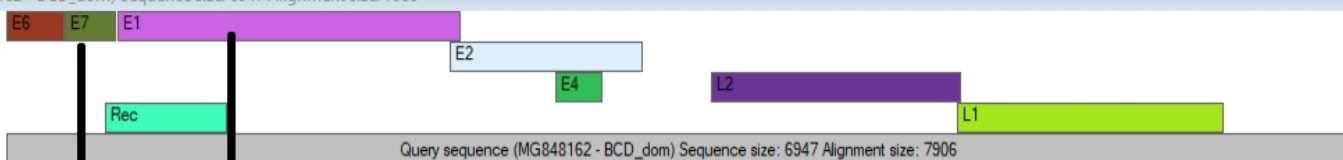
2000

Position

4000

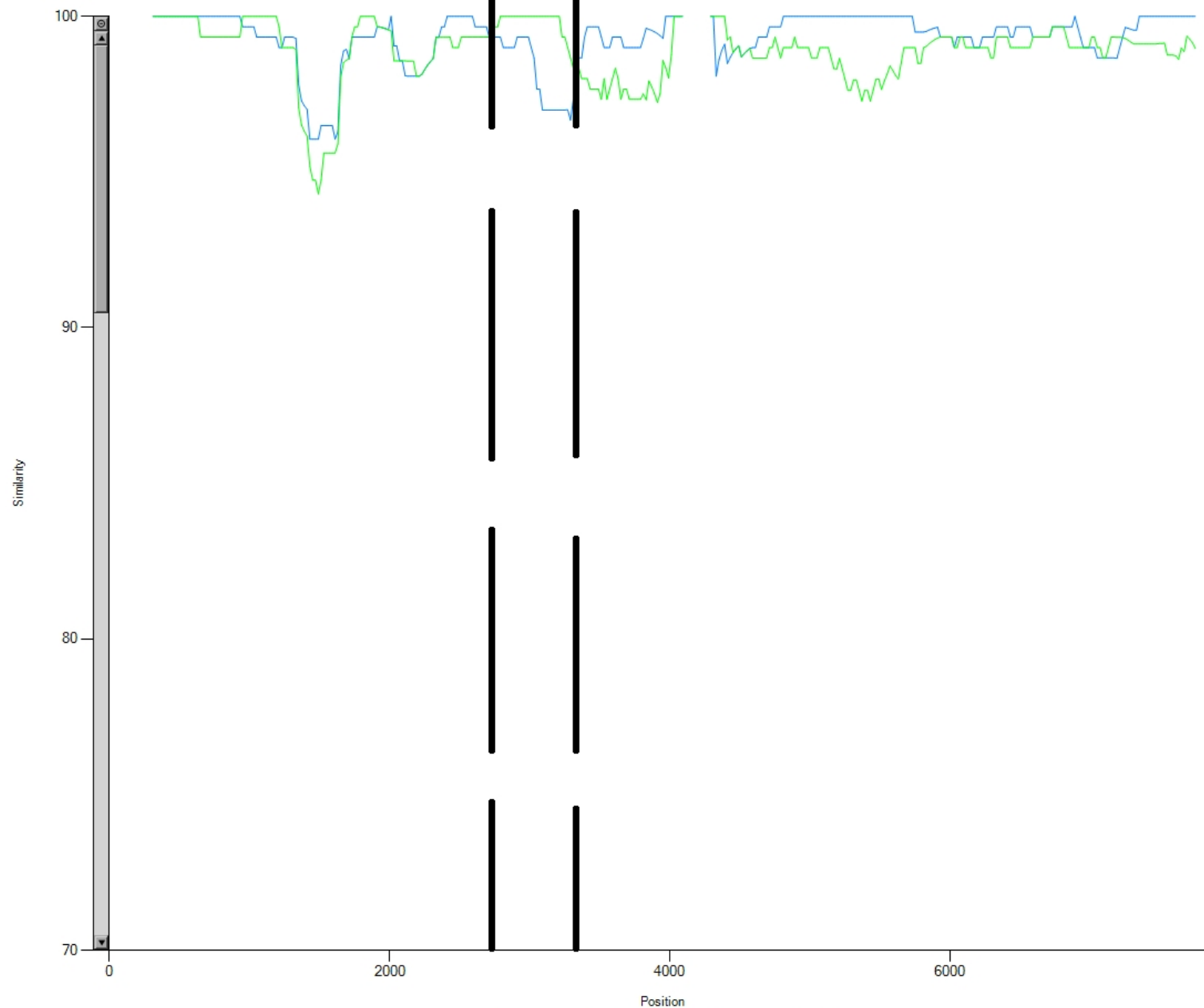
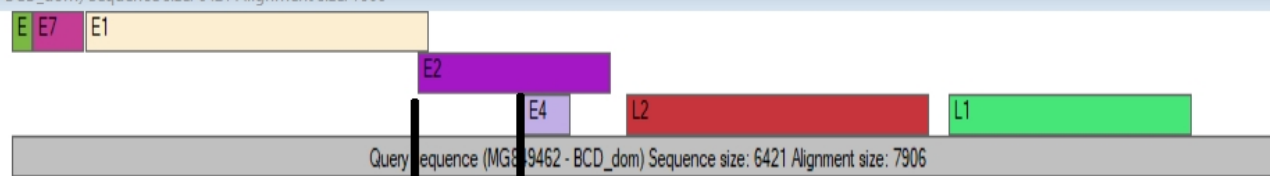
6000

Query sequence (MG848162 - BCD_dom) Sequence size: 6947
Step: 20 - Window: 300



- AF536180 - B
- NC_001526 - A
- AF472509 - C
- HQ644257 - D

Rec. seq 31



Query sequence (MG849462 - BCD_dom) Sequence size: 6421
Step: 20 - Window: 300

AF536180 - B
NC_001526 - A
AF472509 - C
HQ644257 - D

Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

Rec. seq 32

Similarity

100
90
80
70

Query sequence (KY549190.1 - Ungrouped) Sequence size: 7906 Alignment size: 7910

Query sequence (KY549190.1 - Ungrouped) Sequence size: 7906
Step: 20 - Window: 300

