GeneMark

Version 2.5p (09.08.06) *Copyright 1993 - M. Borodovsky, J. McIninch*

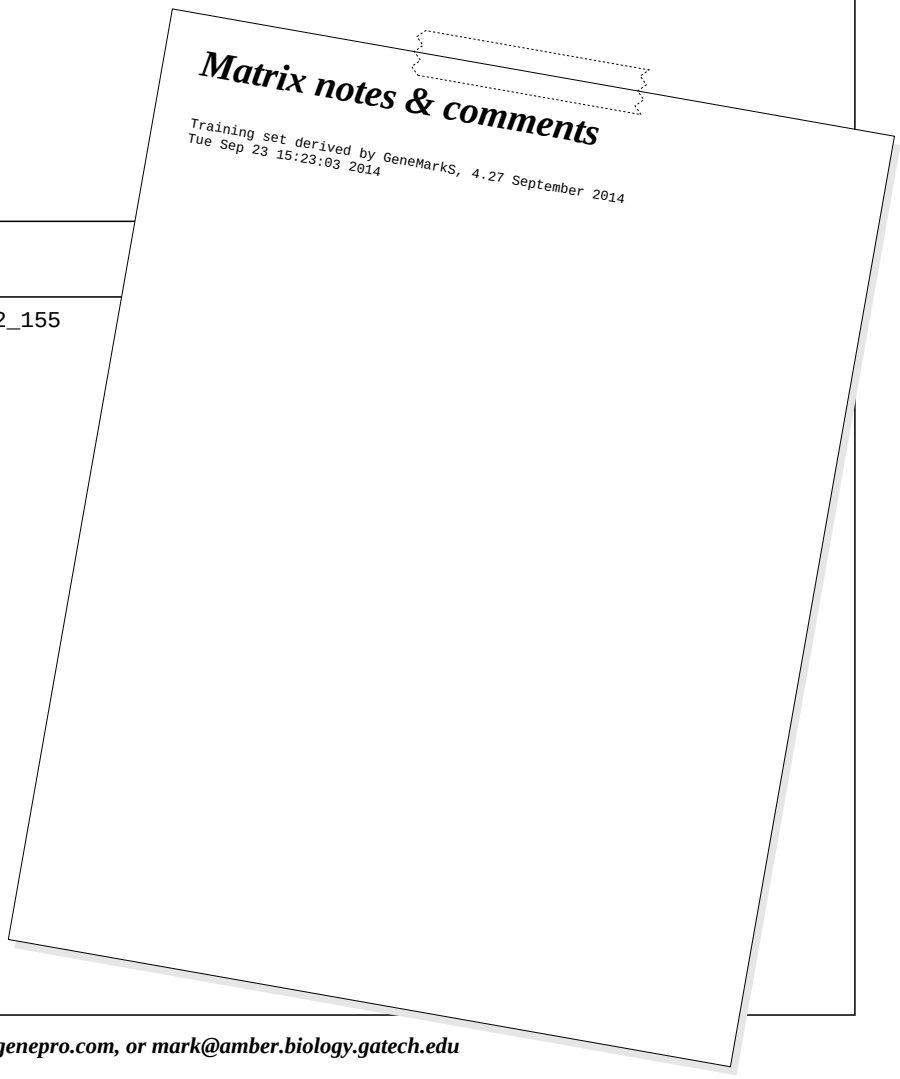
PROGRAM INFORMATION

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Sequence         :  Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9
Analysis Date    :  3/28/24 at 6:10:45
Pages            :  35
Sequence Length  :  69897 bp
GC Content       :   70.50%

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,
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MATRIX INFORMATION

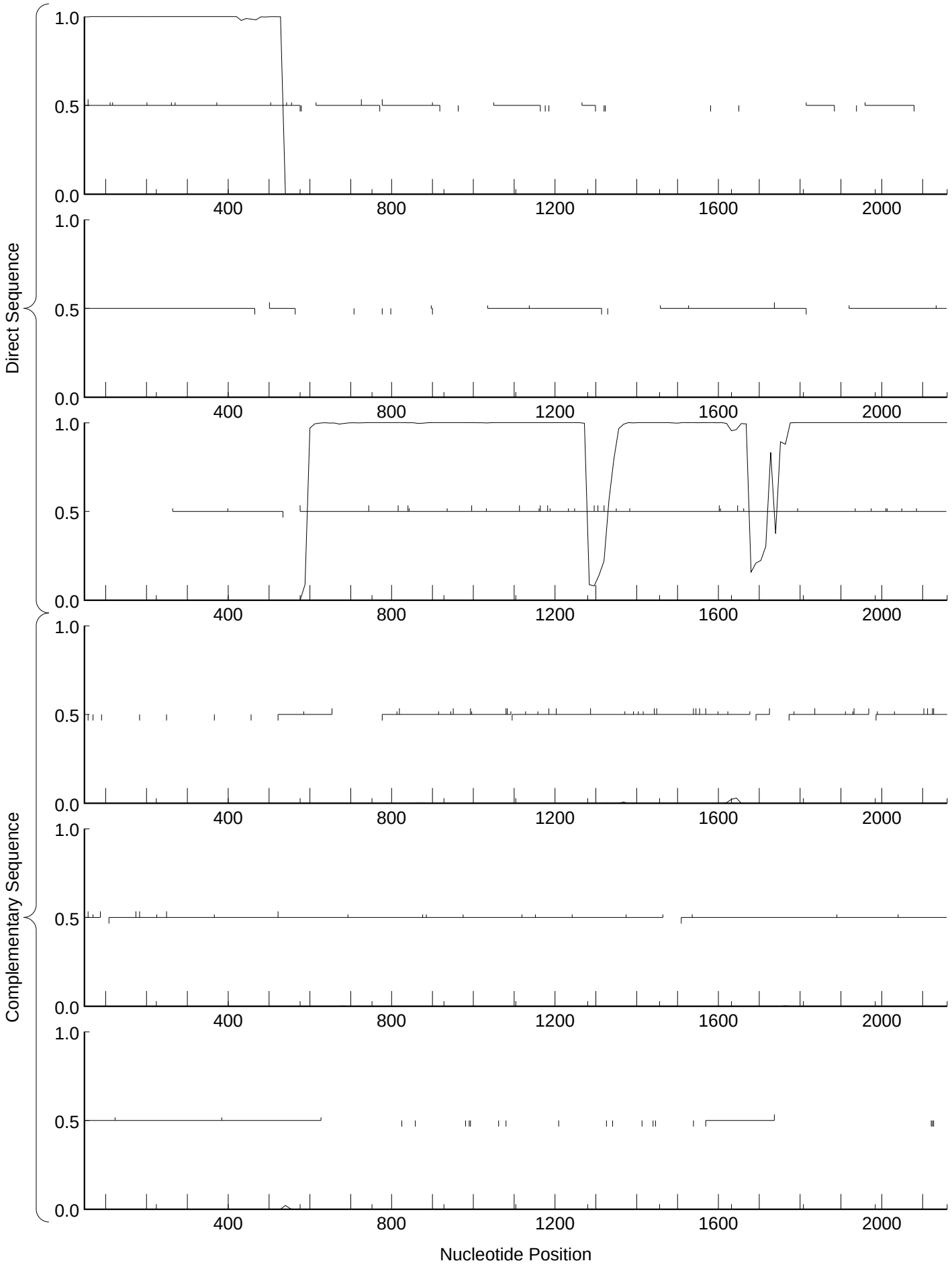
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Matrix     :  Mycobacterium_smegmatis_MC2_155
Author     :  -

Order      :  4
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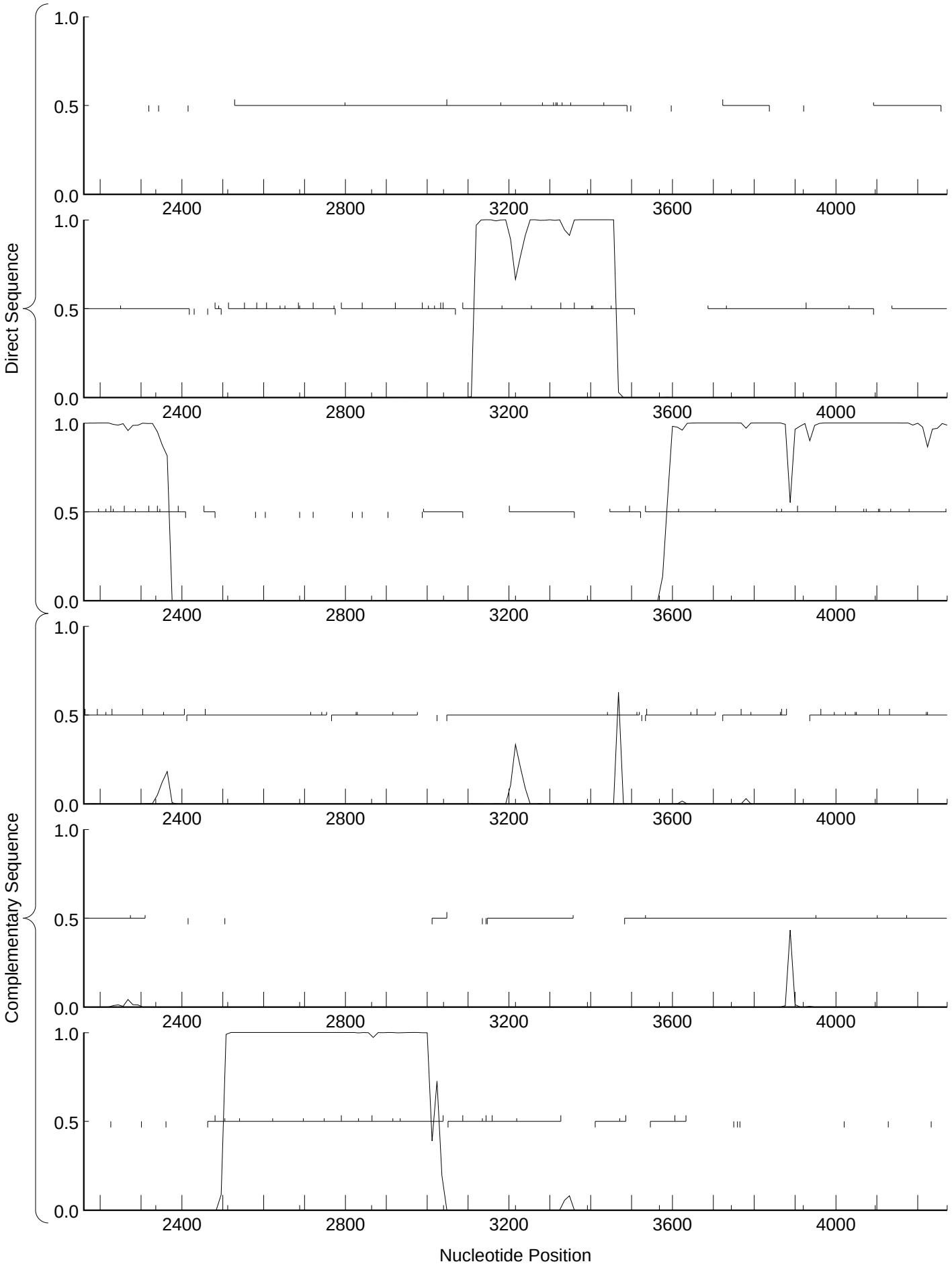

```
  Send questions / comments to:
      Dr. M. Borodovsky
      Georgia Institute of Technology
      School of Biology
      Atlanta, GA  30332-0230
```


For help or information, send electronic mail to: custserv@genepro.com, or mark@amber.biology.gatech.edu

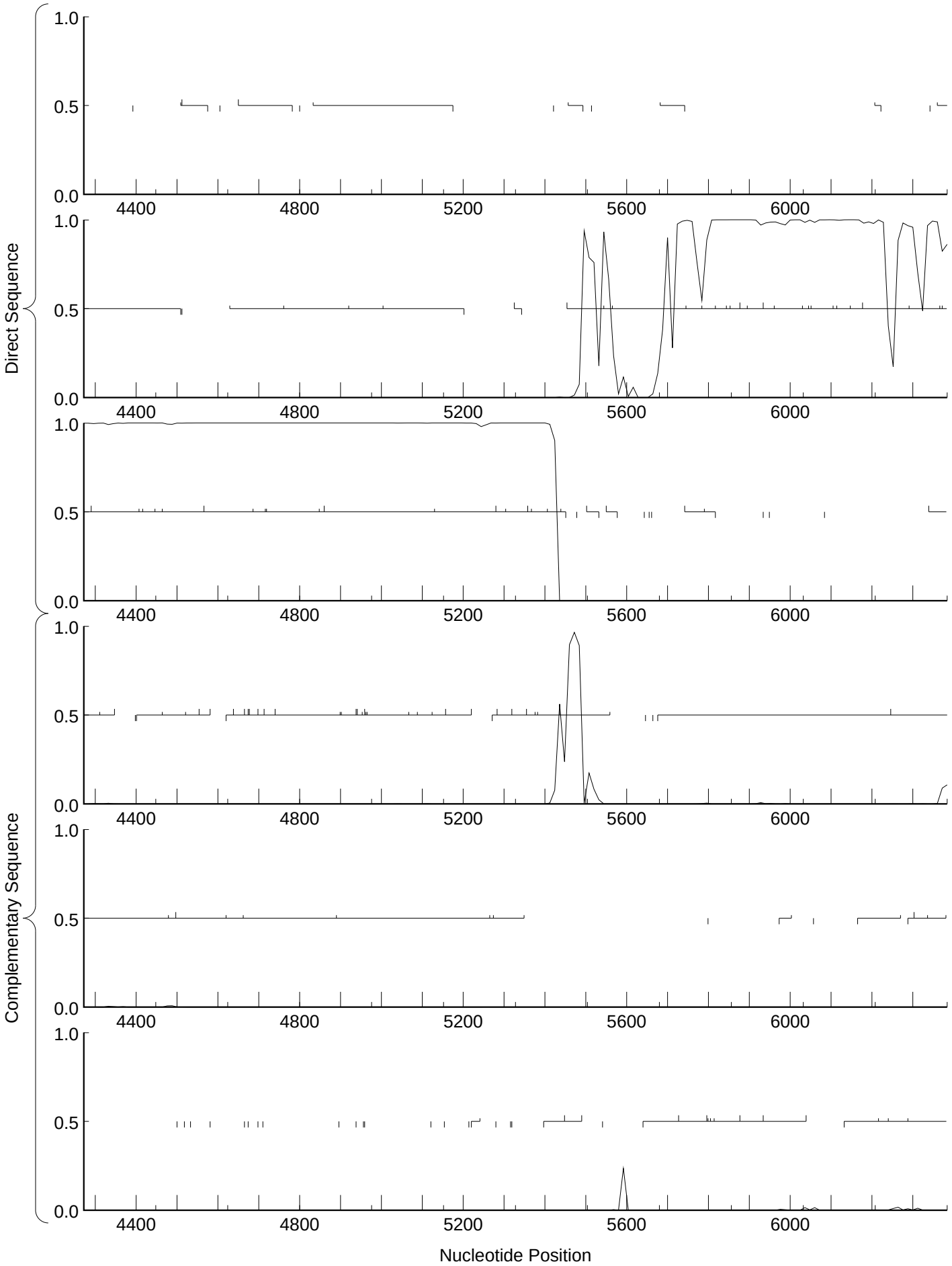
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 2/35



