GeneMark

Version 2.5p (09.08.06)

PROGRAM INFORMATION

```
Sequence         :  Streptomyces phage Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat,
Analysis Date    :  3/28/24 at 11:57:07
Pages            :  62
Sequence Length  :  128076 bp
GC Content       :   47.39%

Window Length    :  96 bp
Window Step      :  12 bp
Threshold Value  :  0.500

PS-Version       :  1.2

GeneMark Options :  PostScript graph,
                    Mark ORFs / splice sites,
                    List ORFs,
                    List regions and/or splice sites,
```

MATRIX INFORMATION

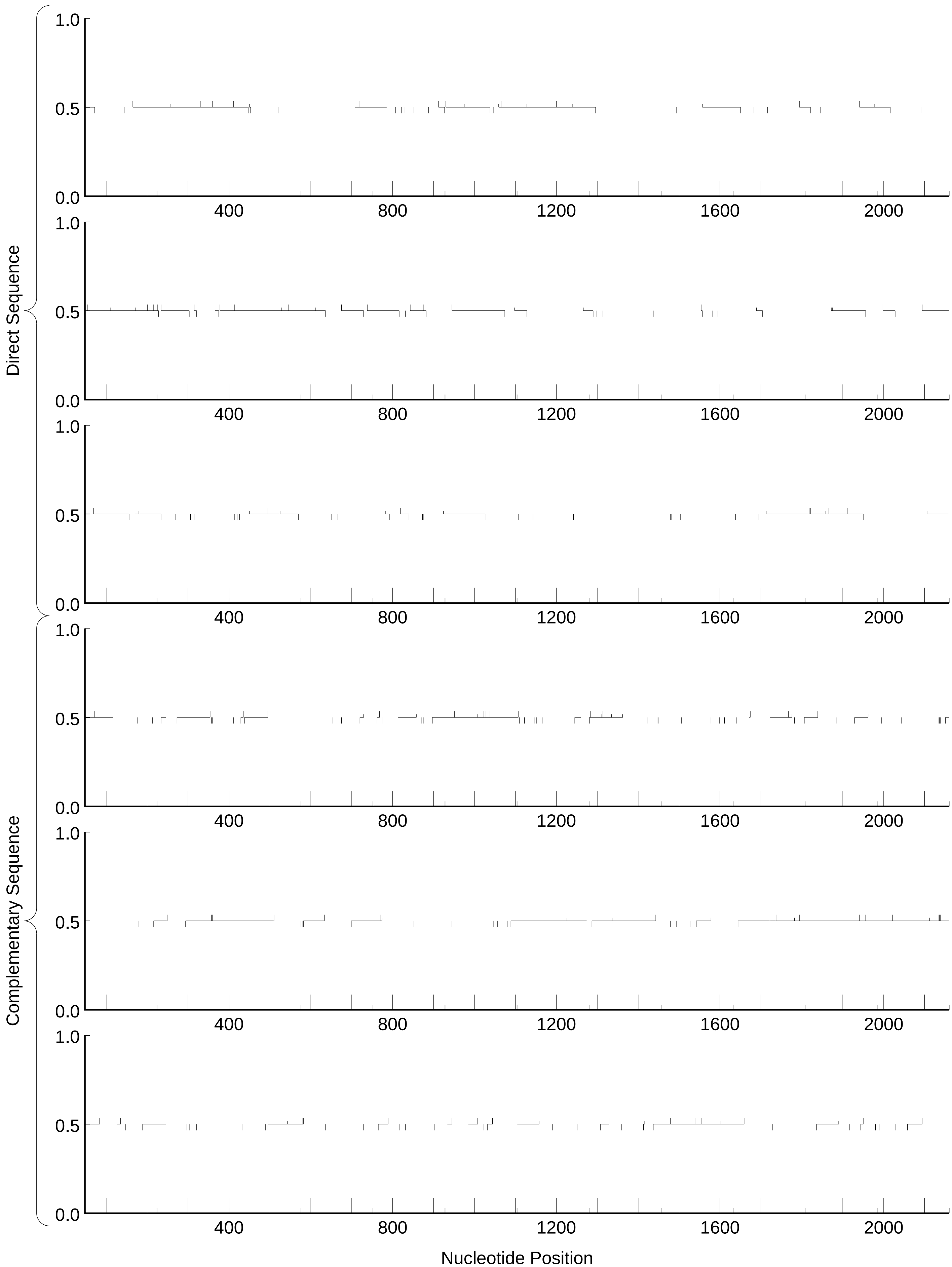
```
Matrix     :  Streptomyces_griseus_NBRC_13350
Author     :  -

Order      :  4
```

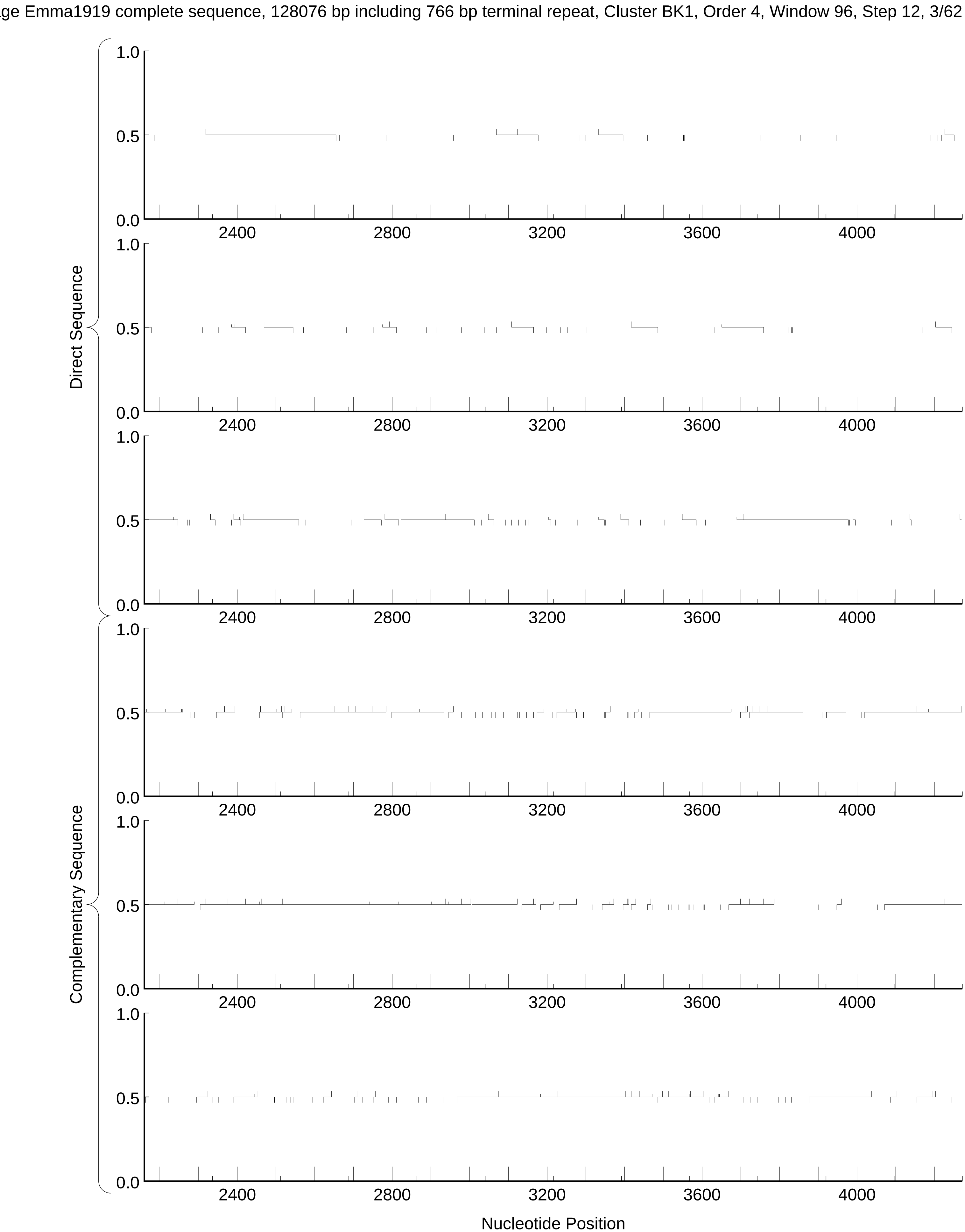
Matrix notes & comments

Training set derived by GeneMarkS, 4.27 September 2014
Tue Sep 23 17:31:52 2014

Send questions / comments to:
Dr. M. Borodovsky
Georgia Institute of Technology
School of Biology
Atlanta, GA 30332-0230

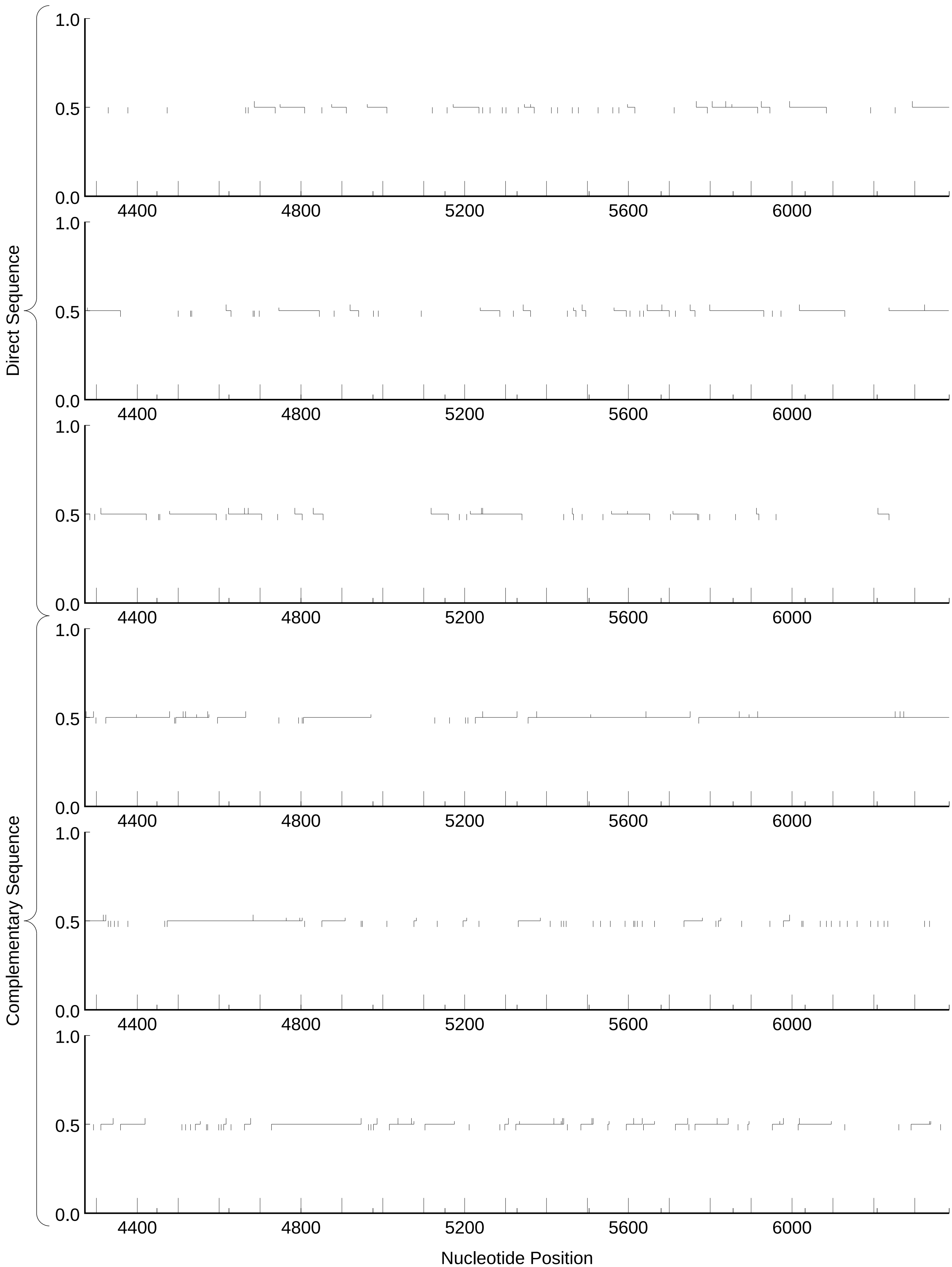
ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 2/62

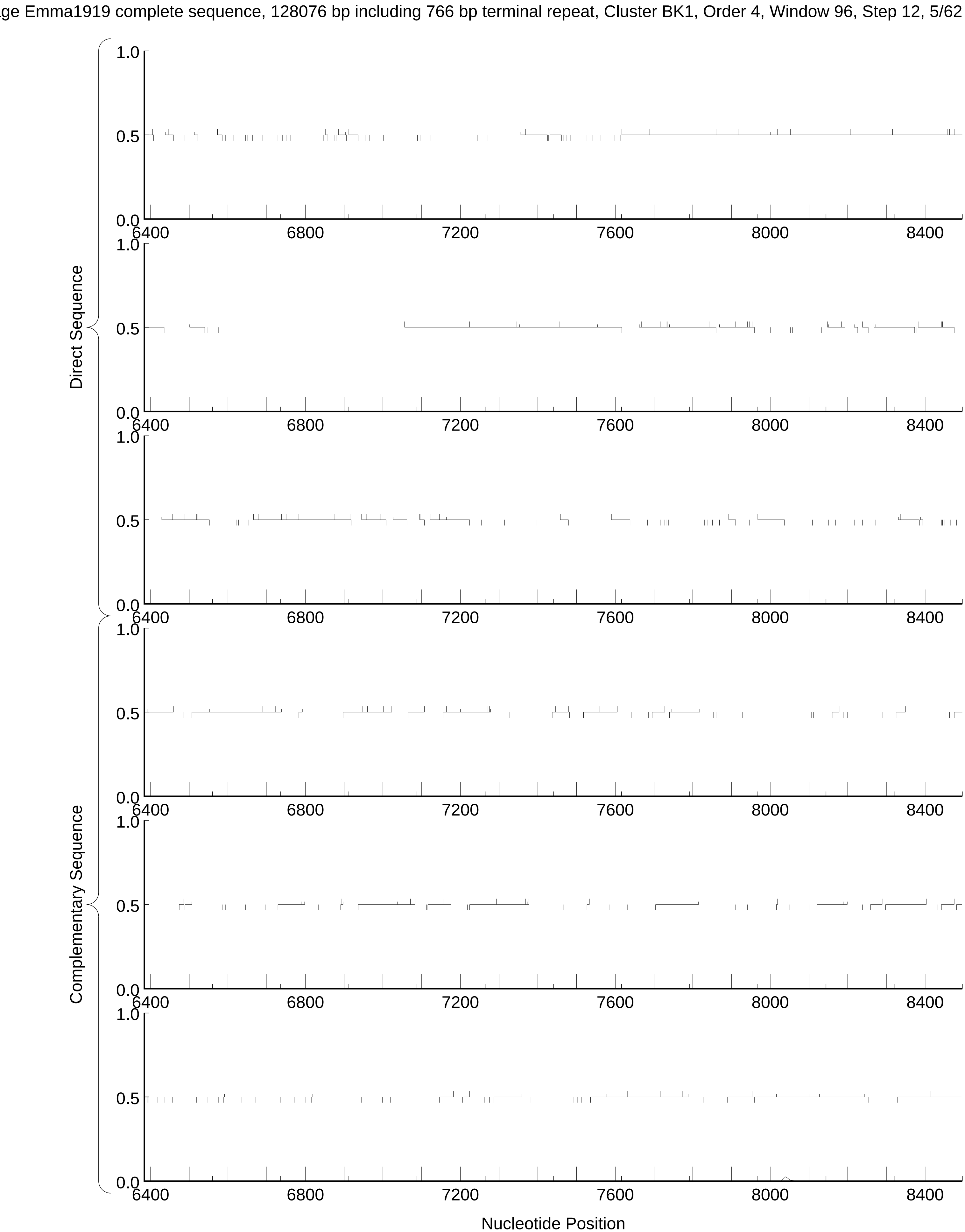




ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 3/62
Direct Sequence
Complementary Sequence
1.0
0.5
0.0
2400
2800
3200
3600
4000
Nucleotide Position

ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 4/62




ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 5/62
Direct Sequence
Complementary Sequence
1.0
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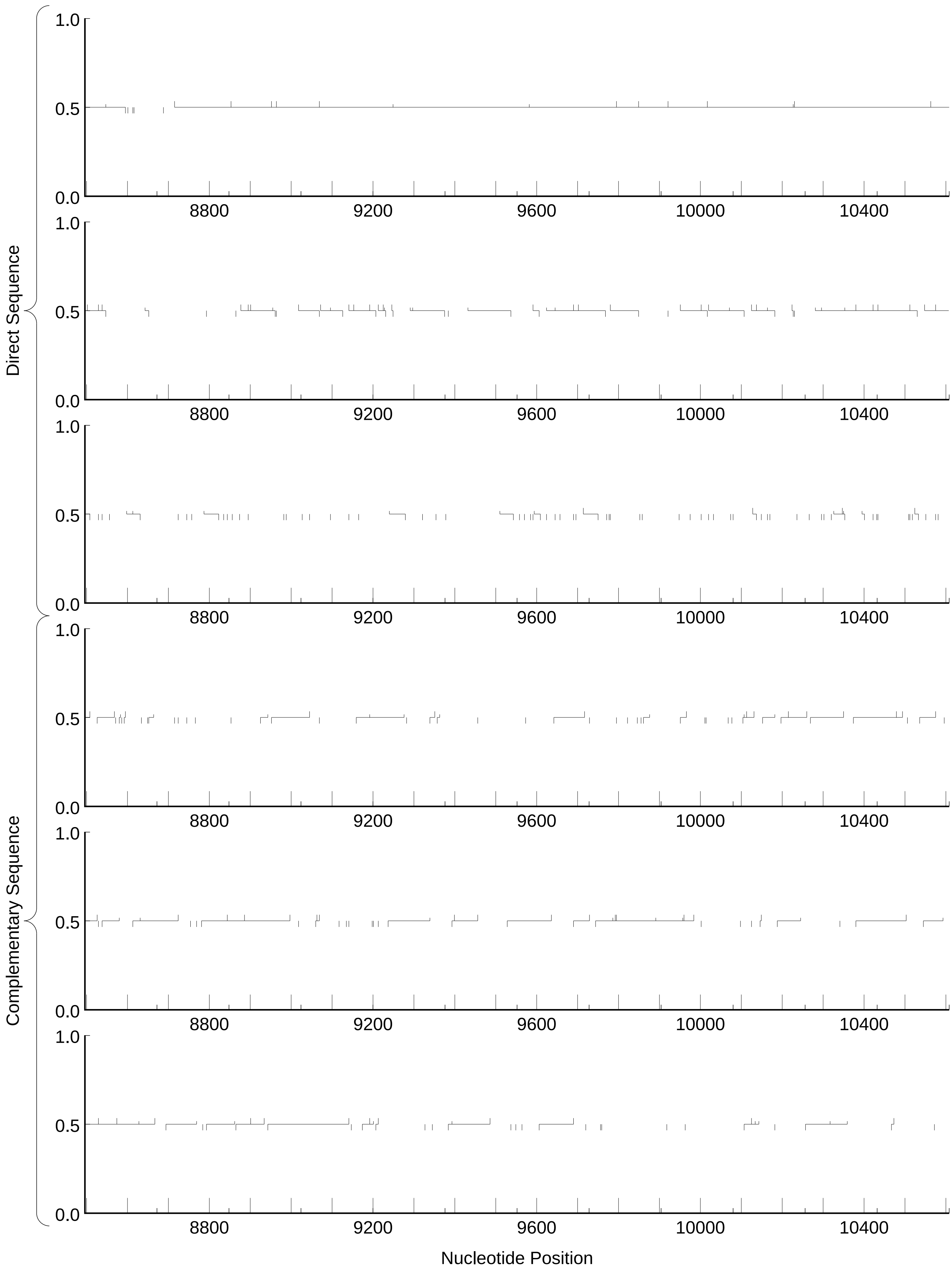
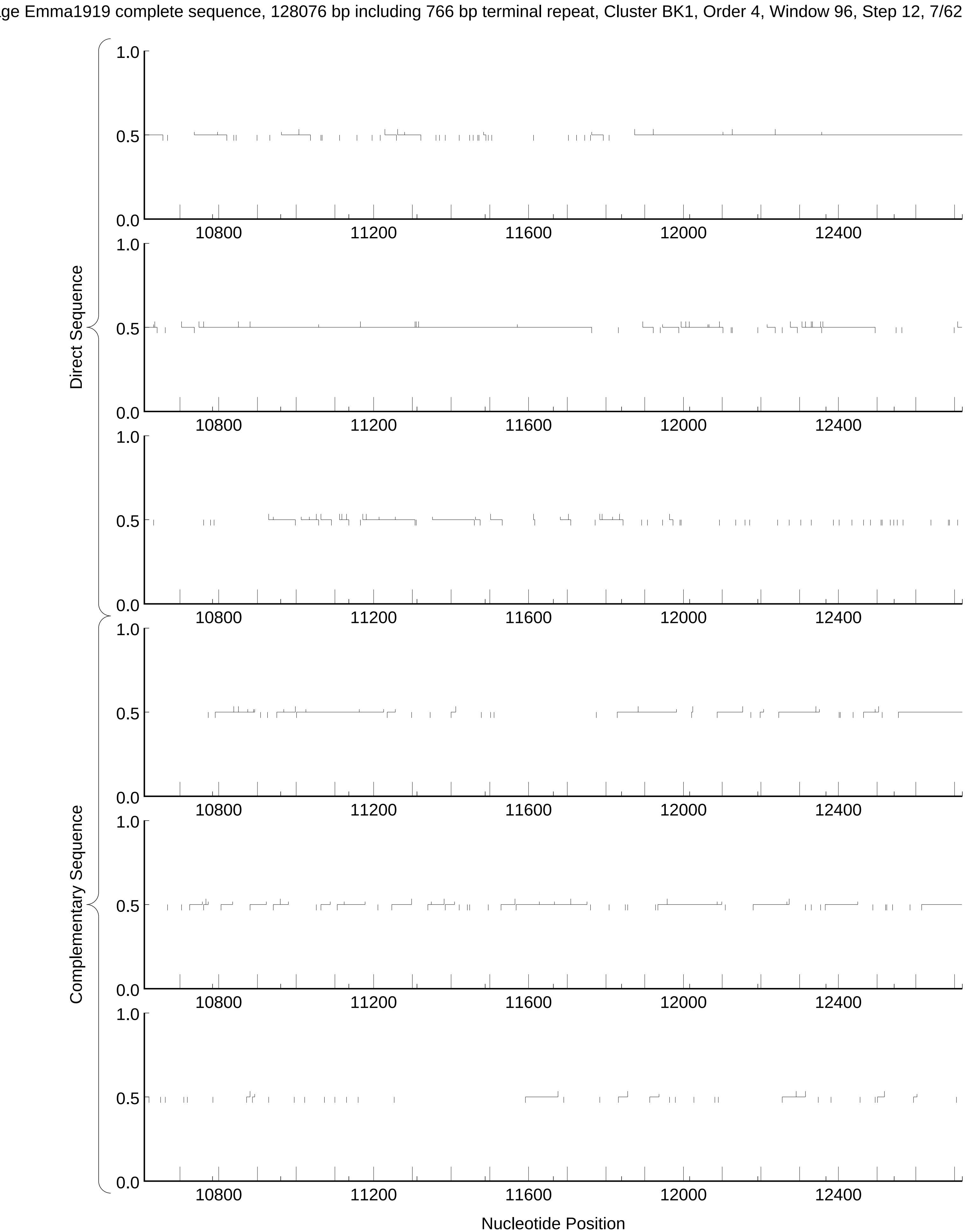
0.0
6400
6800
7200
7600
8000
8400
Nucleotide Position

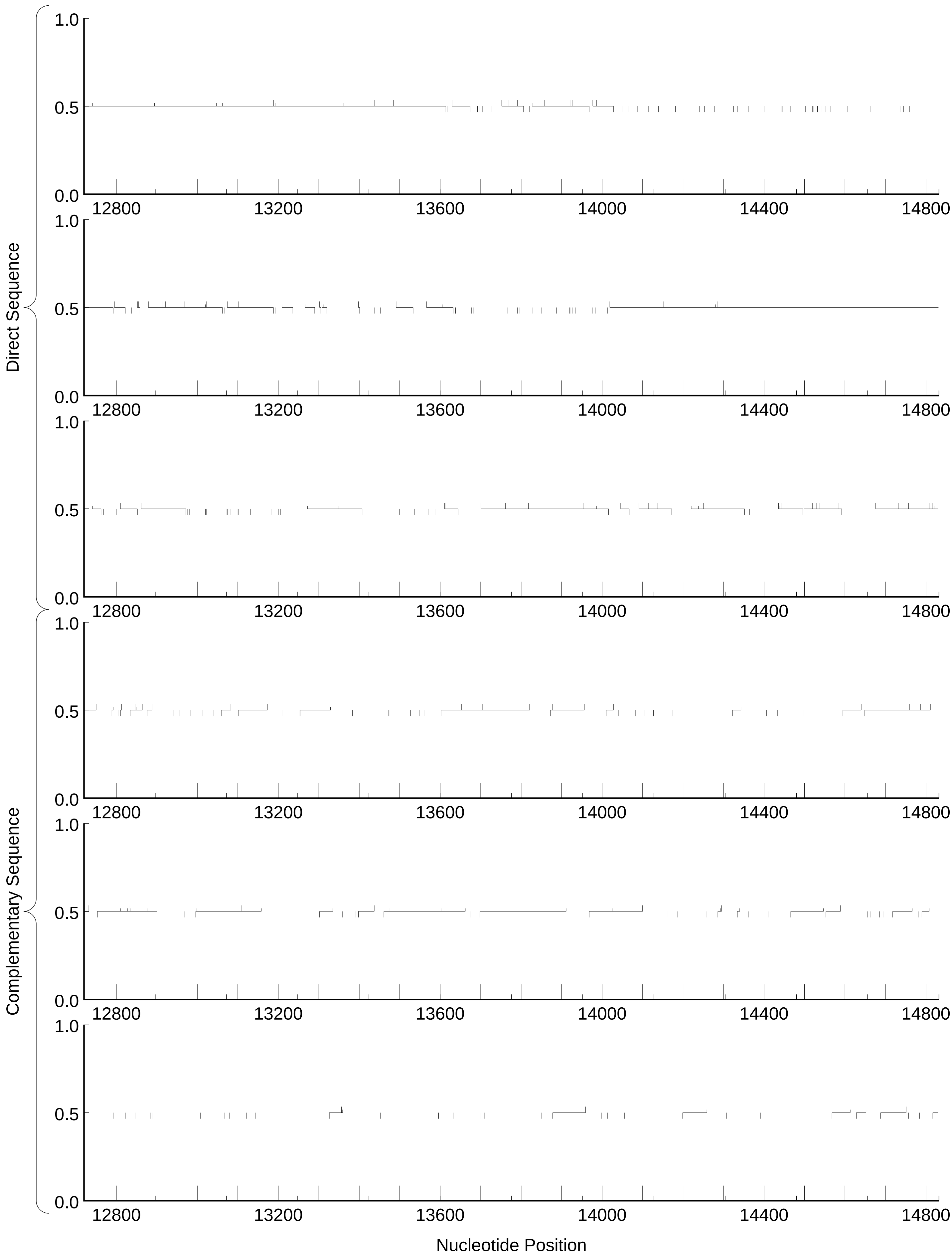
ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 6/62