- HQ644257.1 - D
- AF536180.1 - B
- AF472509.1 - C
- NC_001526.4 - A

E6 E7 E1

E2

E4

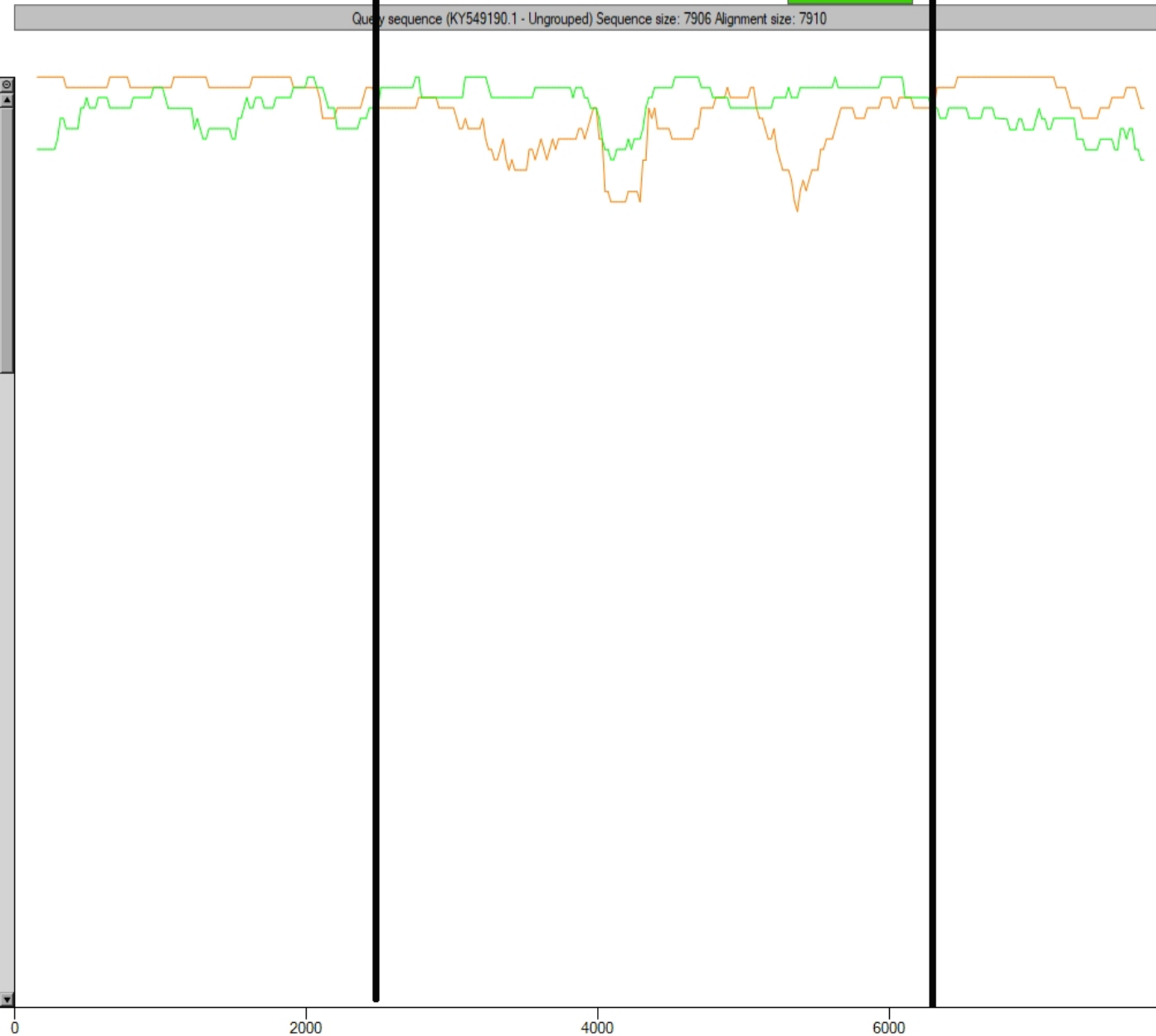
E5

L2

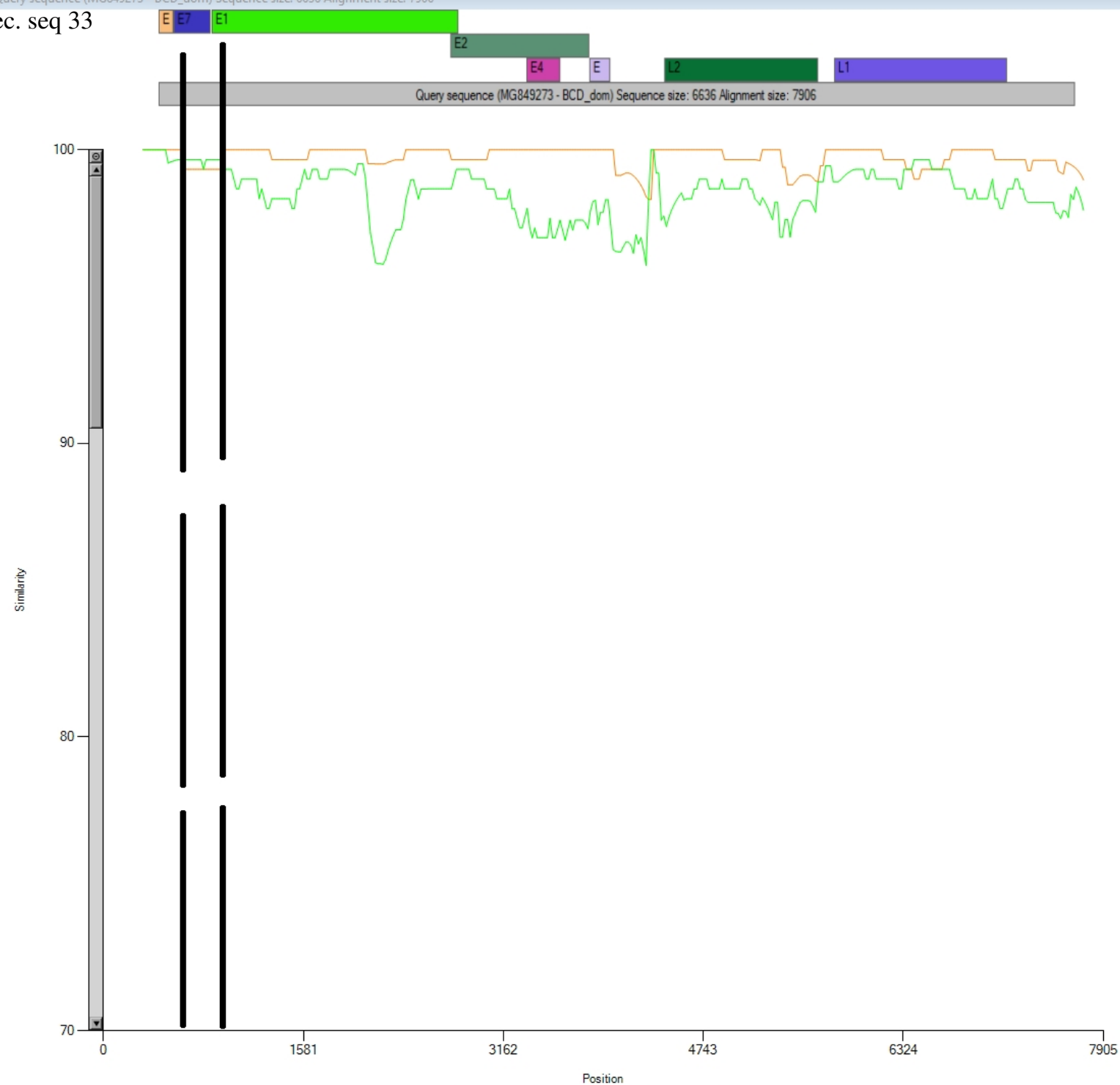
L1

Rec1

Rec2



Rec. seq 33



Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

Rec. seq 34

E6 E7 E1

E2

E4