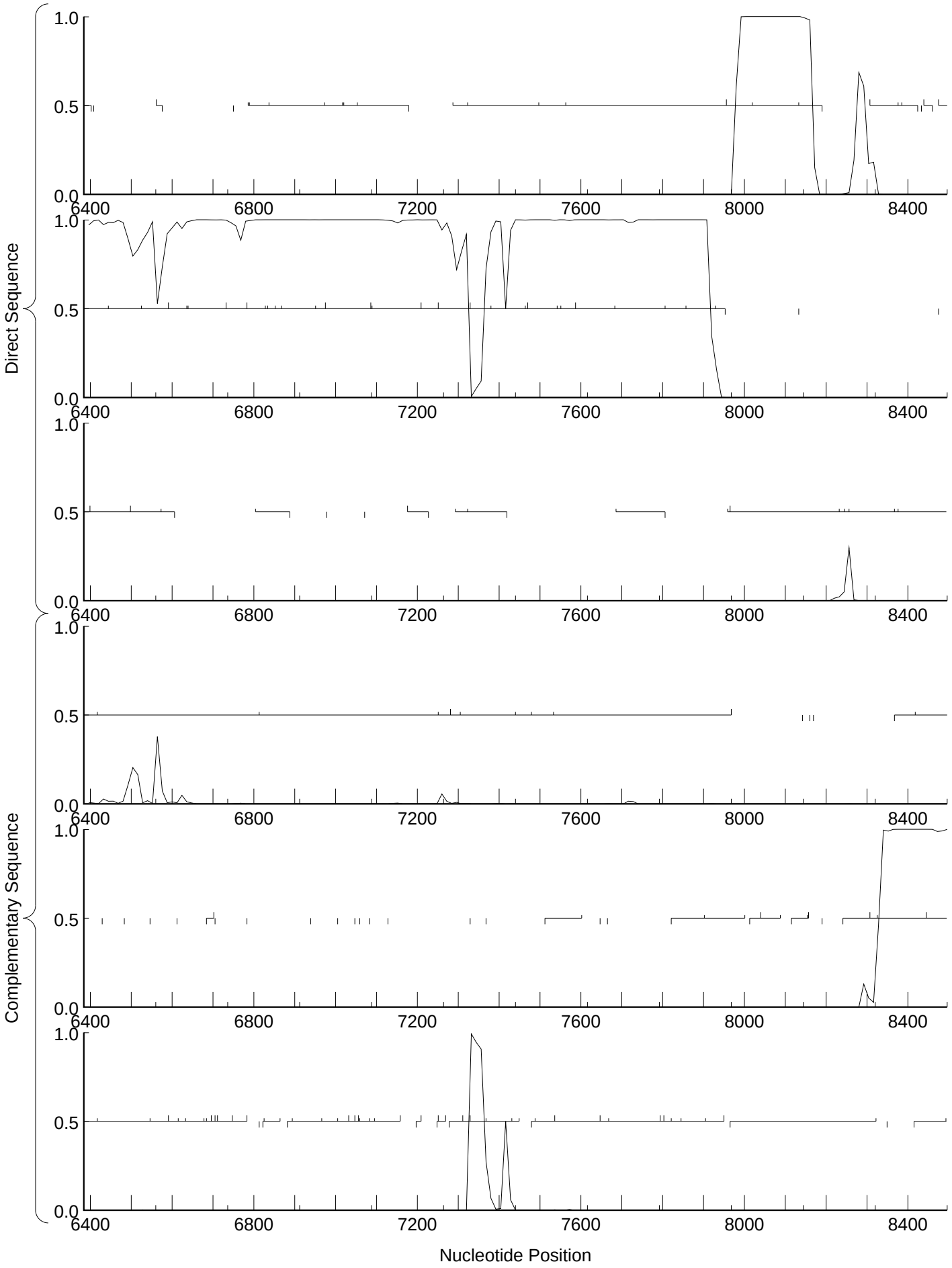
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 3/35



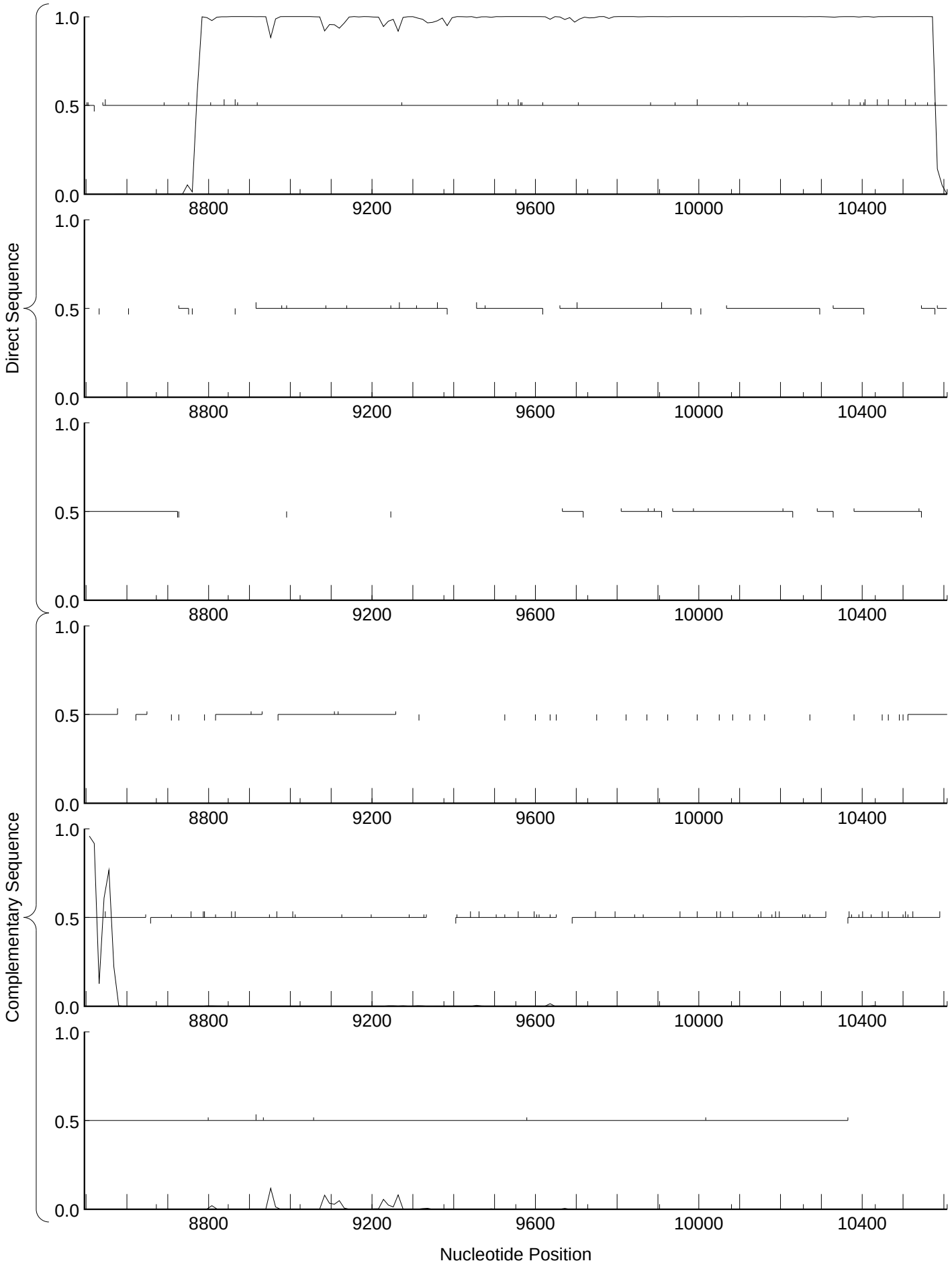
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 4/35



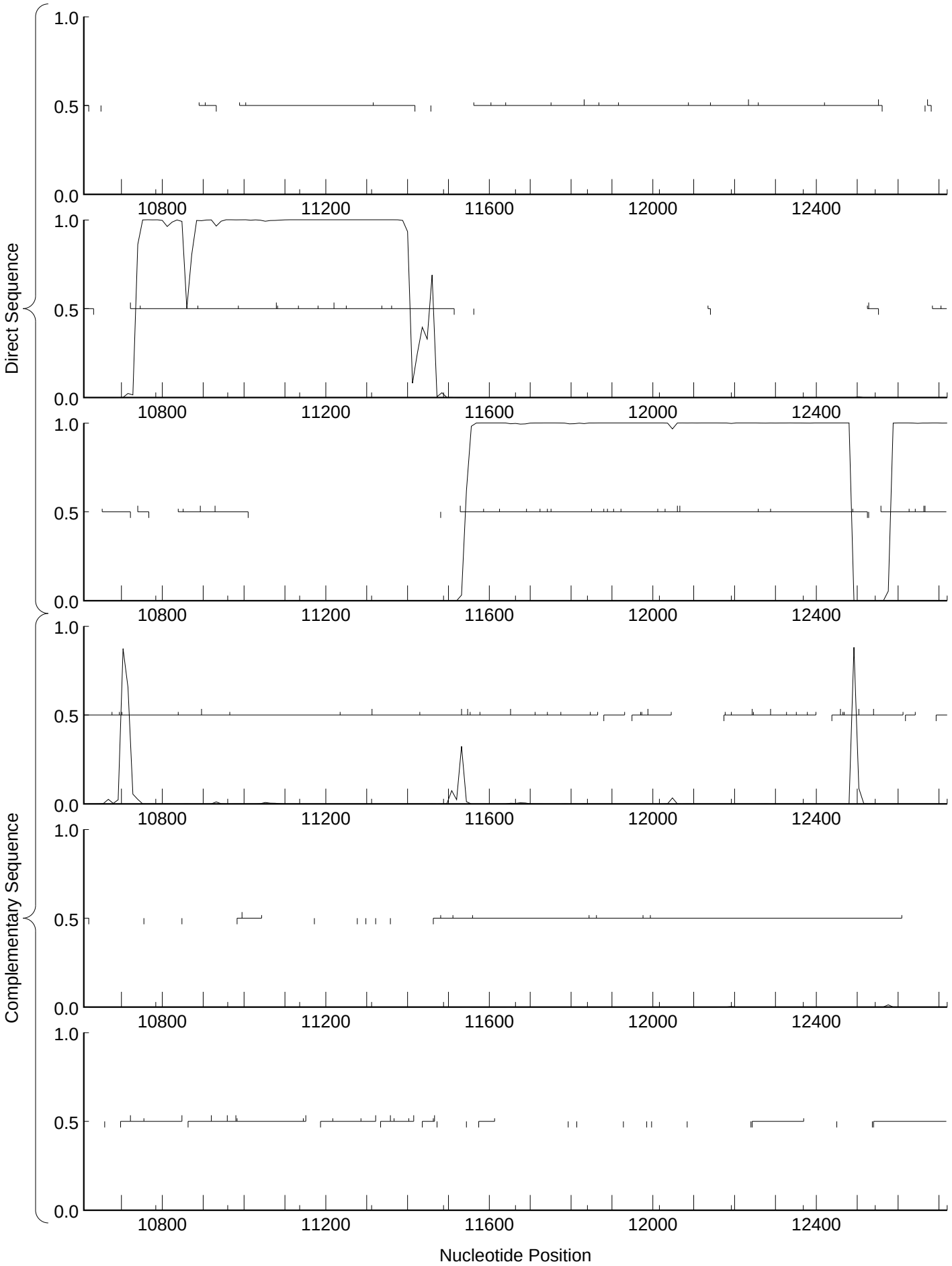
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 5/35



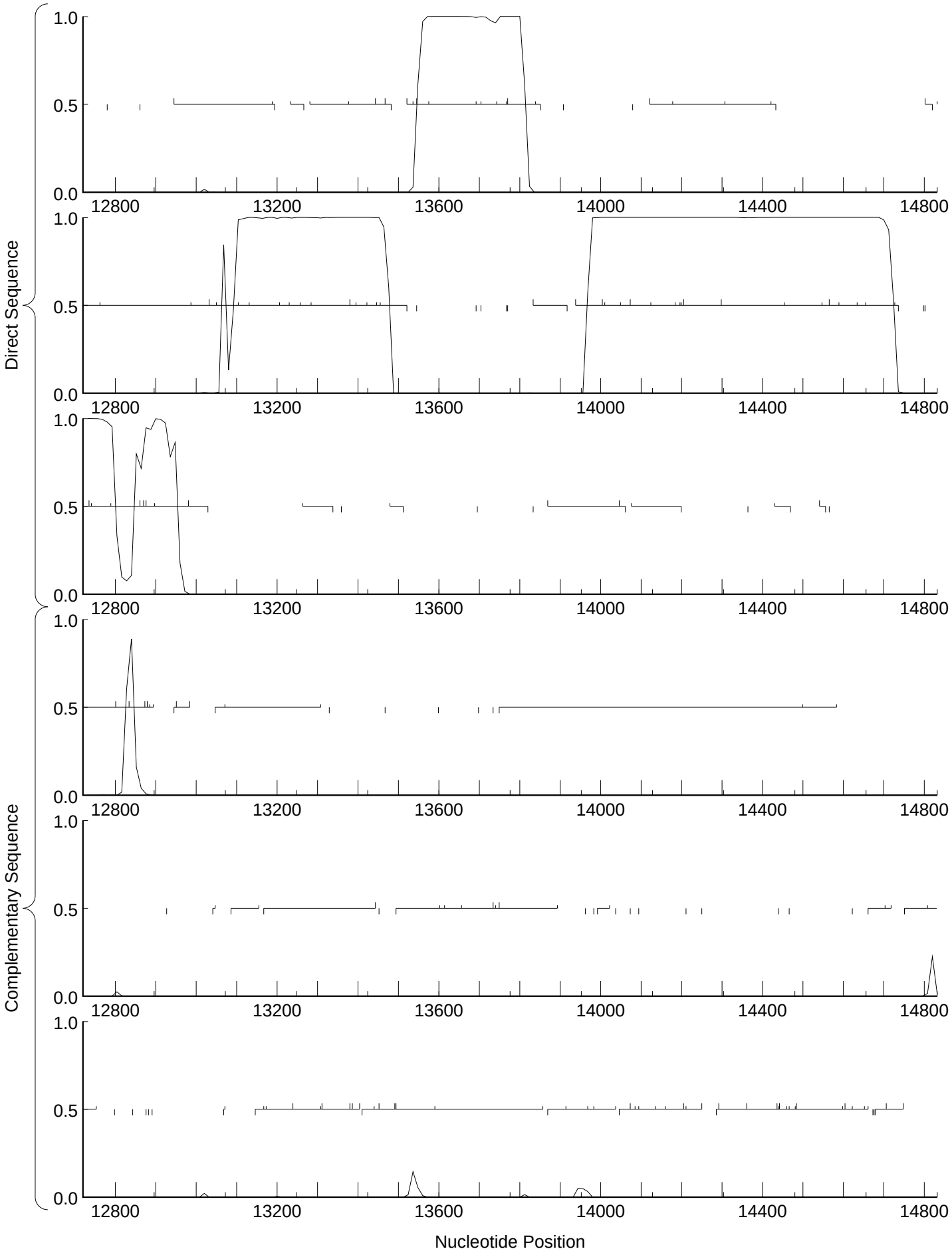
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 6/35



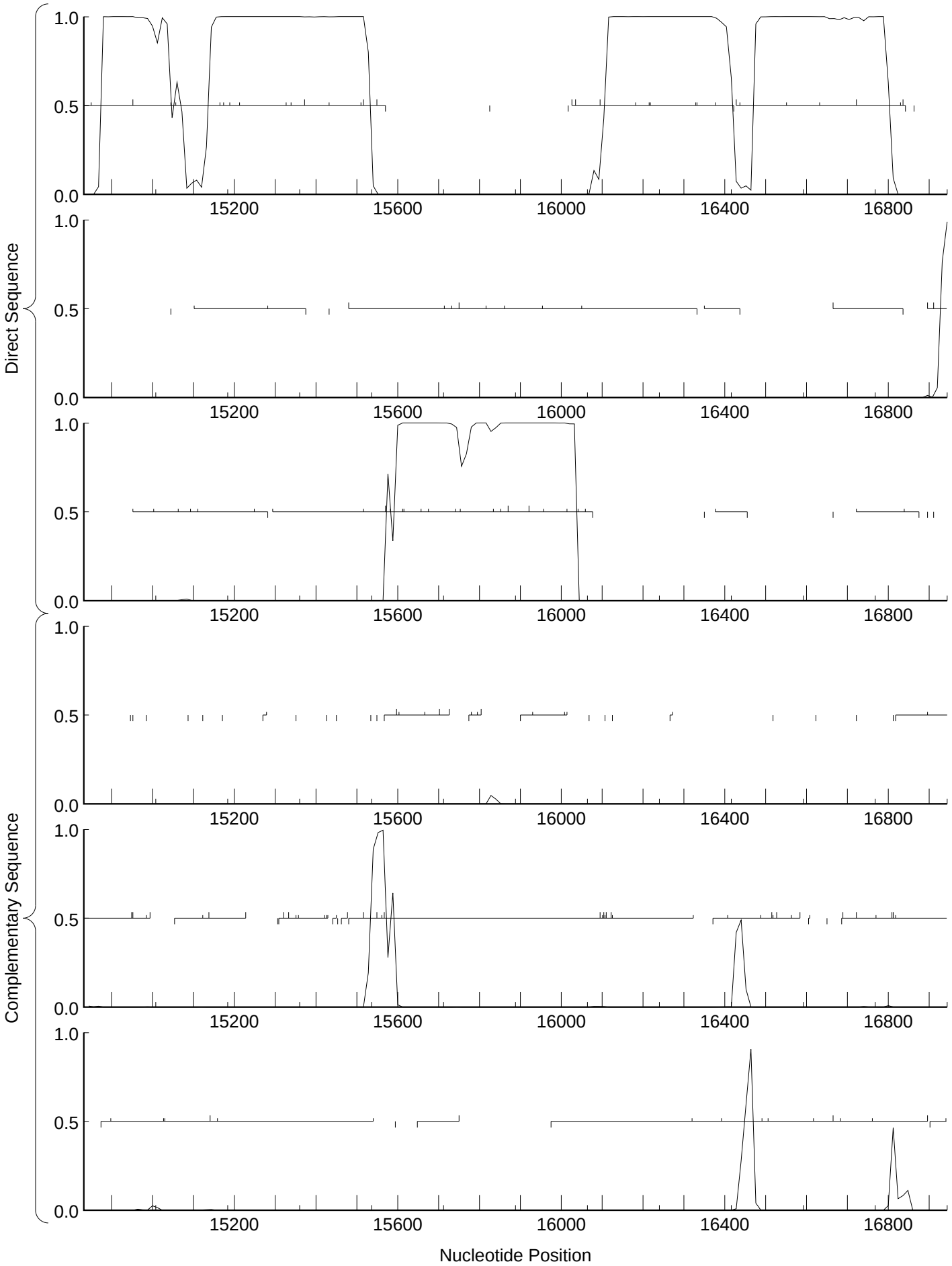
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 7/35