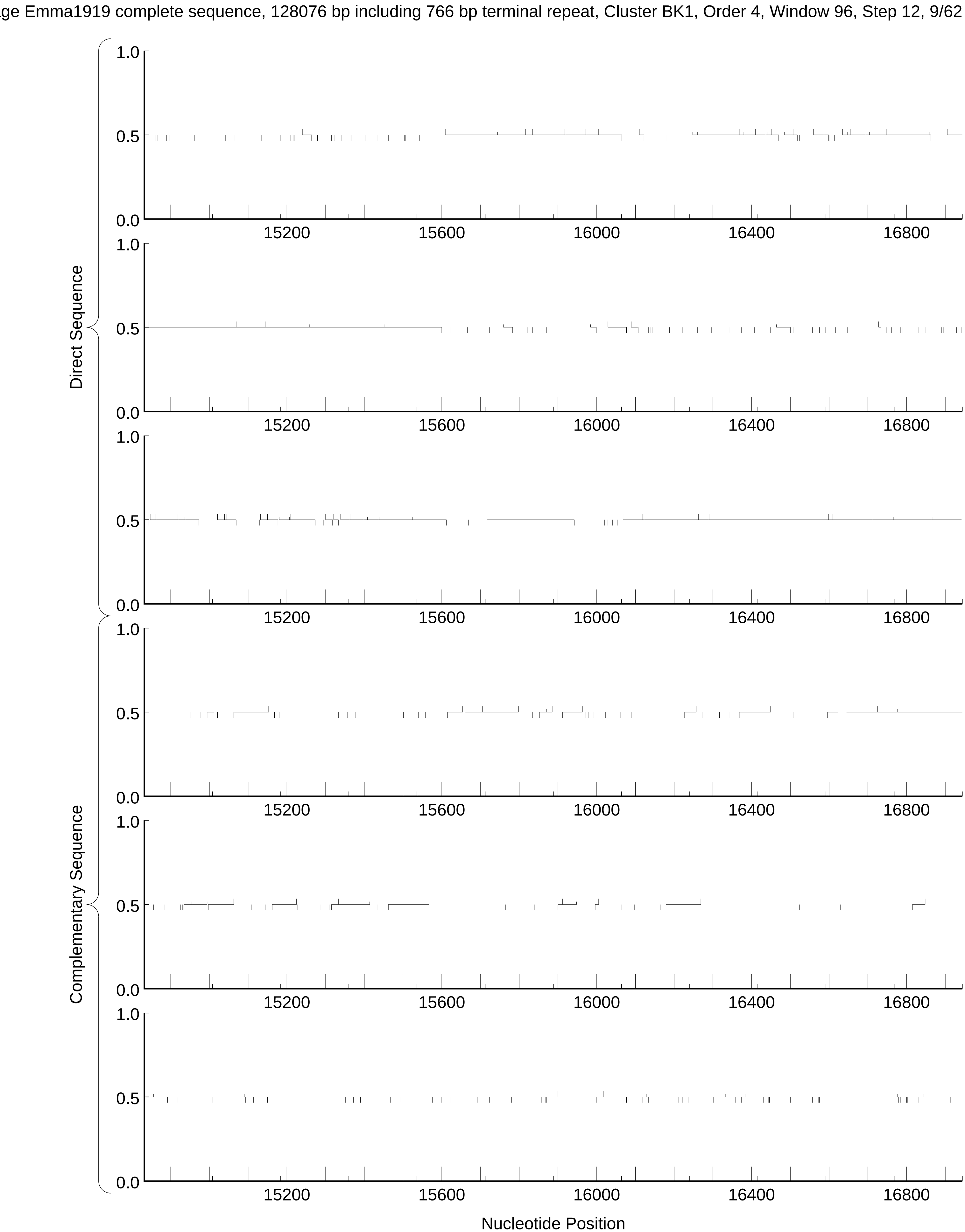




ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 7/62
Direct Sequence
Complementary Sequence
1.0
0.5
0.0
10800
11200
11600
12000
12400
Nucleotide Position

ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 8/62




ge Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 9/62
Direct Sequence
Complementary Sequence
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0.0
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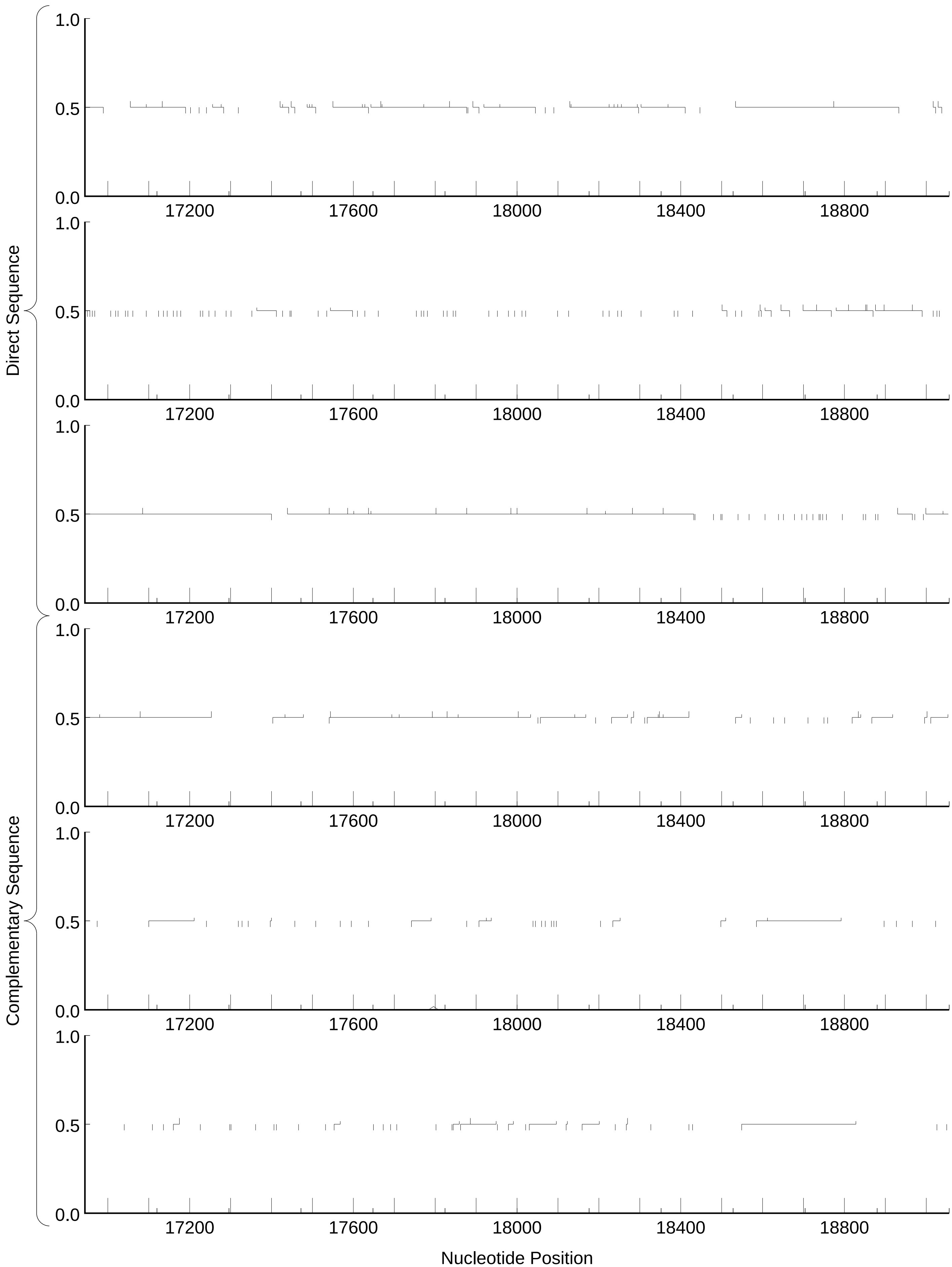
15600
16000
16400
16800
Nucleotide Position



Direct Sequence
Complementary Sequence
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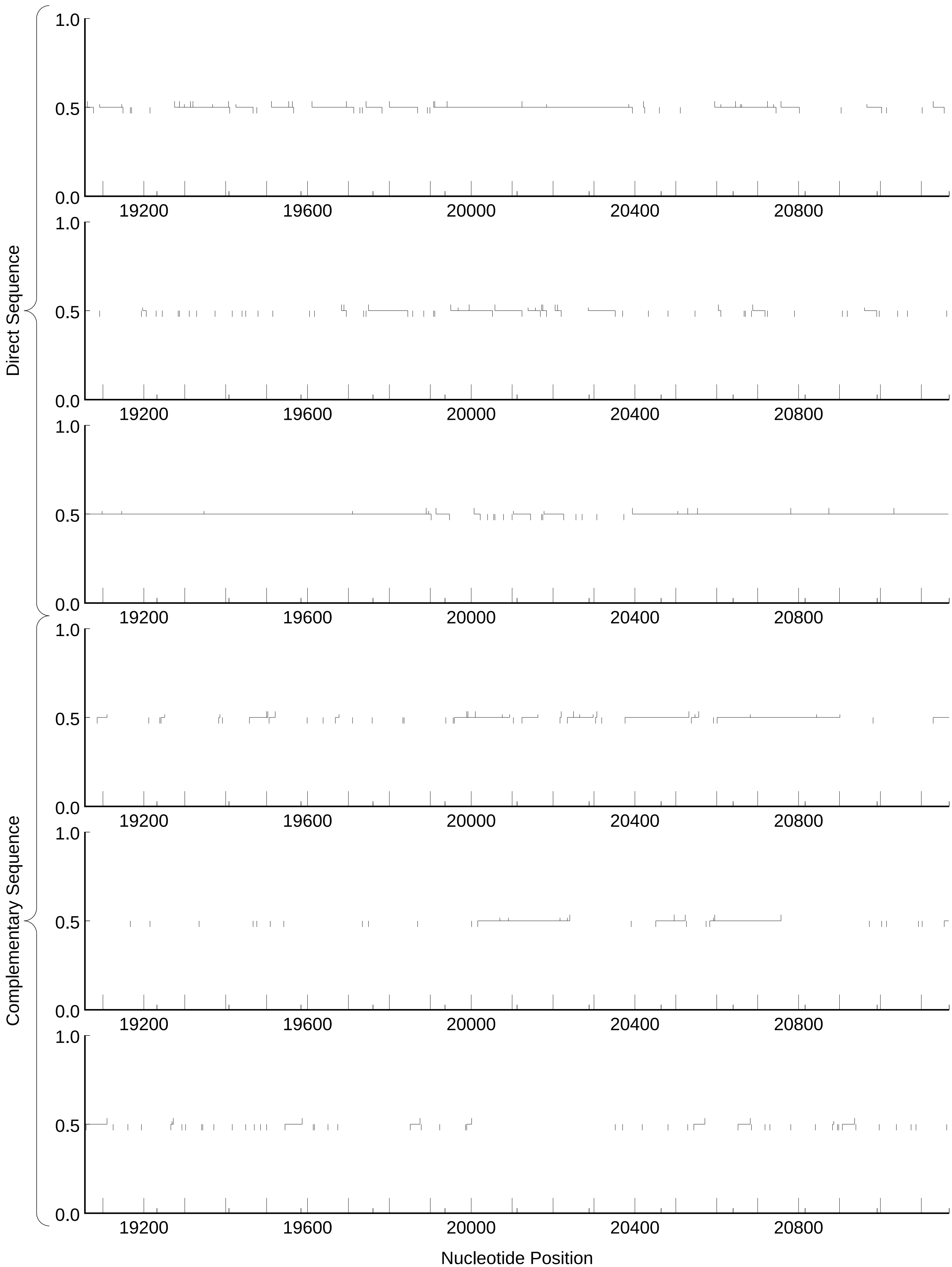
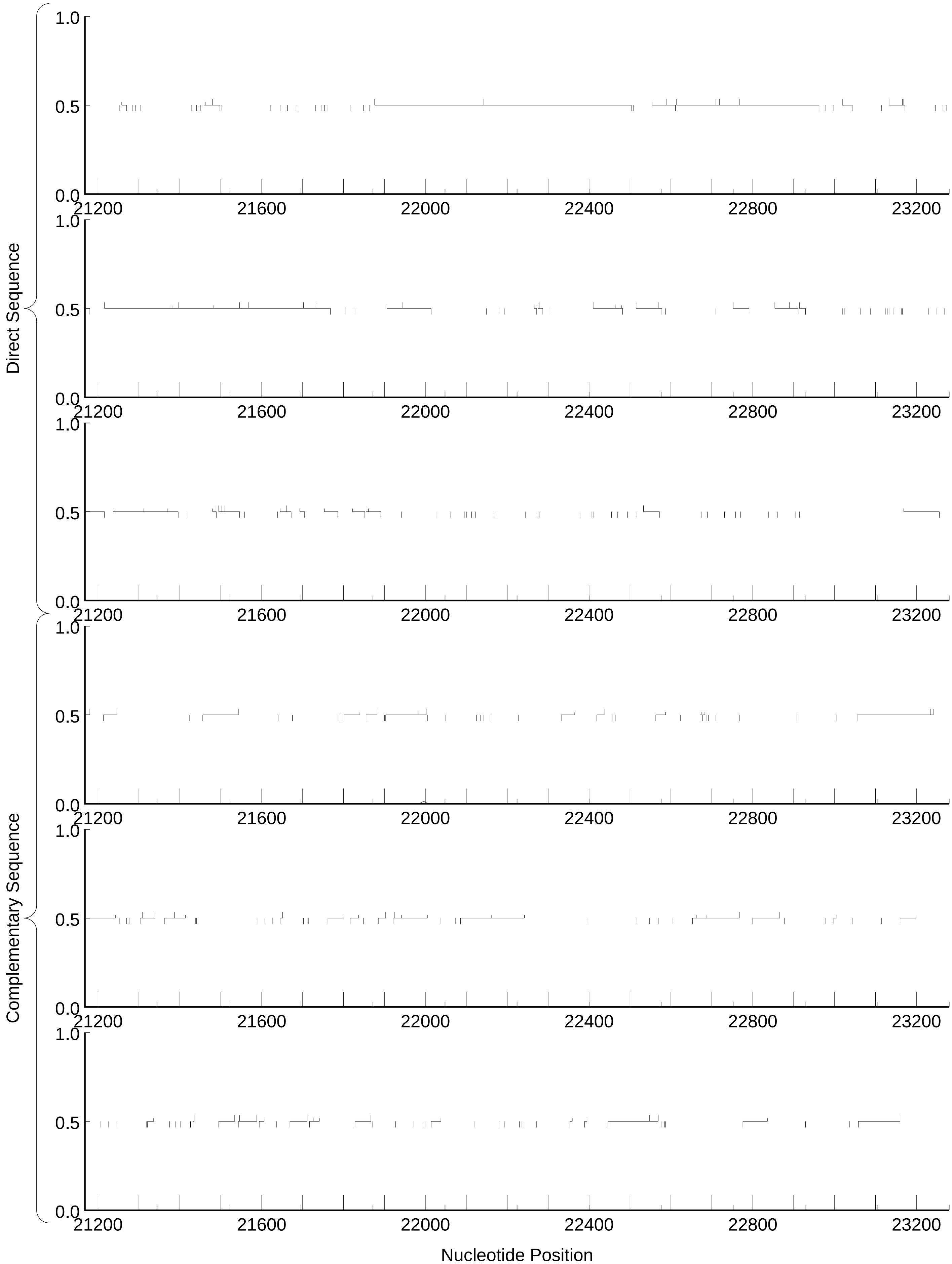
0.5
0.0
17200
17600
18000
18400
18800
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 11/62





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Complementary Sequence
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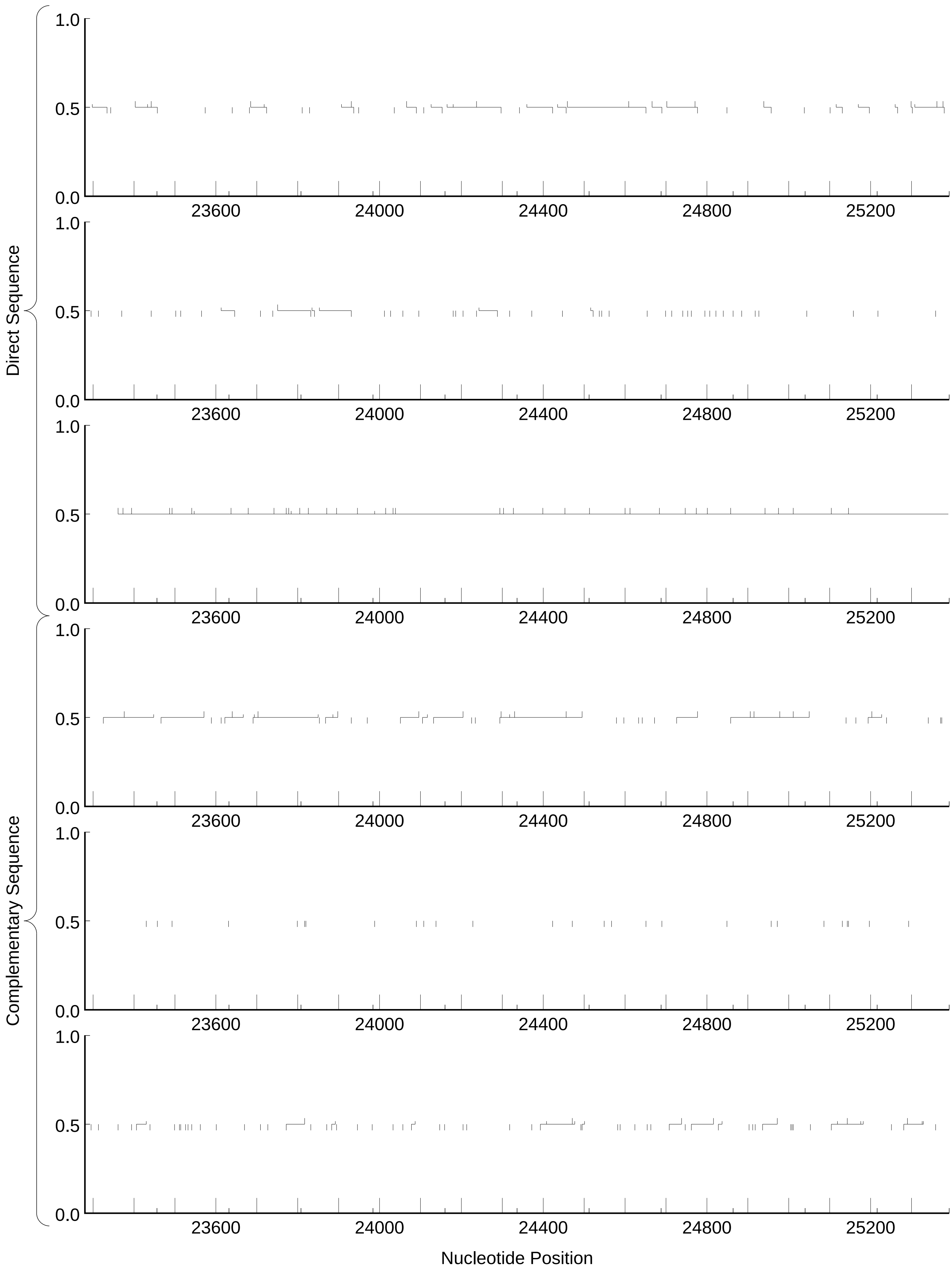
0.0
21200
21600
22000
22400
22800
23200
Nucleotide Position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Complementary Sequence
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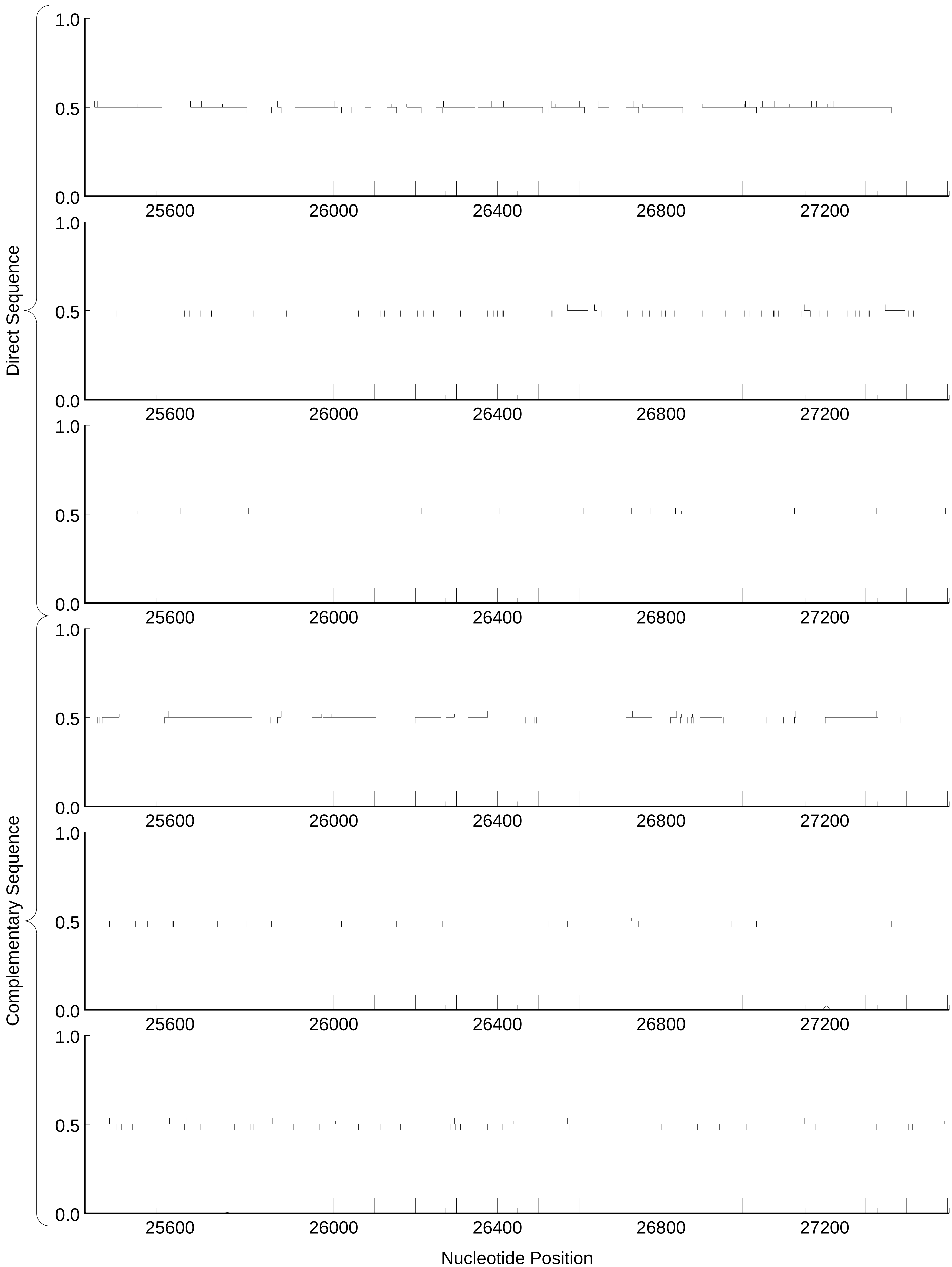
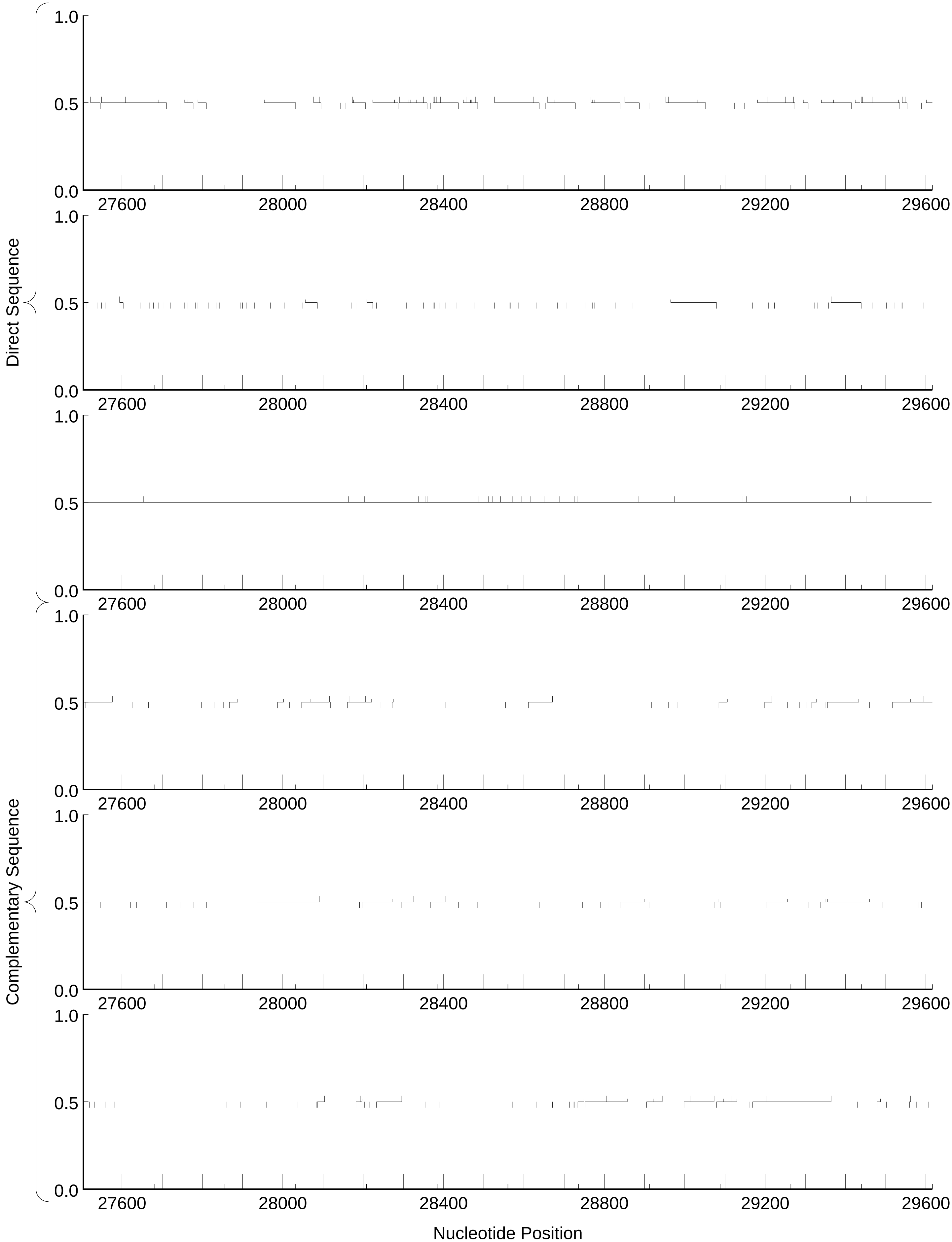
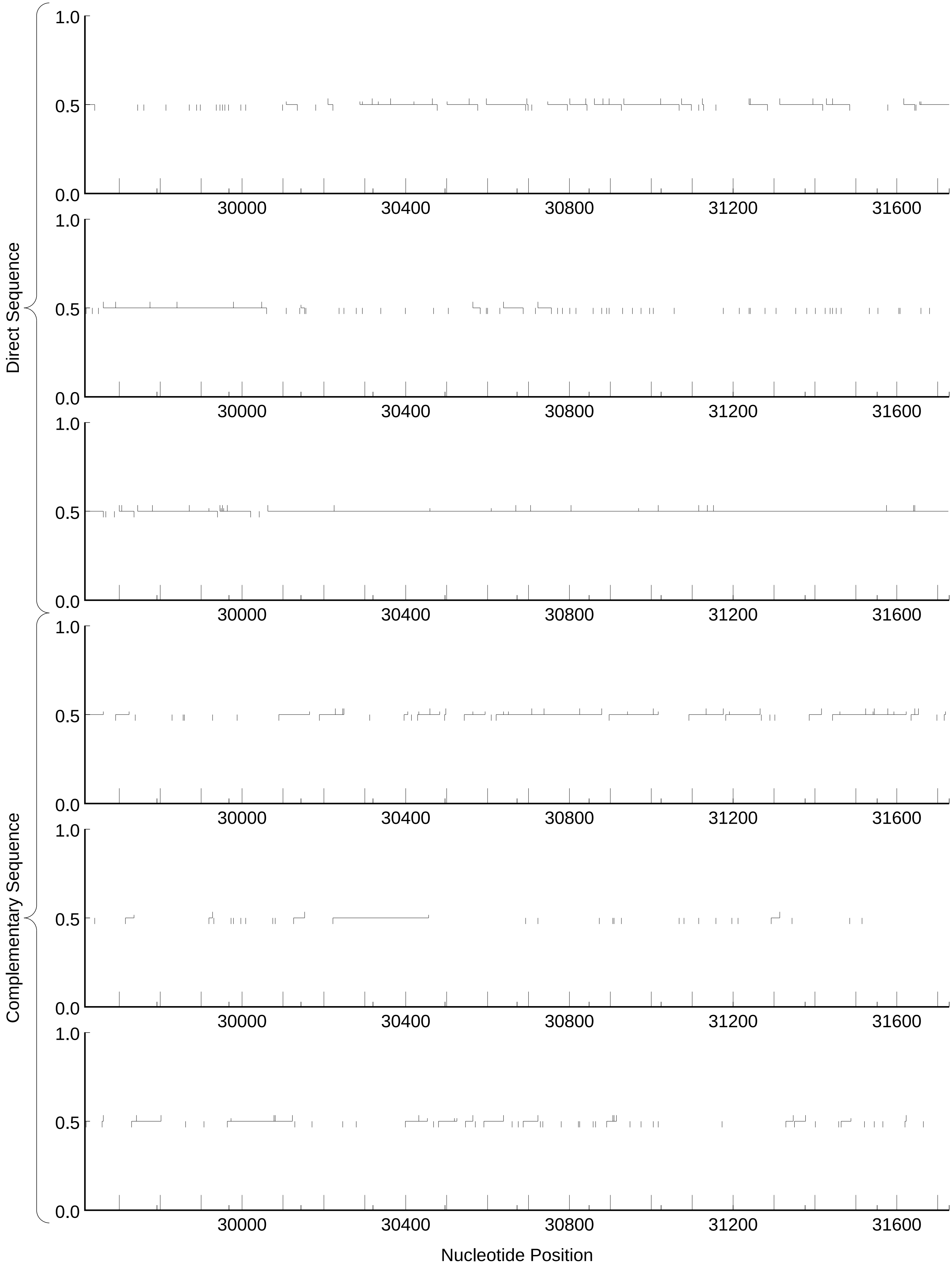
0.5
0.0
23600
24000
24400
24800
25200
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 14/62