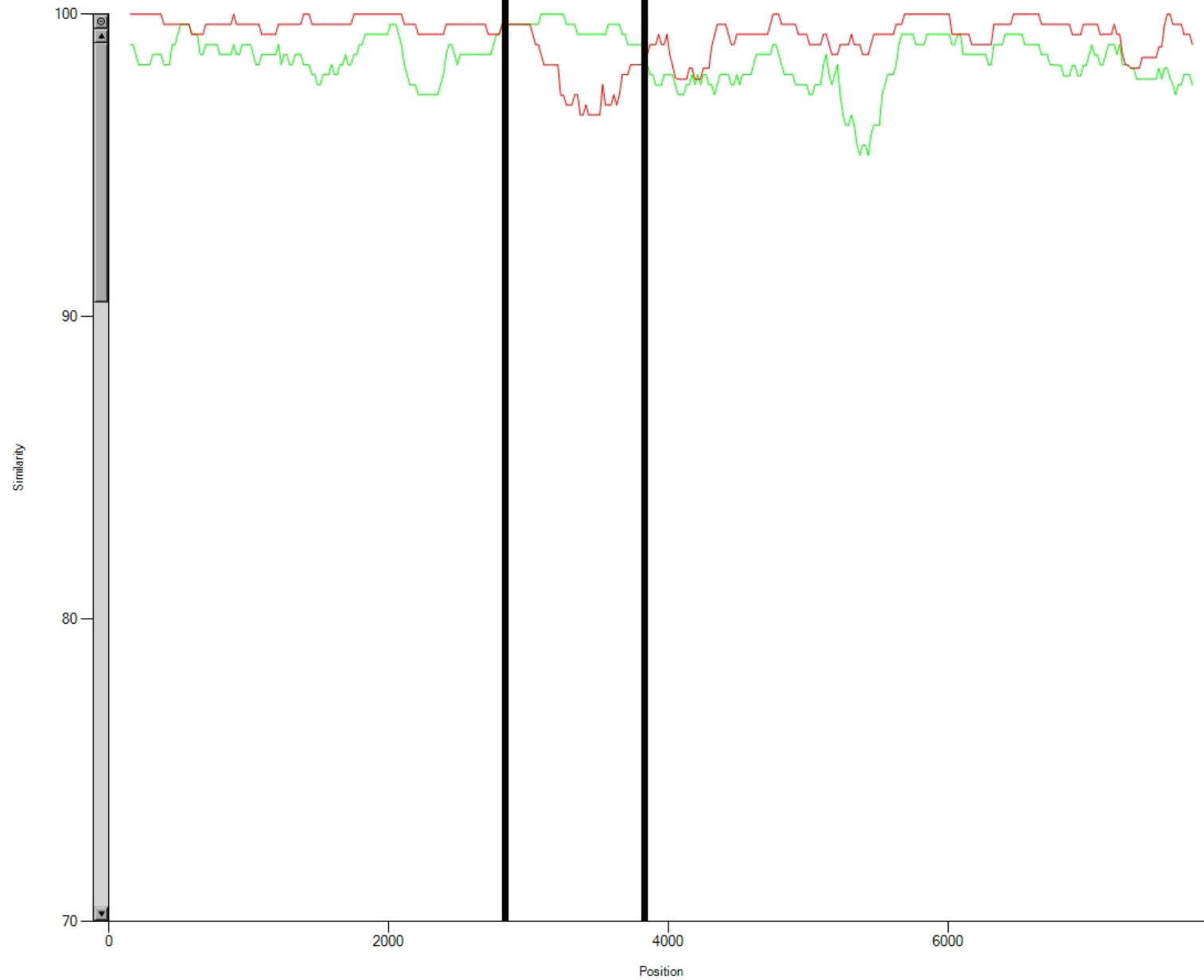
E5

L2

L1

Rec

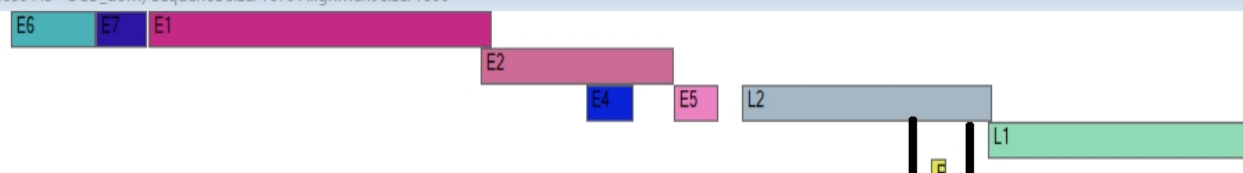
Query sequence (MT316301.1 - D_dom) S Sequence size: 7879 Alignment size: 7910



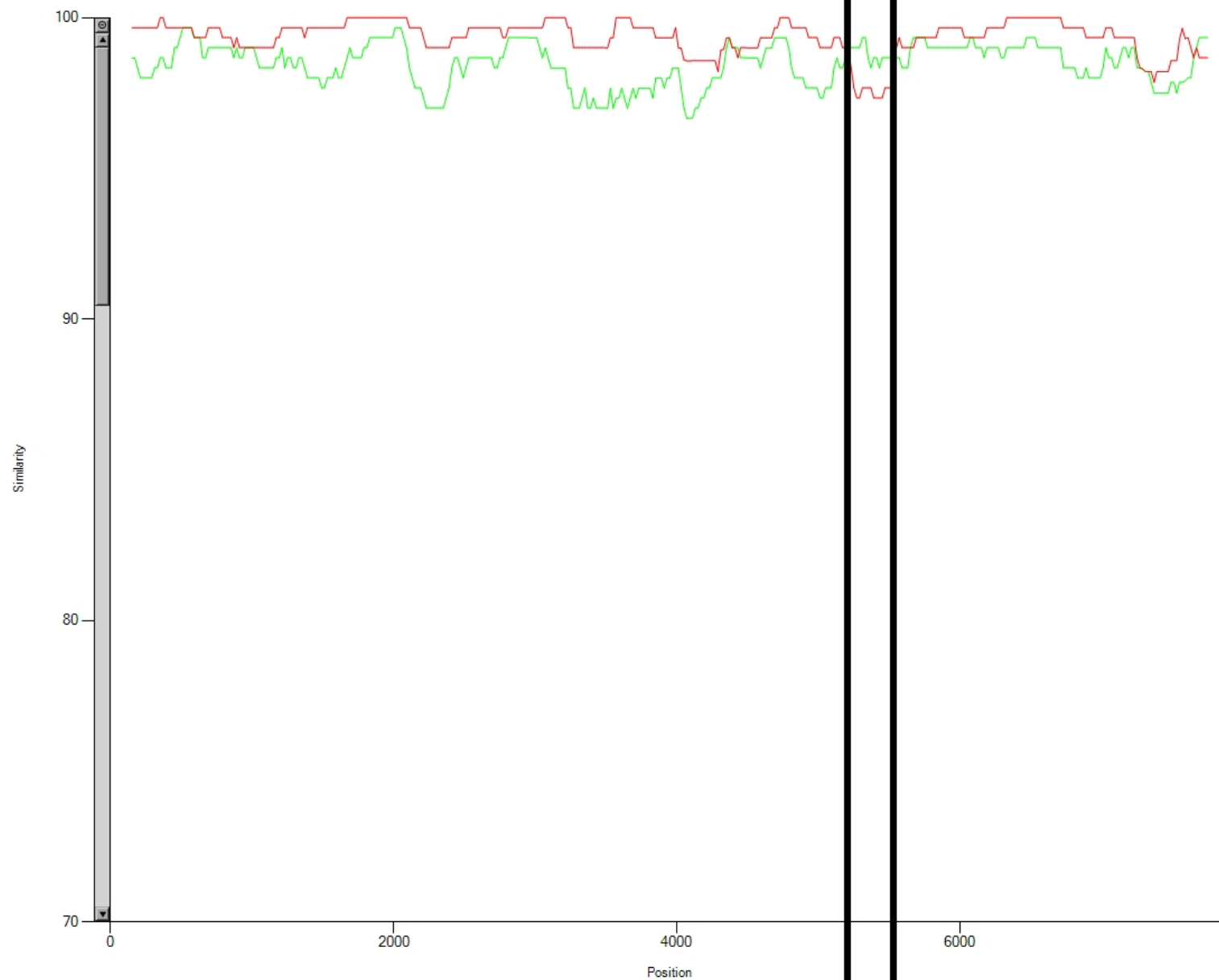
Query sequence (MT316301.1 - D_recombinant) Sequence size: 7879
Step: 20 - Window: 300