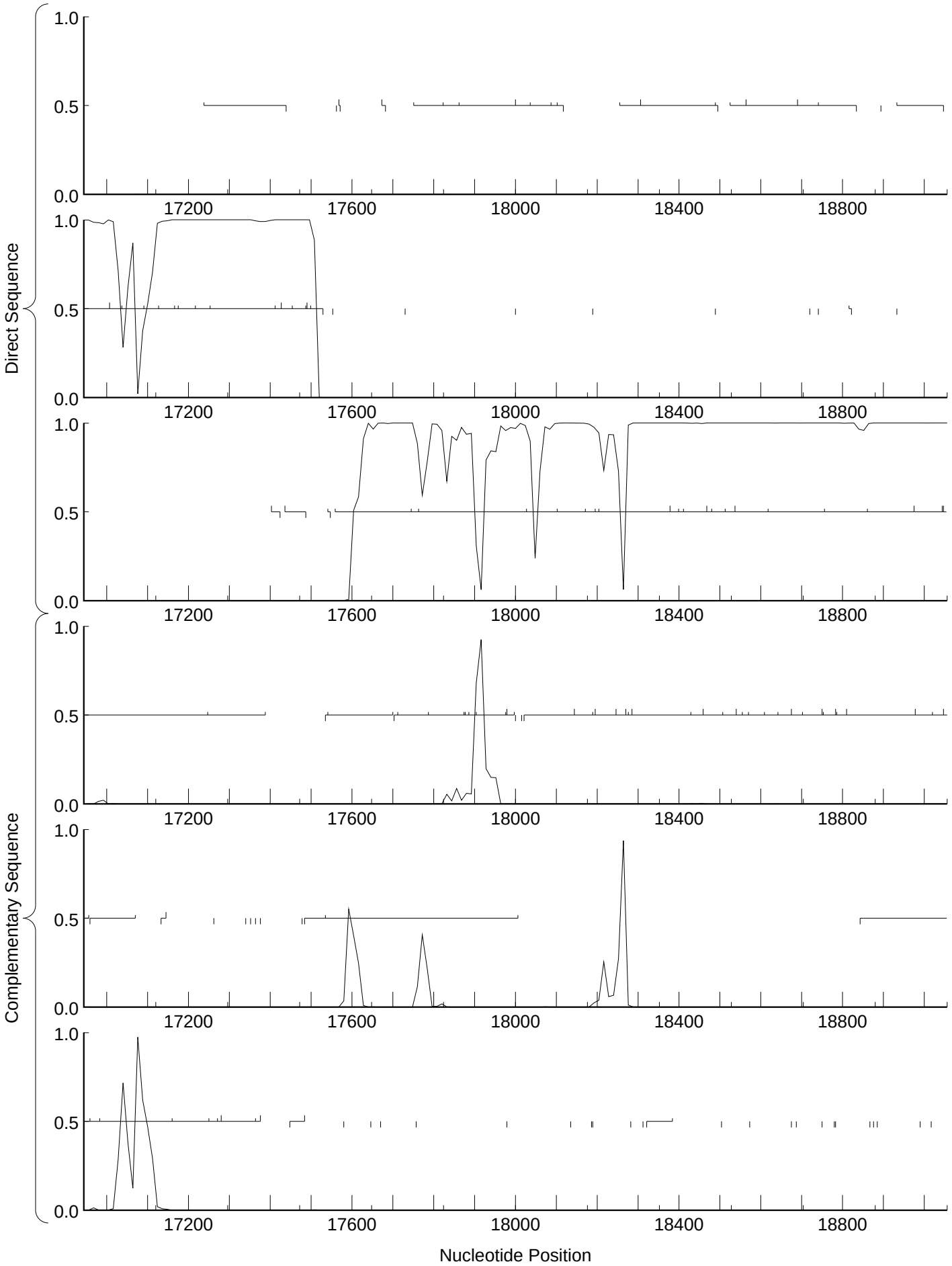
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 8/35

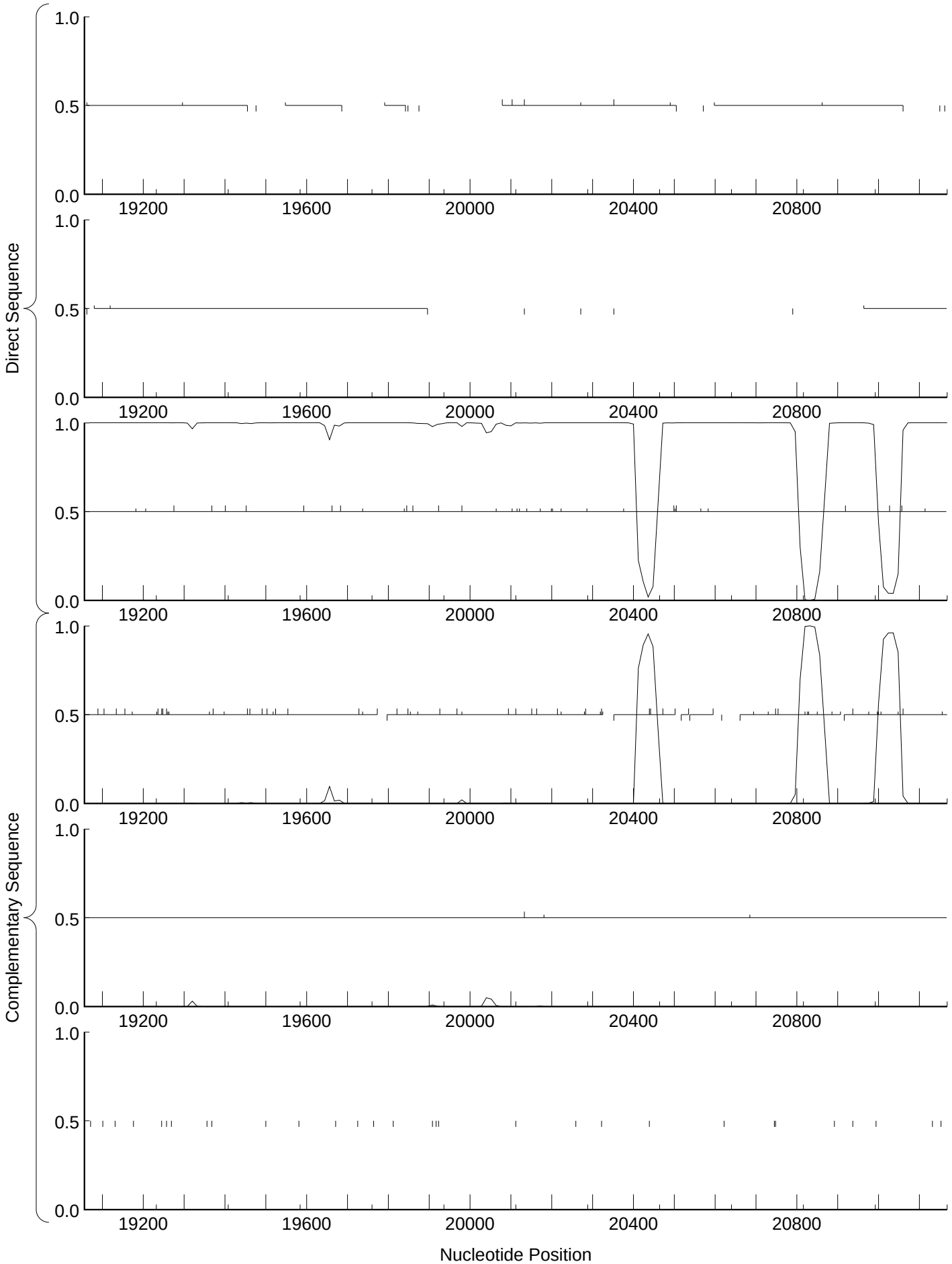


Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 9/35

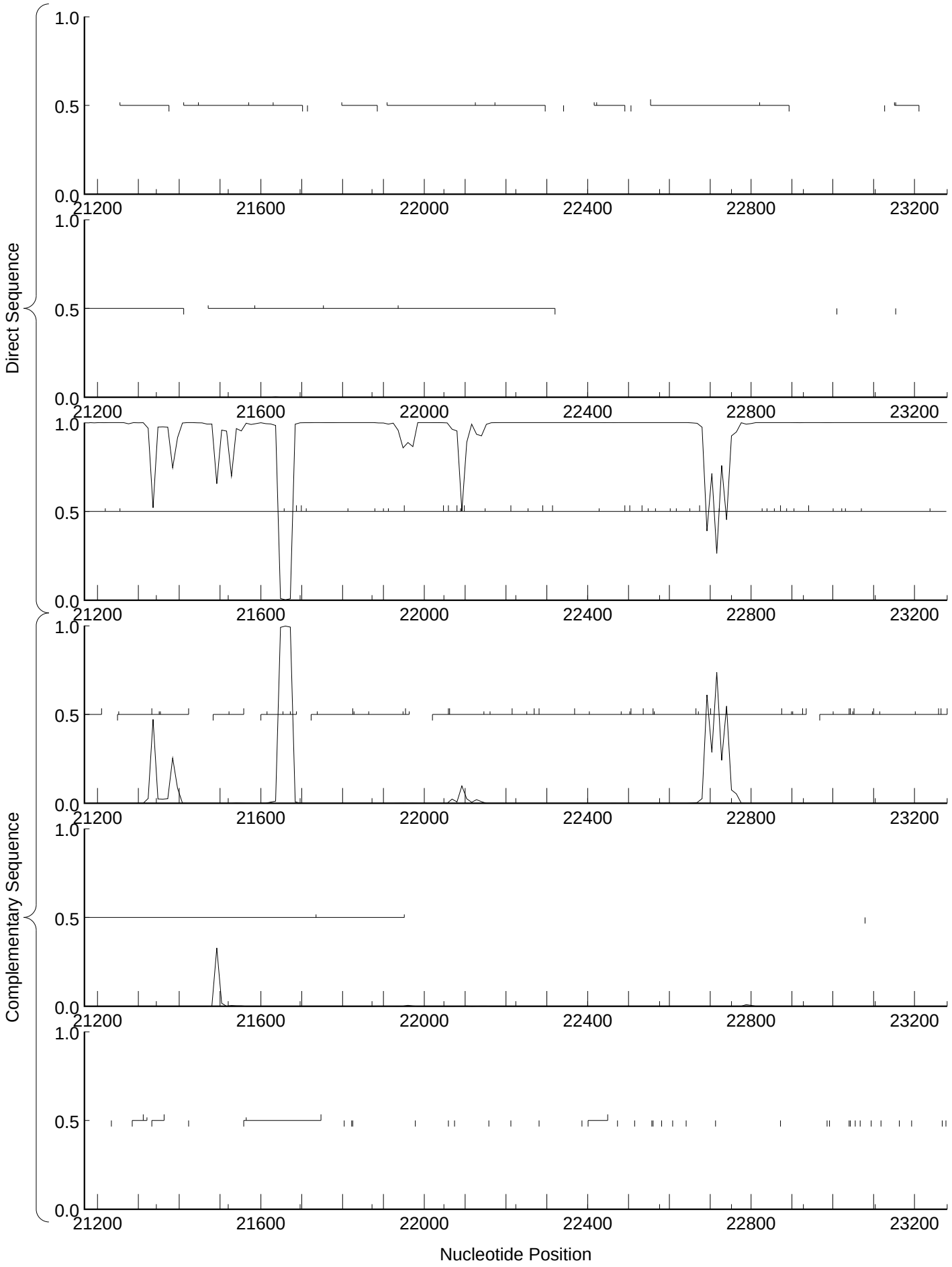


Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 10/35

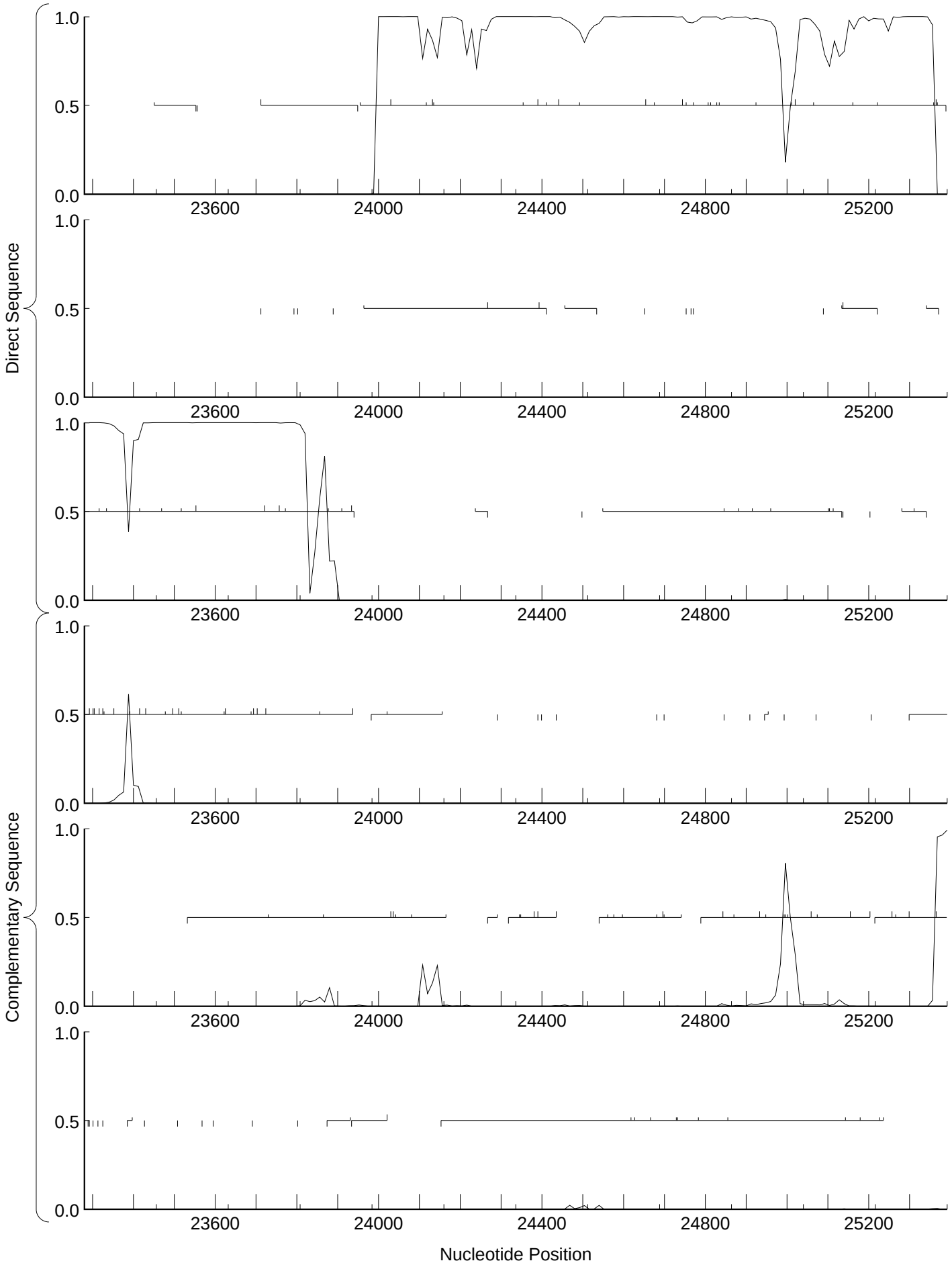



Direct Sequence
Complementary Sequence
1.0
0.5
0.0
19200
19600
20000
20400
20800
Nucleotide Position