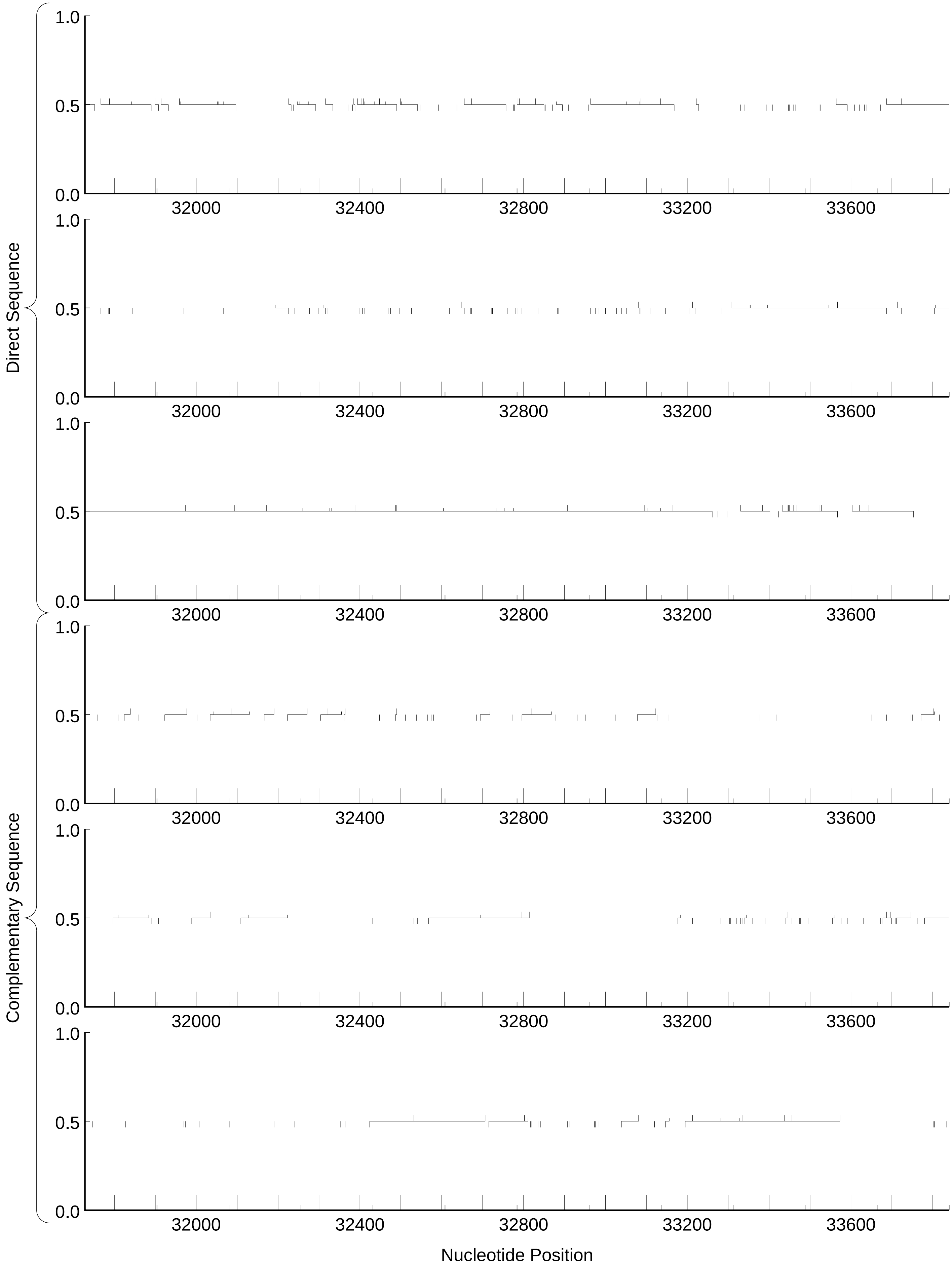



Direct Sequence
Complementary Sequence
1.0
0.5
0.0
27600
28000
28400
28800
29200
29600
Nucleotide Position

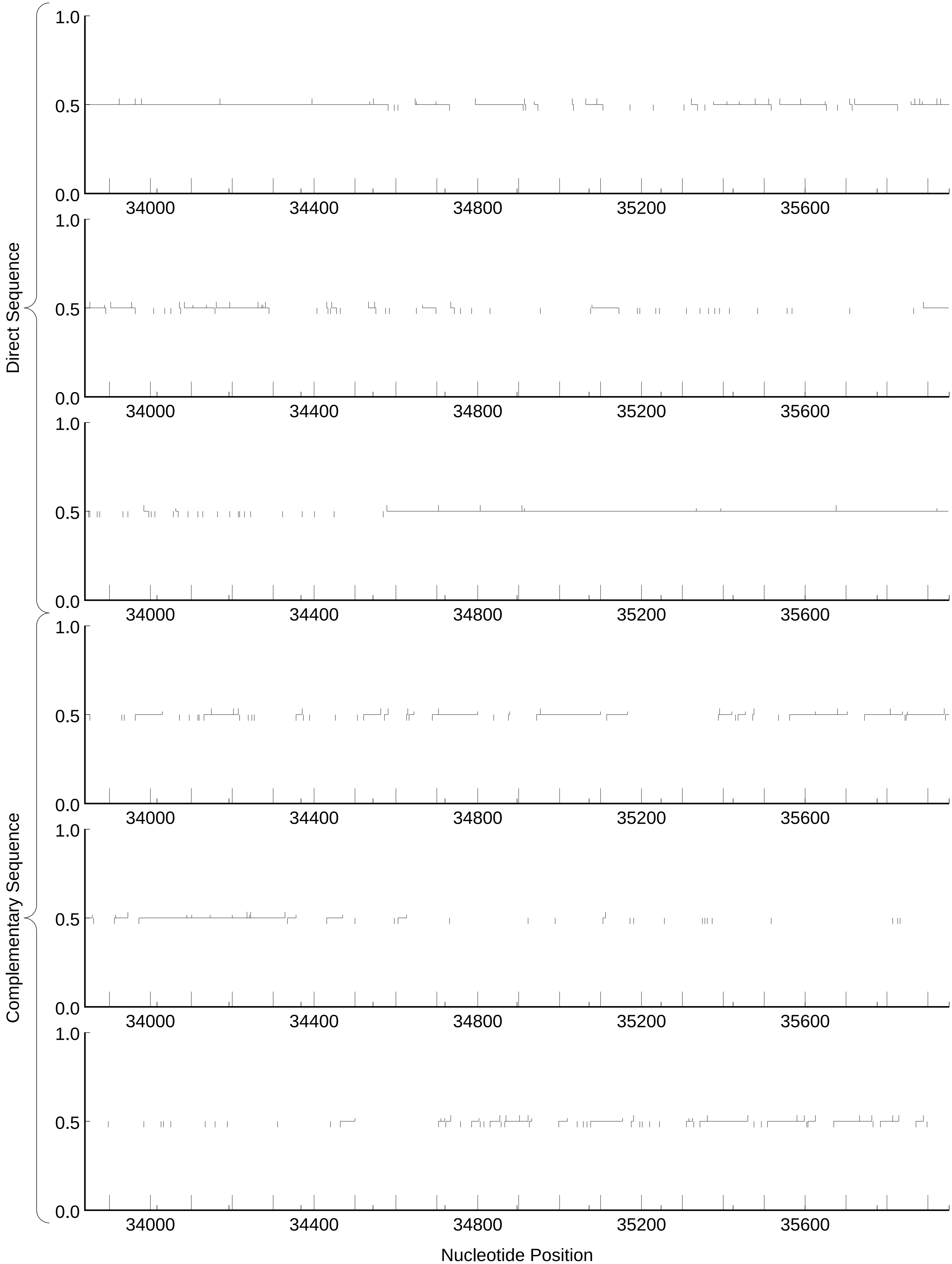
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 16/62

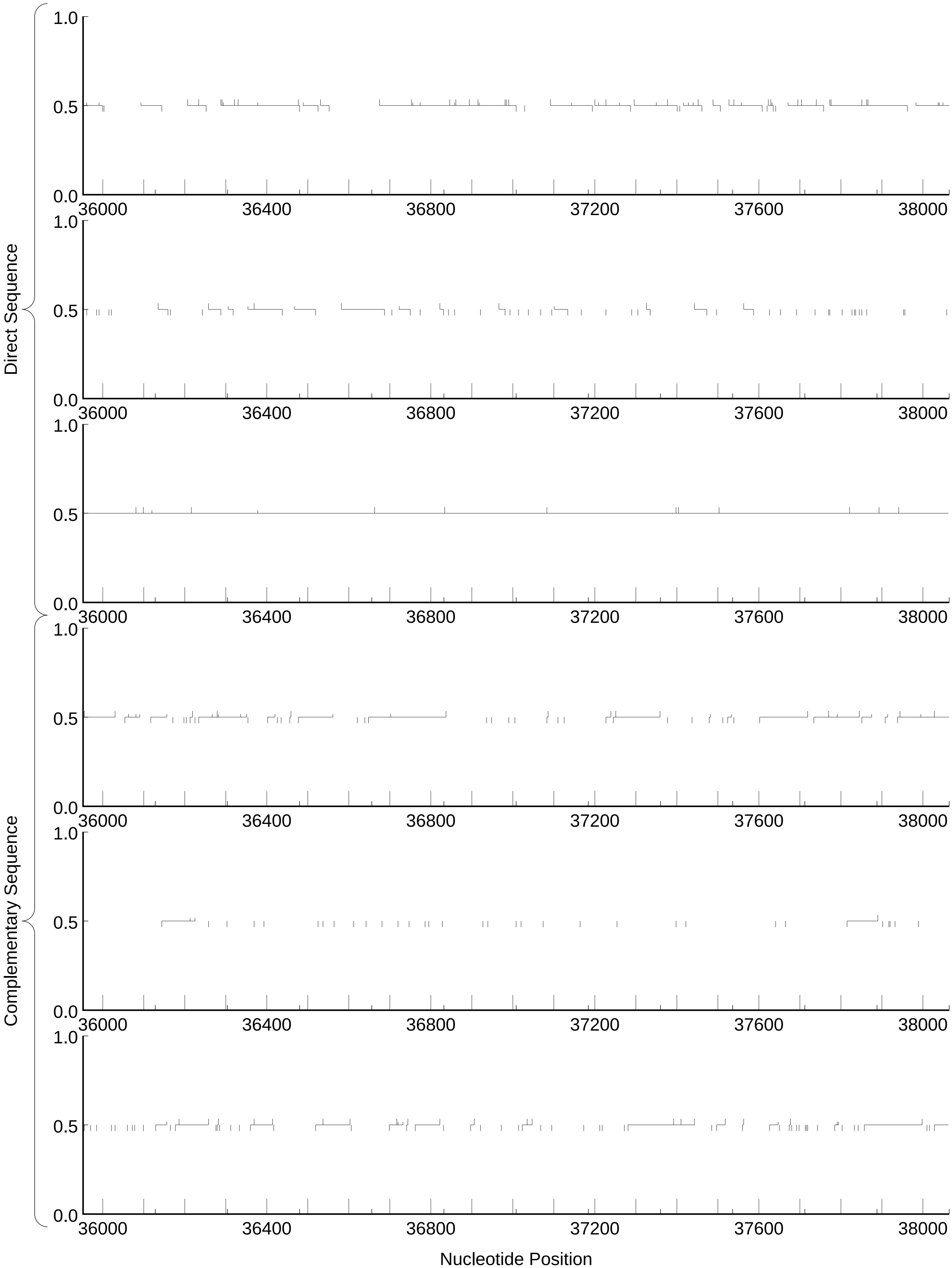


e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 17/62



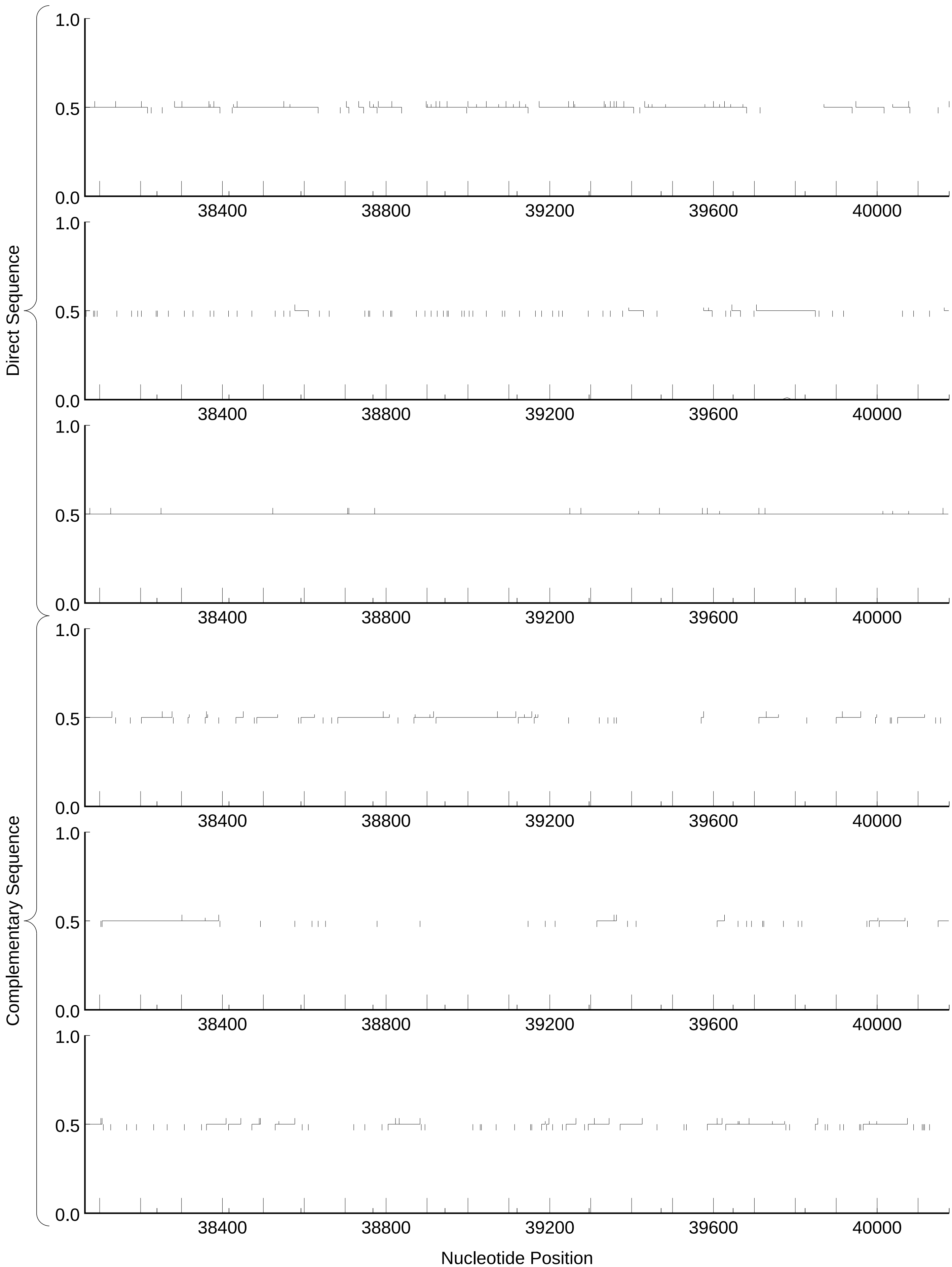
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 18/62





Direct Sequence
Complementary Sequence
1.0
0.5
0.0
36000
36400
36800
37200
37600
38000
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 20/62



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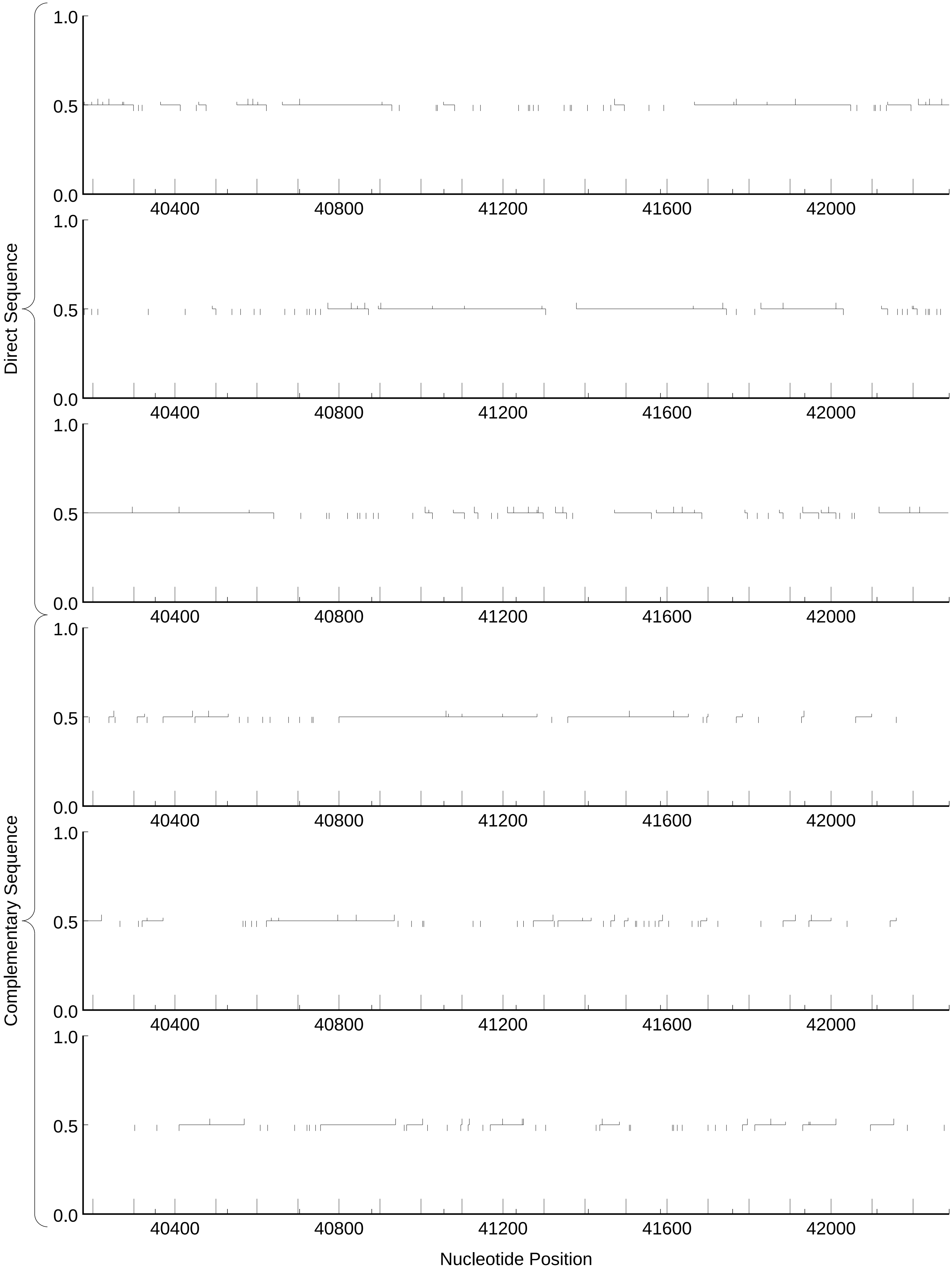
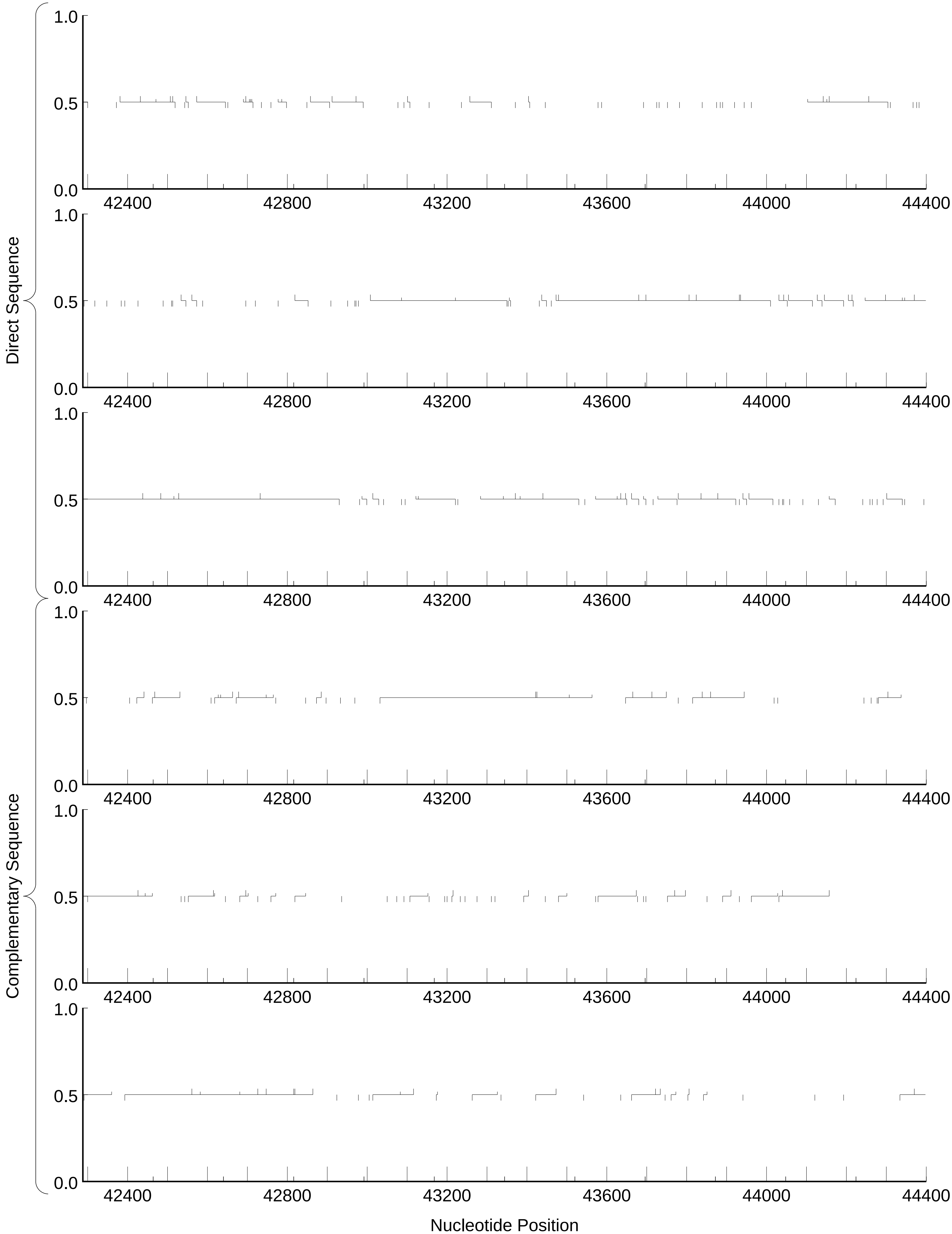
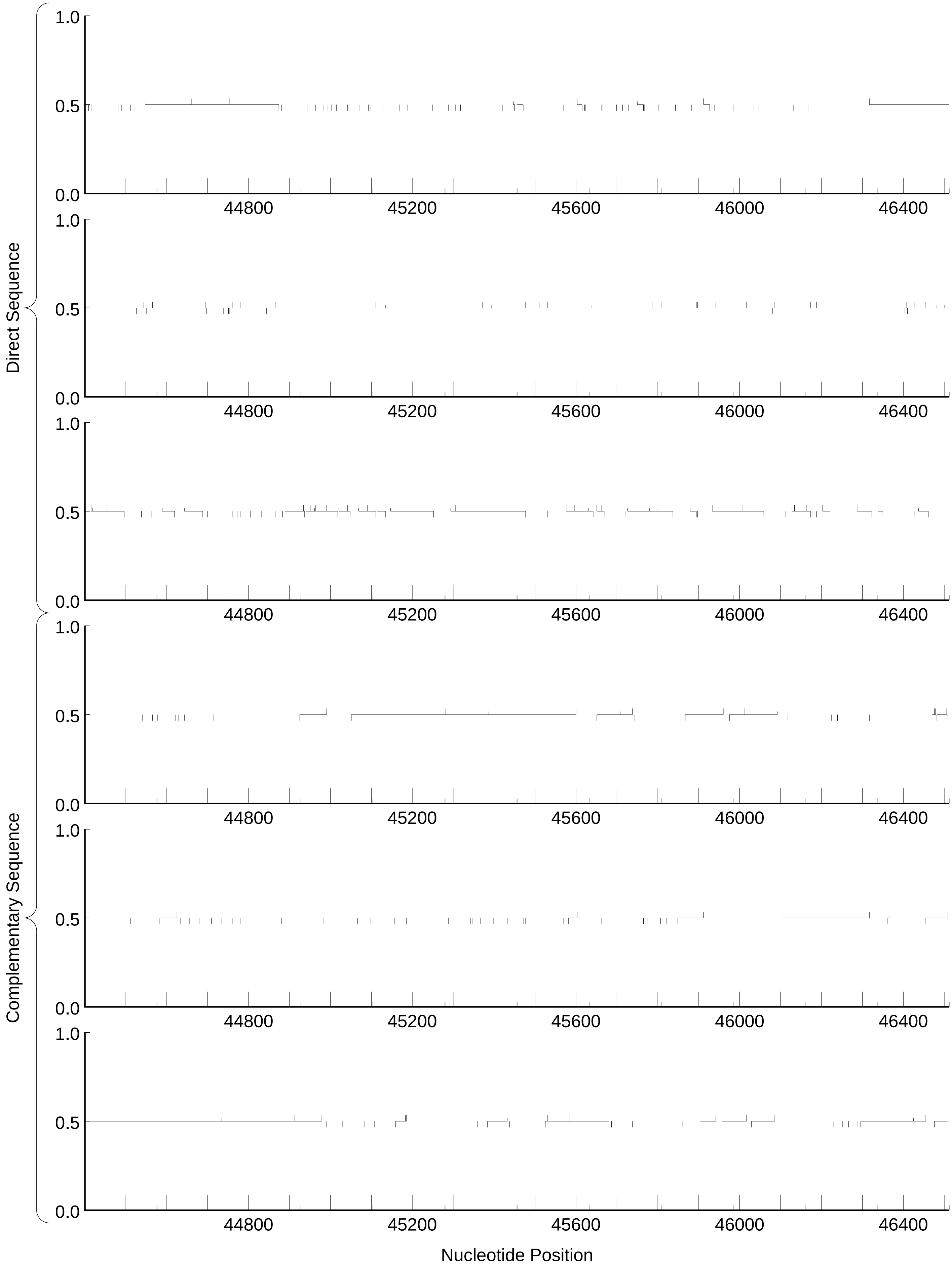