NC_001526.4 - A
AF536180.1 - B
AF472509.1 - C
HQ644257.1 - D

Rec. seq 35



Query sequence (MG850443 - BCD_dom) Sequence size: 7876 Alignment size: 7906



Query sequence (MG850443 - BCD_dom) Sequence size: 7876
Step: 20 - Window: 300

- NC_001526 - A
- HQ644257 - D
- AF536180 - B
- AF472509 - C

Rec. seq 36

E6 E7 E1

E2

E4

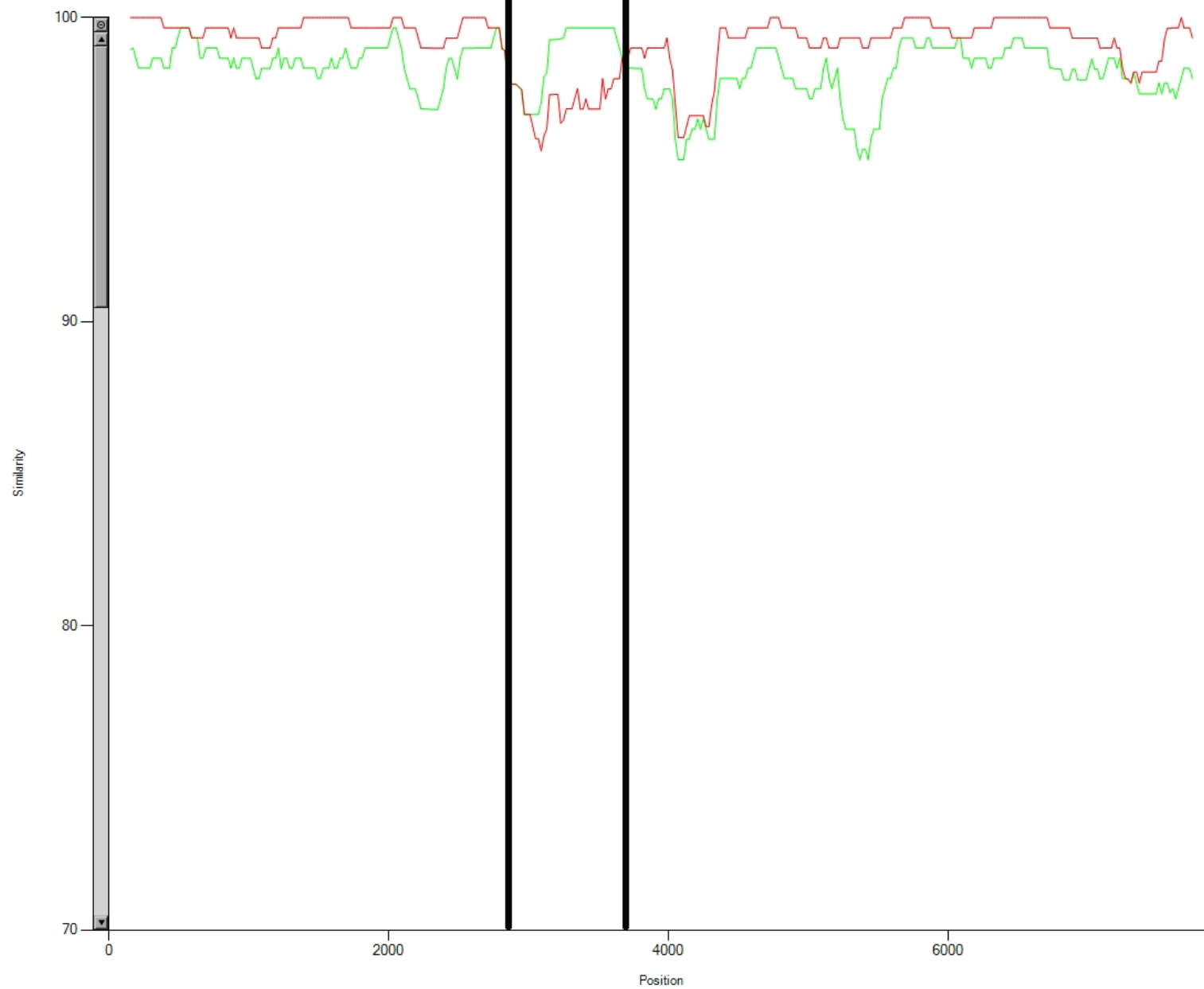
E5

L2

L1

Rec

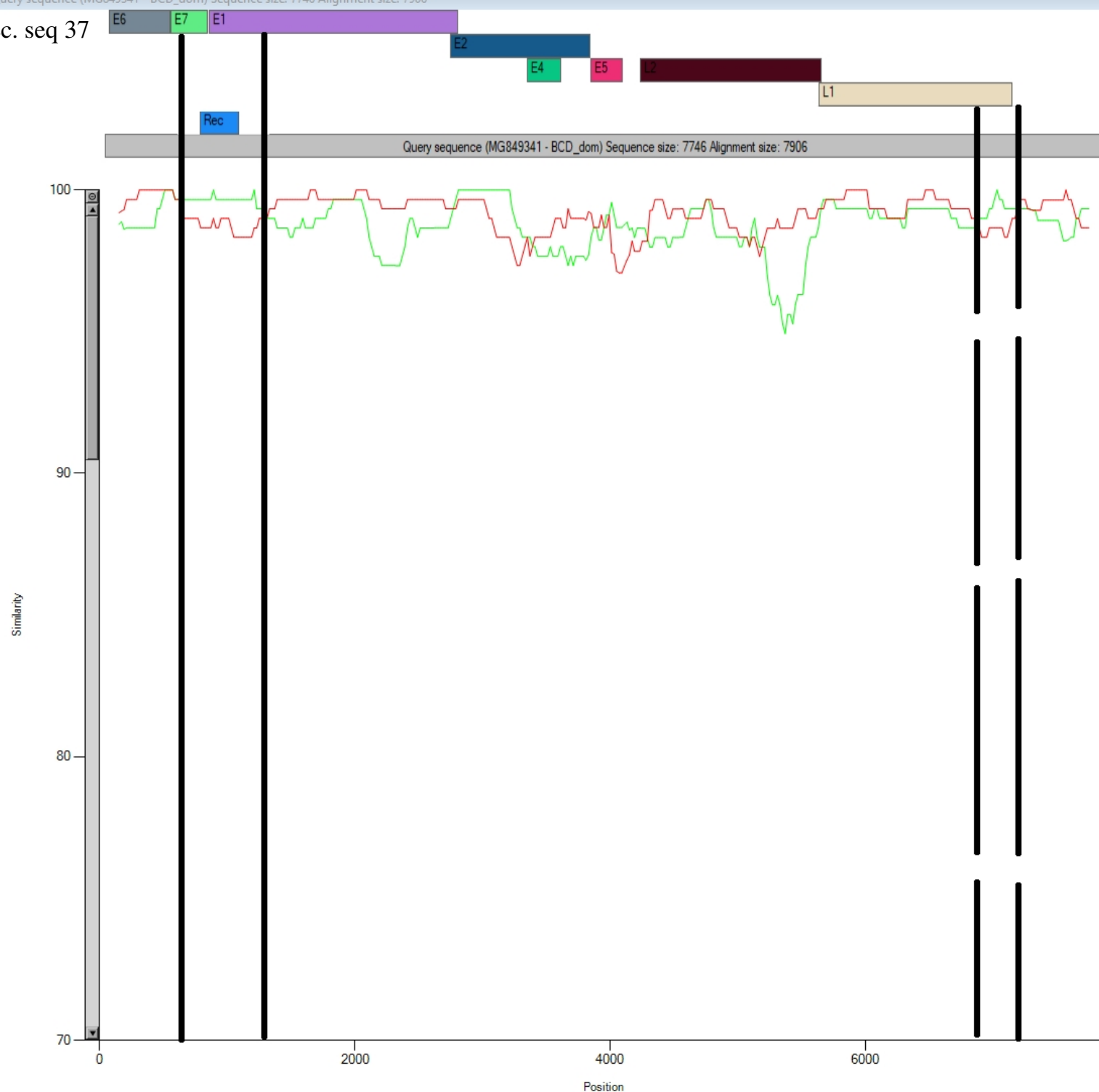
Query sequence (MT316253.1 - D_recombinant) Sequence size: 7816 Alignment size: 7910