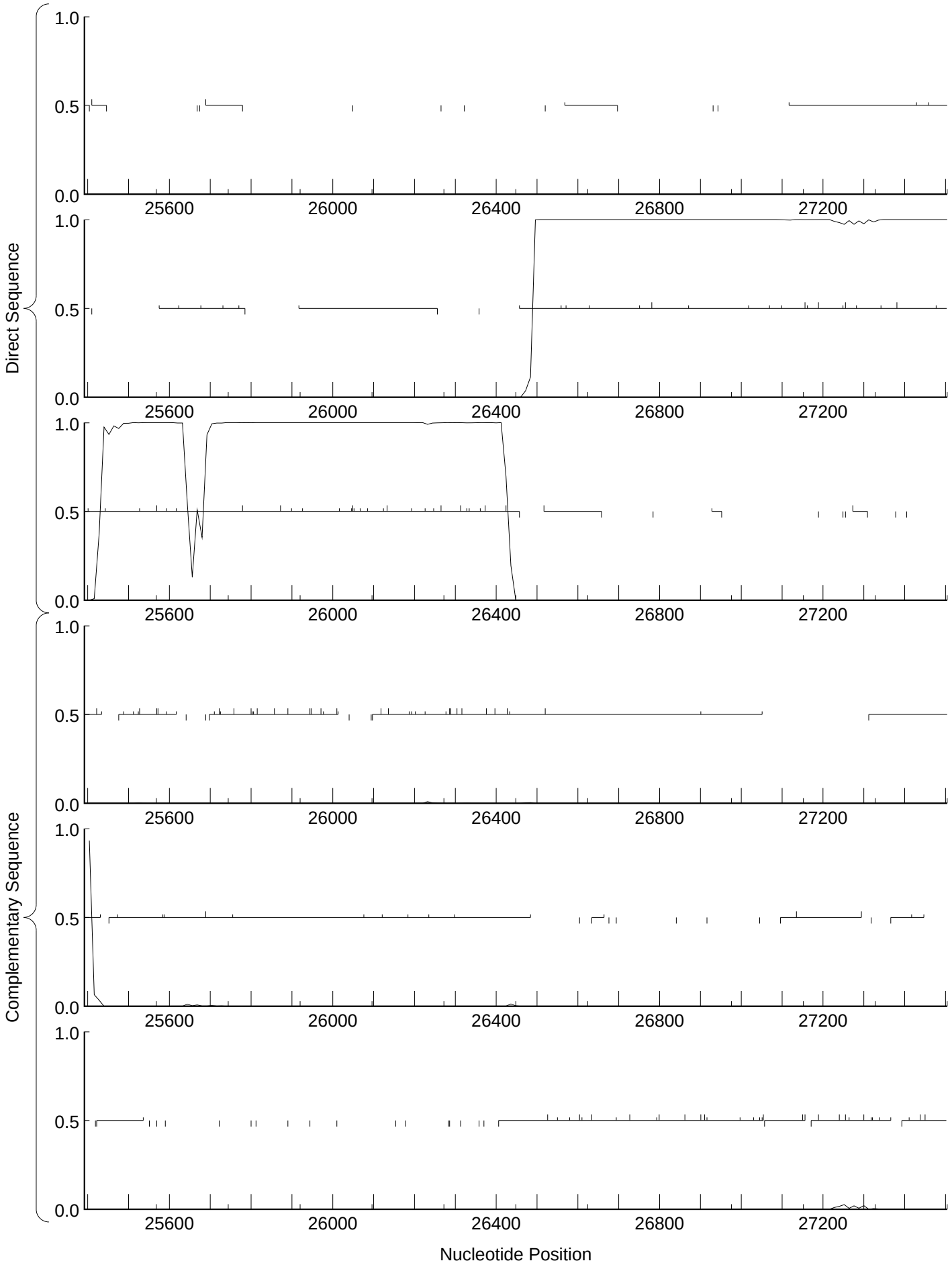
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 12/35



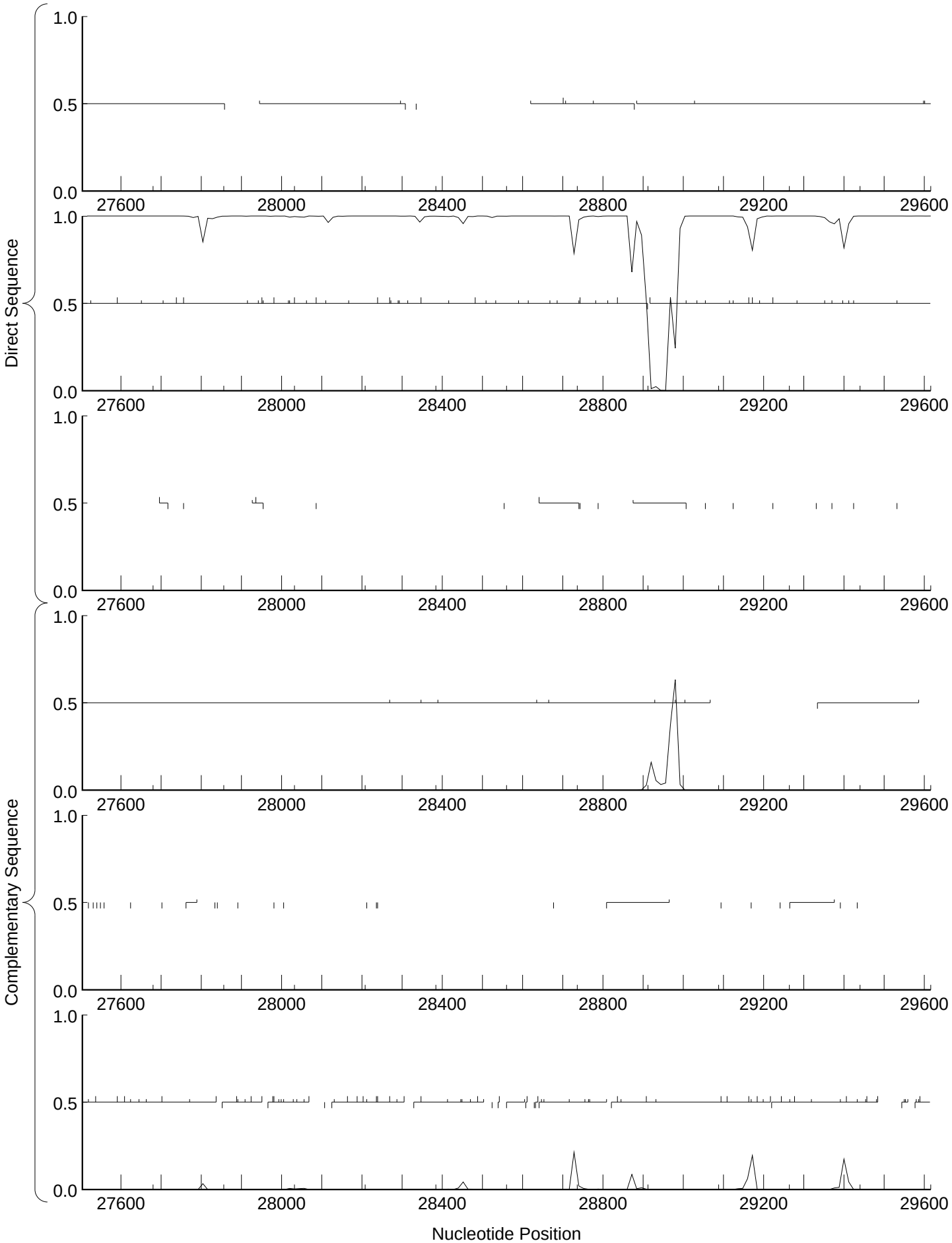
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 13/35



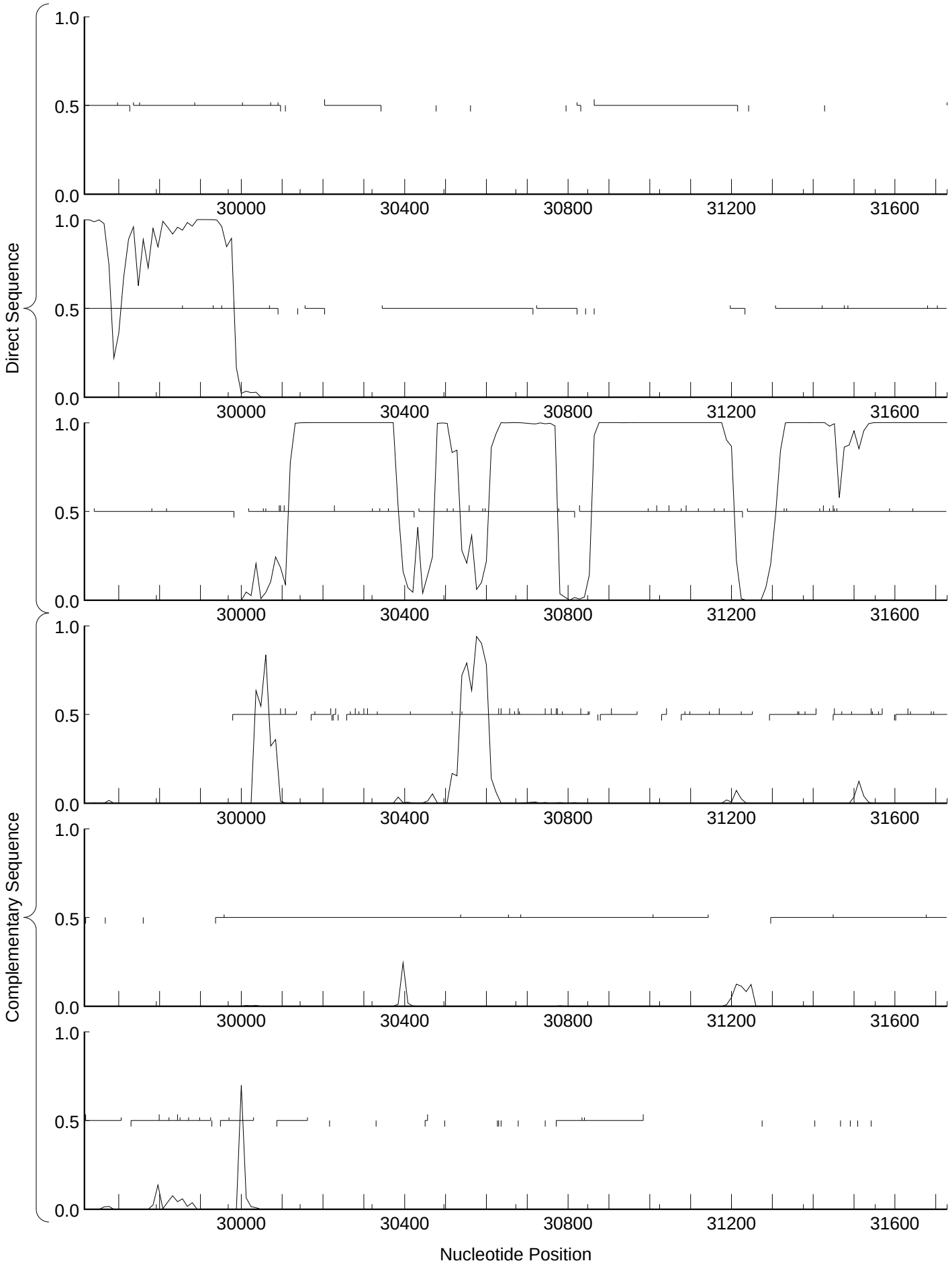
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 14/35



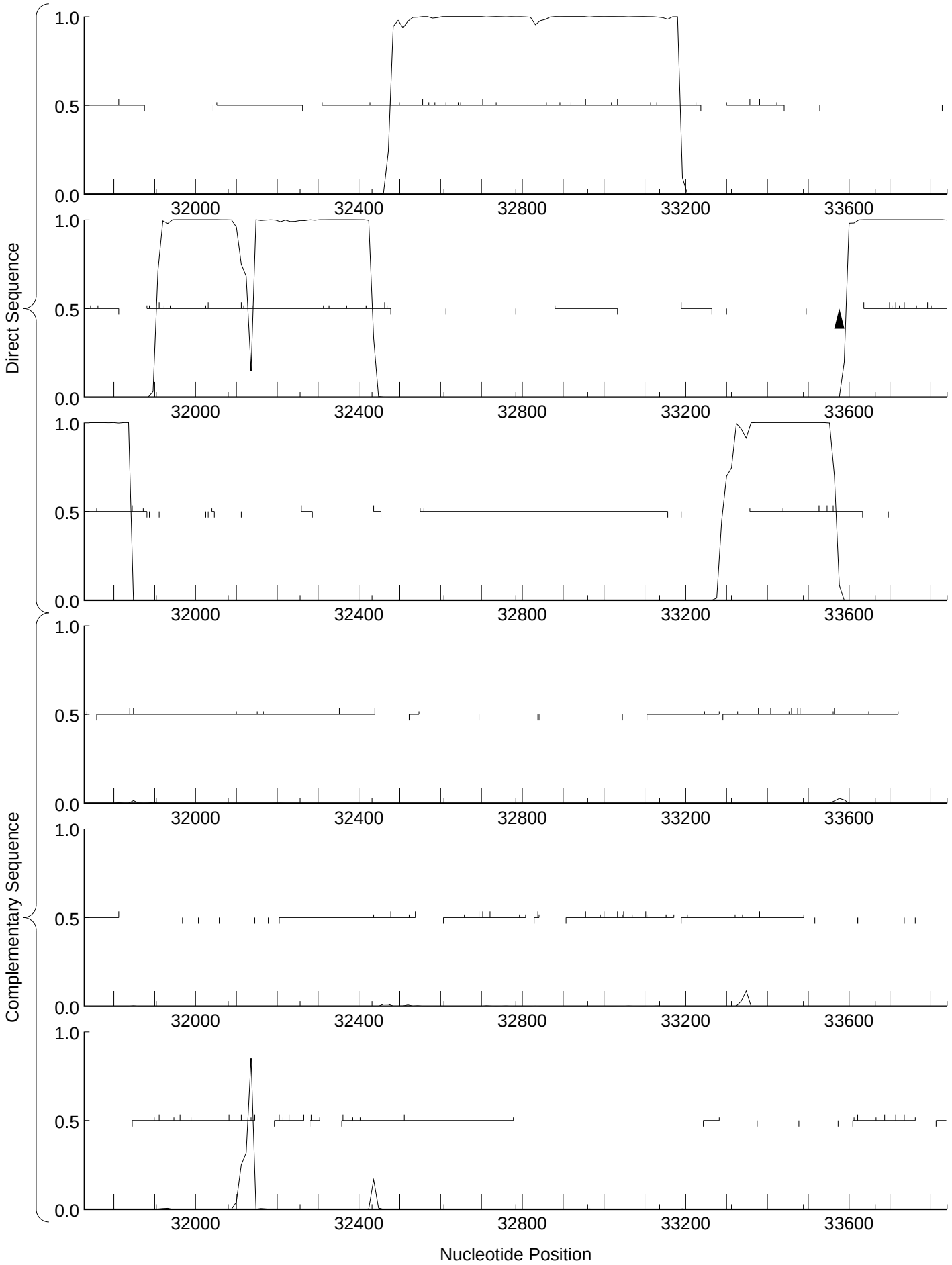
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 15/35



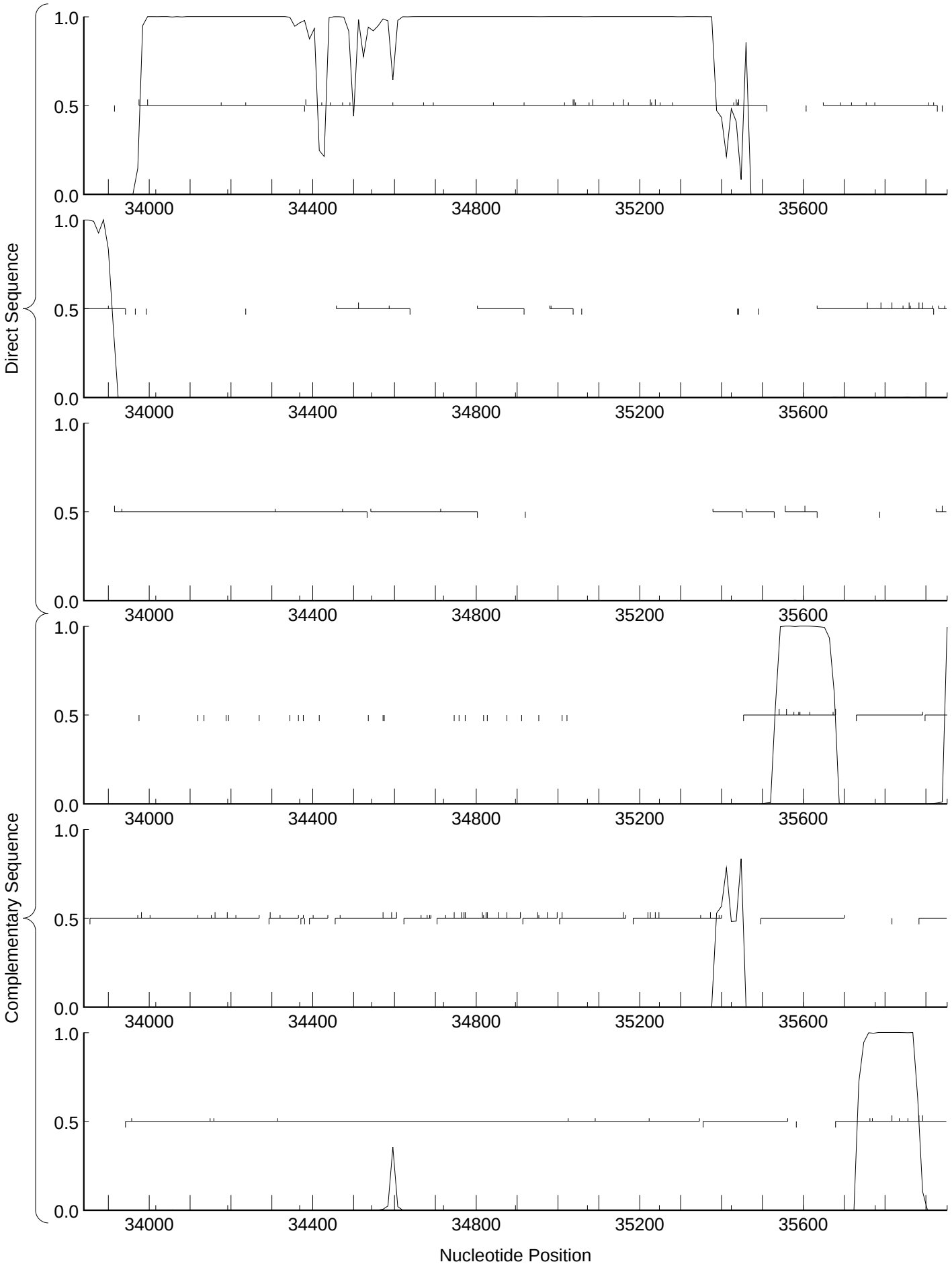
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 16/35