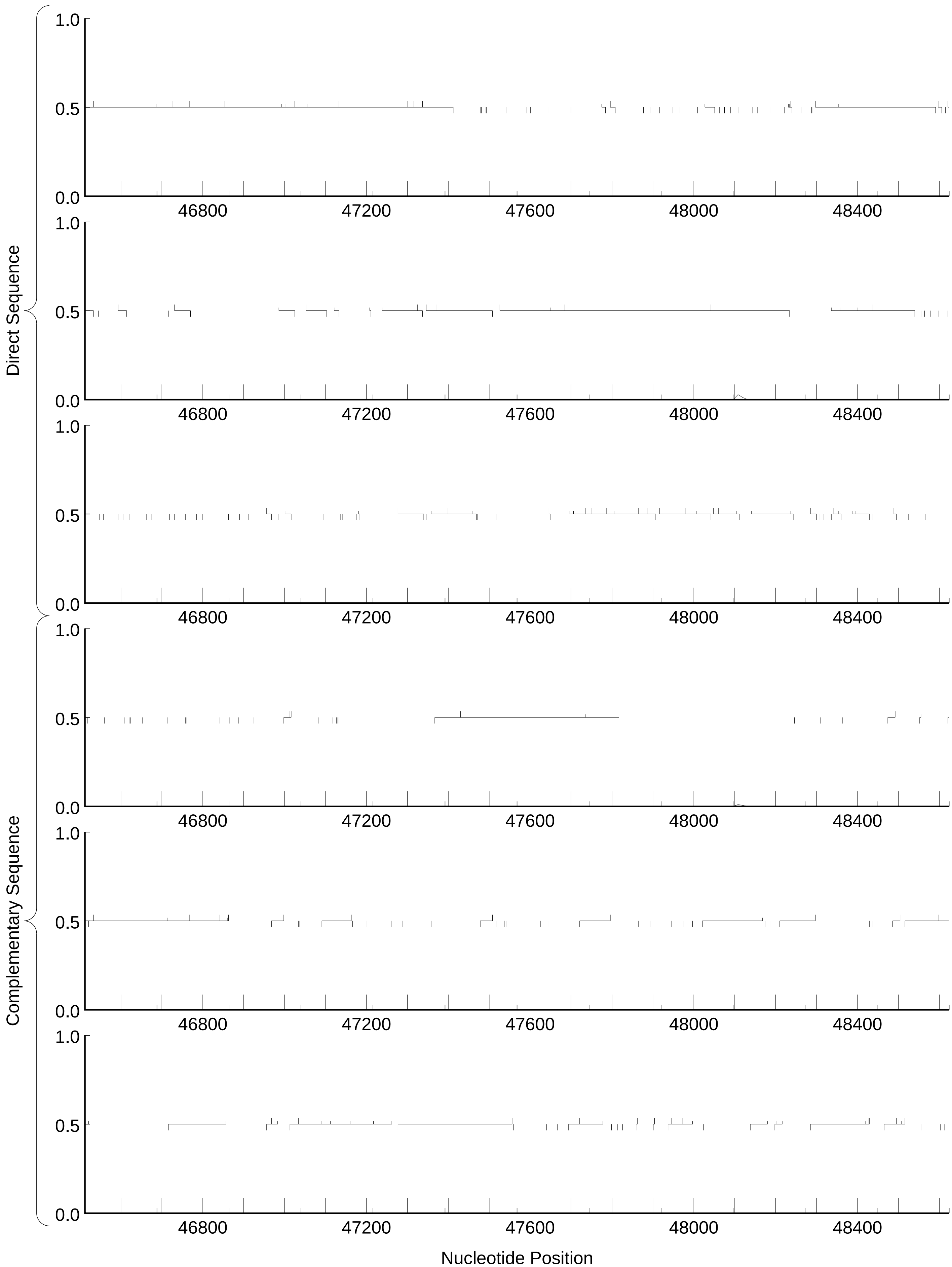
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 22/62



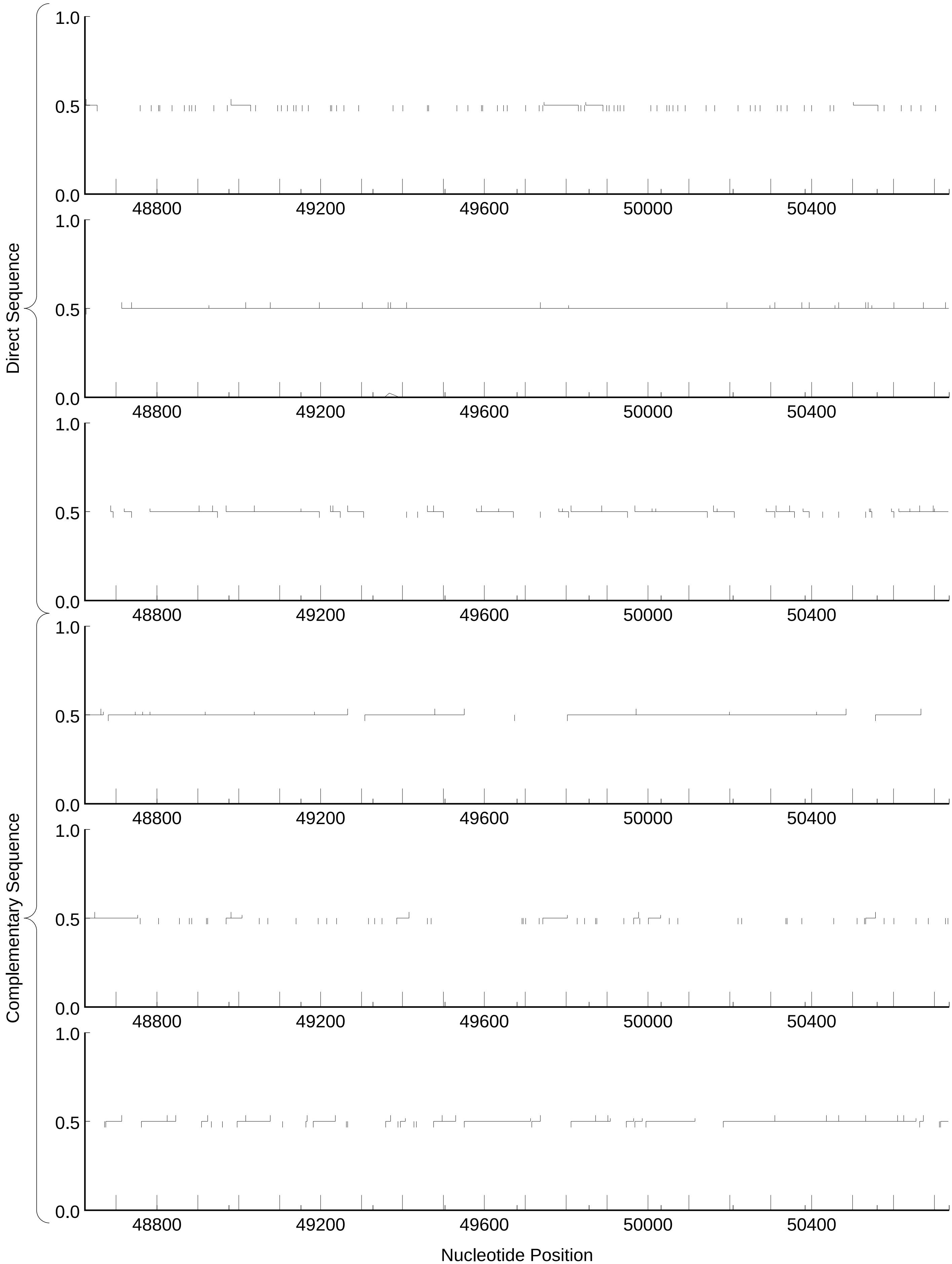
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 23/62



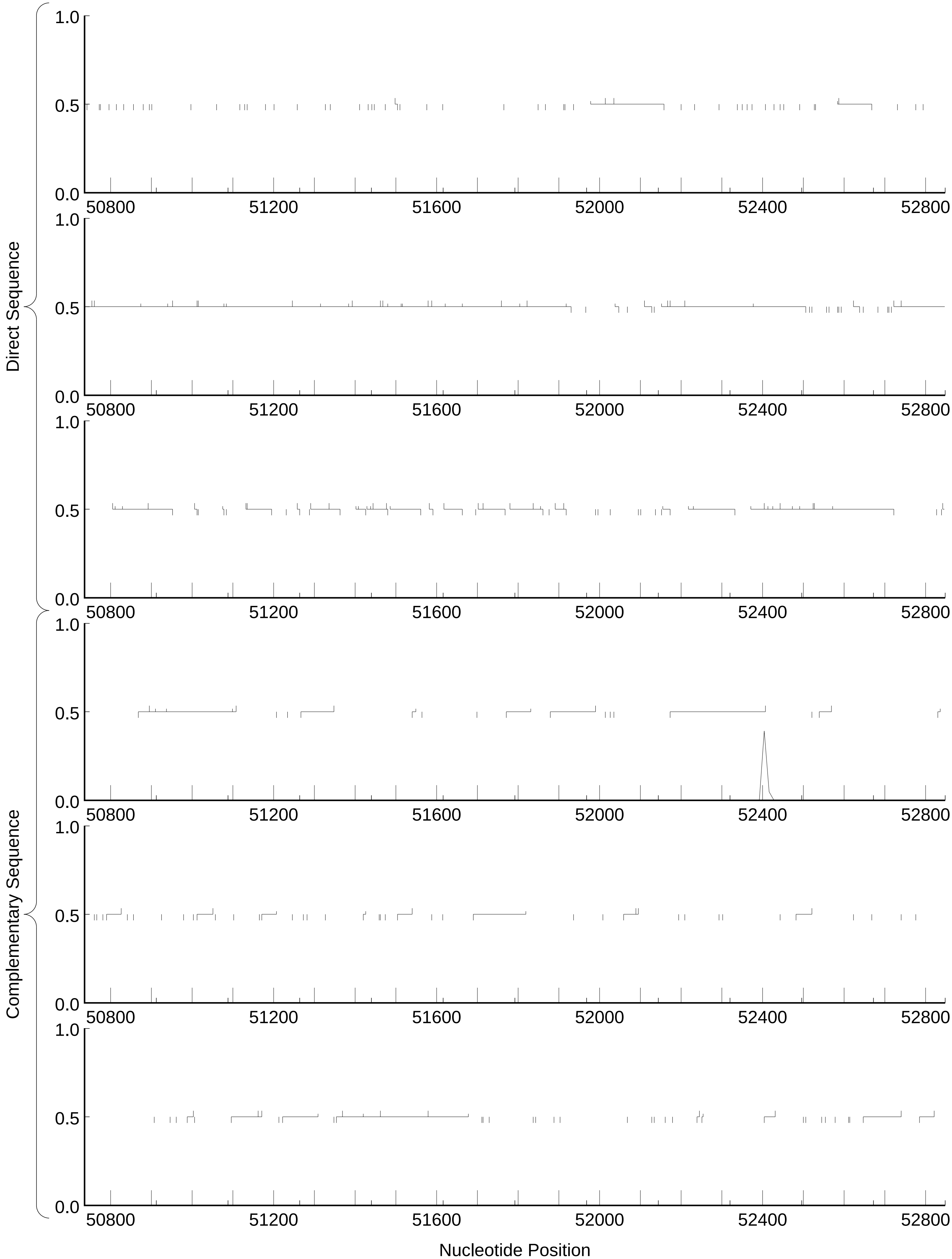
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 24/62



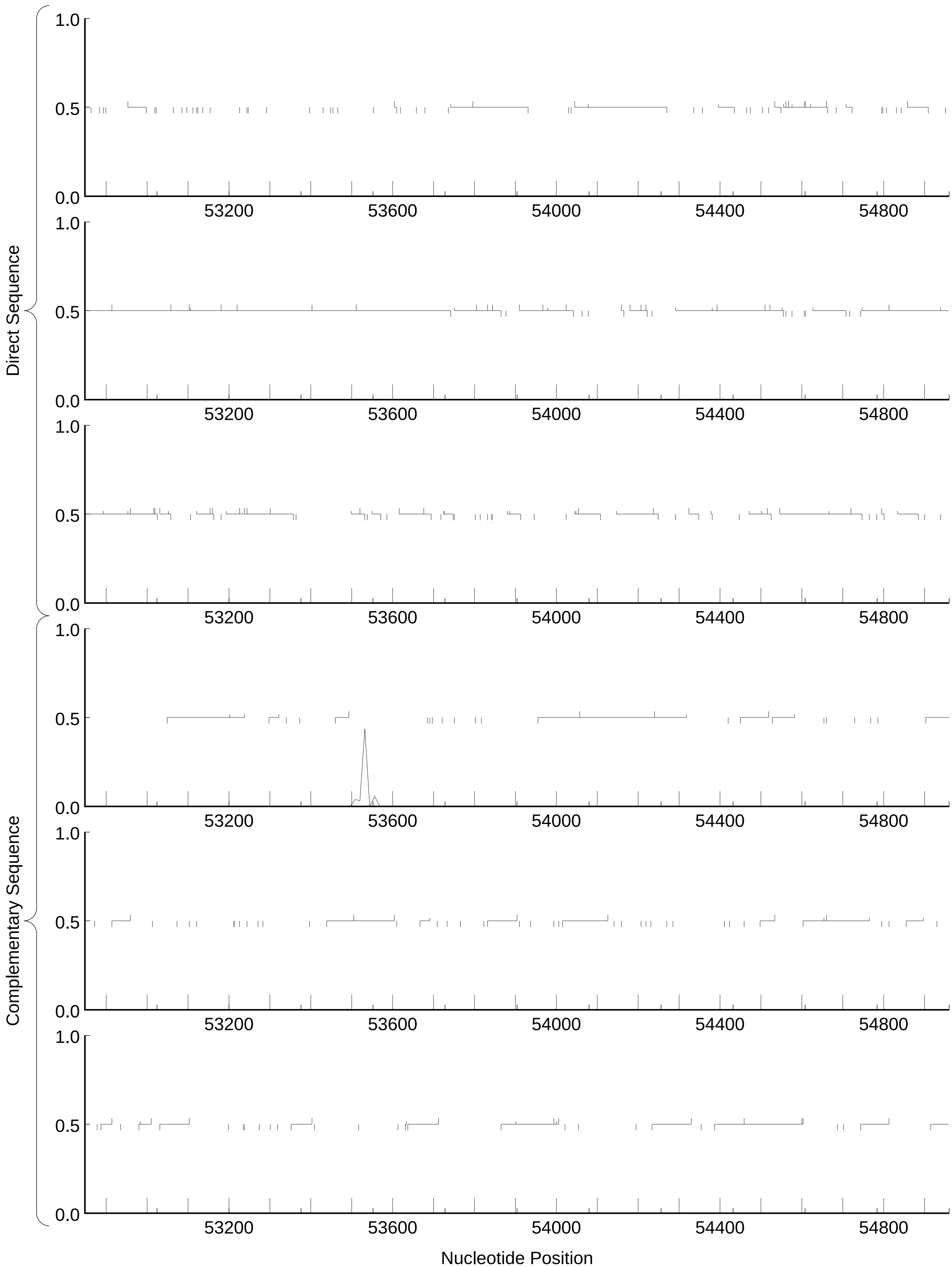
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 25/62

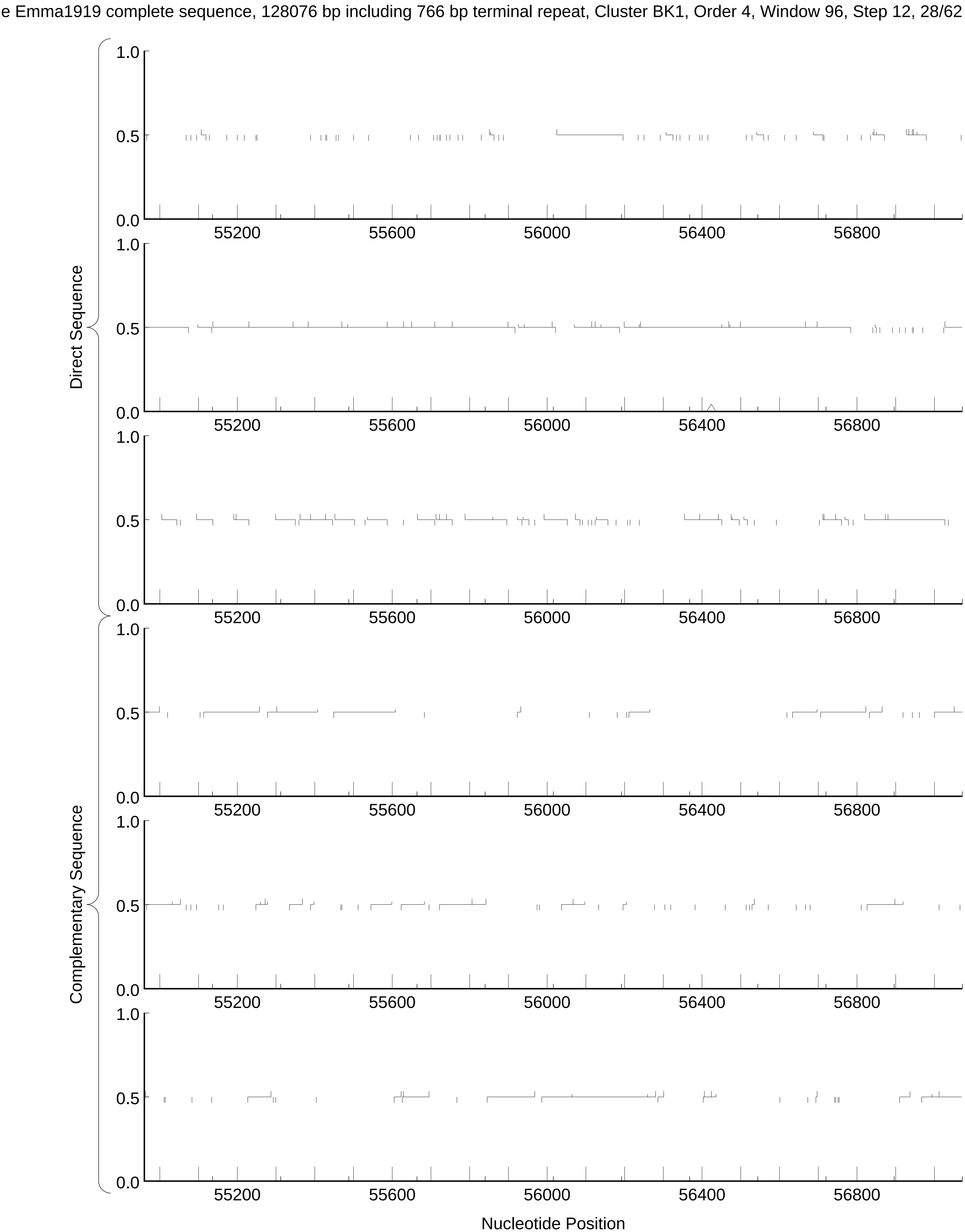


e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 26/62

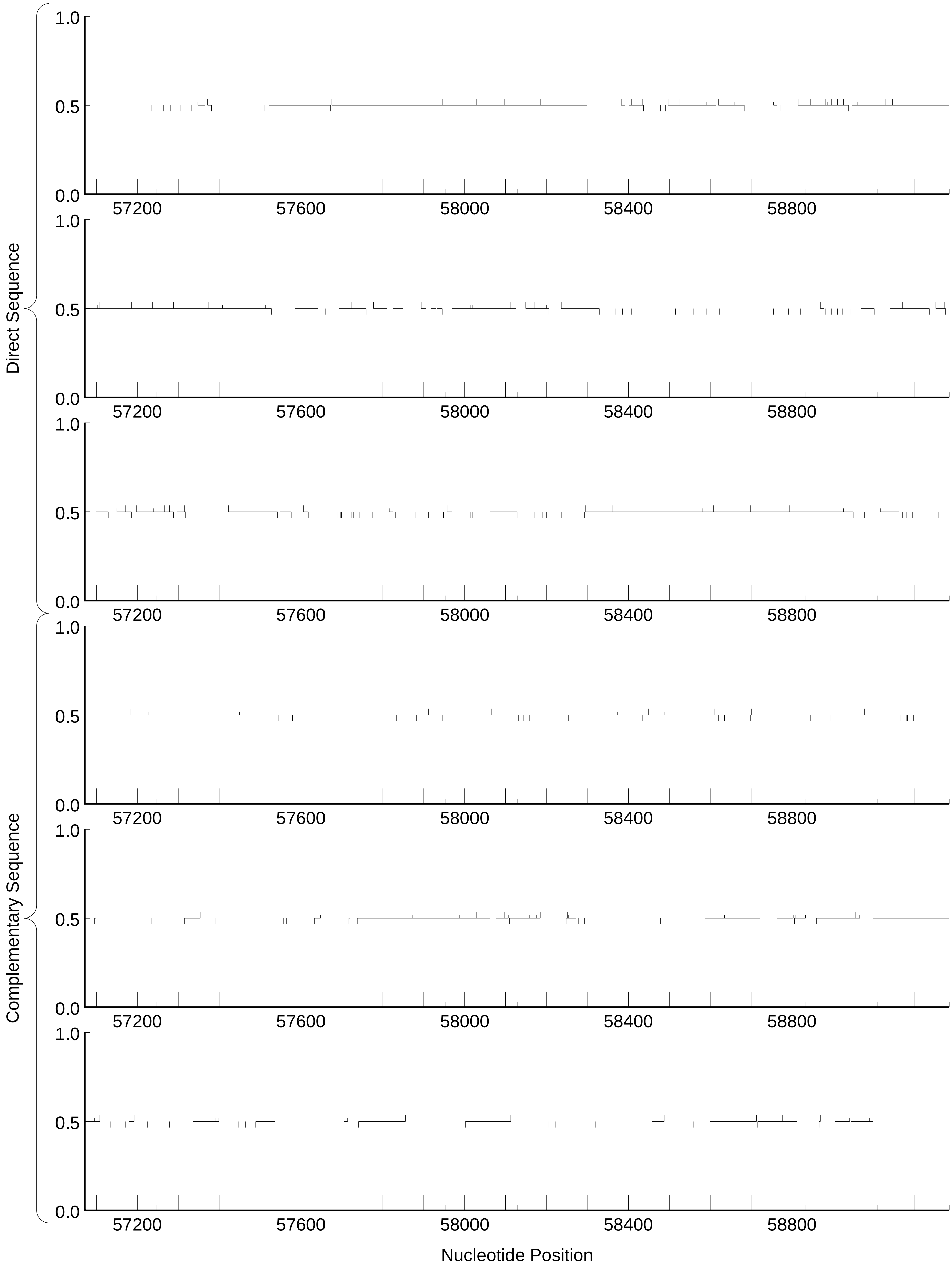


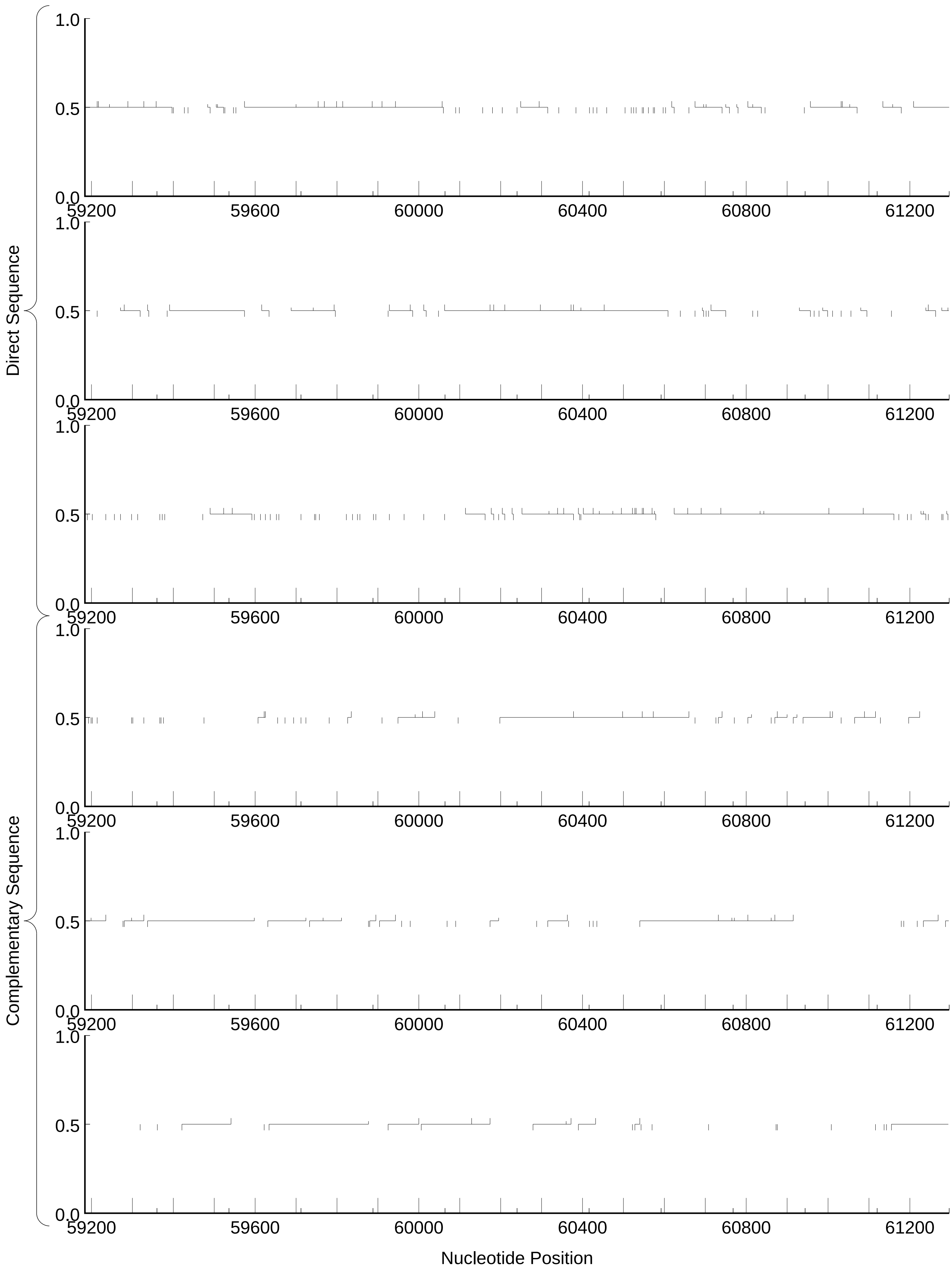
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 27/62



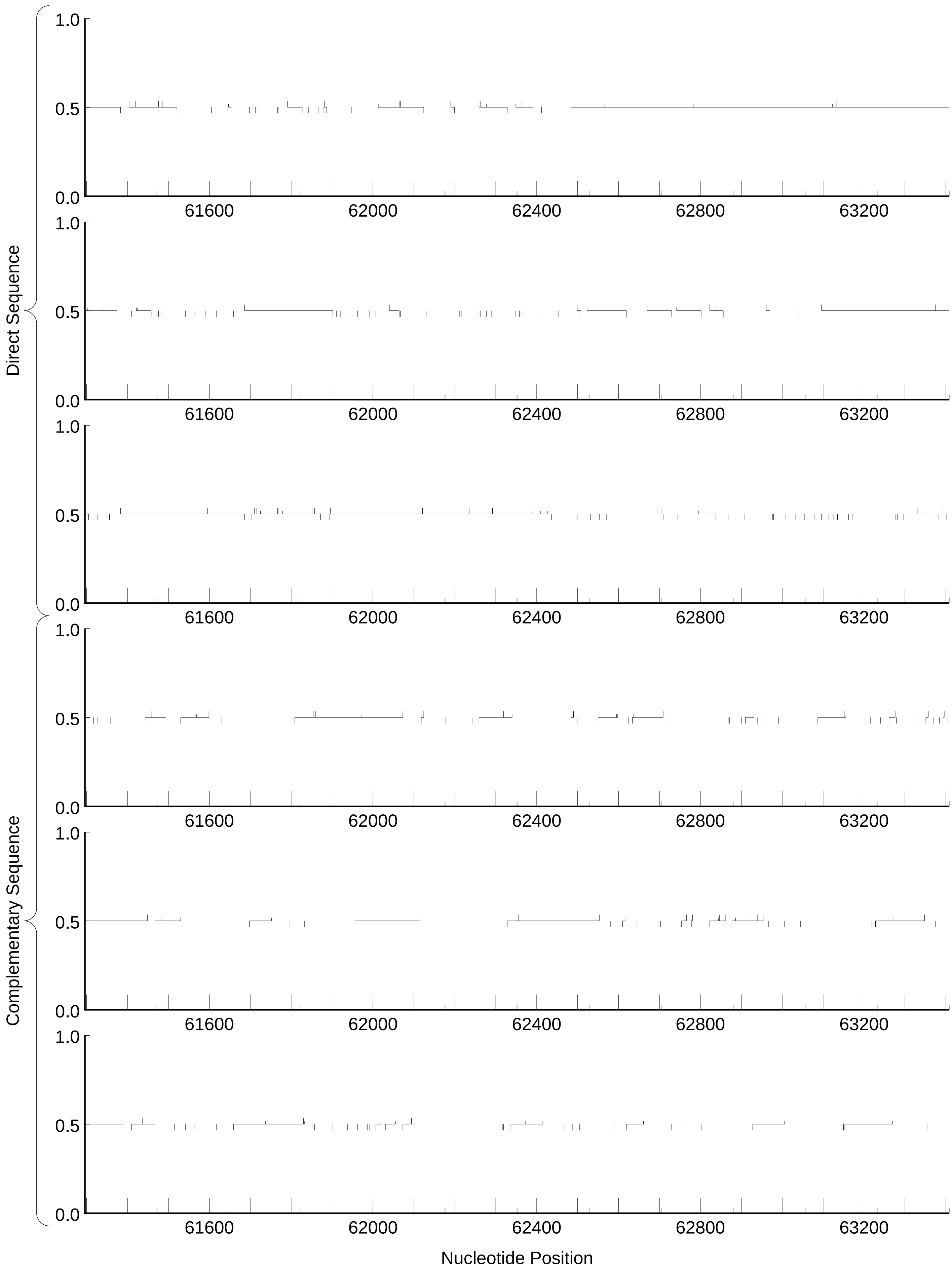

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 28/62
Direct Sequence
Complementary Sequence
1.0
0.5
0.0
55200
55600
56000
56400
56800
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 29/62