Query sequence (MT316253.1 - D_recombinant) Sequence size: 7816
Step: 20 - Window: 300

NC_001526.4 - A
AF536180.1 - B
AF472509.1 - C
HQ644257.1 - D

Rec. seq 37

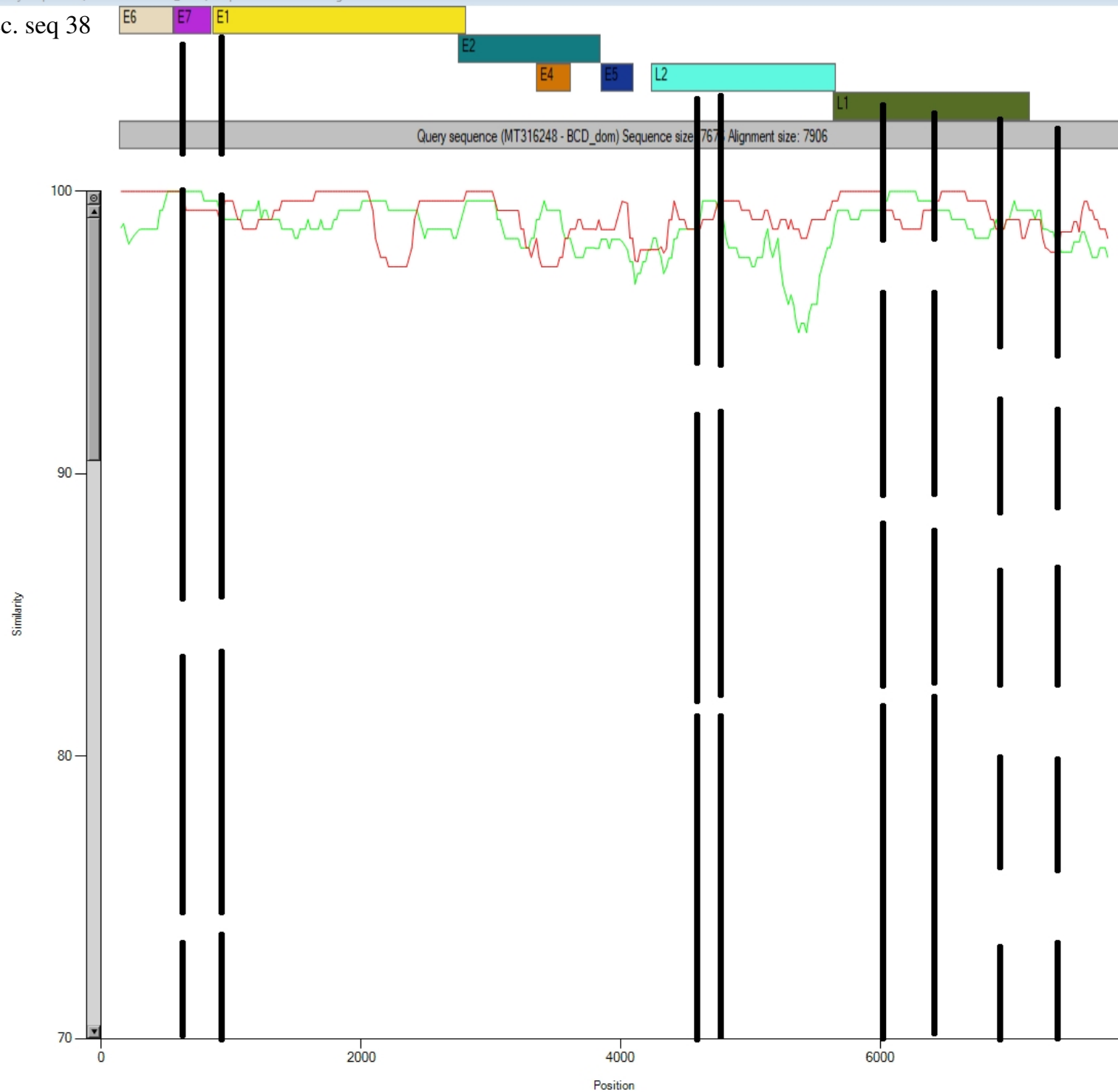


Query sequence (MG849341 - BCD_dom) Sequence size: 7746
Step: 20 - Window: 300

NC_001526 - A
AF536180 - B
AF472509 - C
HQ644257 - D

Dotted lines represent the lower confidence
recombination crossover sites
(recombination events supported by 2 or
less lineage specific SNPs)

Rec. seq 38



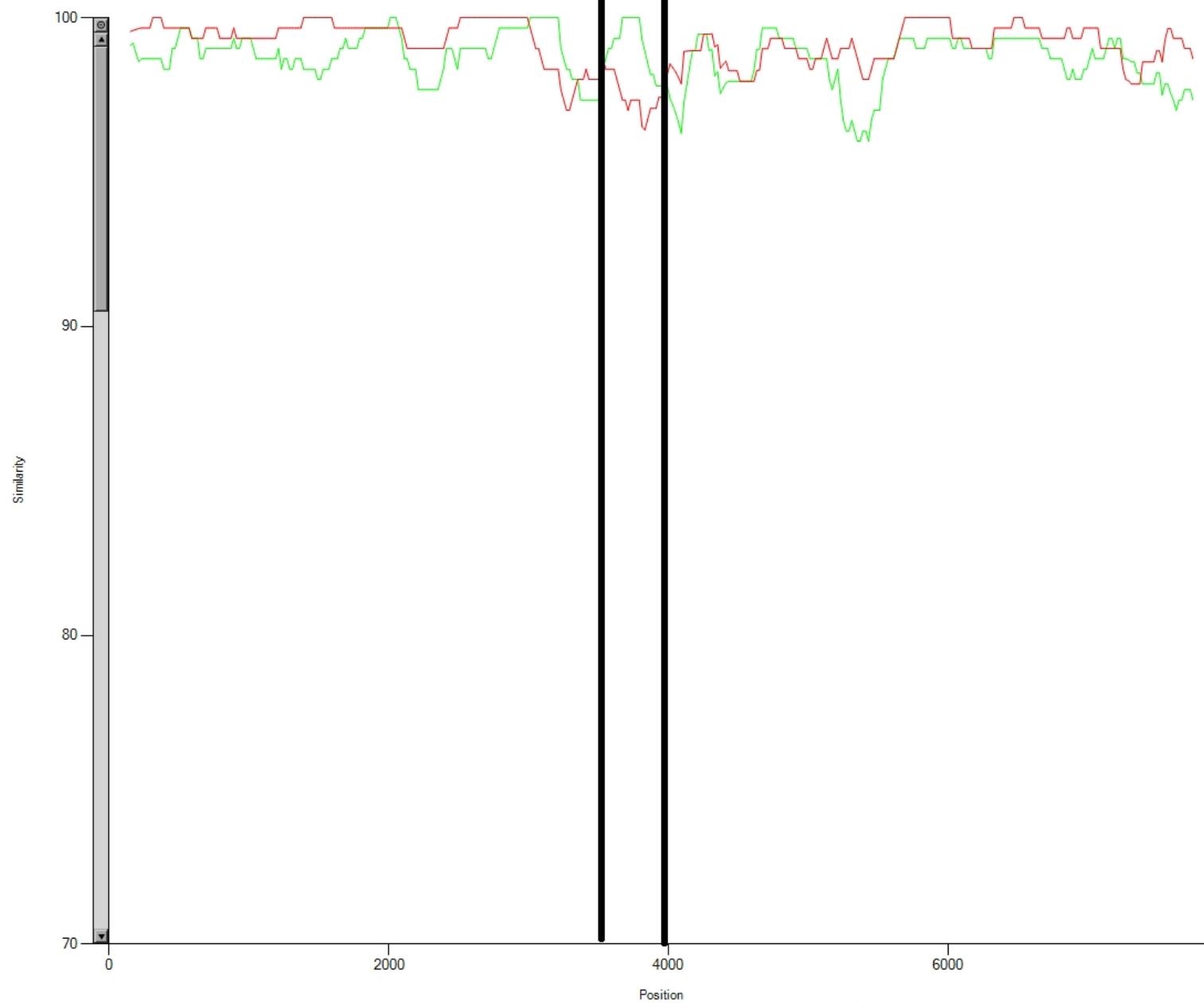
NC_001526 - A
AF536180 - B
AF472509 - C
HQ644257 - D

Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

Rec. seq 39



Query sequence (MT316293 - BCD_dom) Sequence size: 7656 Alignment size: 7906

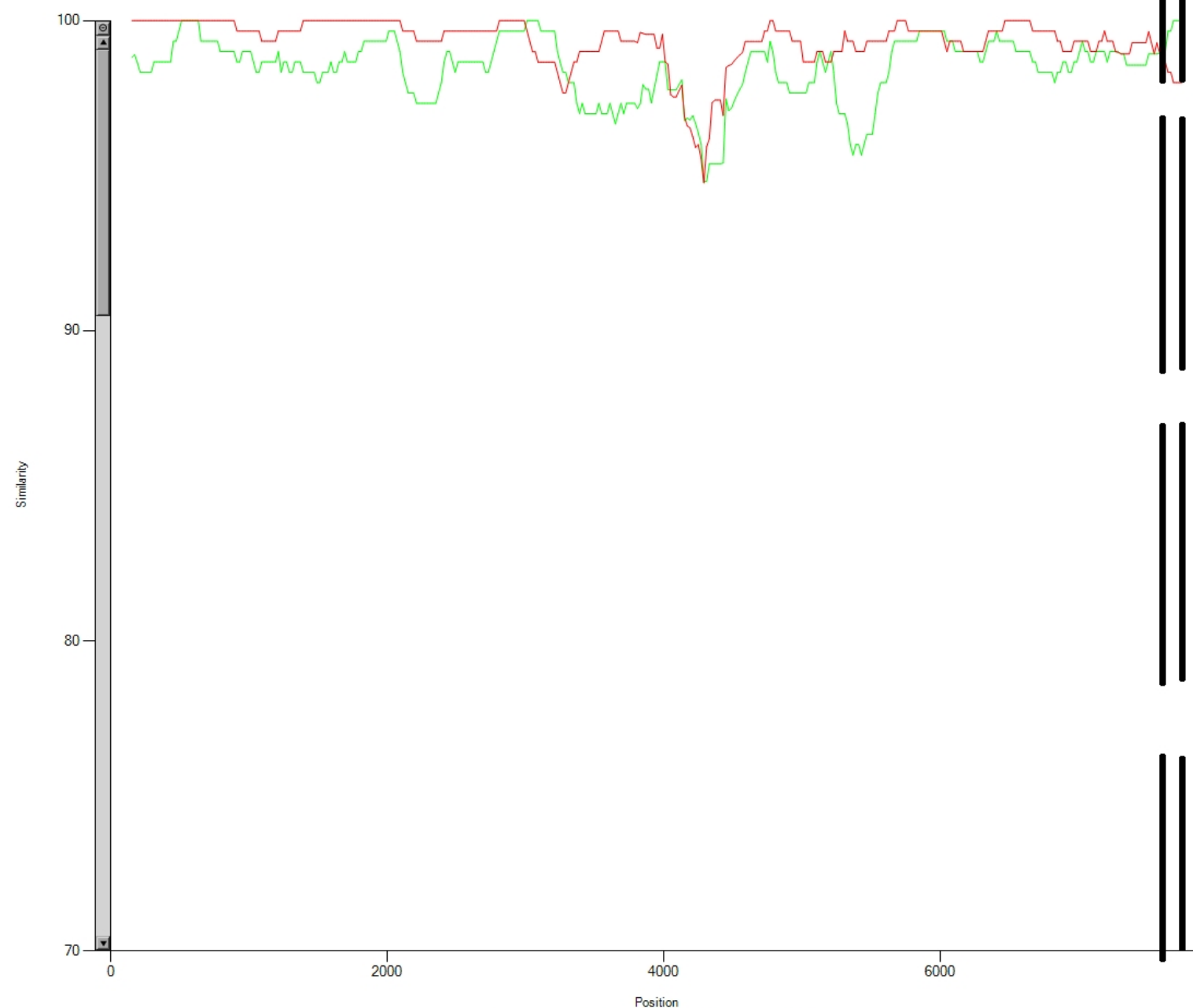


Query sequence (MT316293 - BCD_dom) Sequence size: 7656 Alignment size: 7906
Step: 20 - Window: 300

Rec. seq 40



Query sequence (MG848743 - BCD_dom) Sequence size: 7654 Alignment size: 7908

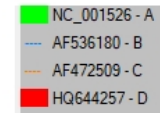


Query sequence (MG848743 - BCD_dom) Sequence size: 7654
Step: 20 - Window: 300

- NC_001526 - A
- AF536180 - B
- AF472509 - C
- HQ644257 - D

Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)