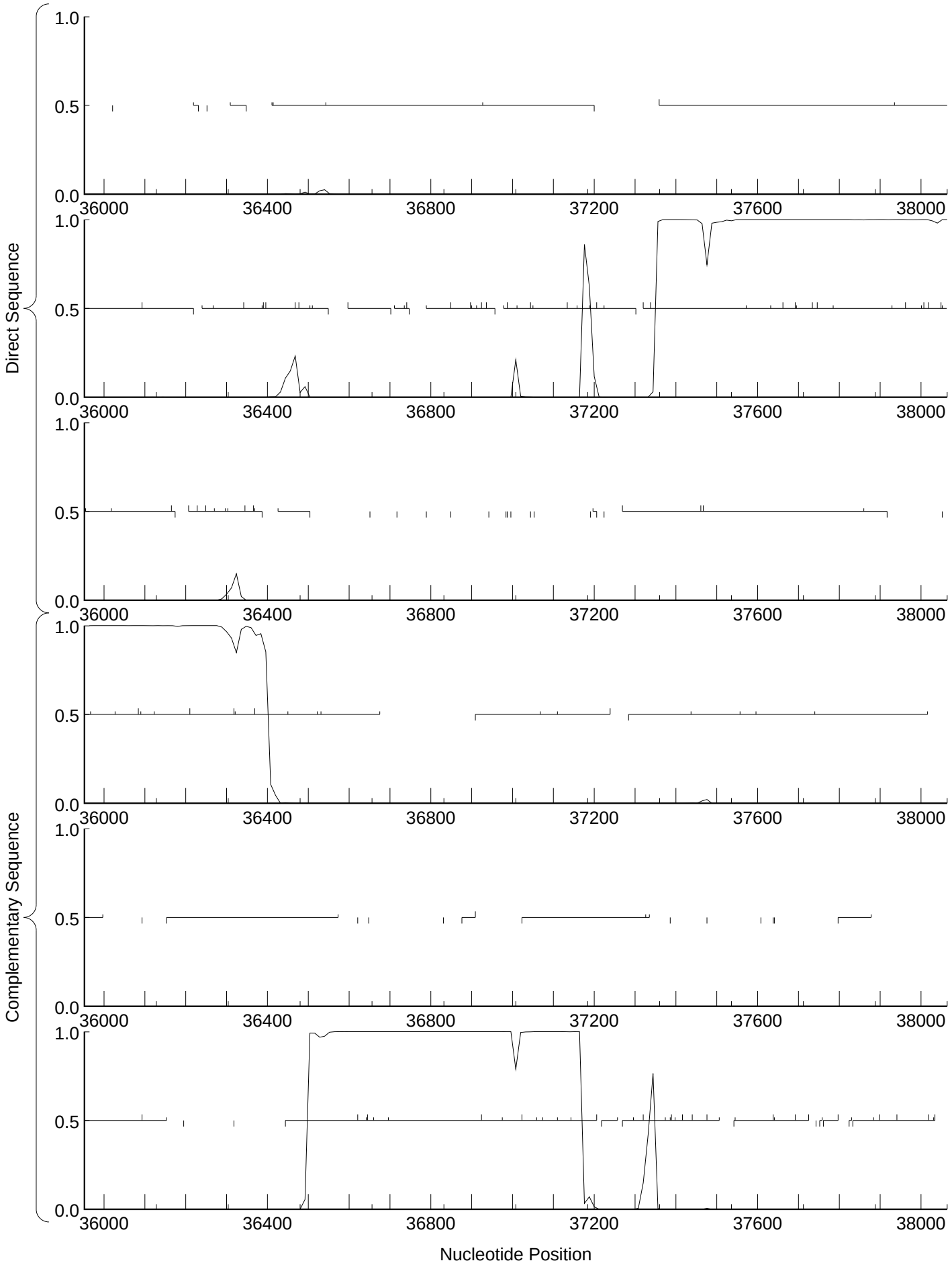
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 17/35

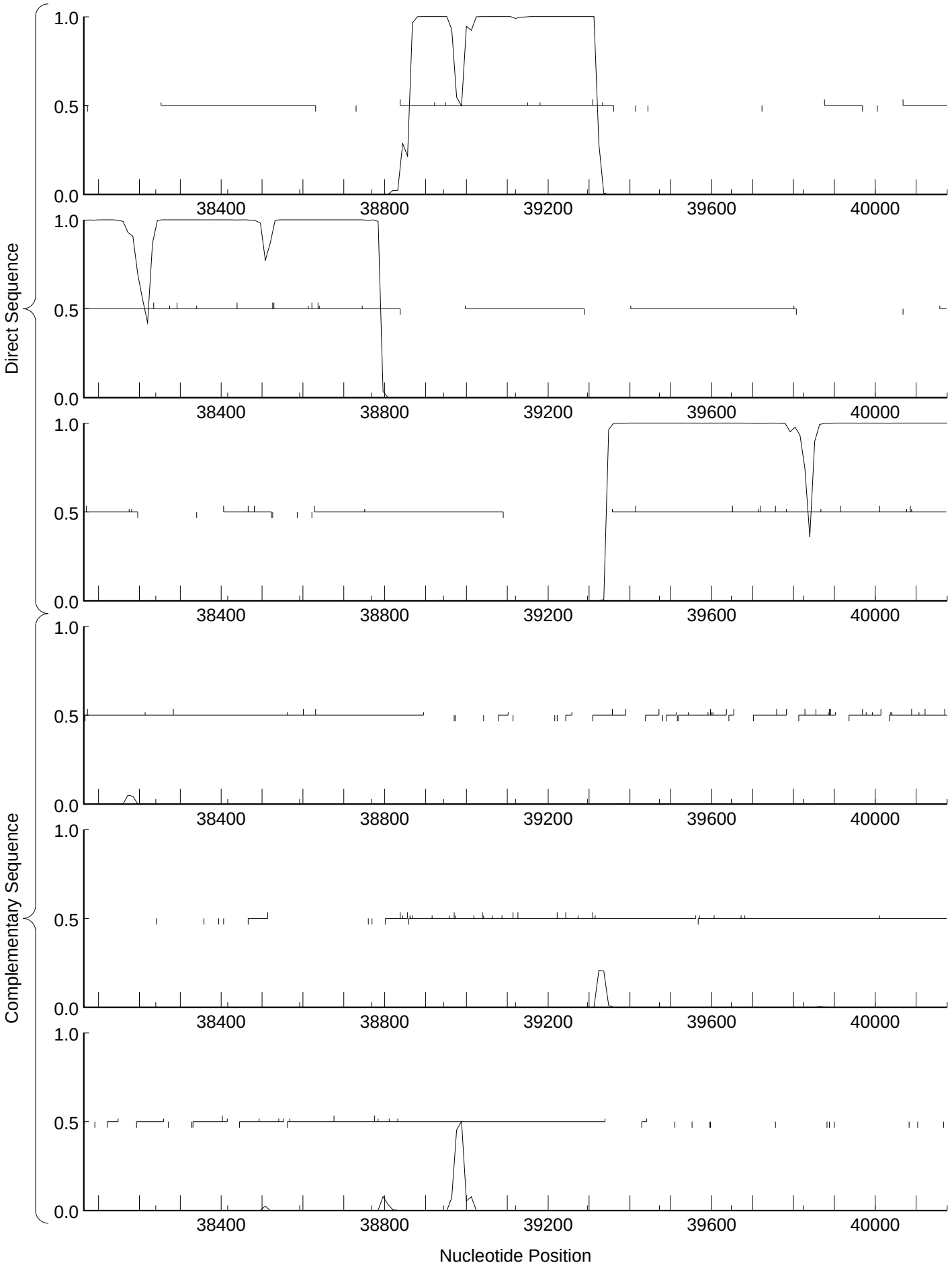


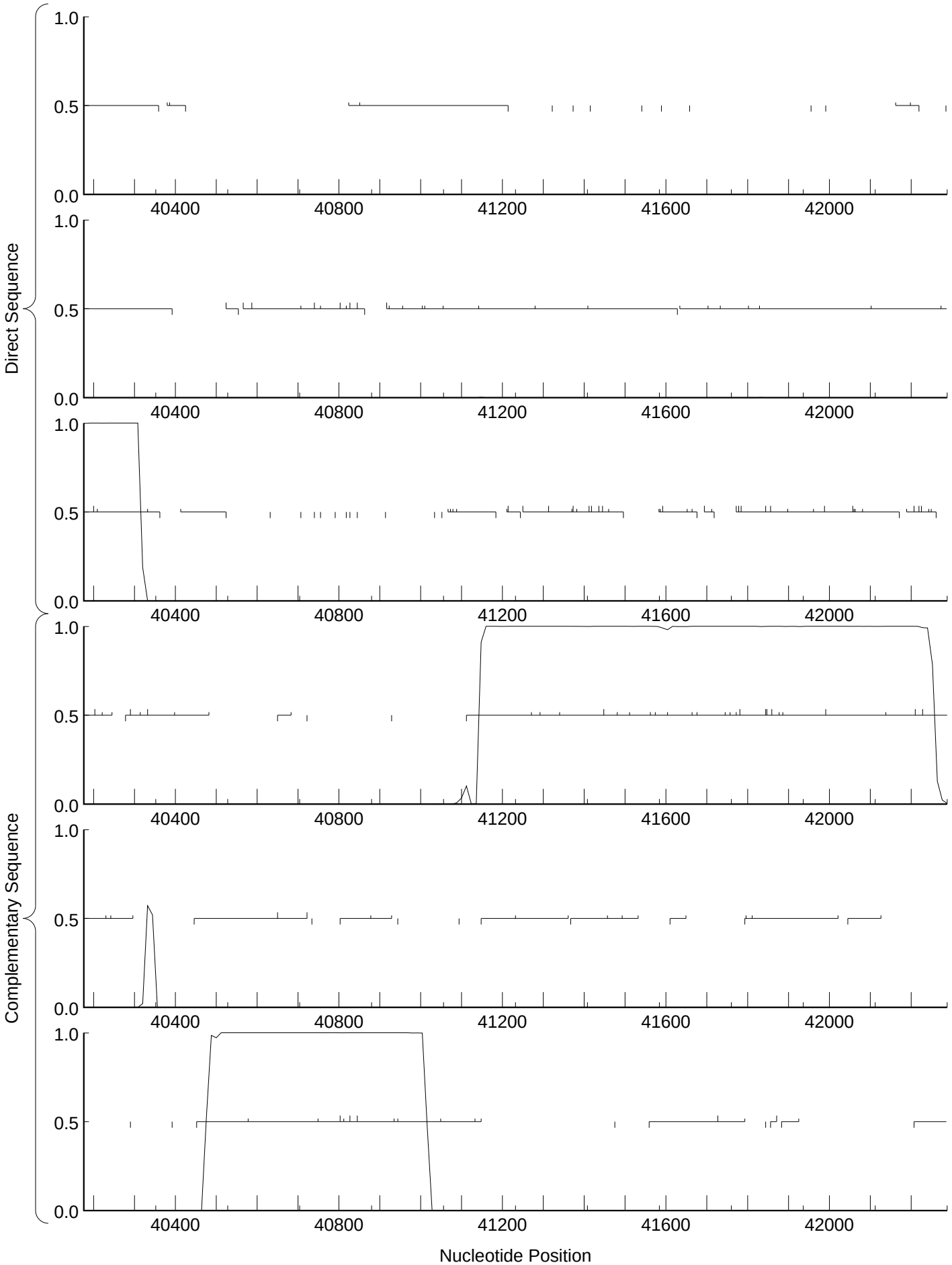
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 18/35



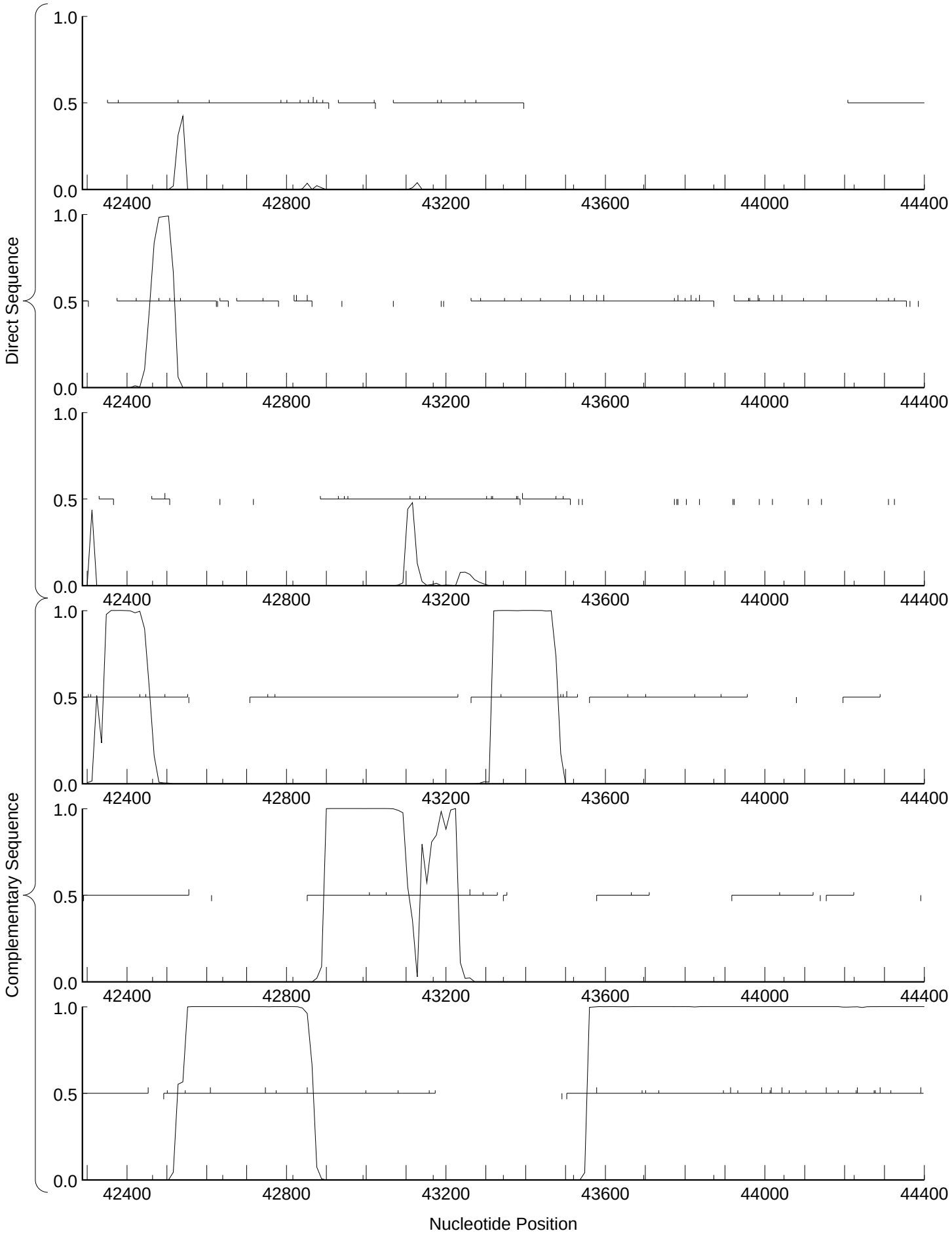
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 19/35