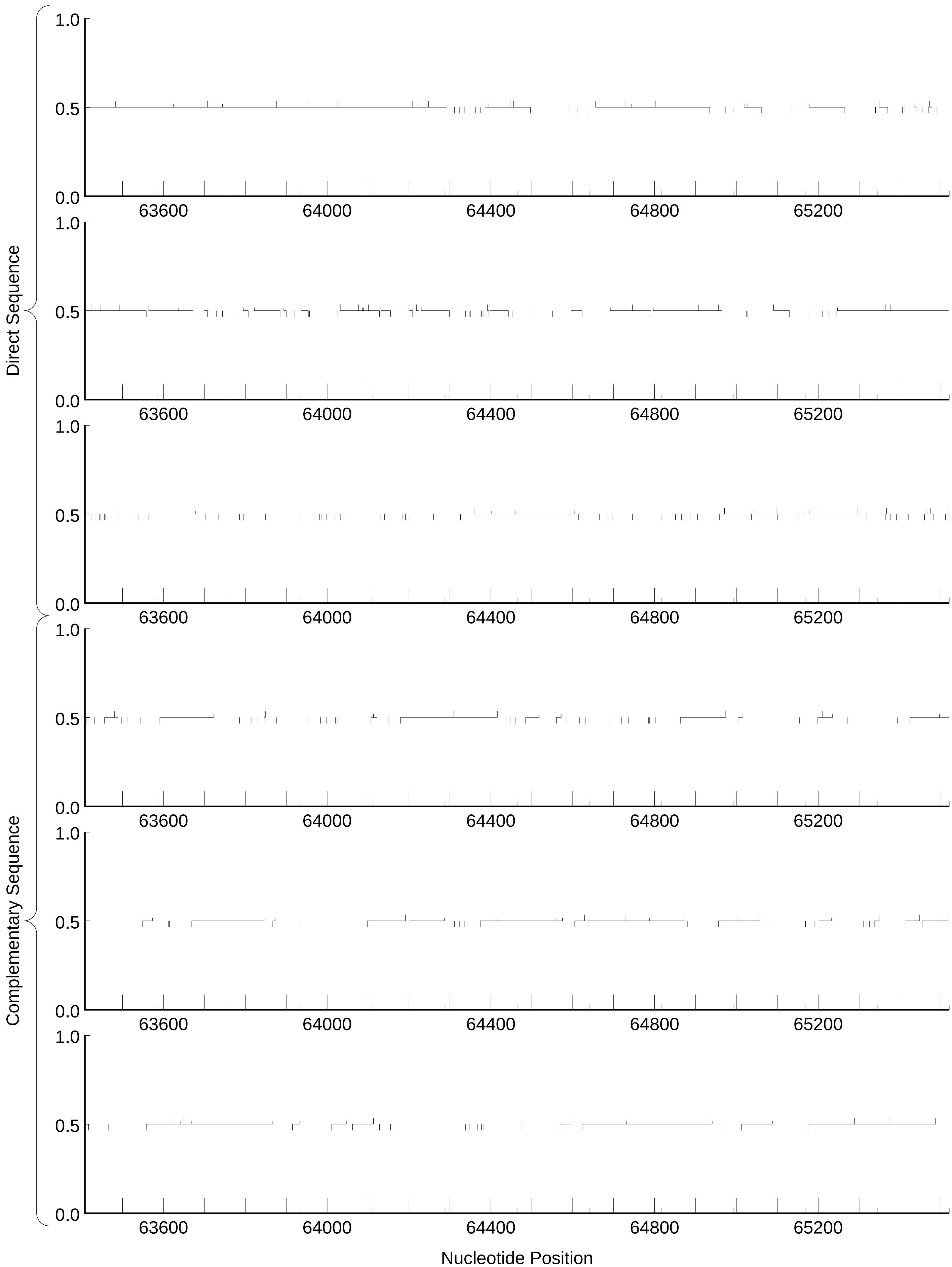


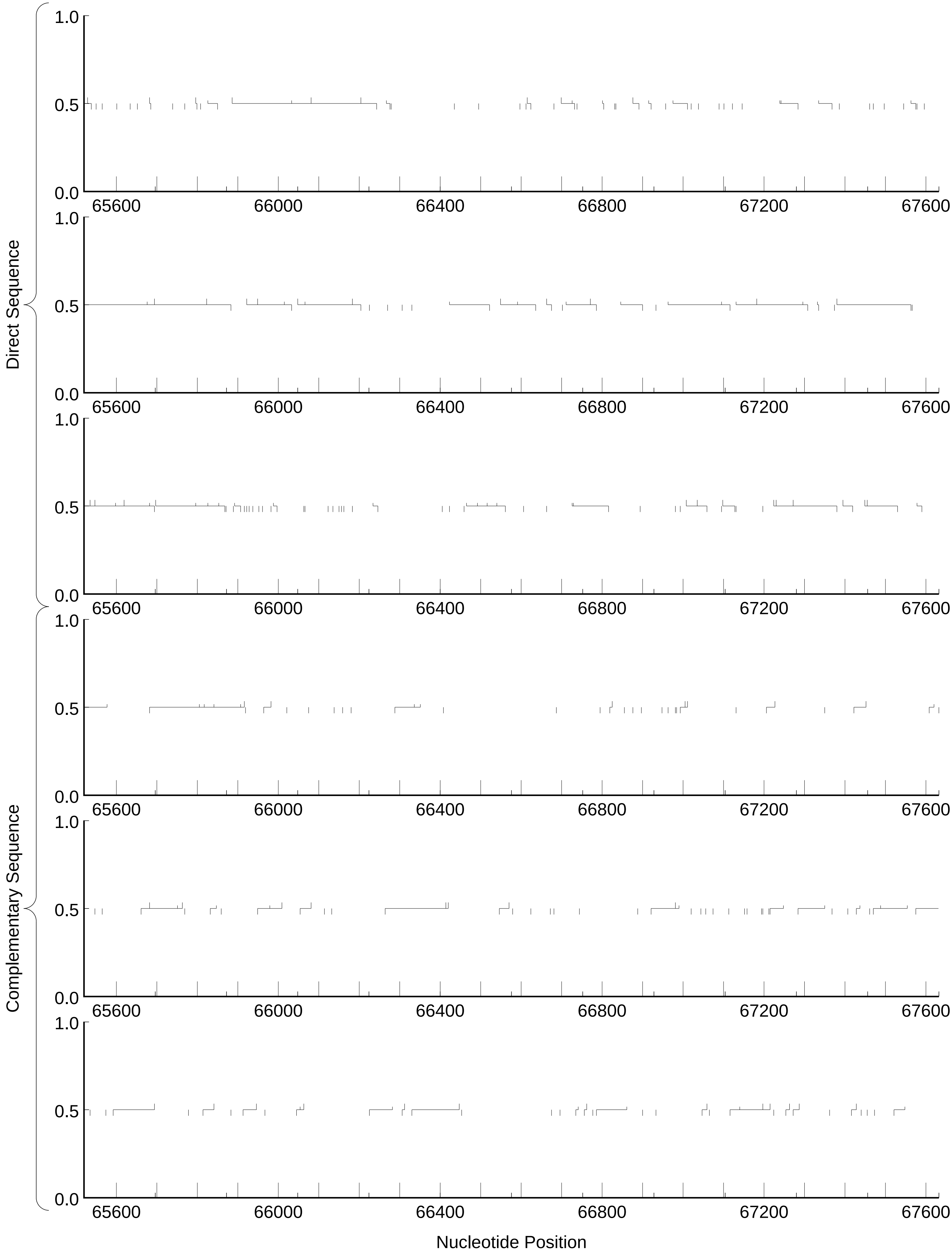


Direct Sequence
Complementary Sequence
1.0
0.5
0.0
59200
59600
60000
60400
60800
61200
Nucleotide Position


1.0
0.5
0.0
61600
62000
62400
62800
63200
Direct Sequence
Complementary Sequence
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 32/62

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Complementary Sequence
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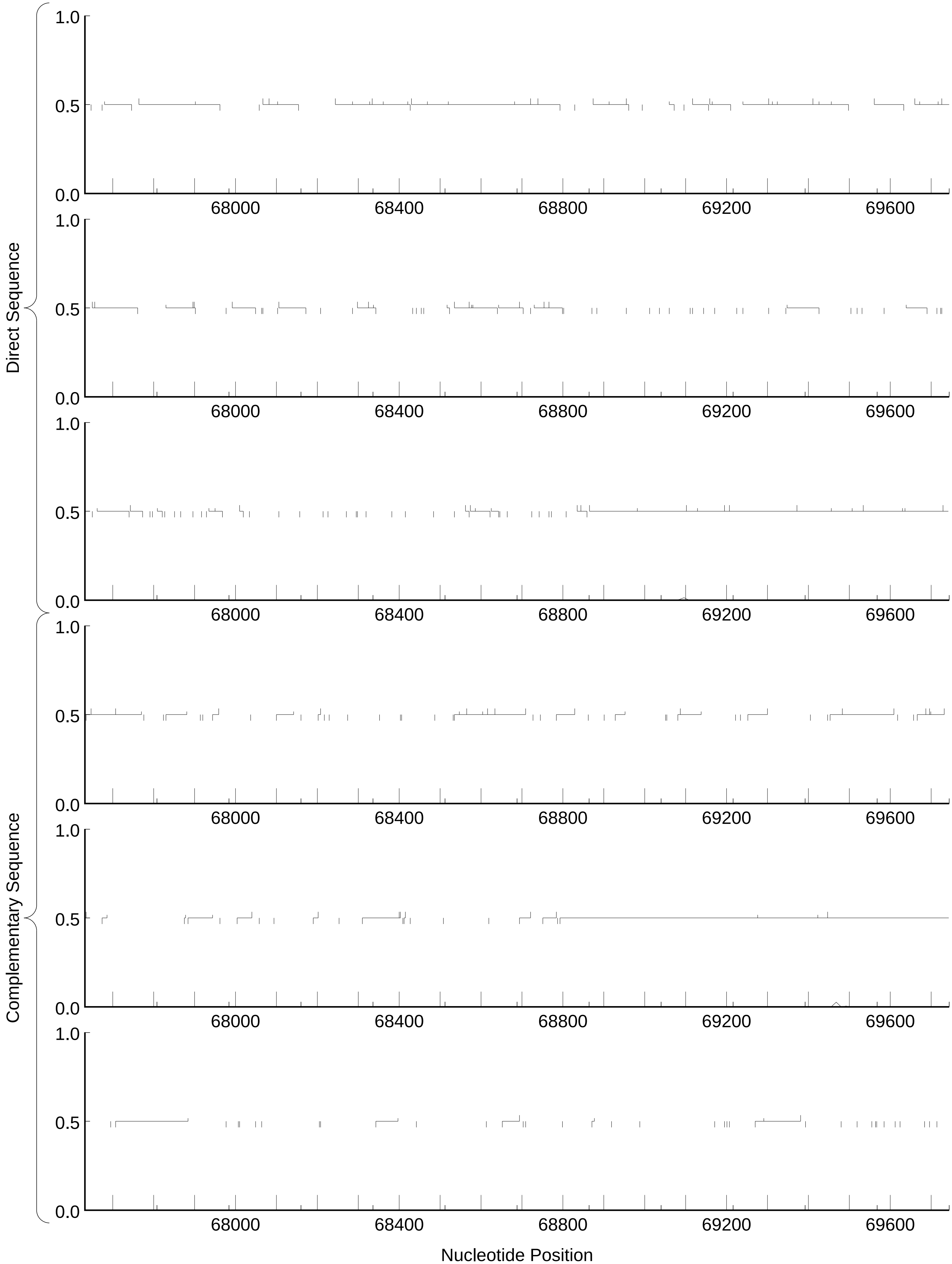
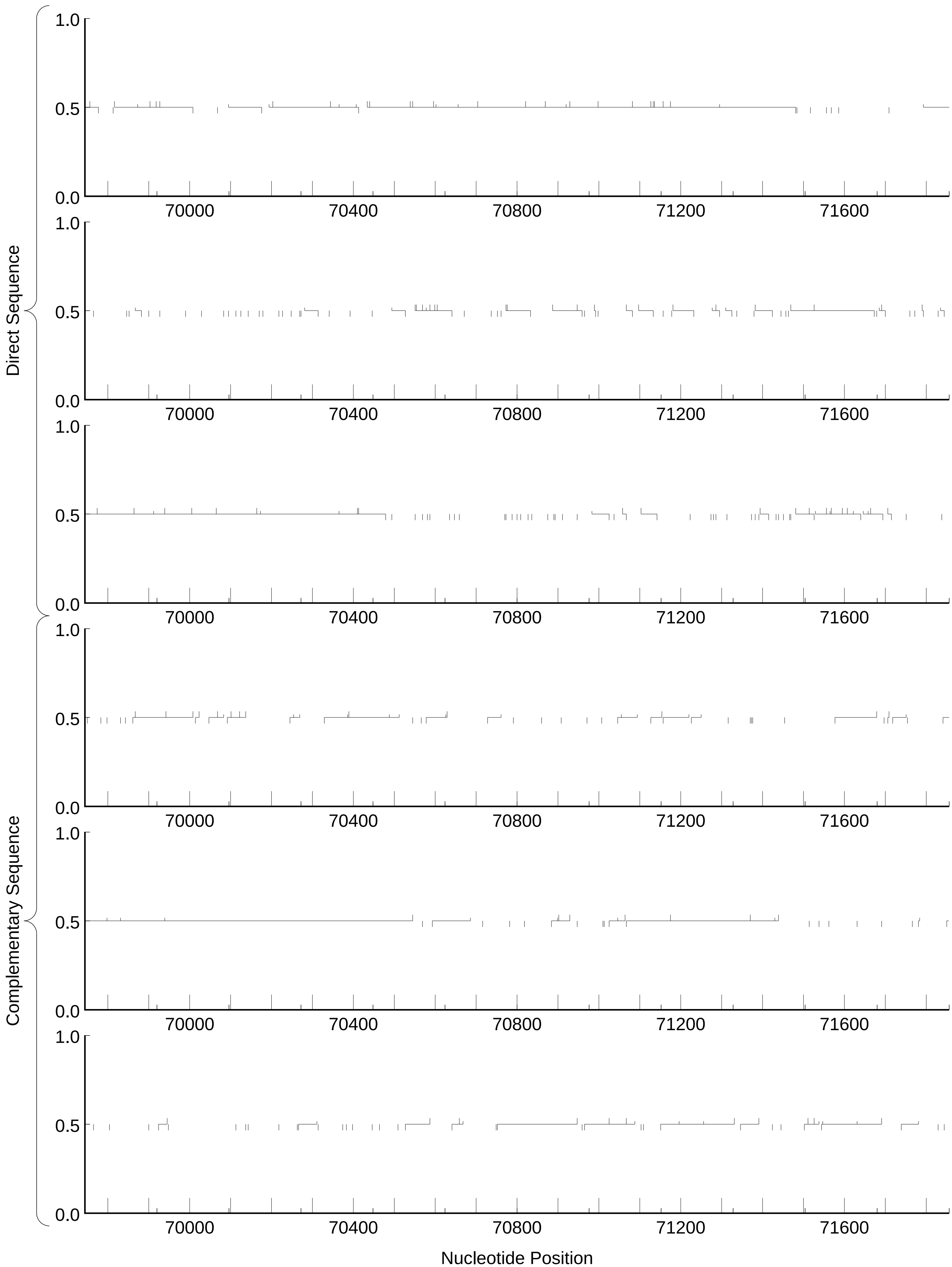
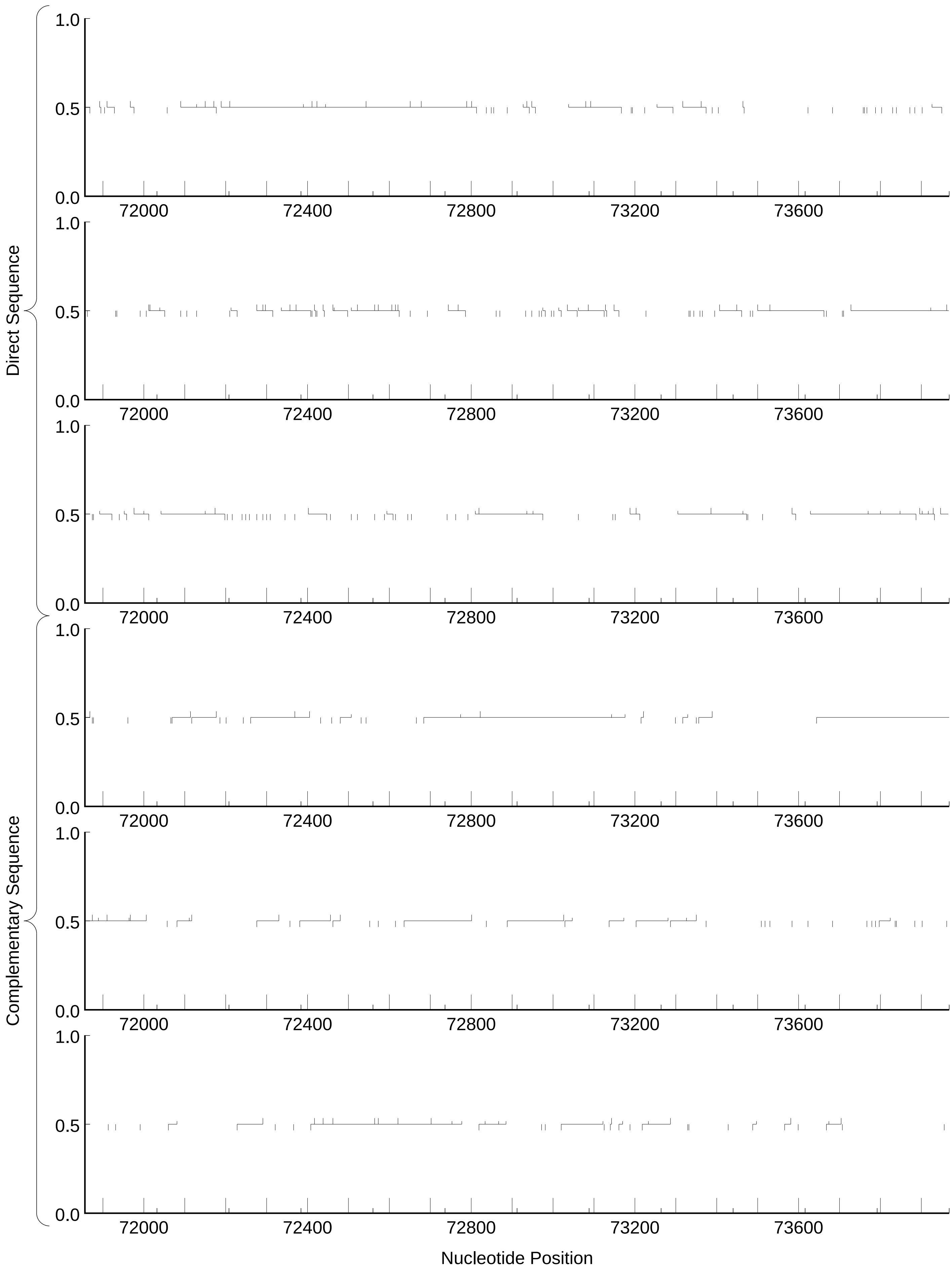
65600
66000
66400
66800
67200
67600
Nucleotide Position

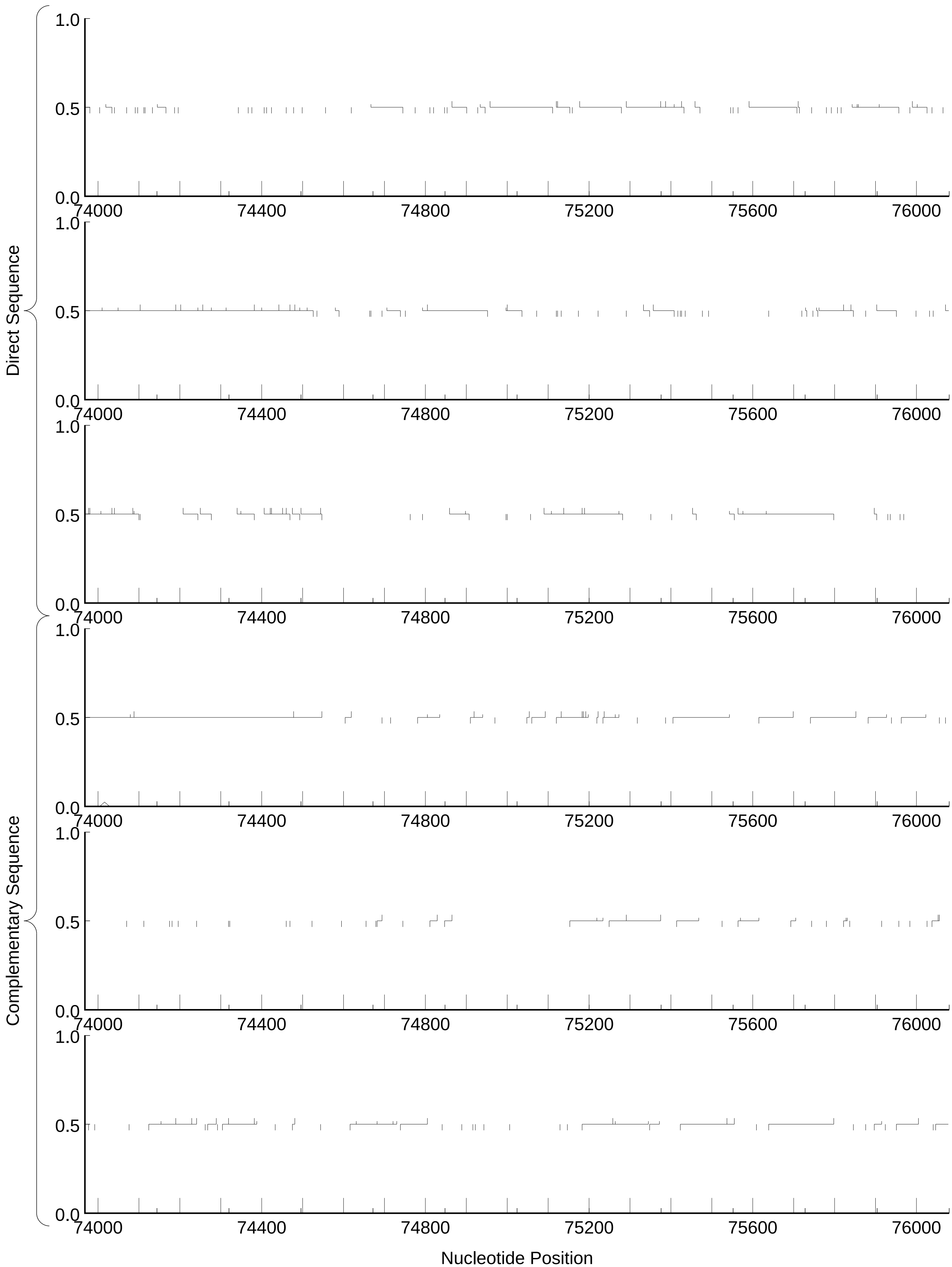

Direct Sequence
Complementary Sequence
1.0
0.5
0.0
68000
68400
68800
69200
69600
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 35/62

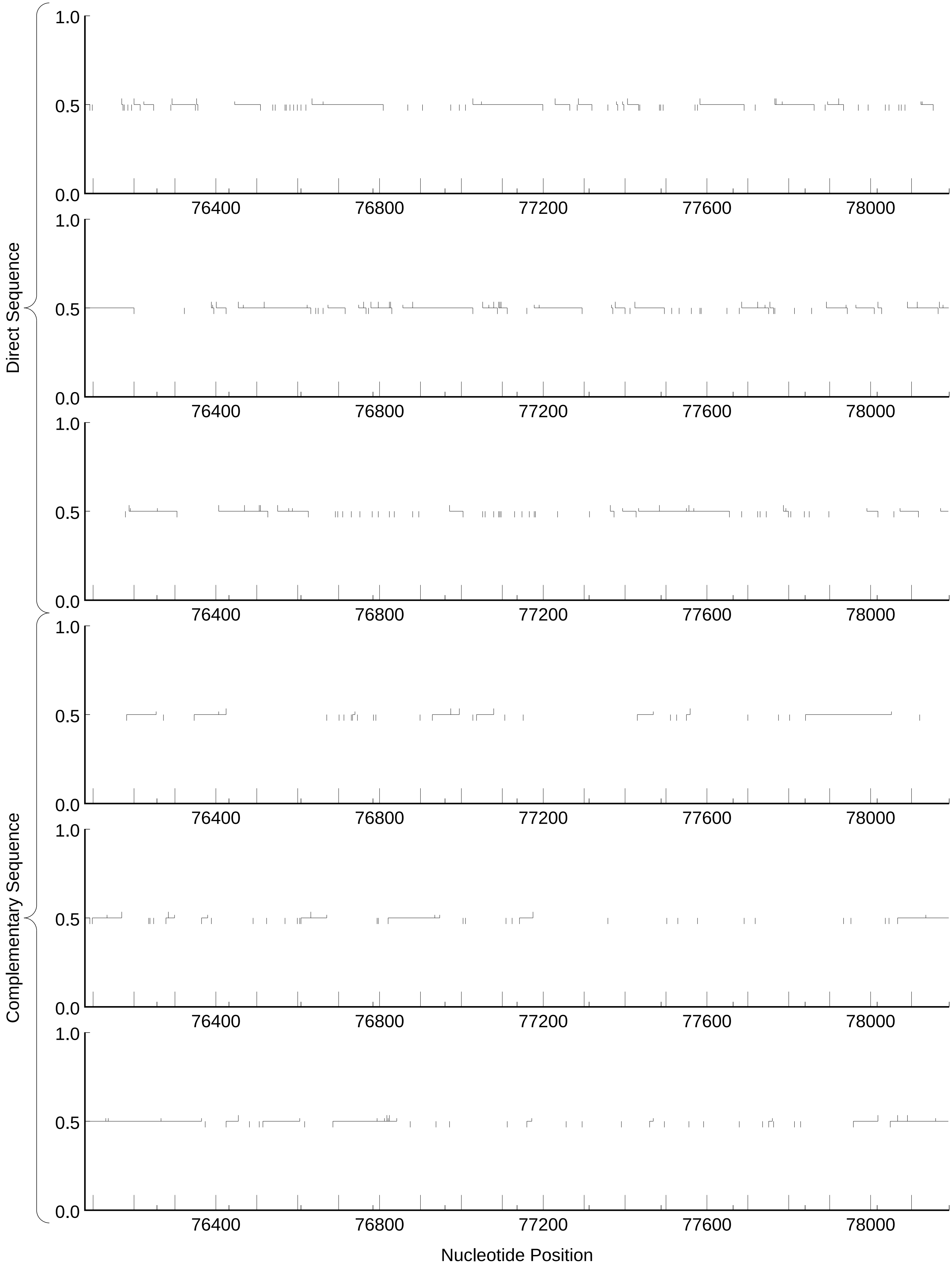


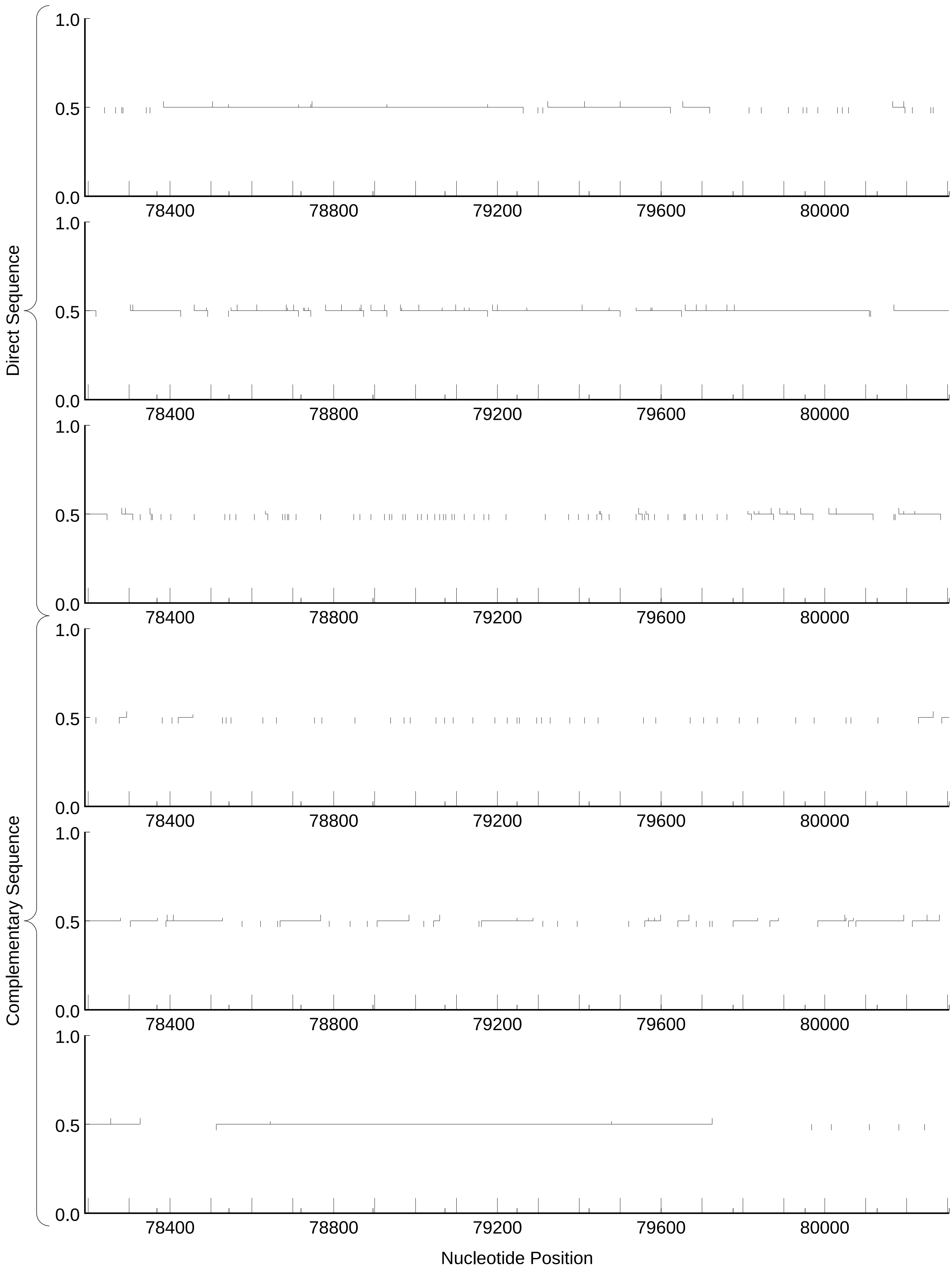
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 36/62