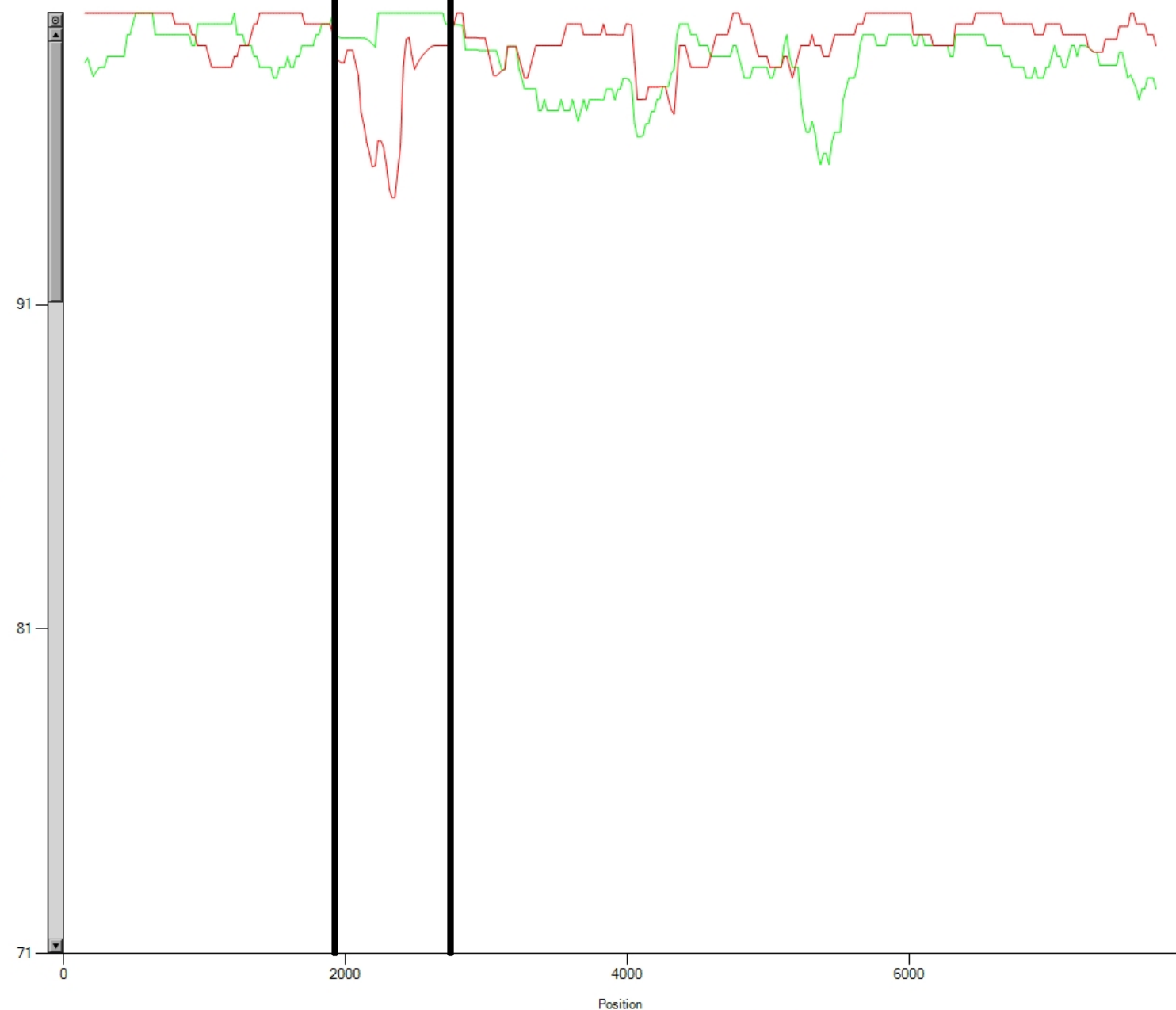
E6 E7 E1



Query sequence (MT316232 - BCD_dom) Sequence size: 7519
Step: 20 - Window: 300

Rec. seq 42

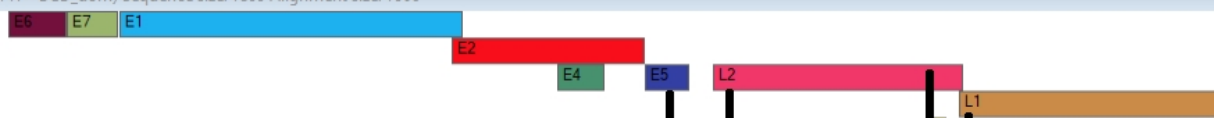
Similarity



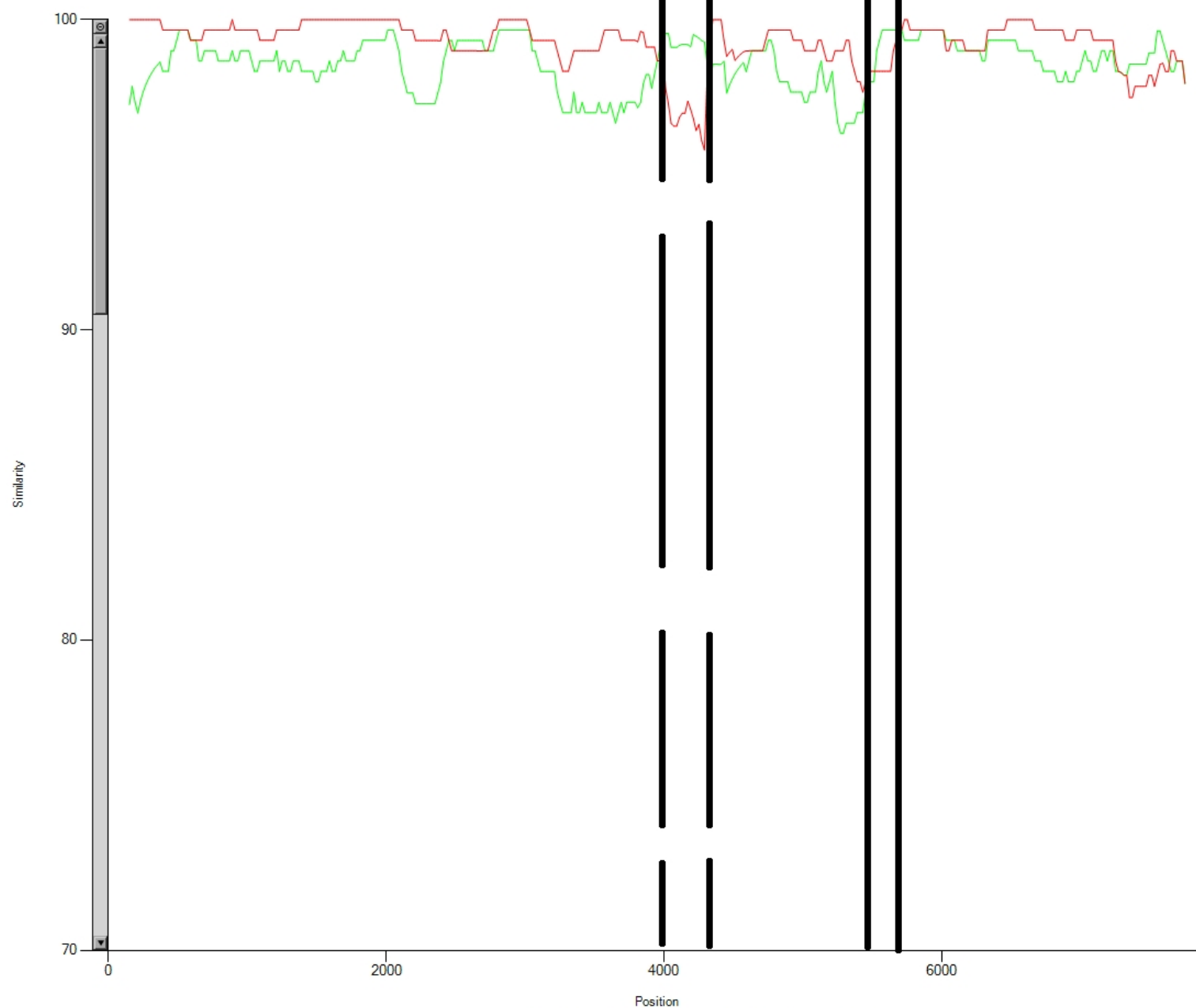
Query sequence (MT316218 - BCD_dom) Sequence size: 7459
Step: 20 - Window: 300