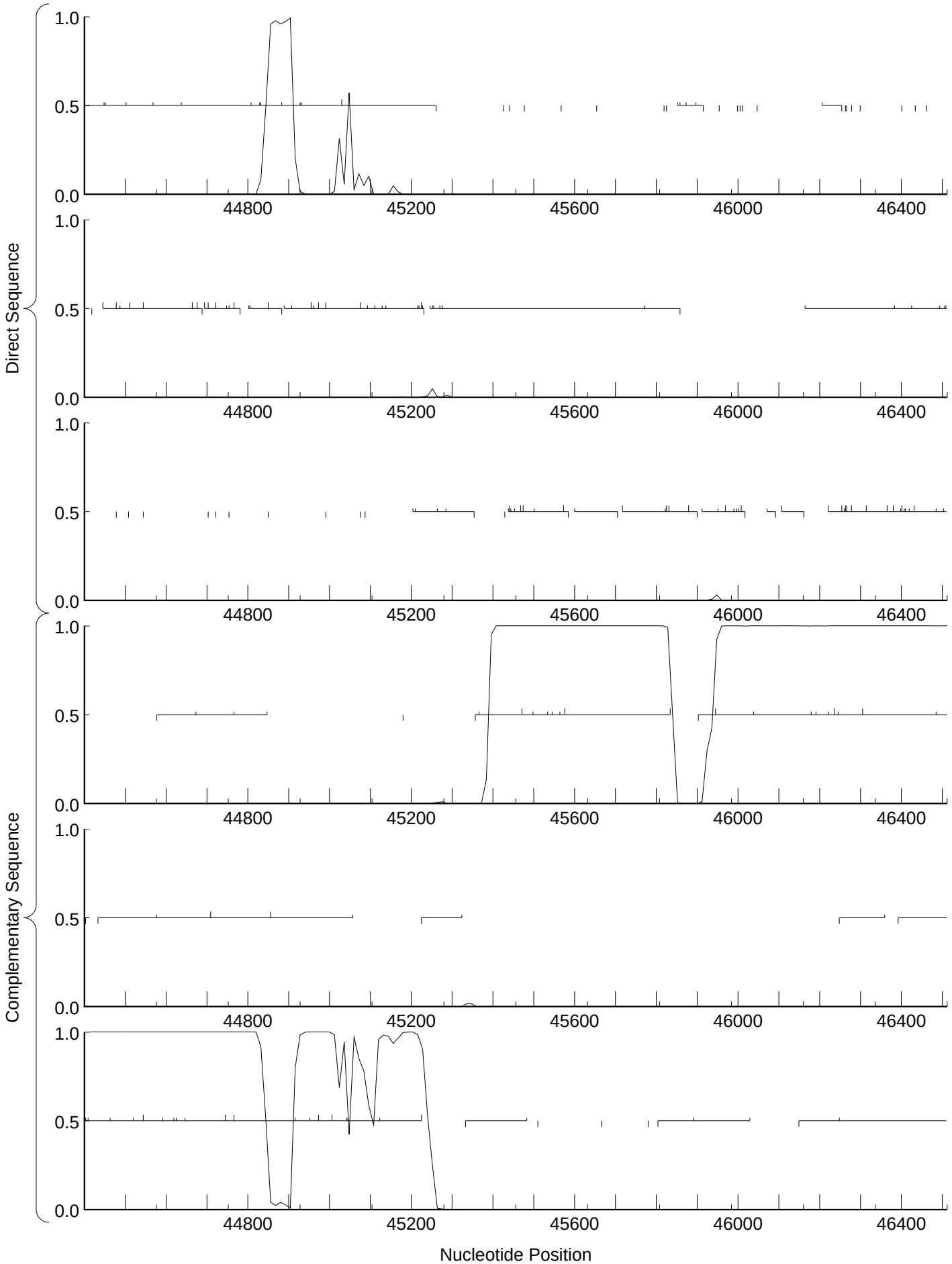



Direct Sequence
Complementary Sequence
1.0
0.5
0.0
38400
38800
39200
39600
40000
Nucleotide Position

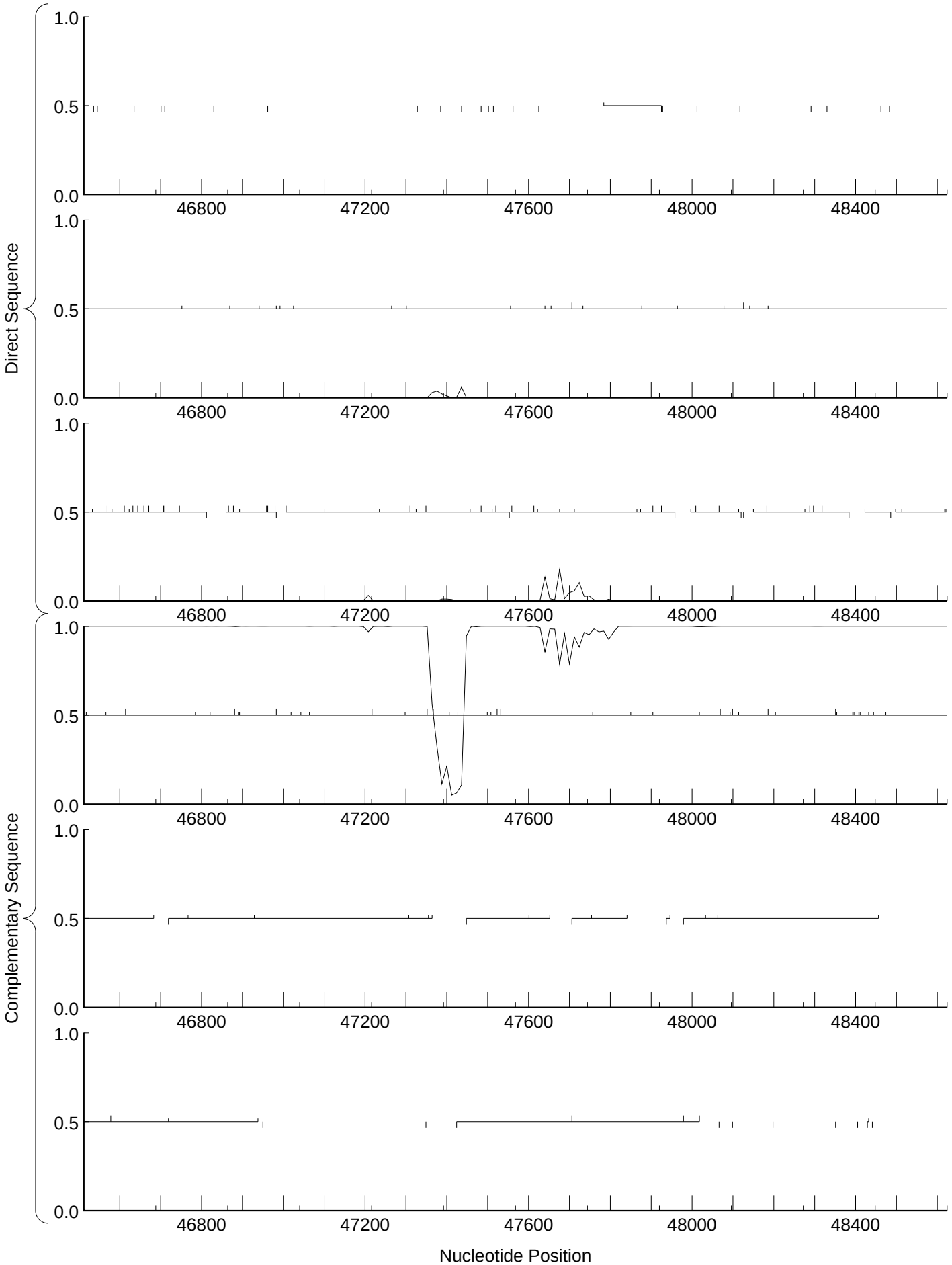

Direct Sequence
Complementary Sequence
1.0
0.5
0.0
40400
40800
41200
41600
42000
Nucleotide Position

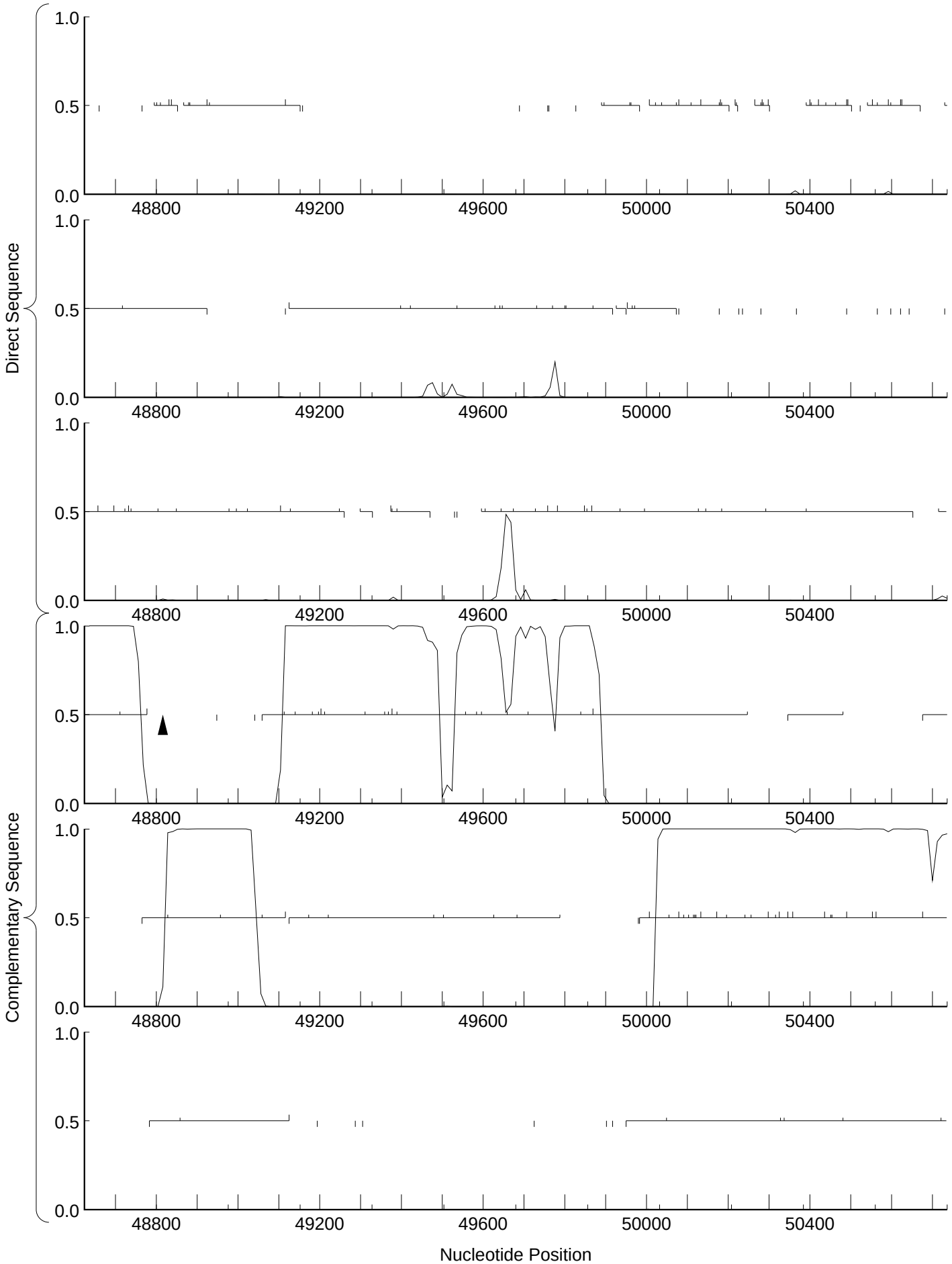
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 22/35



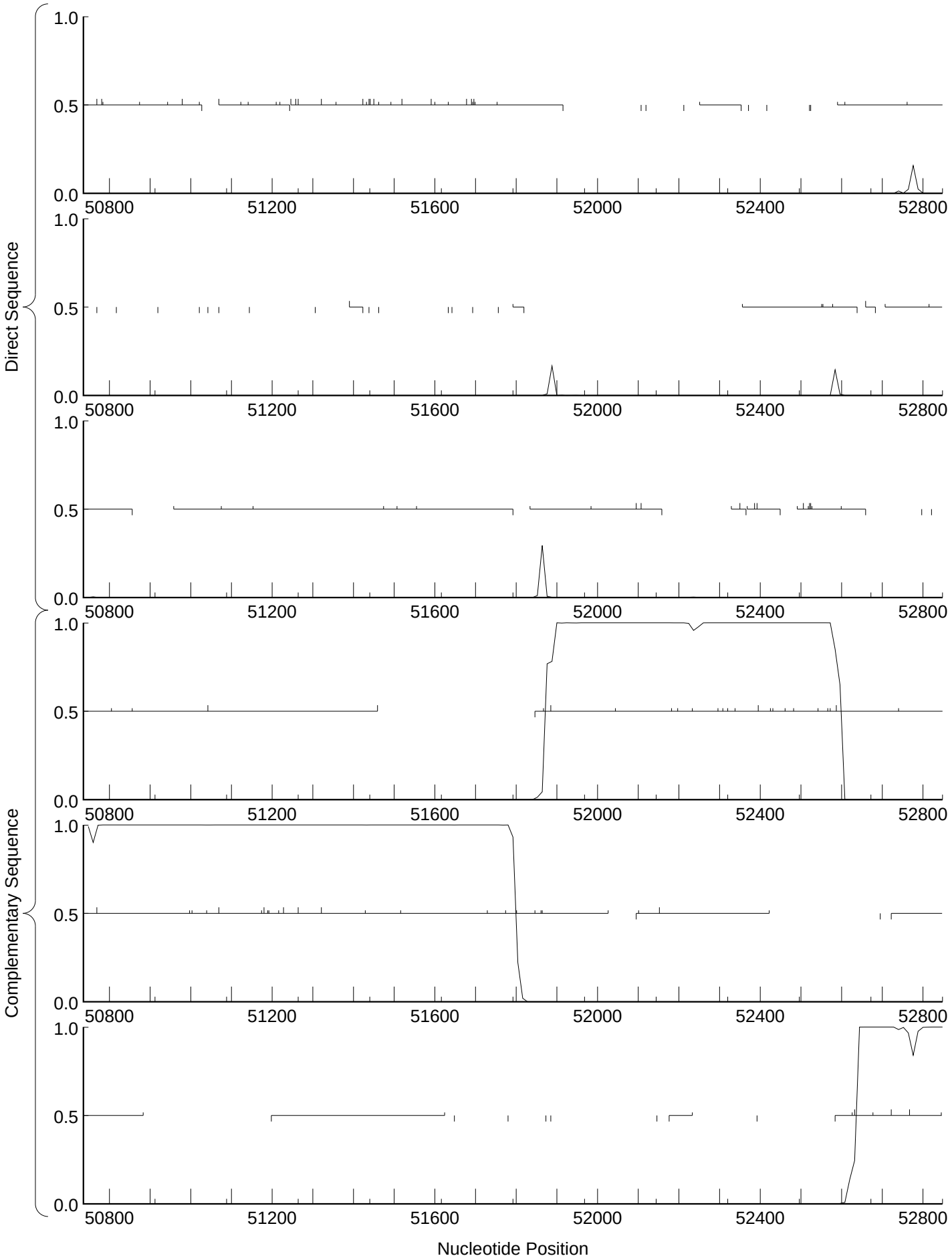

Direct Sequence
Complementary Sequence
1.0
0.5
0.0
44800
45200
45600
46000
46400
Nucleotide Position

Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 24/35

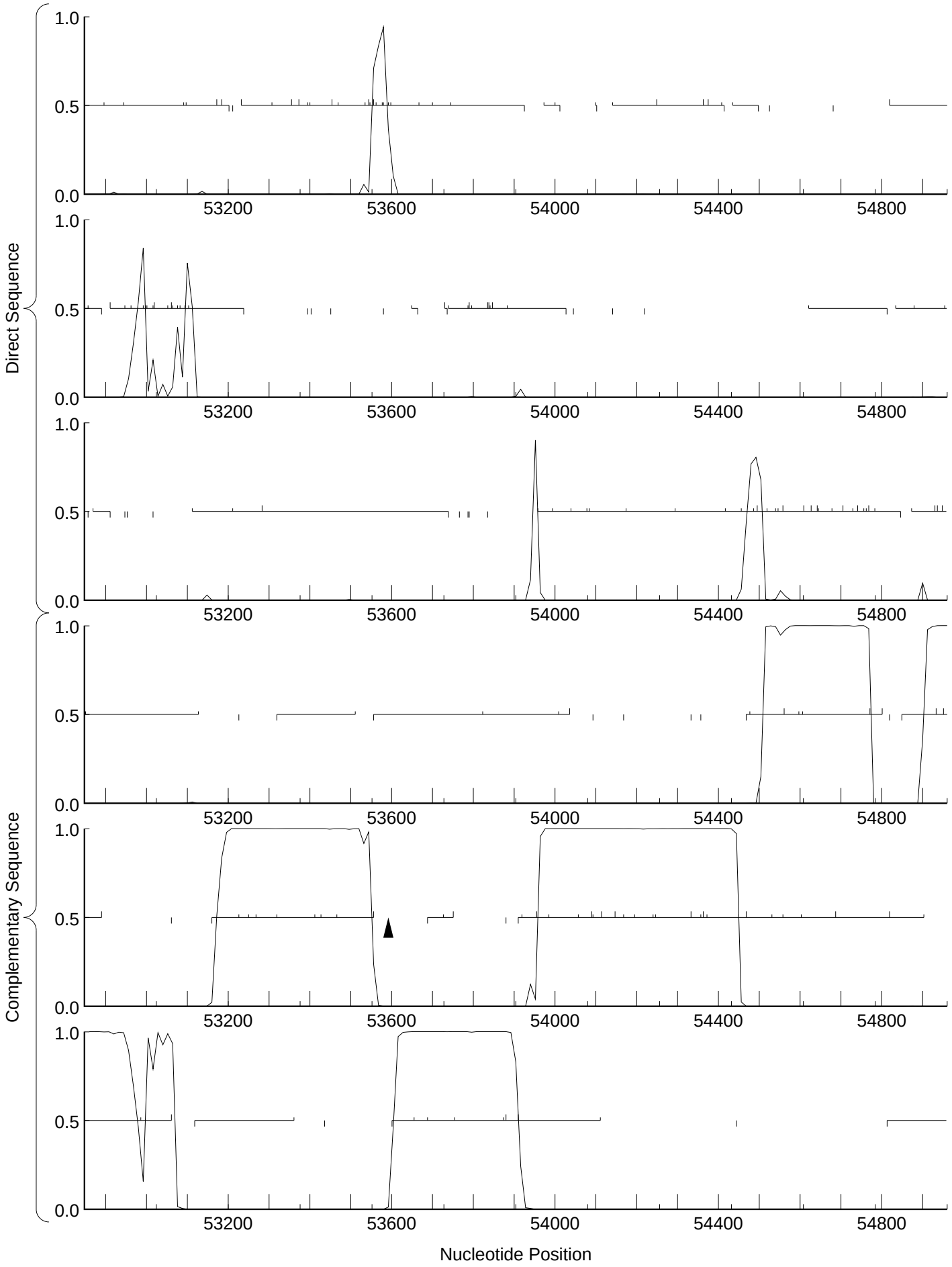


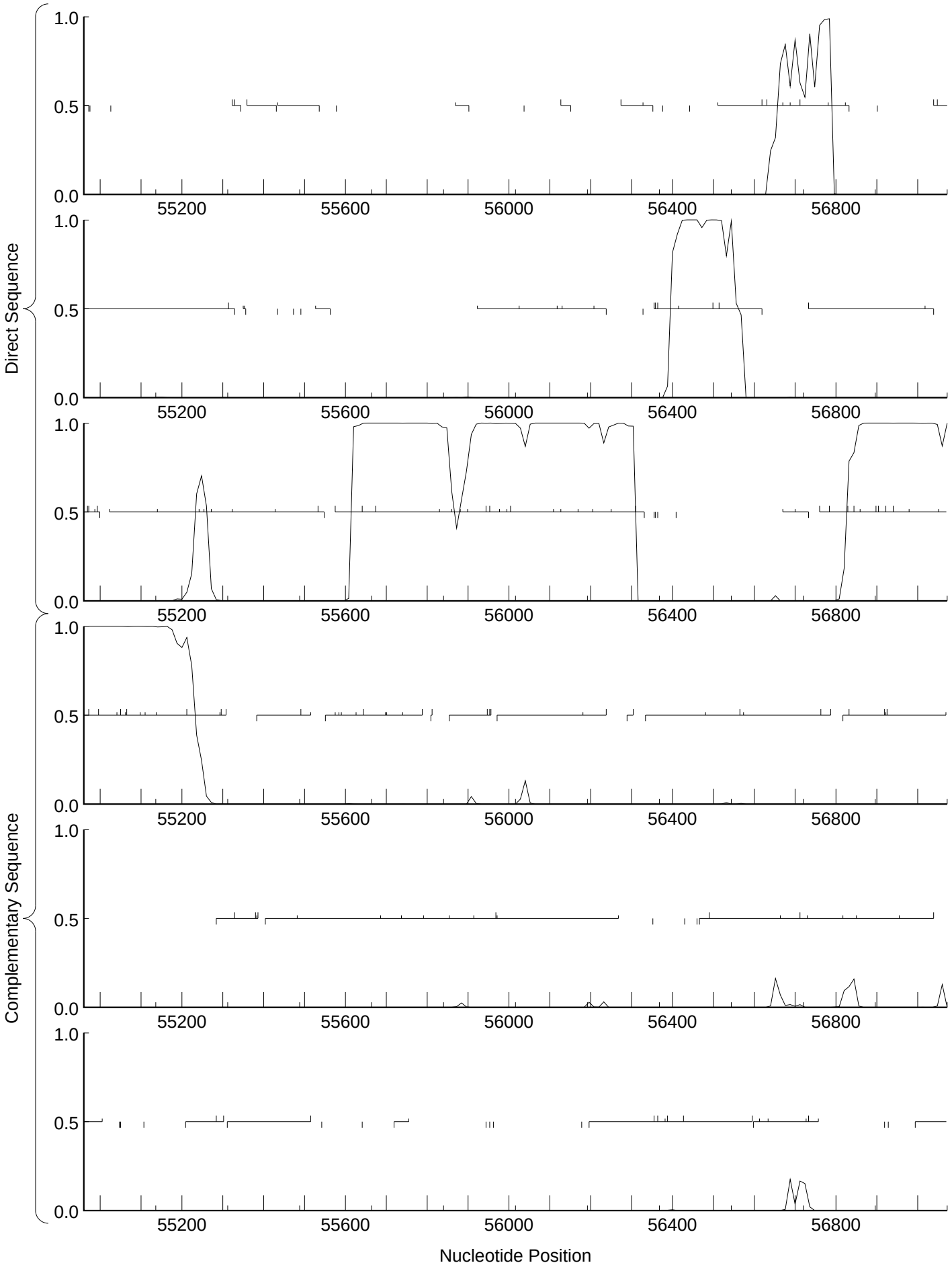

Direct Sequence
Complementary Sequence
1.0
0.5
0.0
48800
49200
49600
50000
50400
Nucleotide Position

Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 26/35

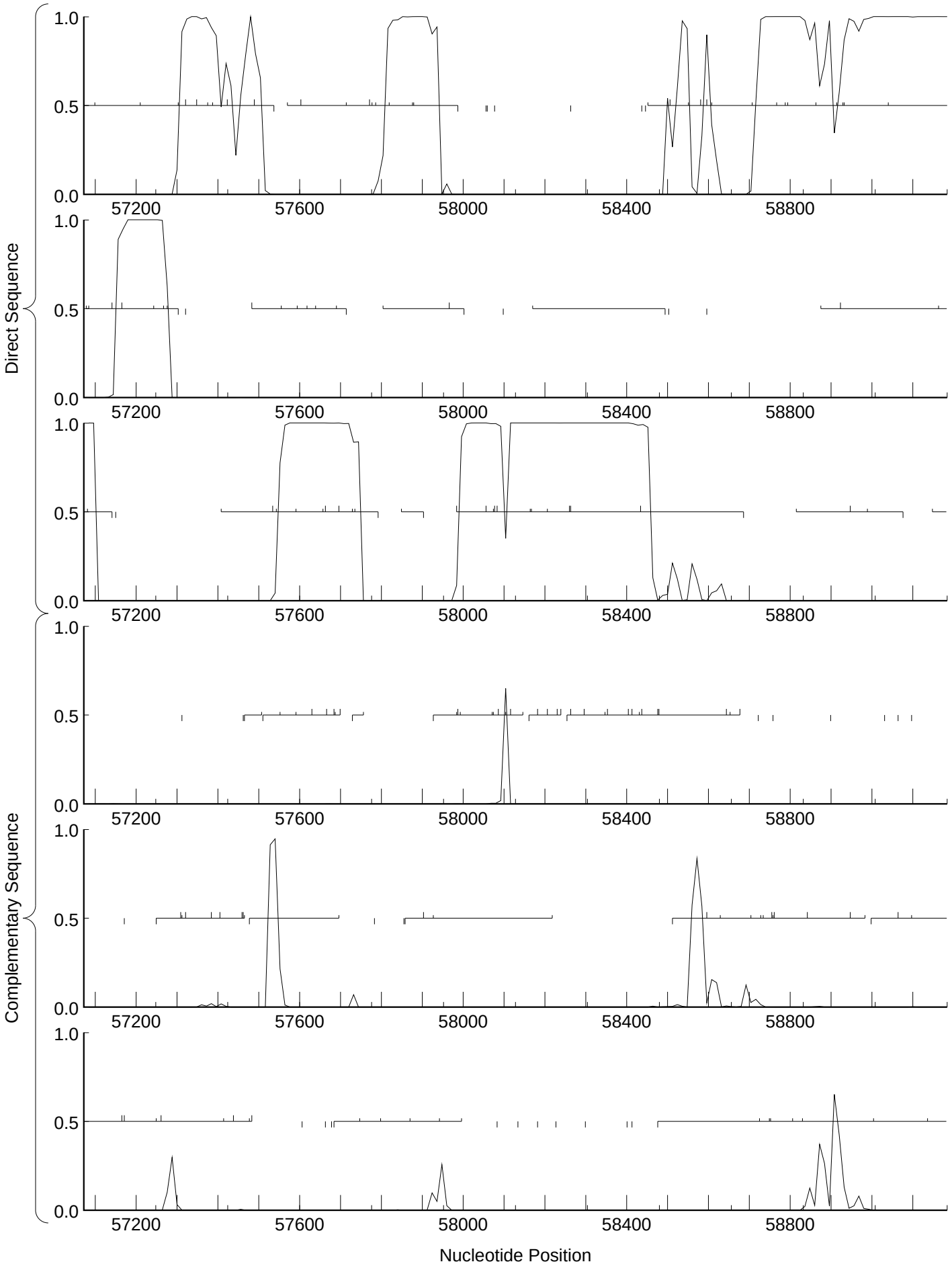


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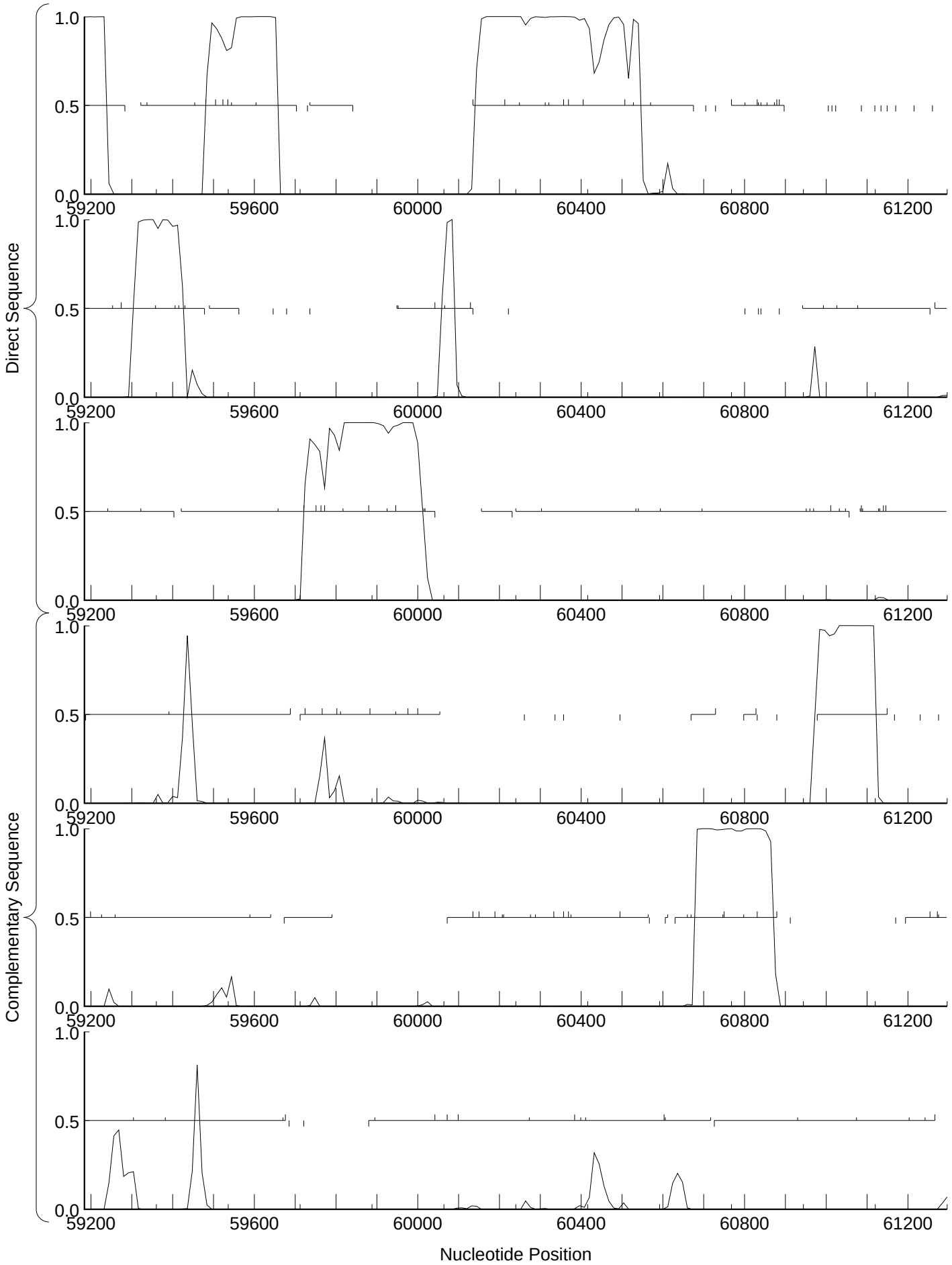



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Complementary Sequence
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56400
56800
Nucleotide Position