Direct Sequence
Complementary Sequence
1.0
0.5
0.0
74000
74400
74800
75200
75600
76000
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 38/62





Direct Sequence
Complementary Sequence
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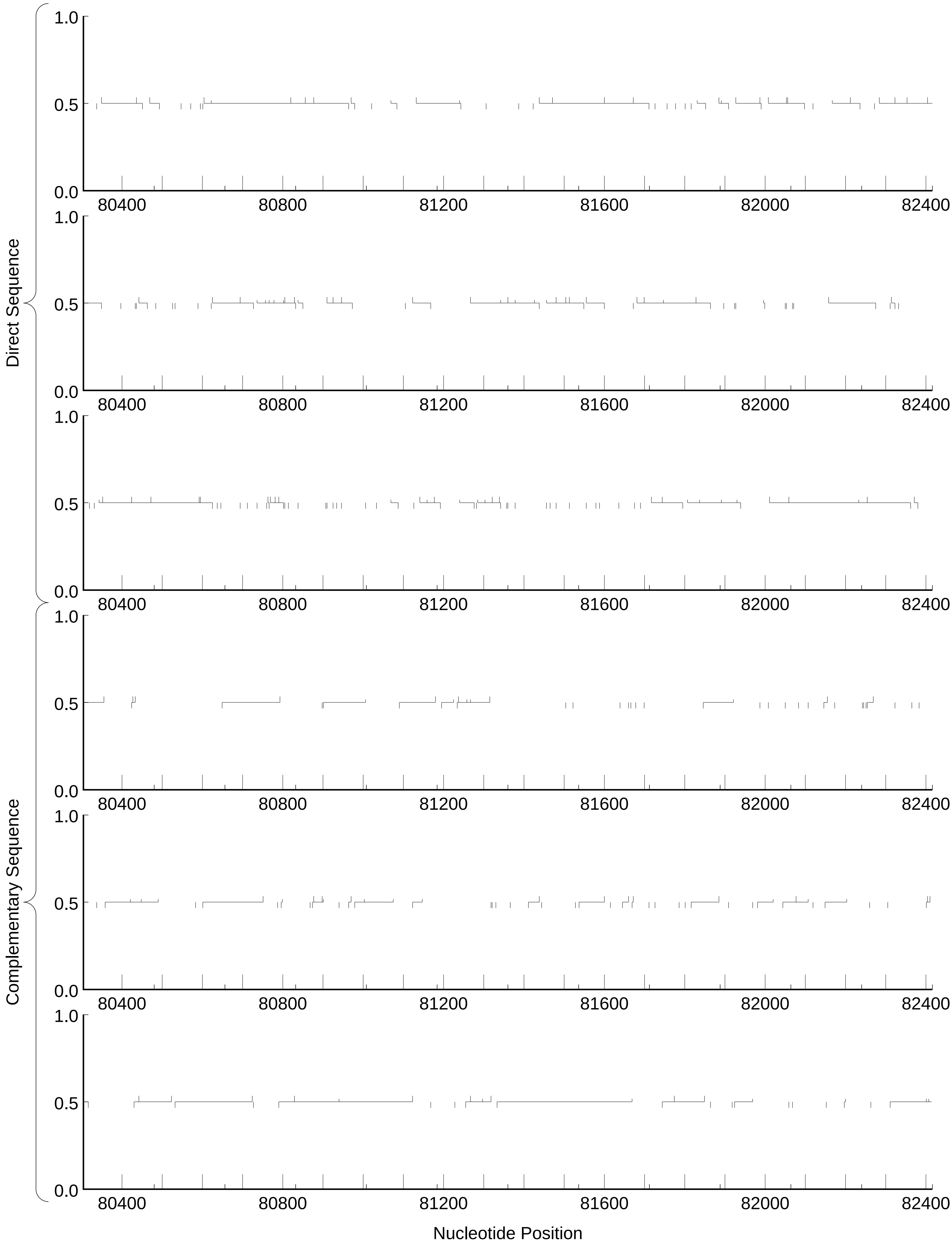
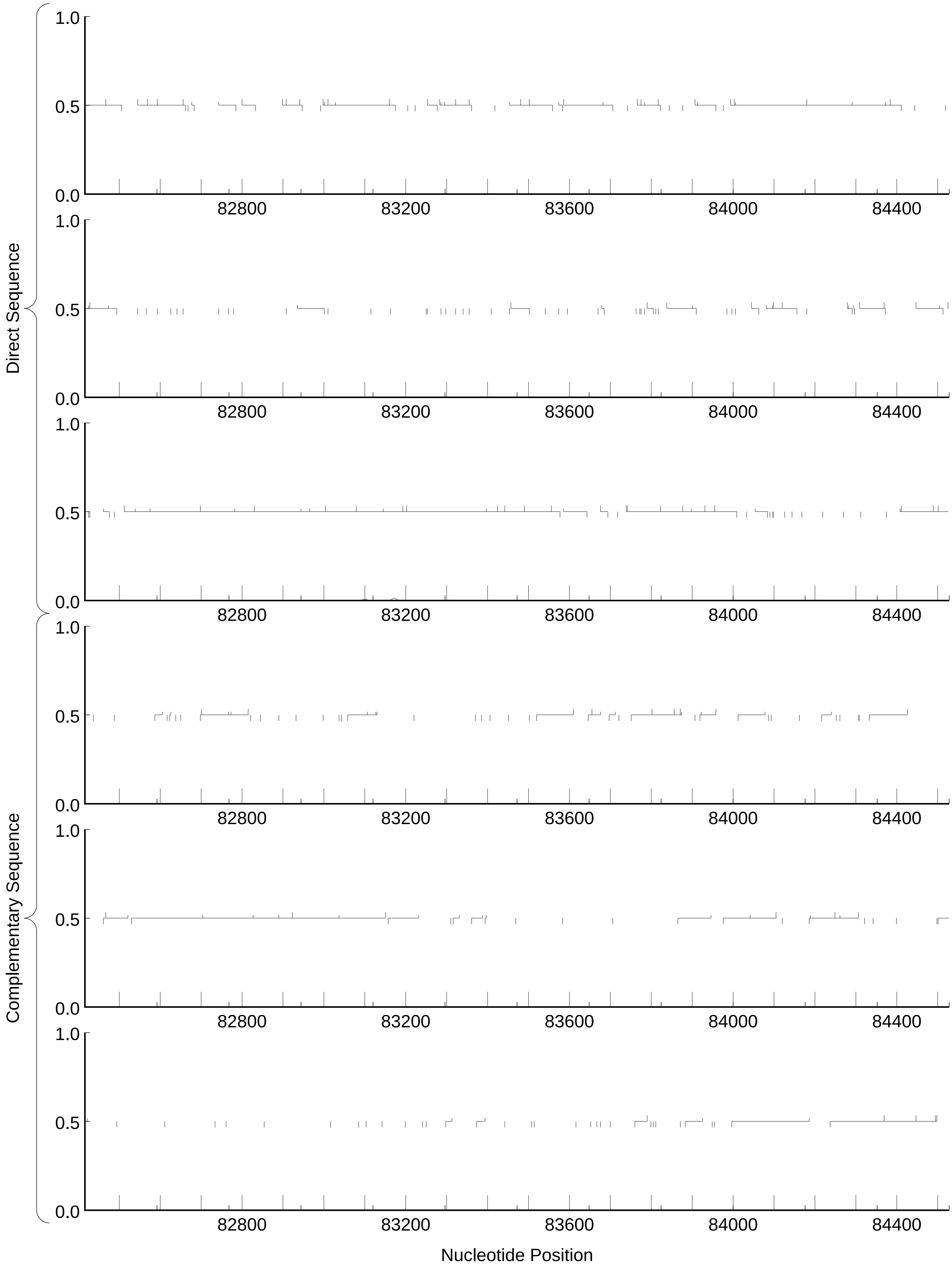
0.5
0.0
78400
78800
79200
79600
80000
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 40/62

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Complementary Sequence
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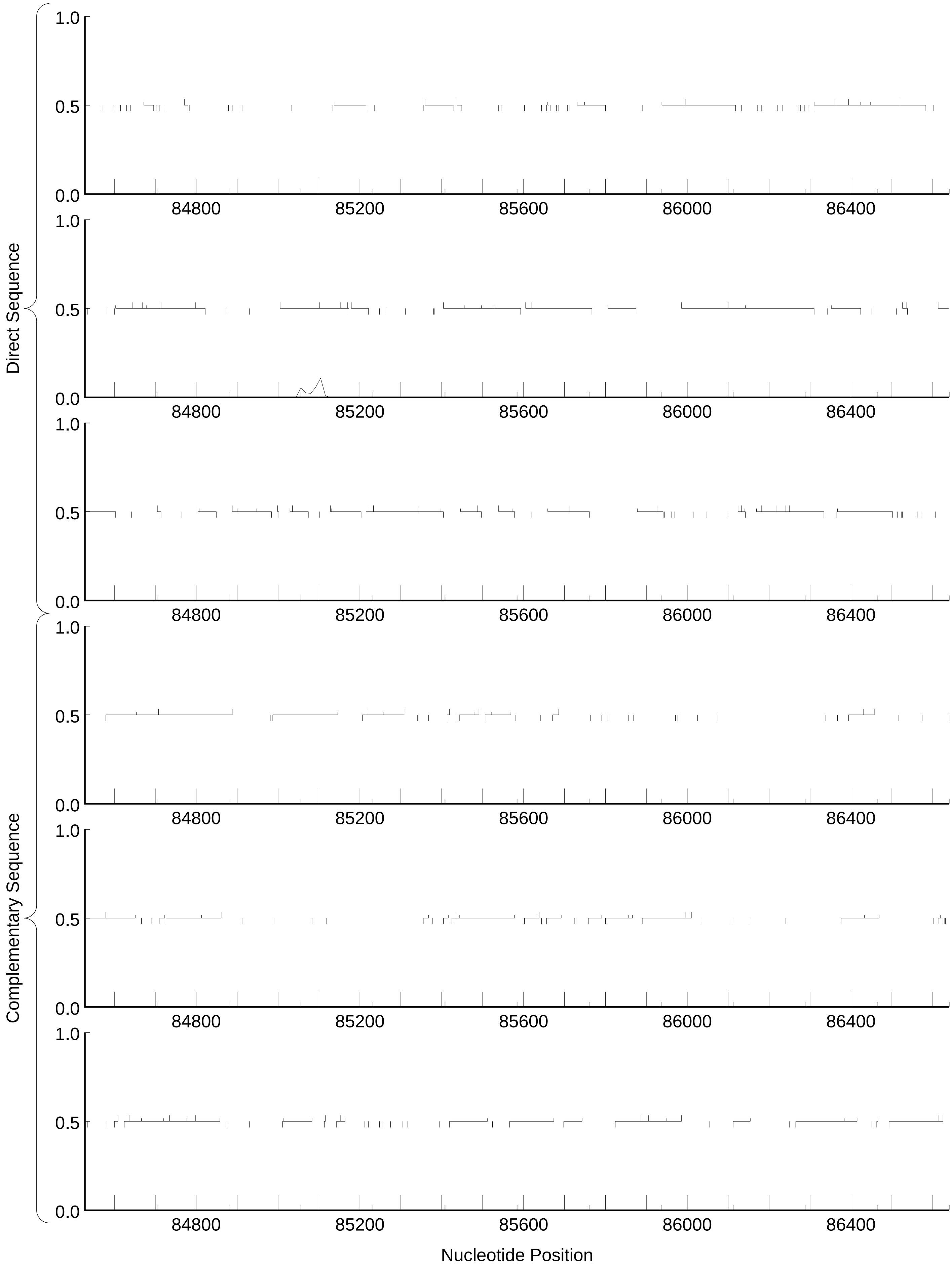
0.5
0.0
82800
83200
83600
84000
84400
Nucleotide Position



Direct Sequence
Complementary Sequence
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0.5
0.0
84800
85200
85600
86000
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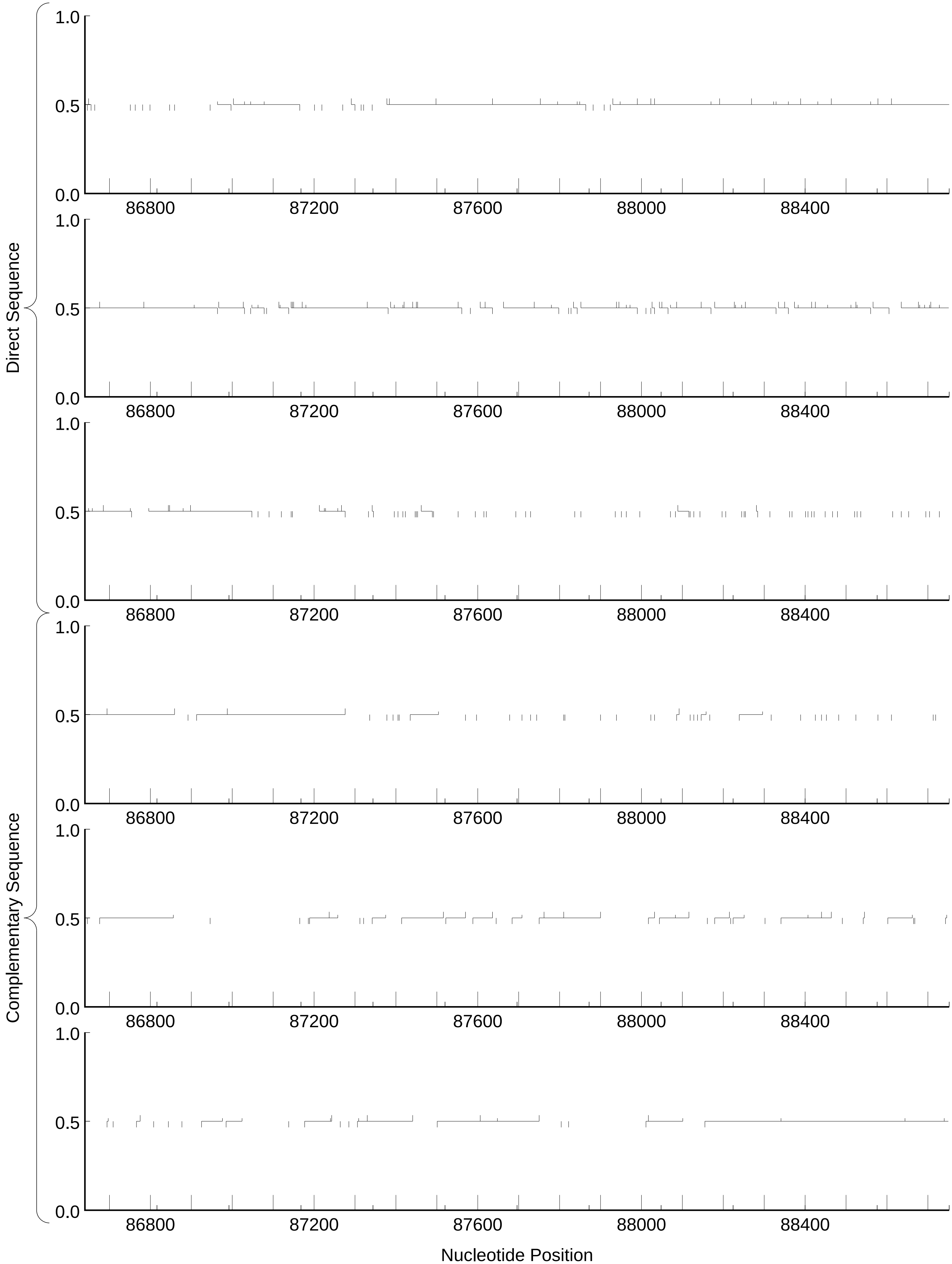
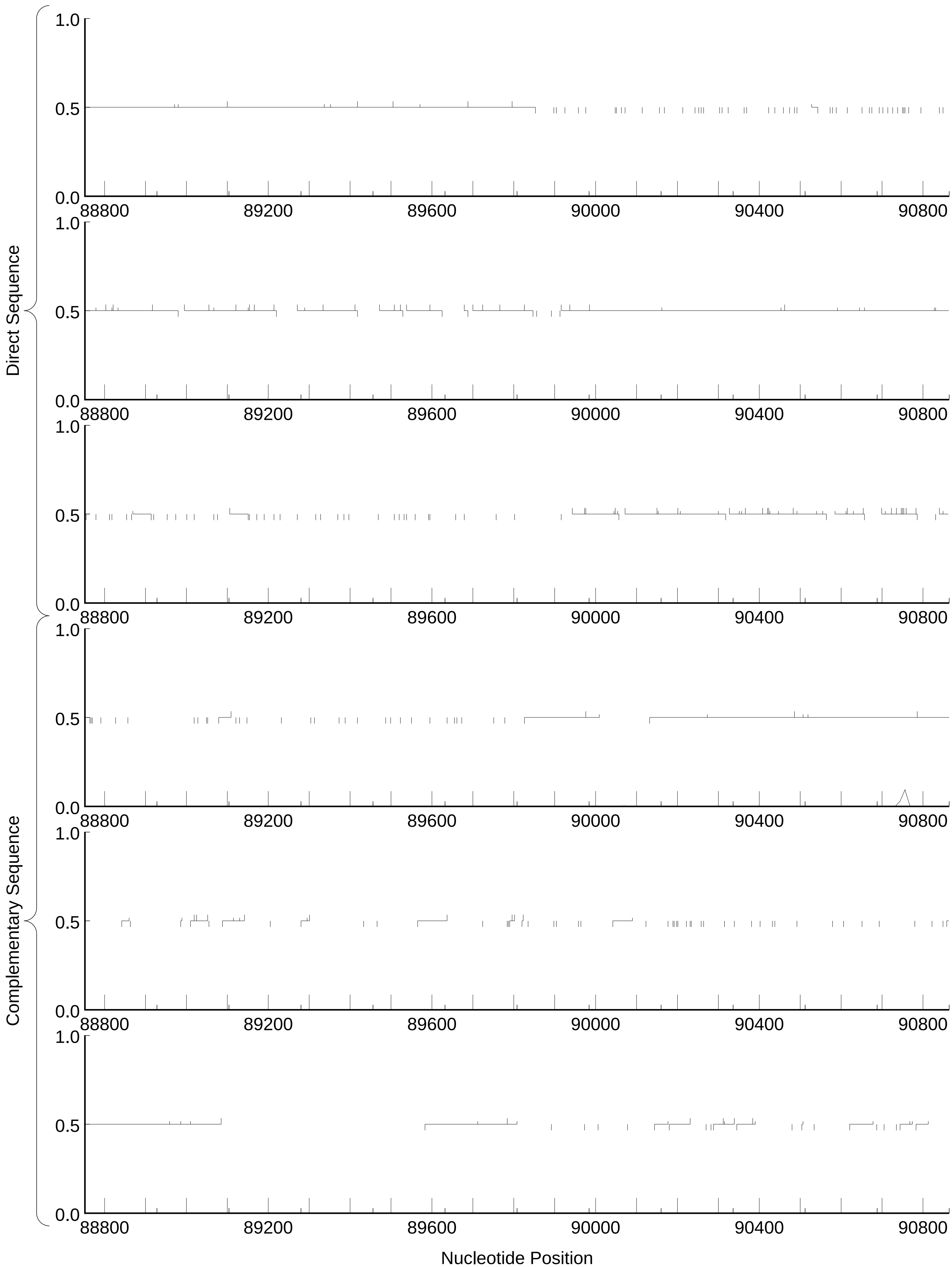
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 43/62

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Complementary Sequence
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88800
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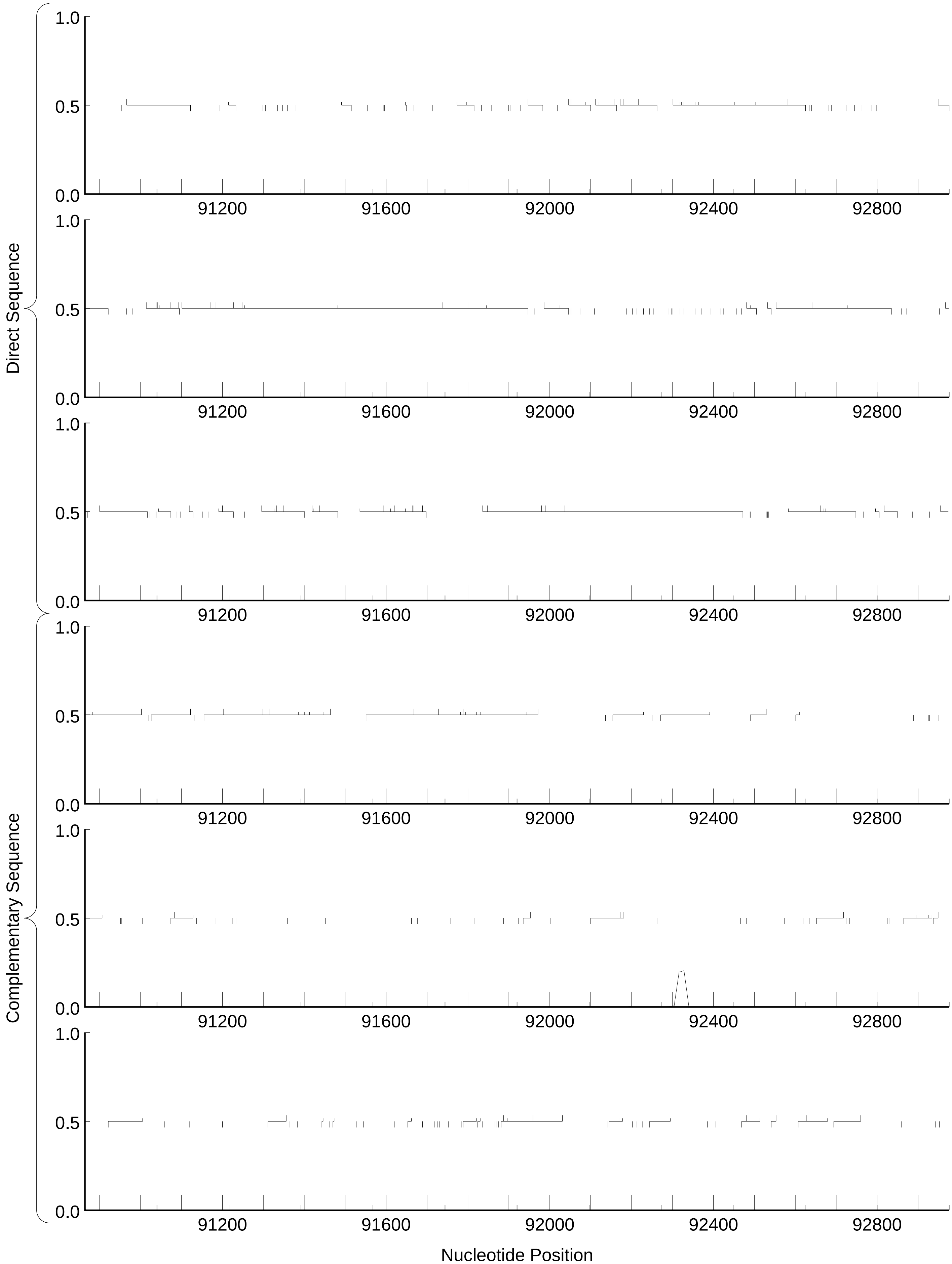
89600
90000
90400
90800
Nucleotide Position