- NC_001526 - A
- HQ644257 - D
- AF472509 - C
- AF536180 - B

Rec. seq 43



Query sequence (MG849717 - BCD_dom) Sequence size: 7399 Alignment size: 7906

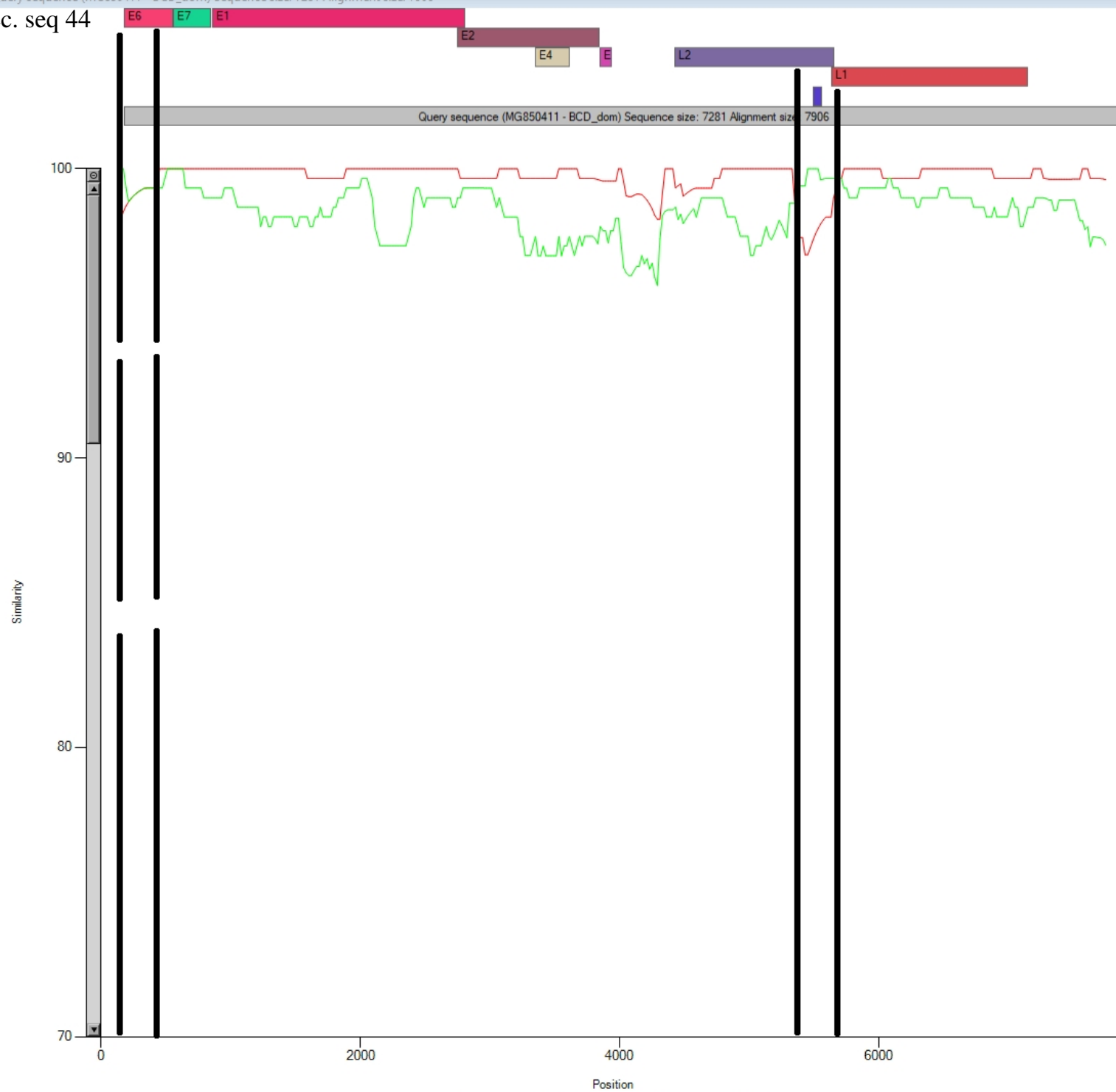


Query sequence (MG849717 - BCD_dom) Sequence size: 7399 Alignment size: 7906
Step: 20 - Window: 300

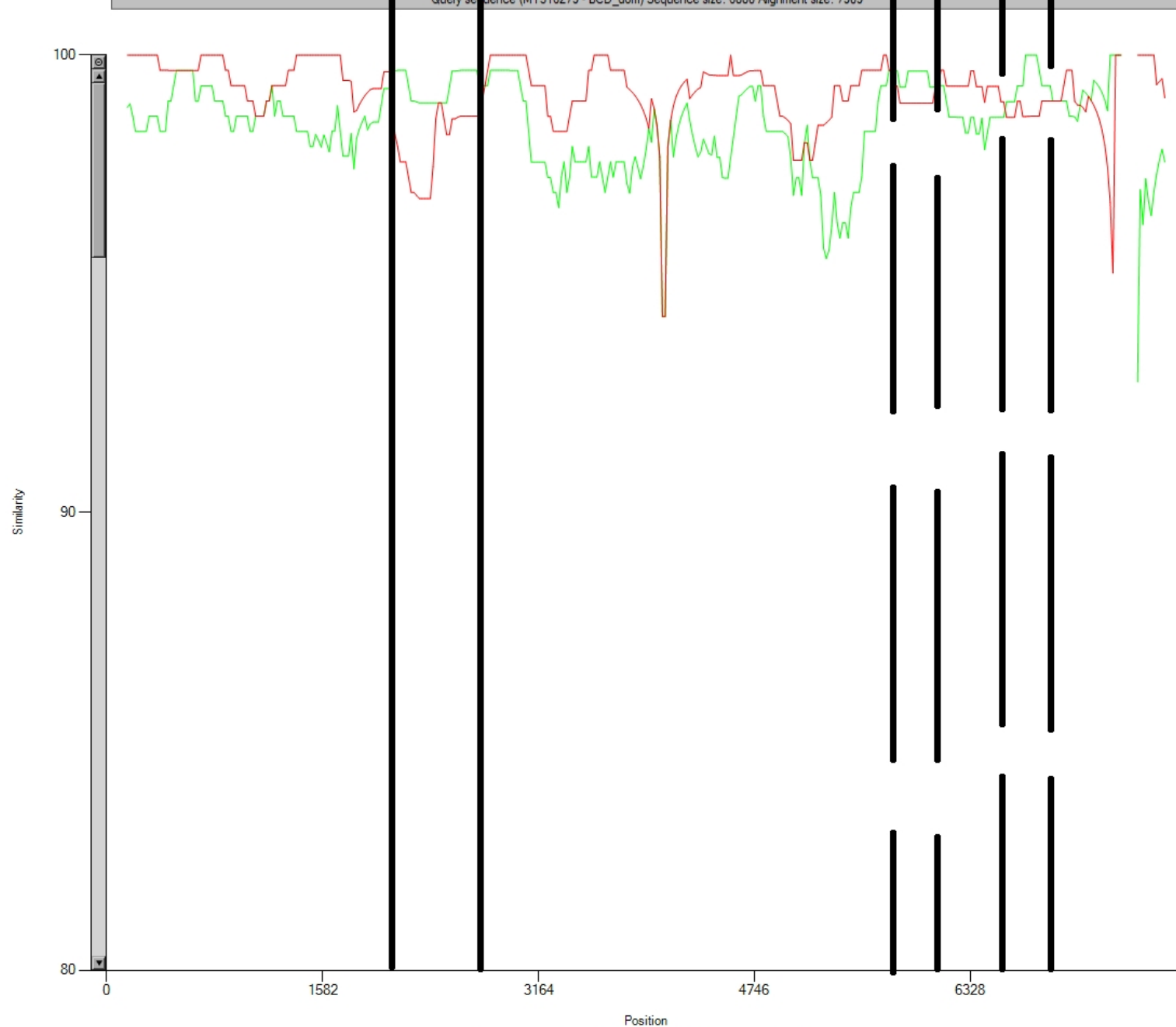
NC_001526 - A
HQ644257 - D
AF536180 - B
AF472509 - C

Dotted lines represent the lower confidence
recombination crossover sites
(recombination events supported by 2 or
less lineage specific SNPs)

Rec. seq 44



Rec. seq 45



NC_001526 - A
HQ644257 - D
AF536180 - B
AF472509 - C

Dotted lines represent the lower confidence recombination crossover sites (recombination events supported by 2 or less lineage specific SNPs)