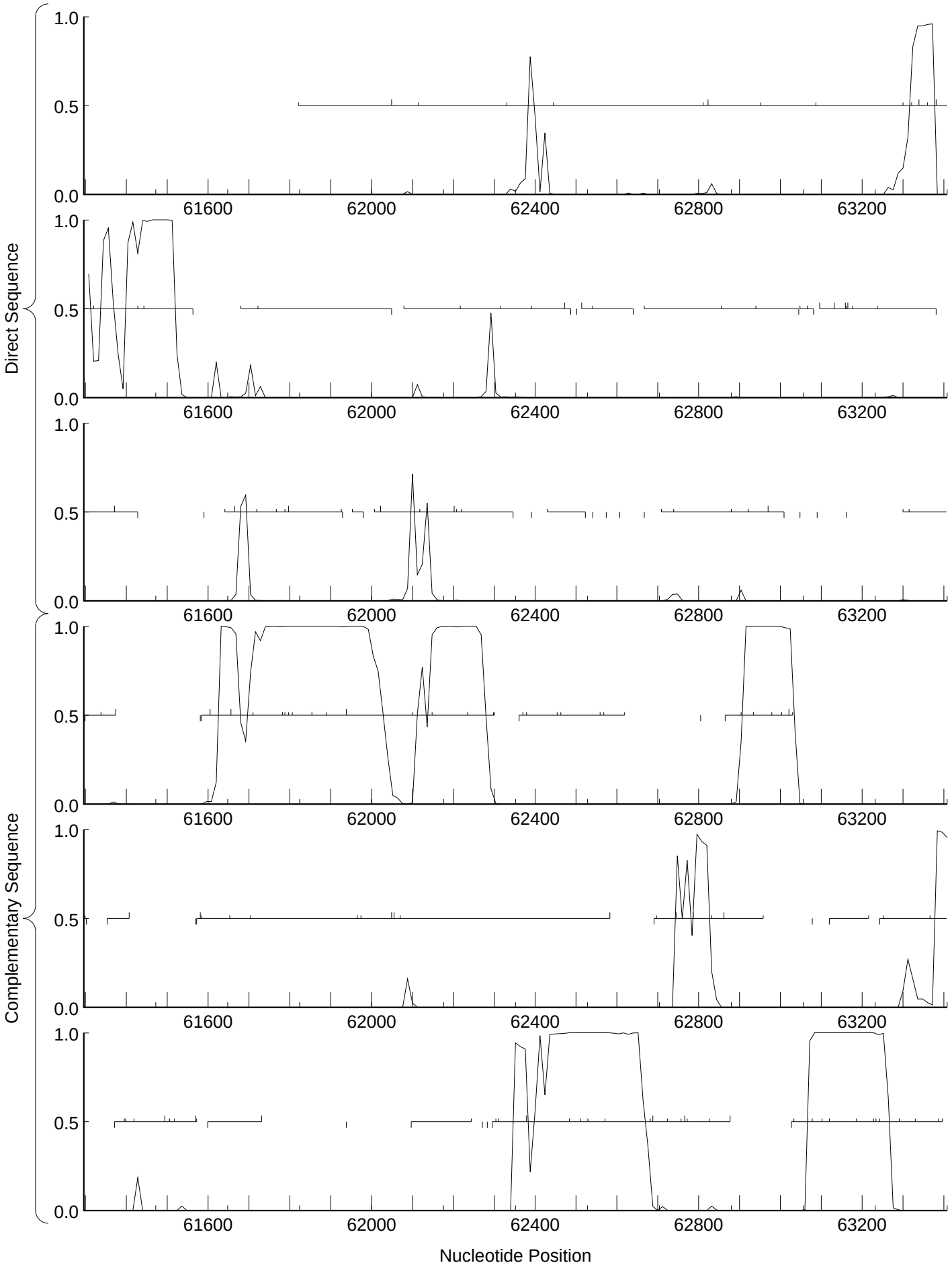
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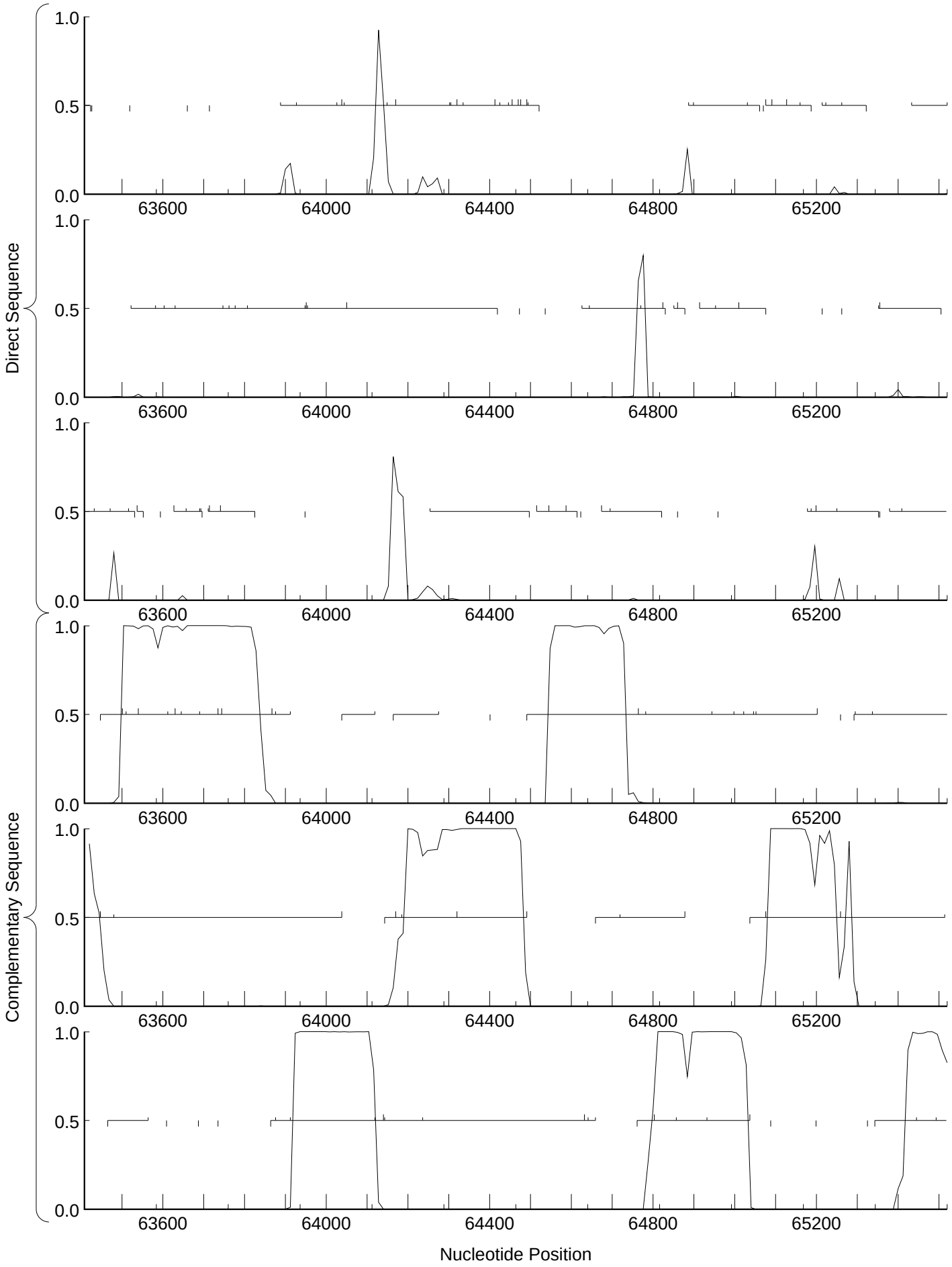
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 30/35

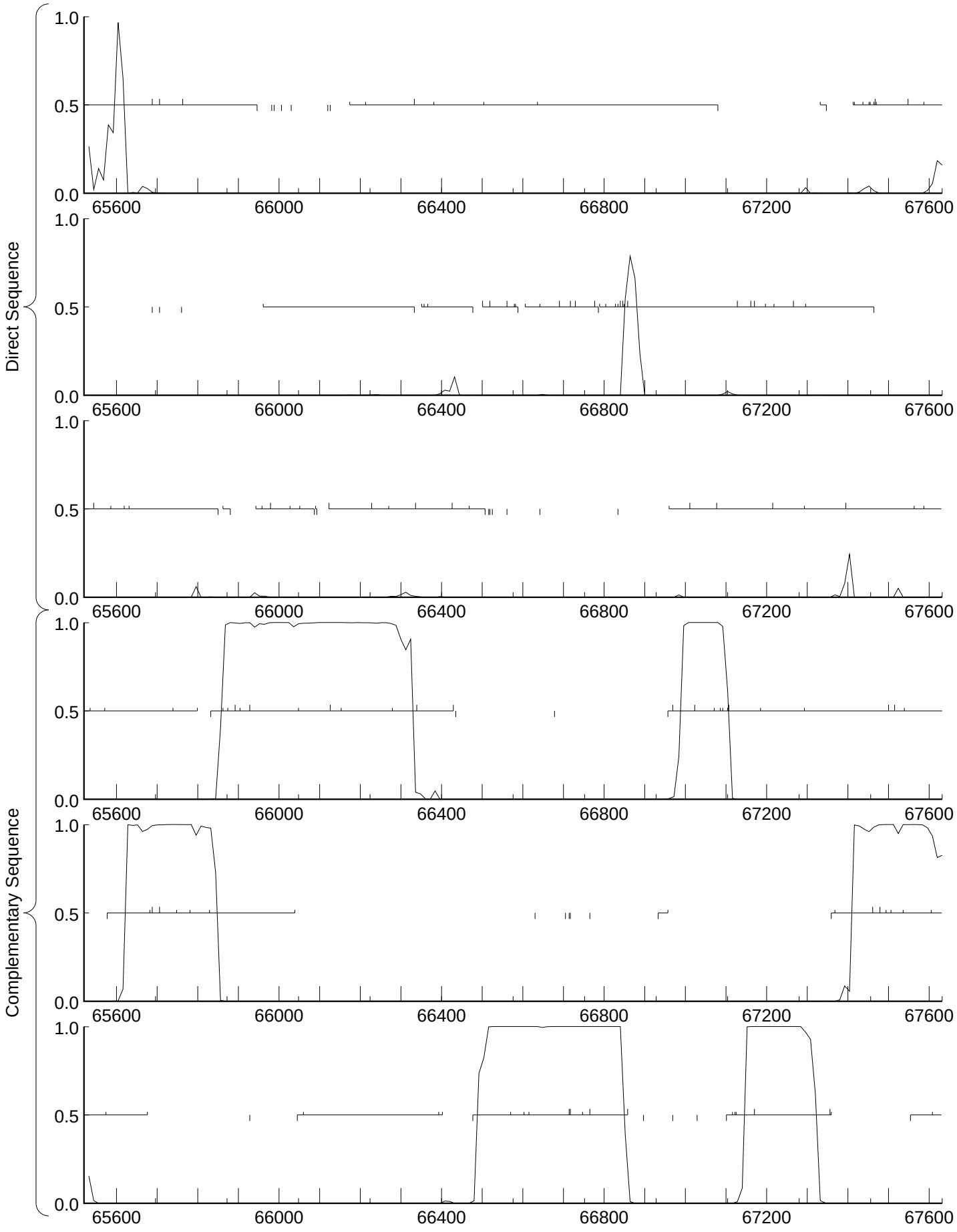


Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 31/35

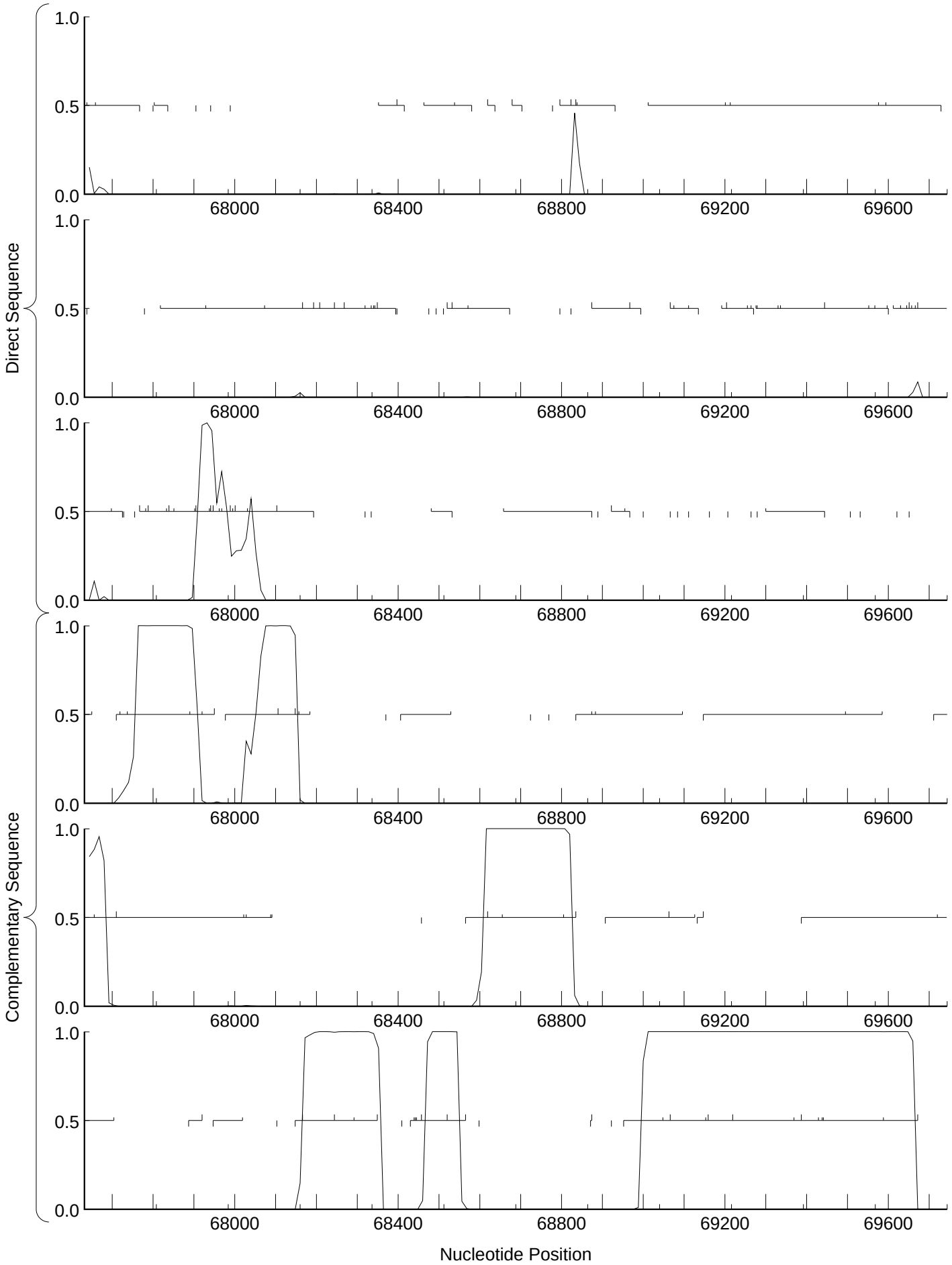


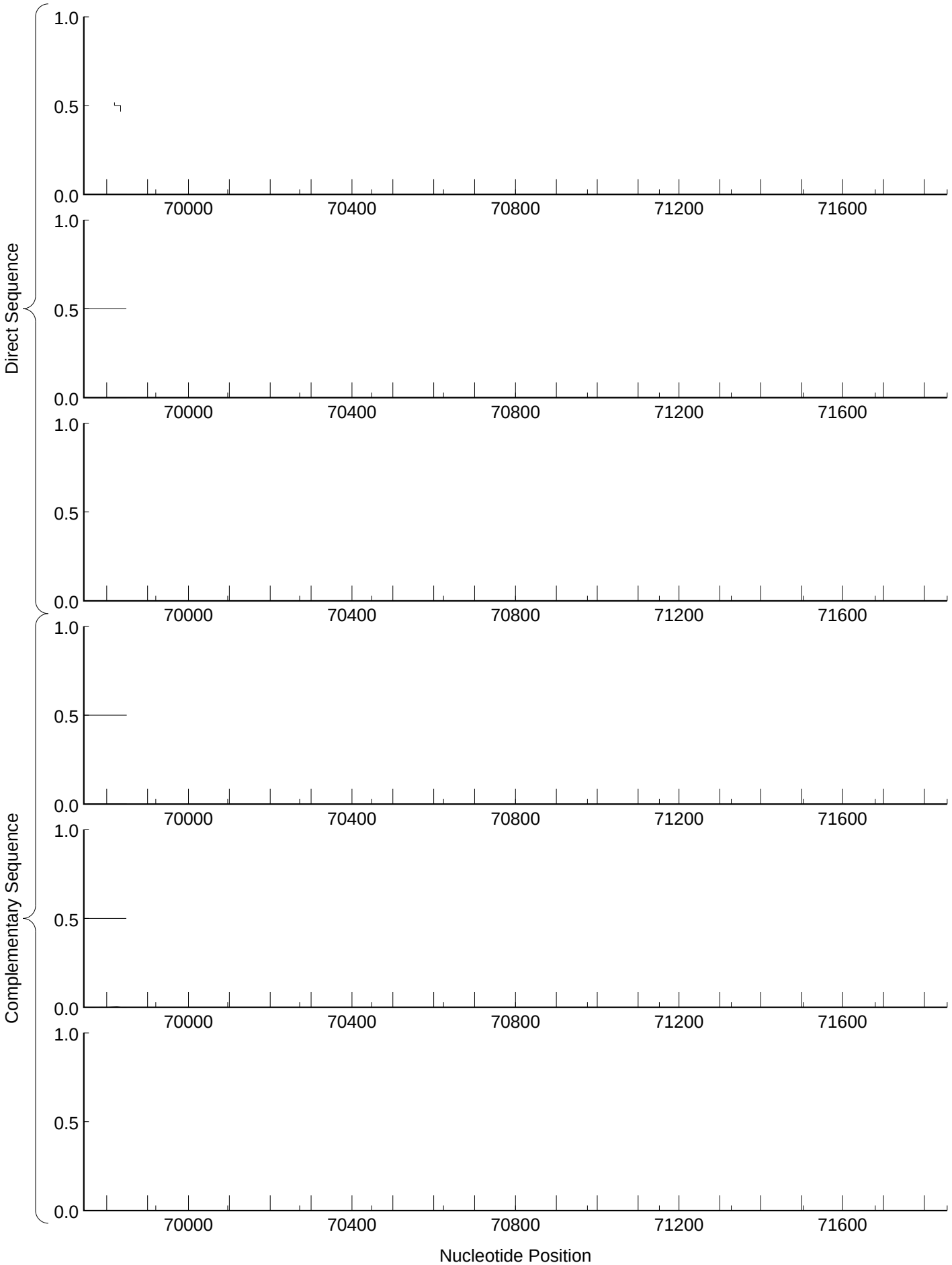
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 32/35




Direct Sequence
Complementary Sequence
1.0
0.5
0.0
65600
66000
66400
66800
67200
67600
Nucleotide Position

Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 34/35




Direct Sequence
Complementary Sequence
1.0
0.5
0.0
70000
70400
70800
71200
71600
Nucleotide Position