Direct Sequence
Complementary Sequence
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0.5
0.0
91200
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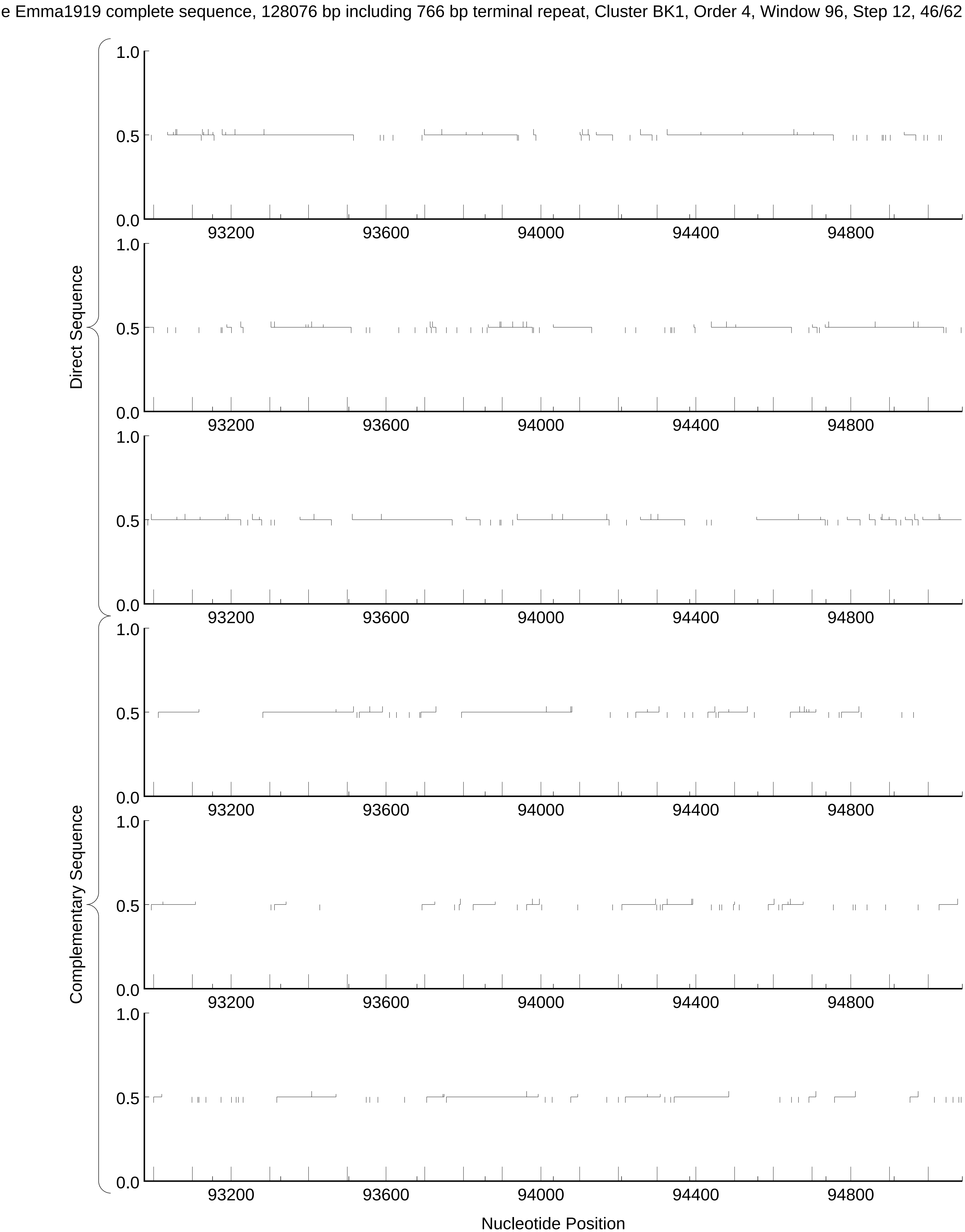
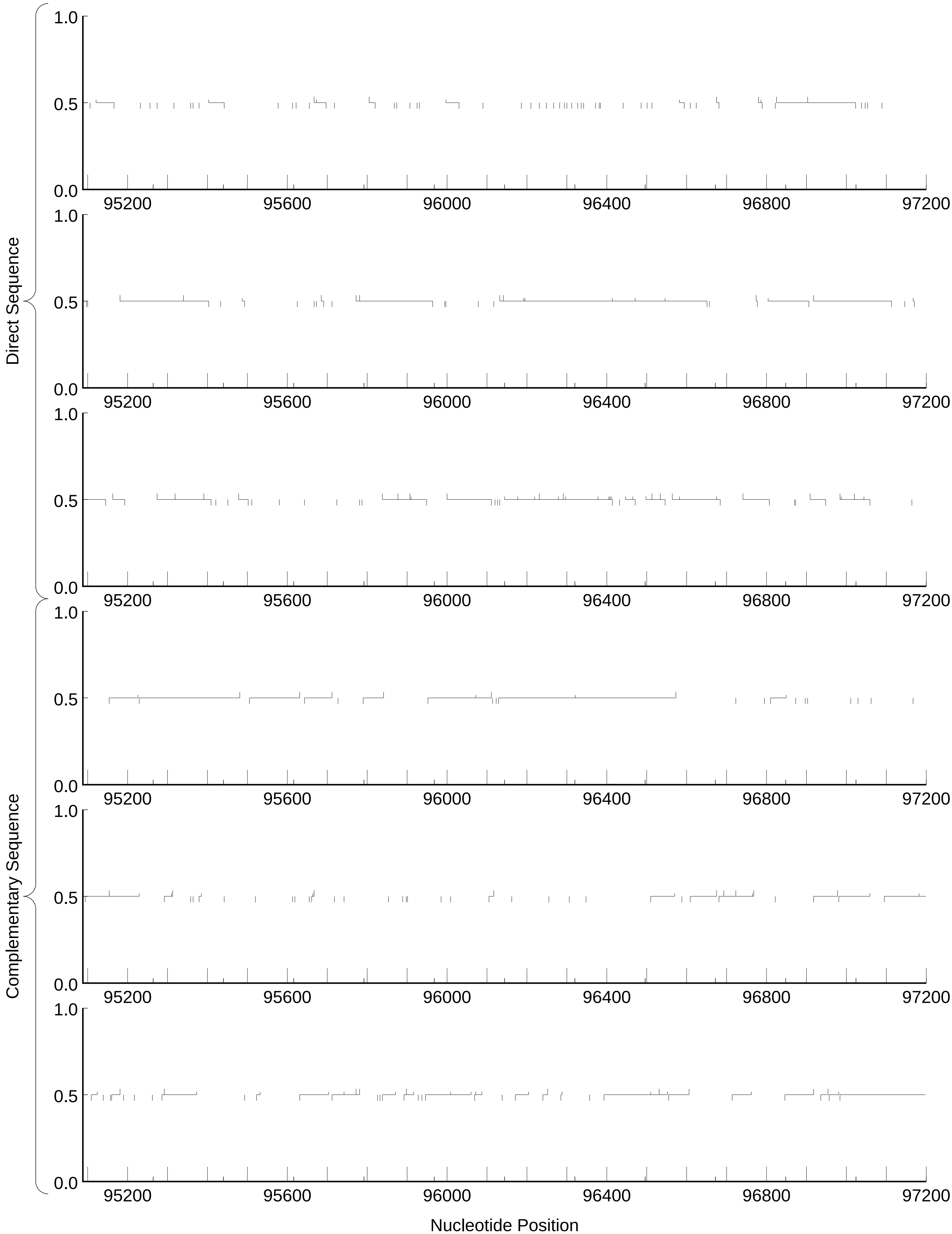
92000
92400
92800
Nucleotide Position


e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 46/62
Direct Sequence
Complementary Sequence
1.0
0.5
0.0
93200
93600
94000
94400
94800
Nucleotide Position

e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 47/62



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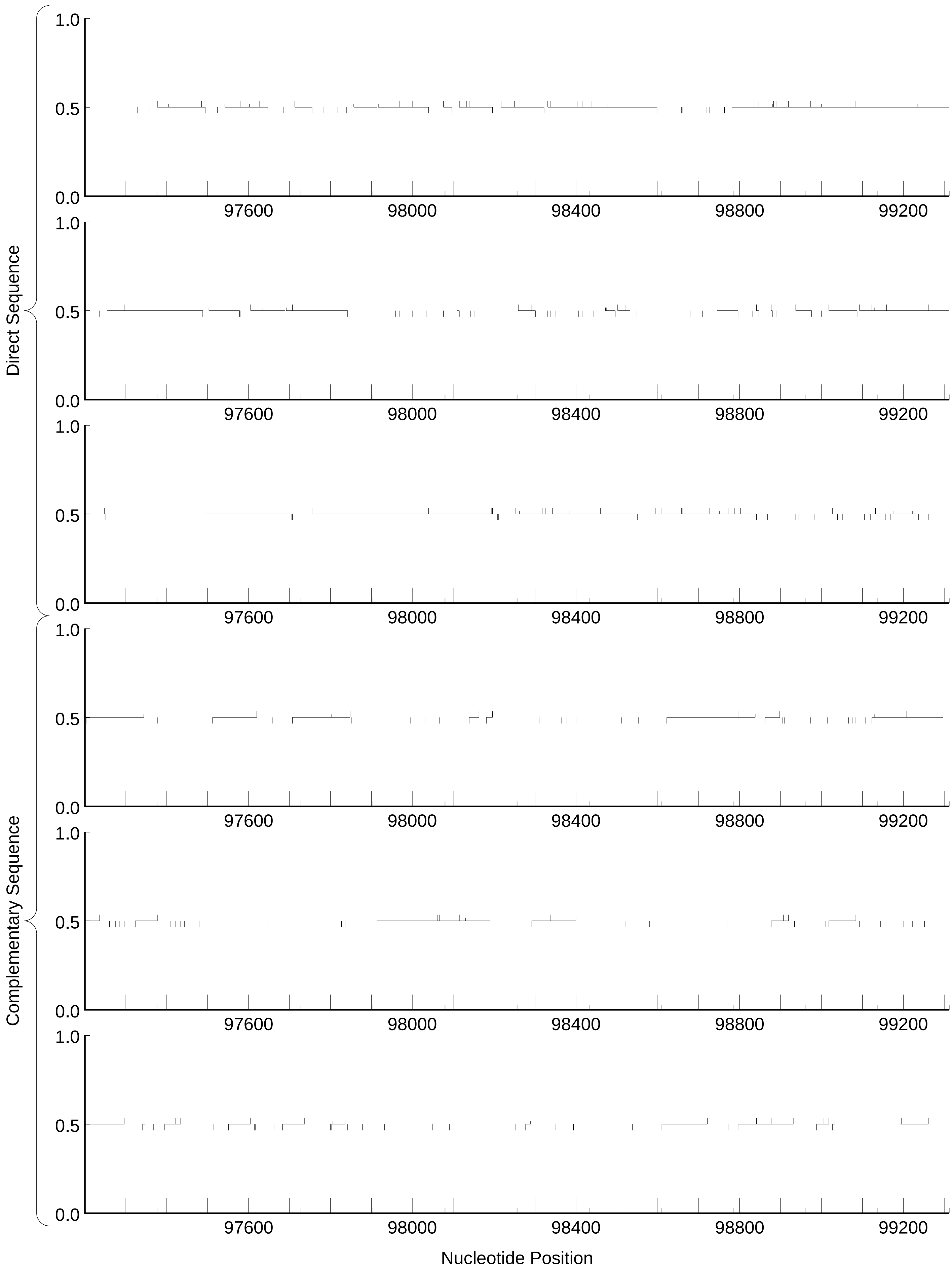
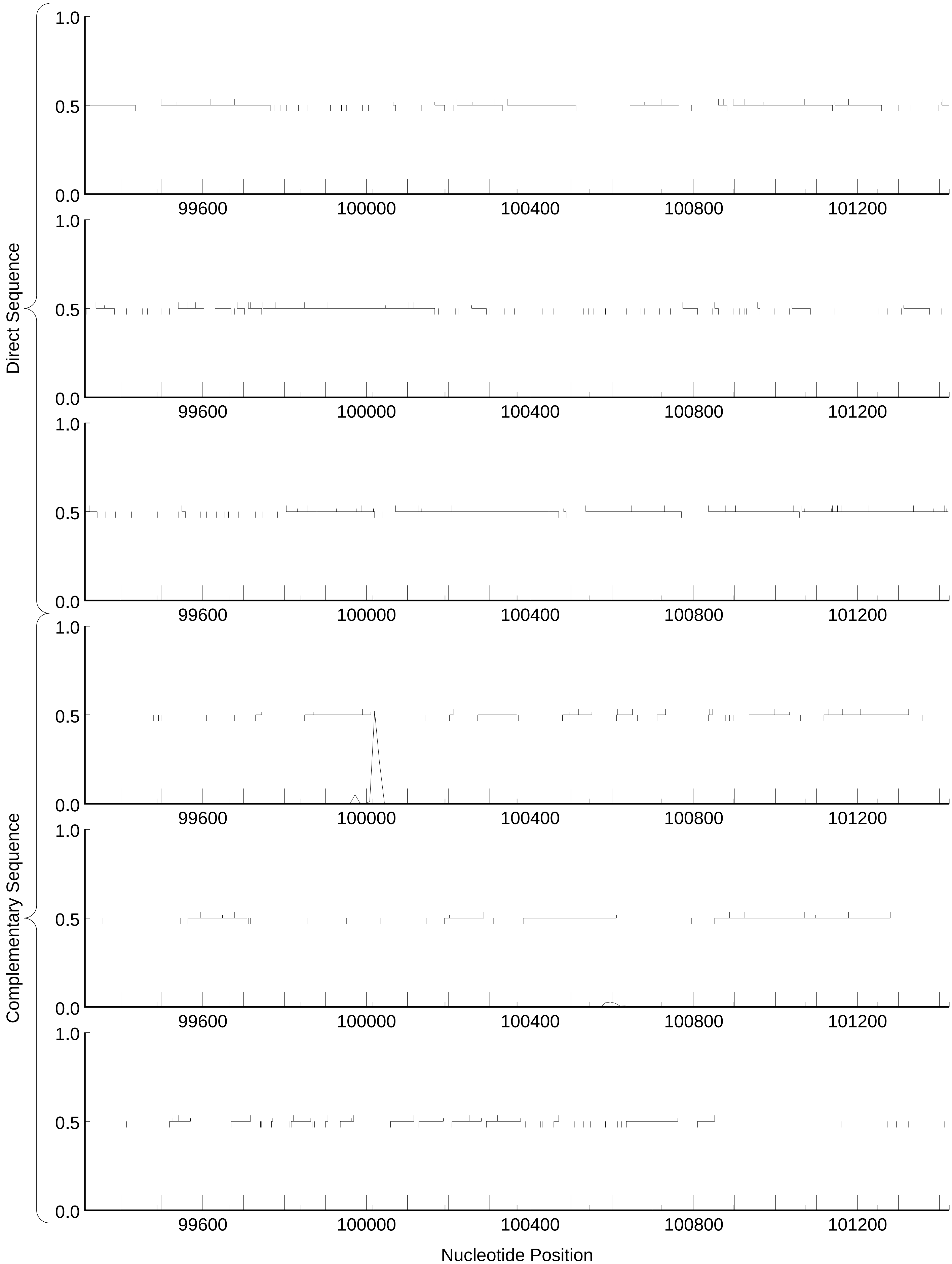
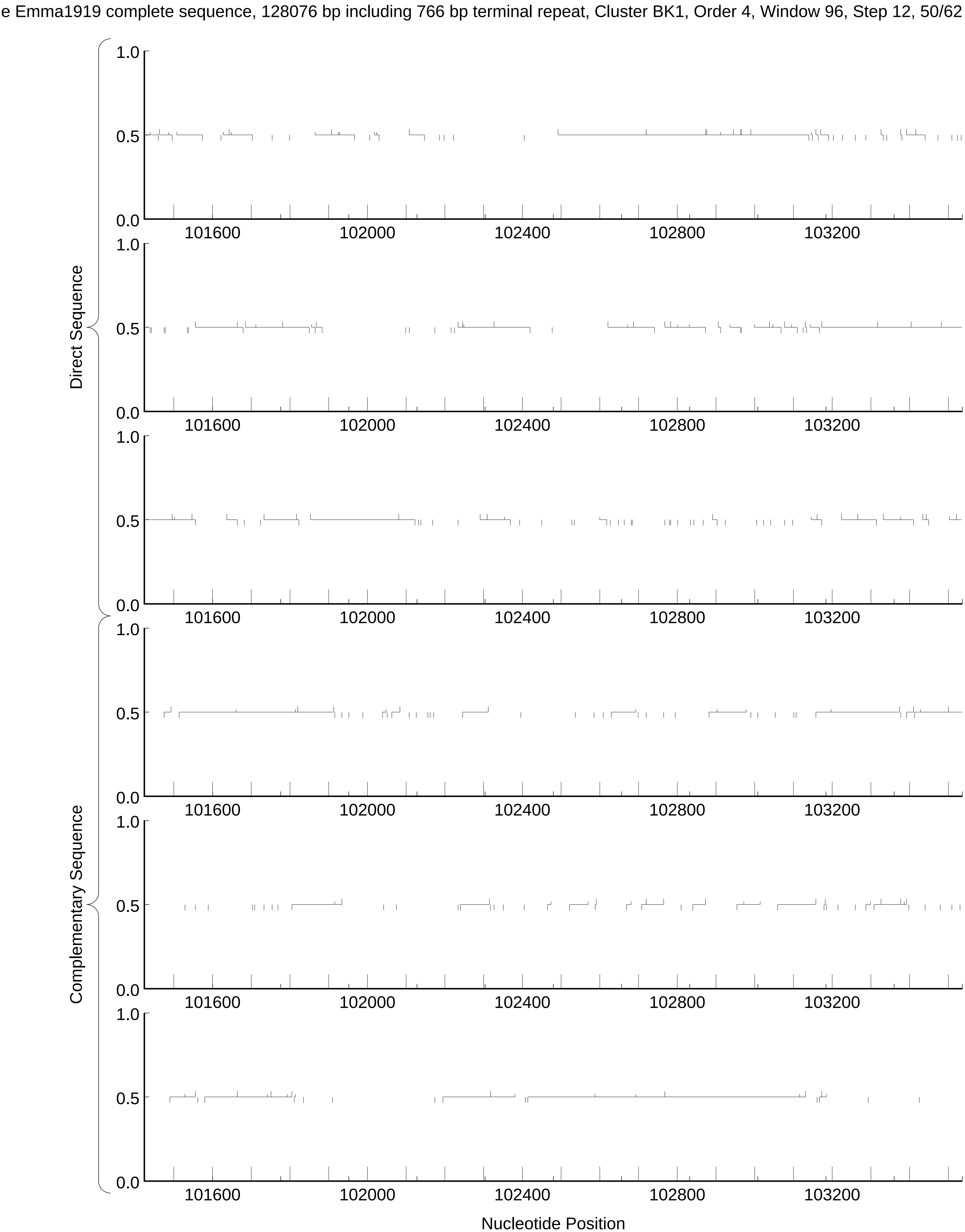


e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 49/62




e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 50/62
Direct Sequence
Complementary Sequence
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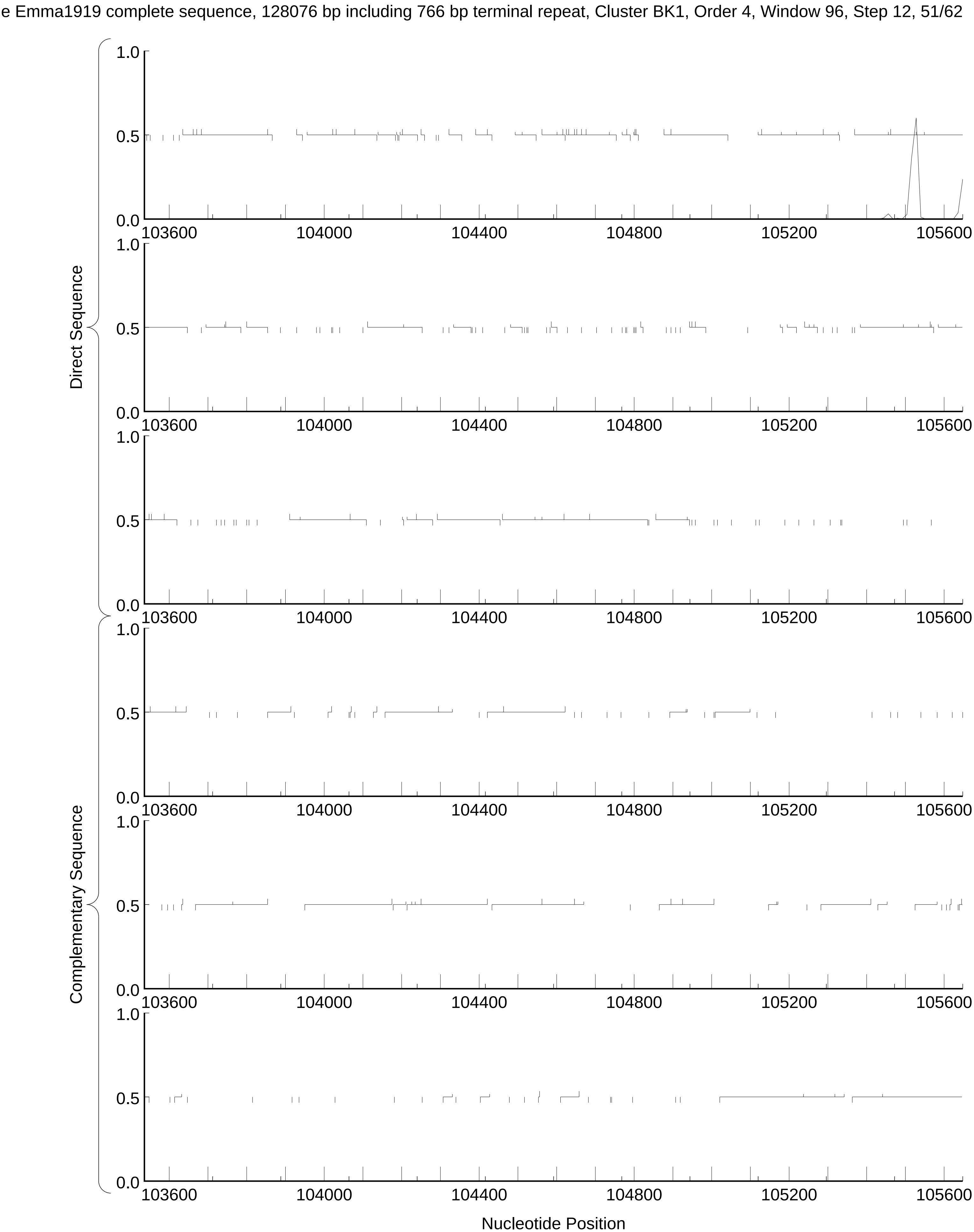
0.5
0.0
101600
102000
102400
102800
103200
Nucleotide Position


e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 51/62
Direct Sequence
Complementary Sequence
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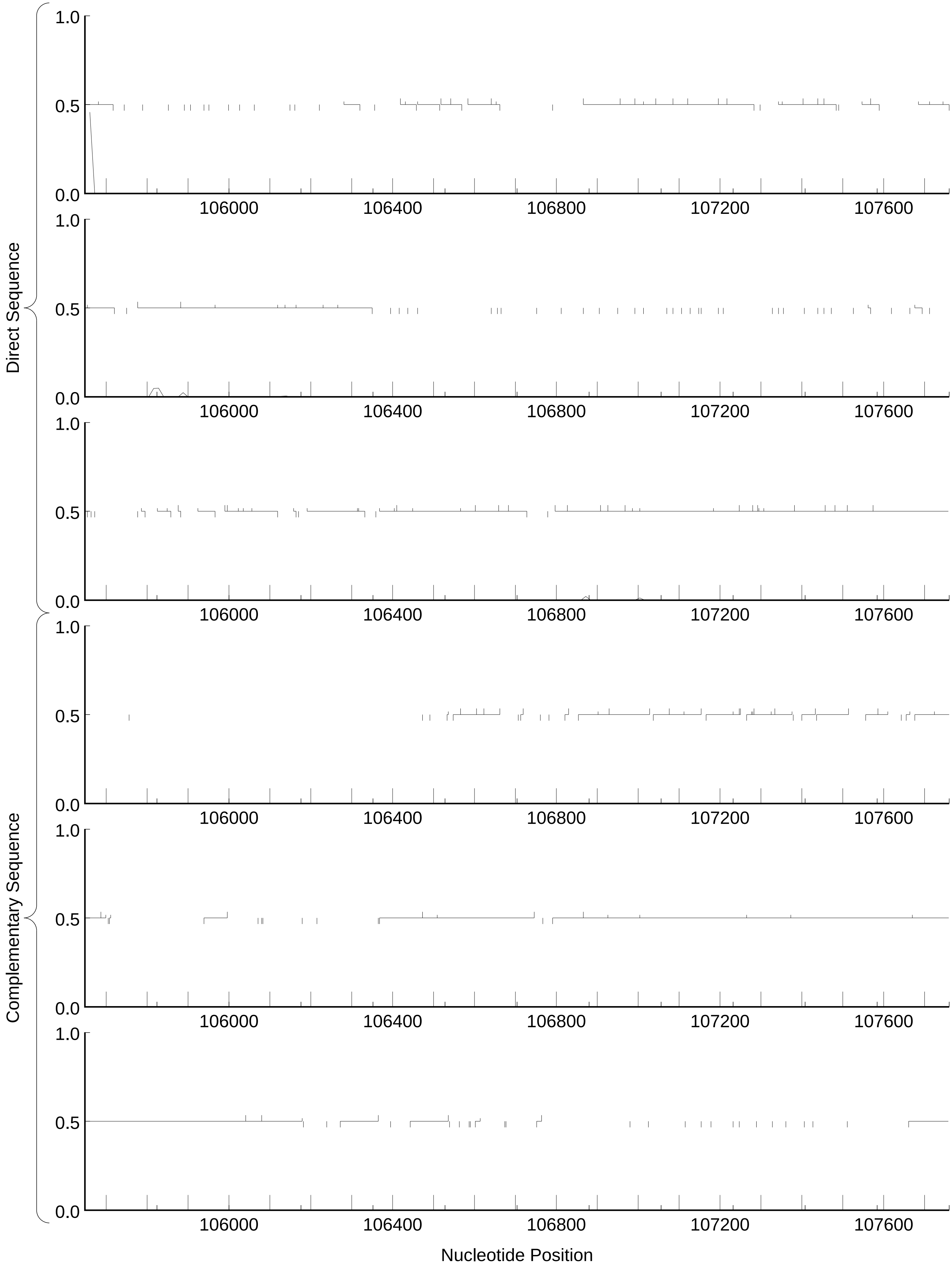
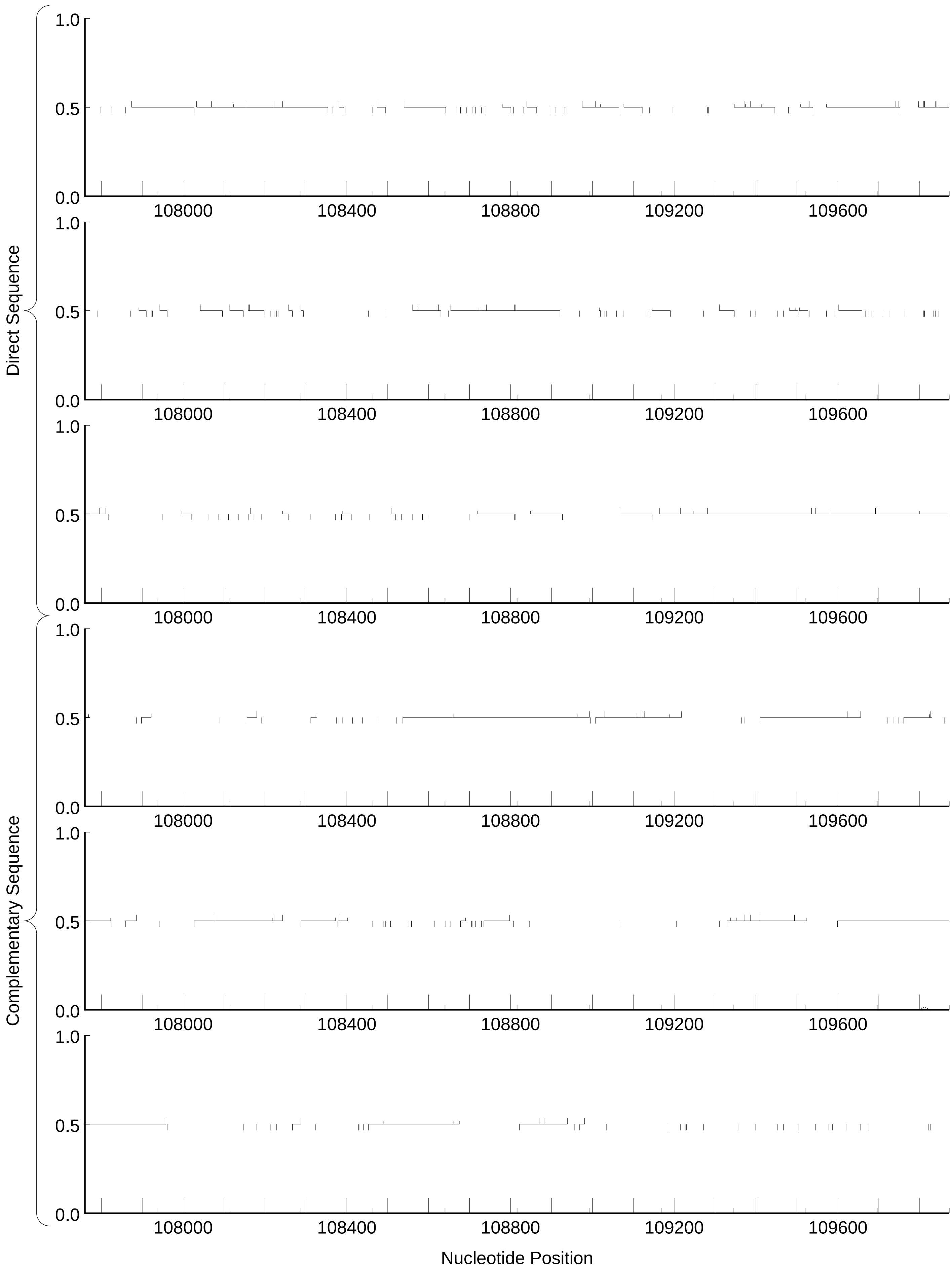
0.0
103600
104000
104400
104800
105200
105600
Nucleotide Position

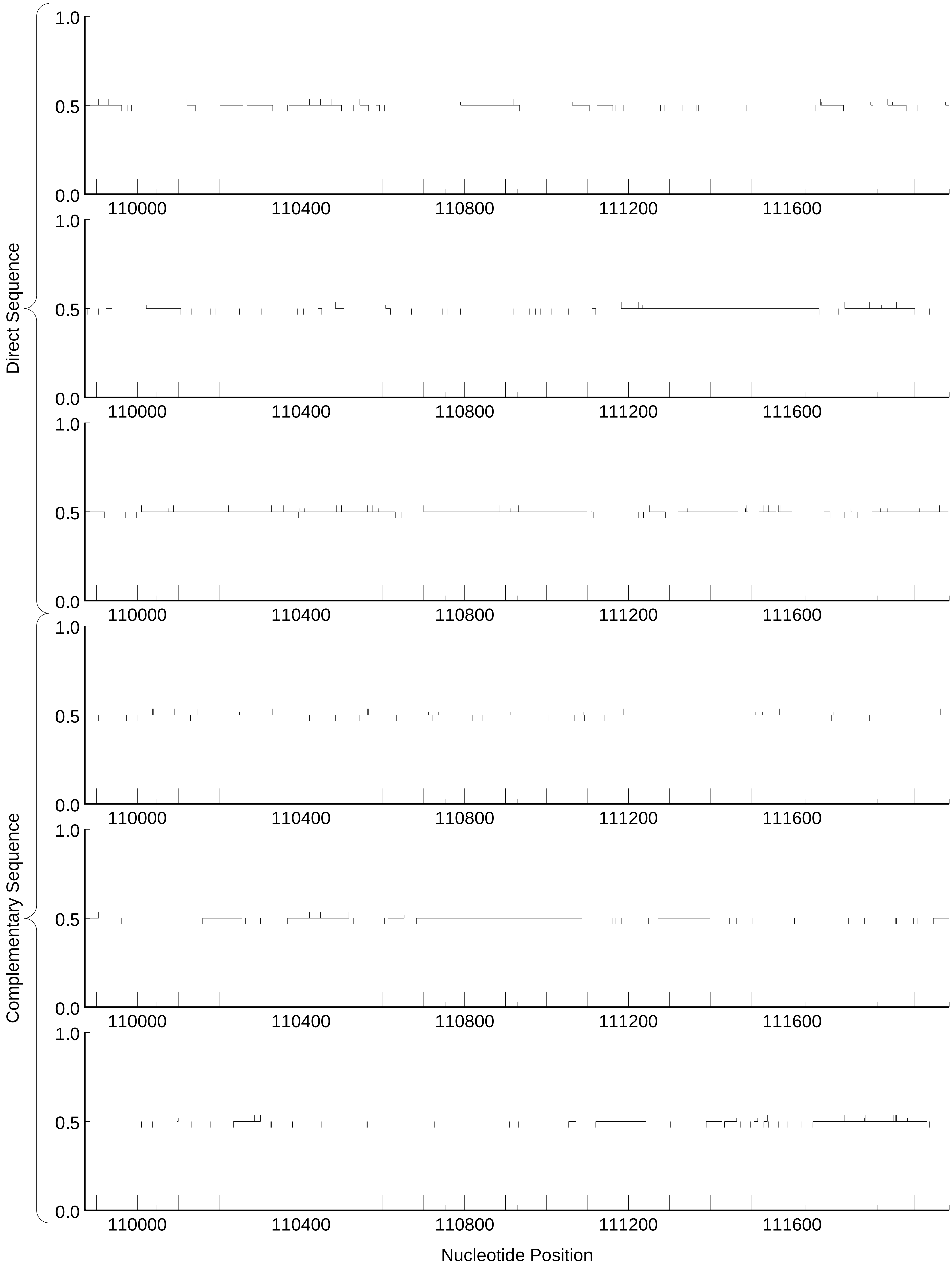
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 52/62



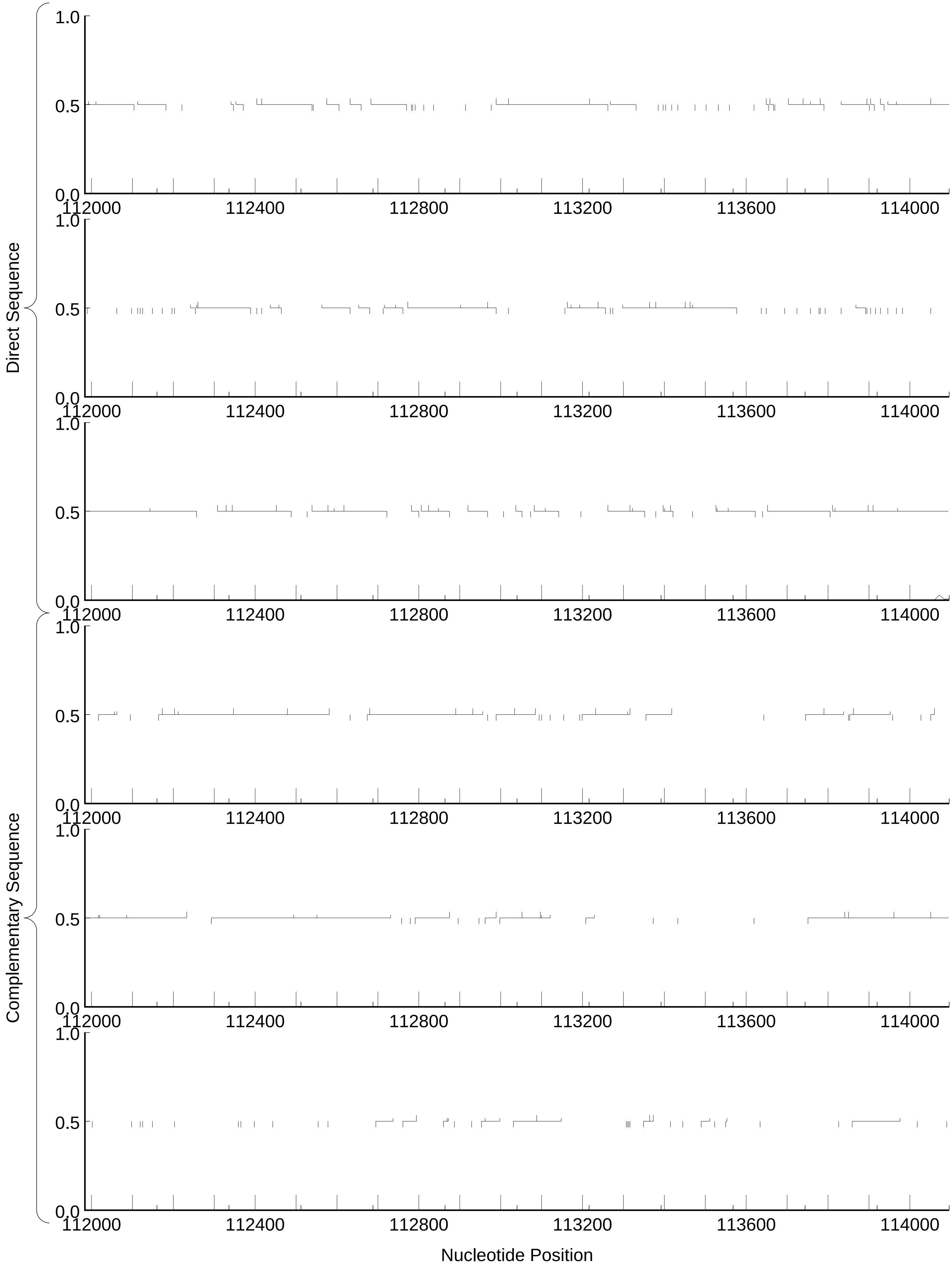
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 53/62



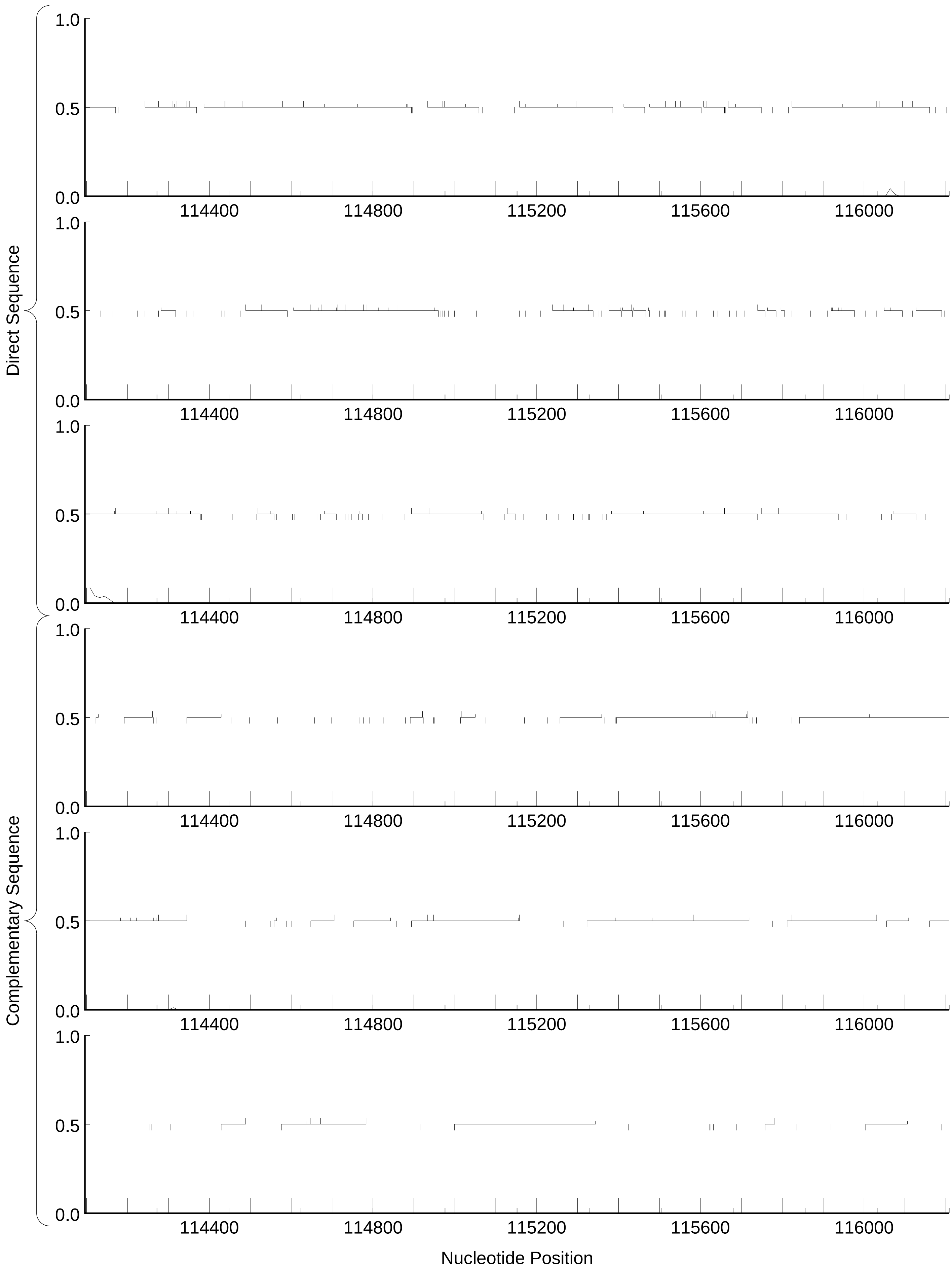
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 54/62



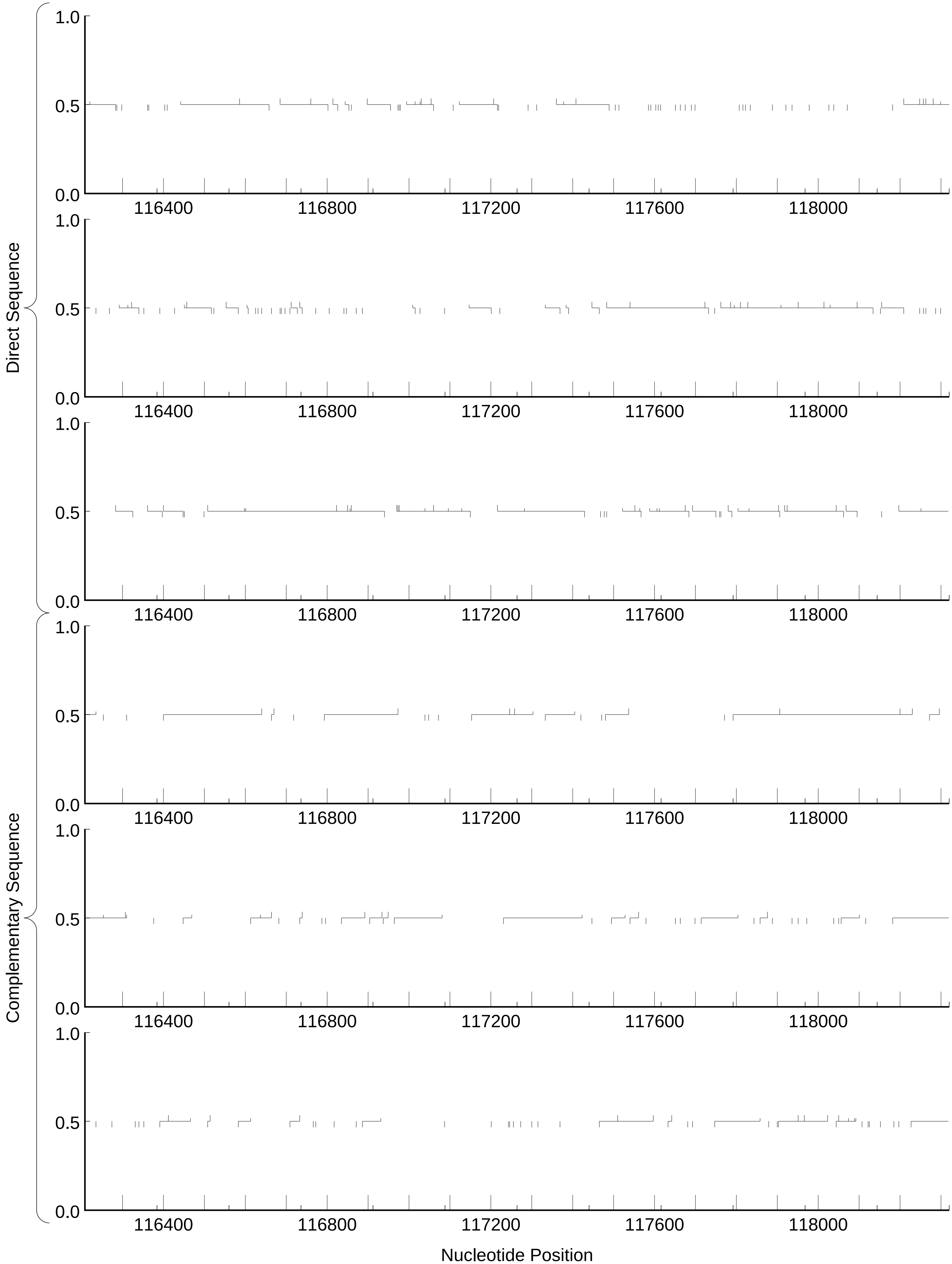
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 55/62



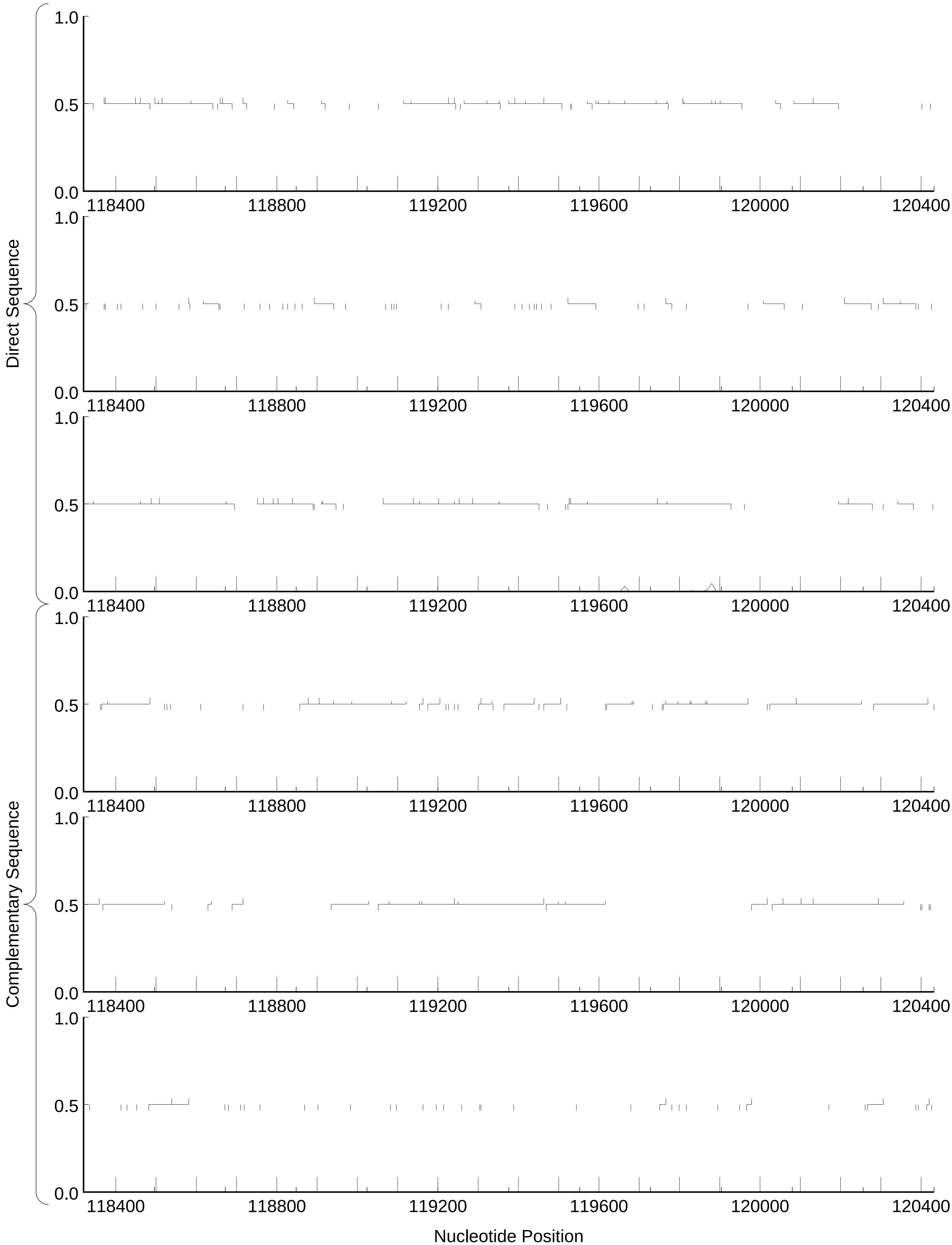
e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 56/62



e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 57/62



e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 58/62



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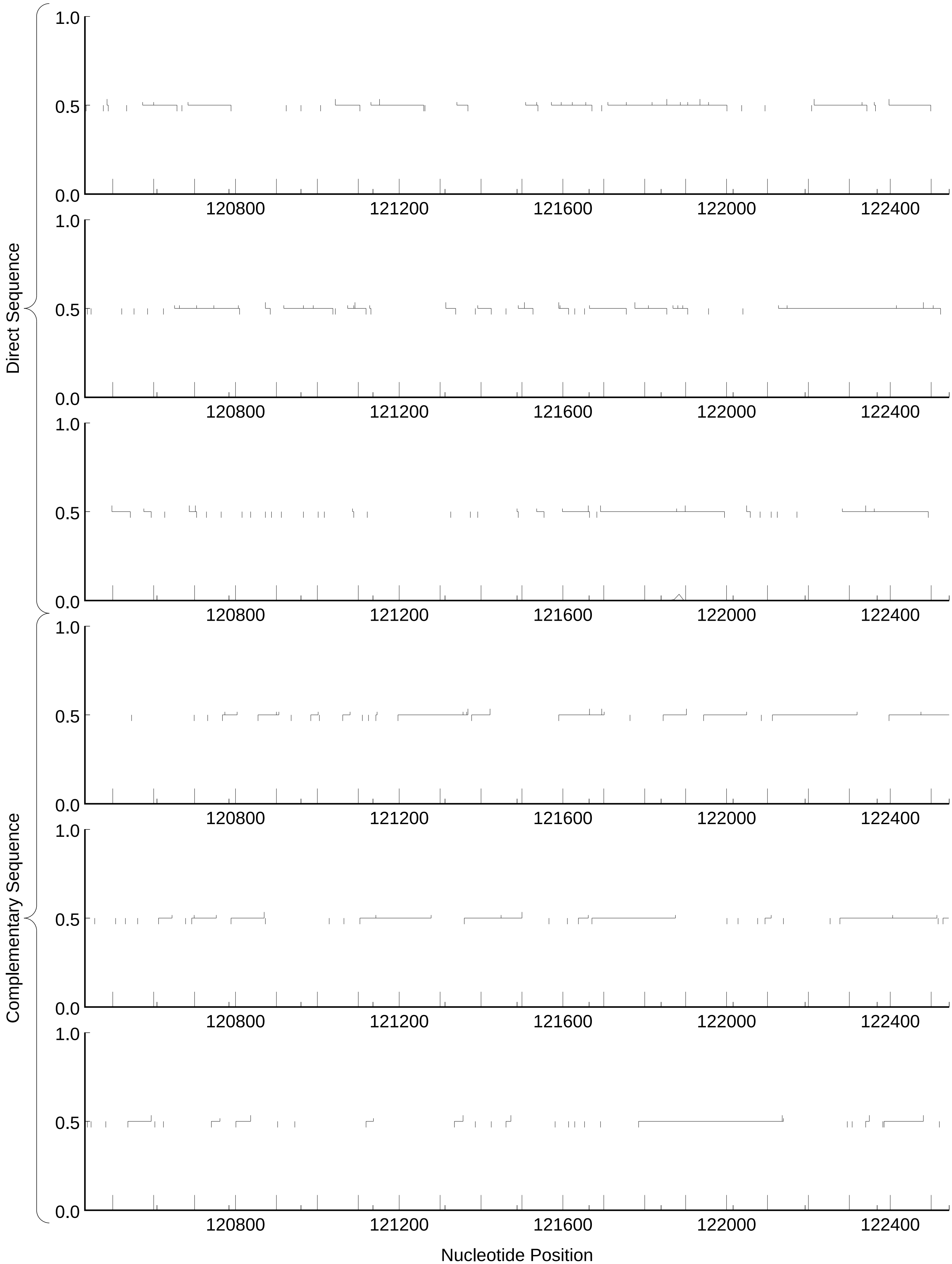

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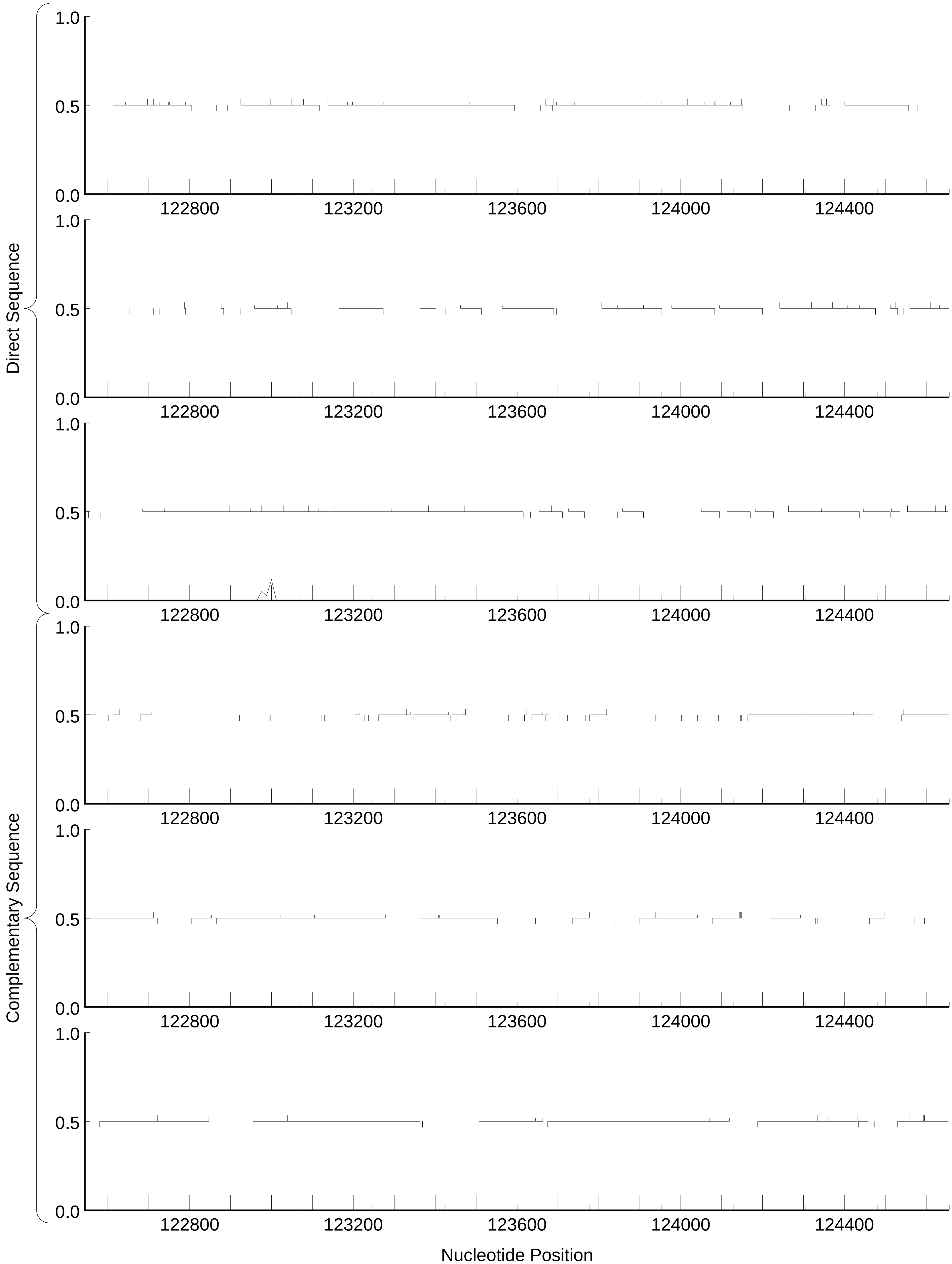
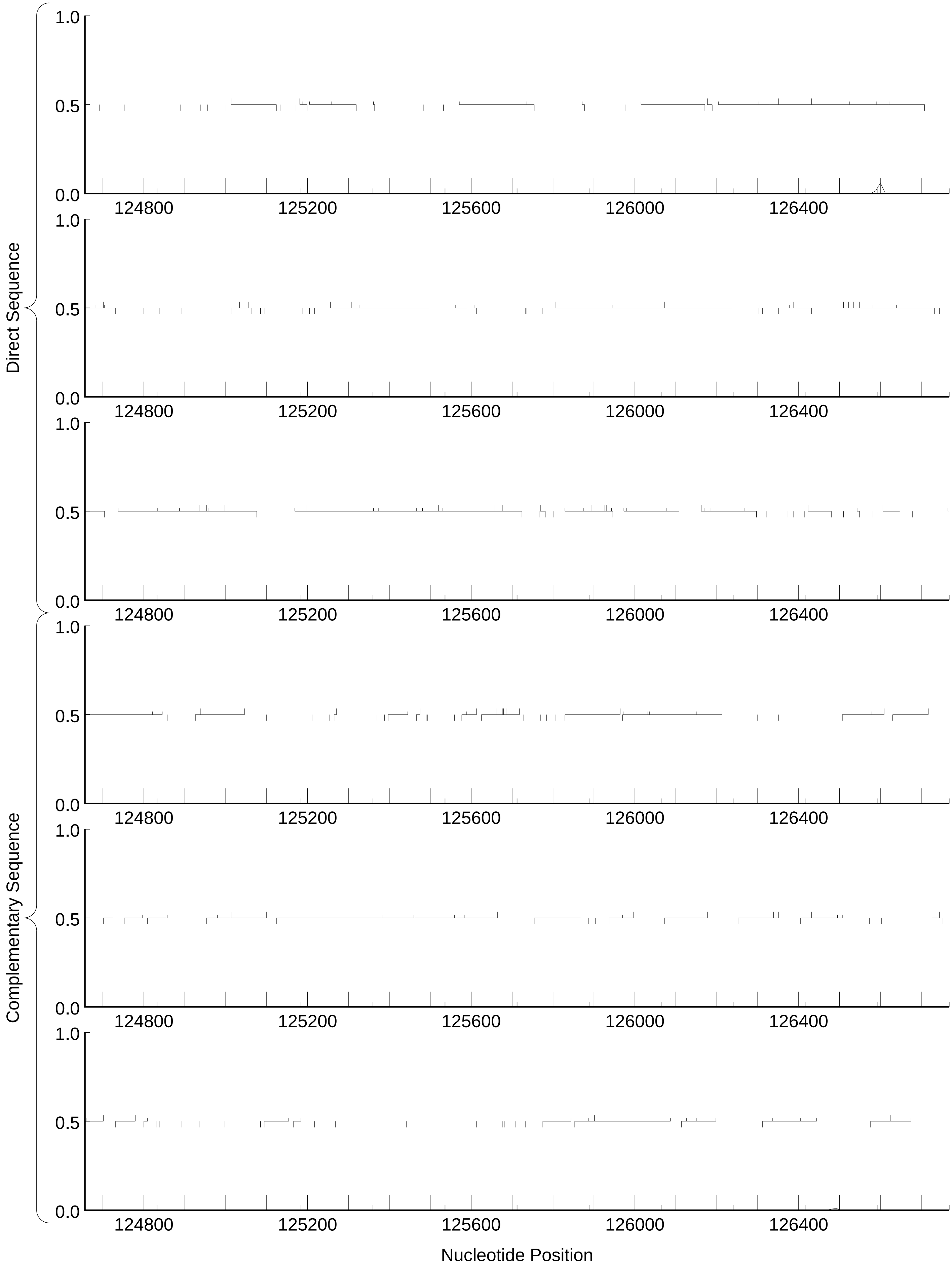


e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 61/62



e Emma1919 complete sequence, 128076 bp including 766 bp terminal repeat, Cluster BK1, Order 4, Window 96, Step 12, 62/62