GeneMark

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

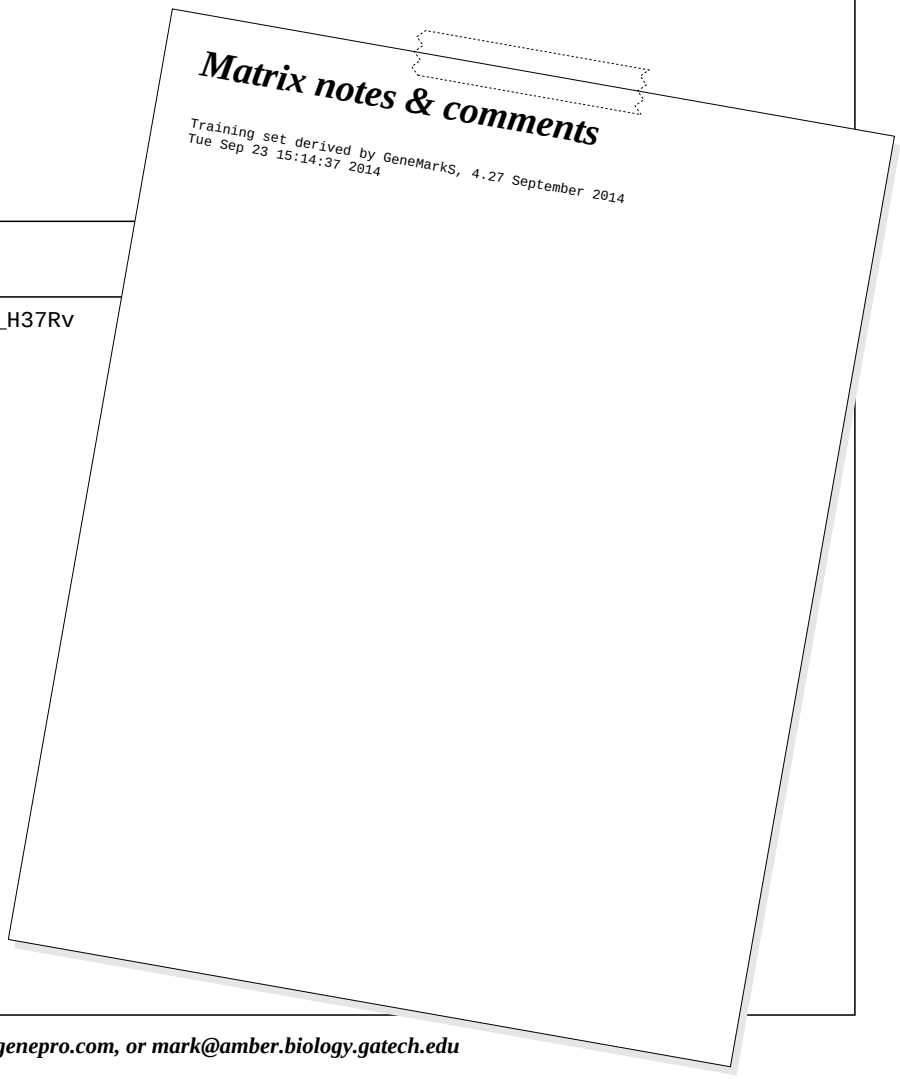
PROGRAM INFORMATION

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Sequence         :  Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9
Analysis Date    :  3/28/24 at 19:37:02
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,
                    List regions and/or splice sites,
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MATRIX INFORMATION

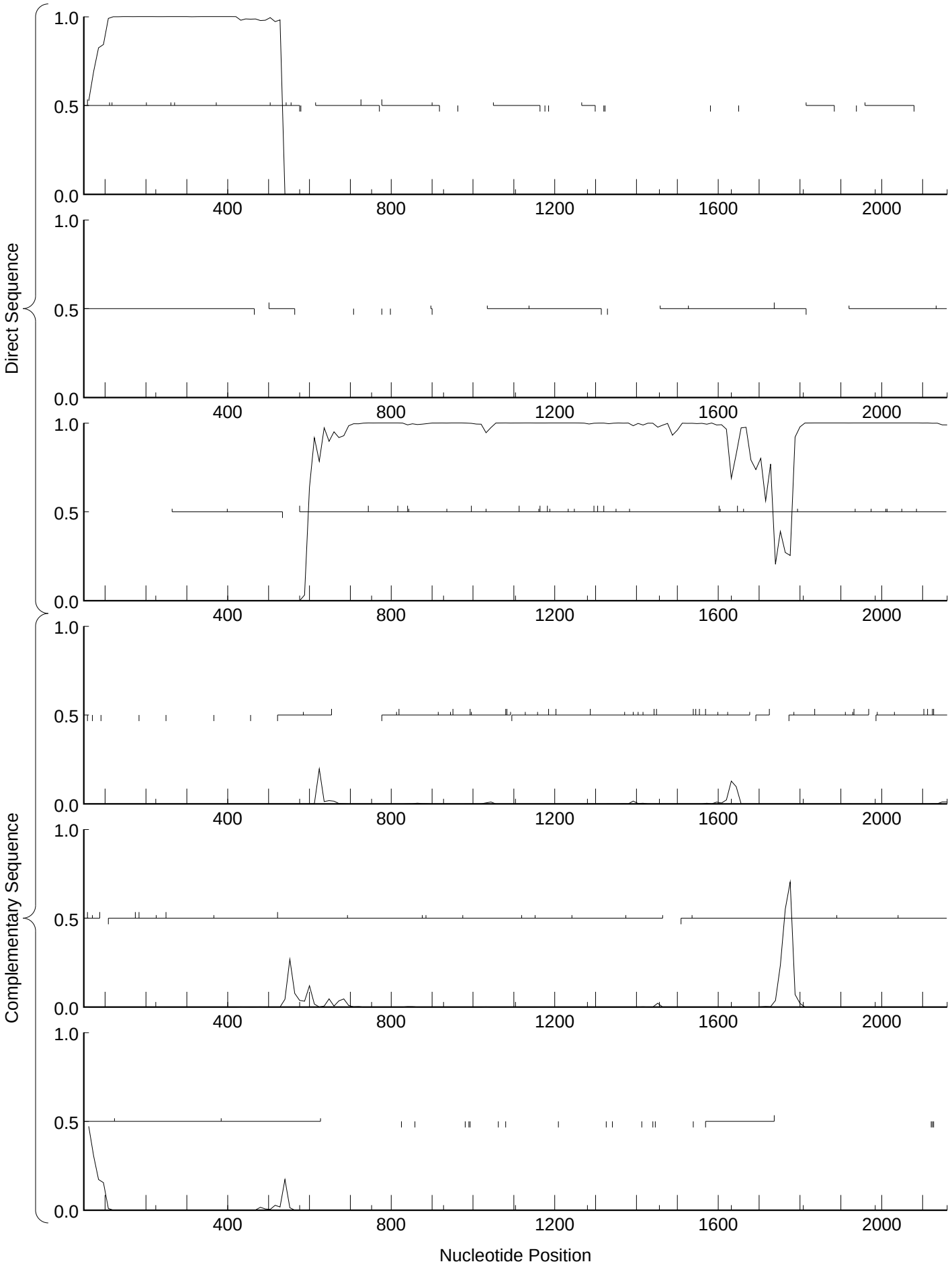
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Matrix     :  Mycobacterium_tuberculosis_H37Rv
Author     :  -

Order      :  4
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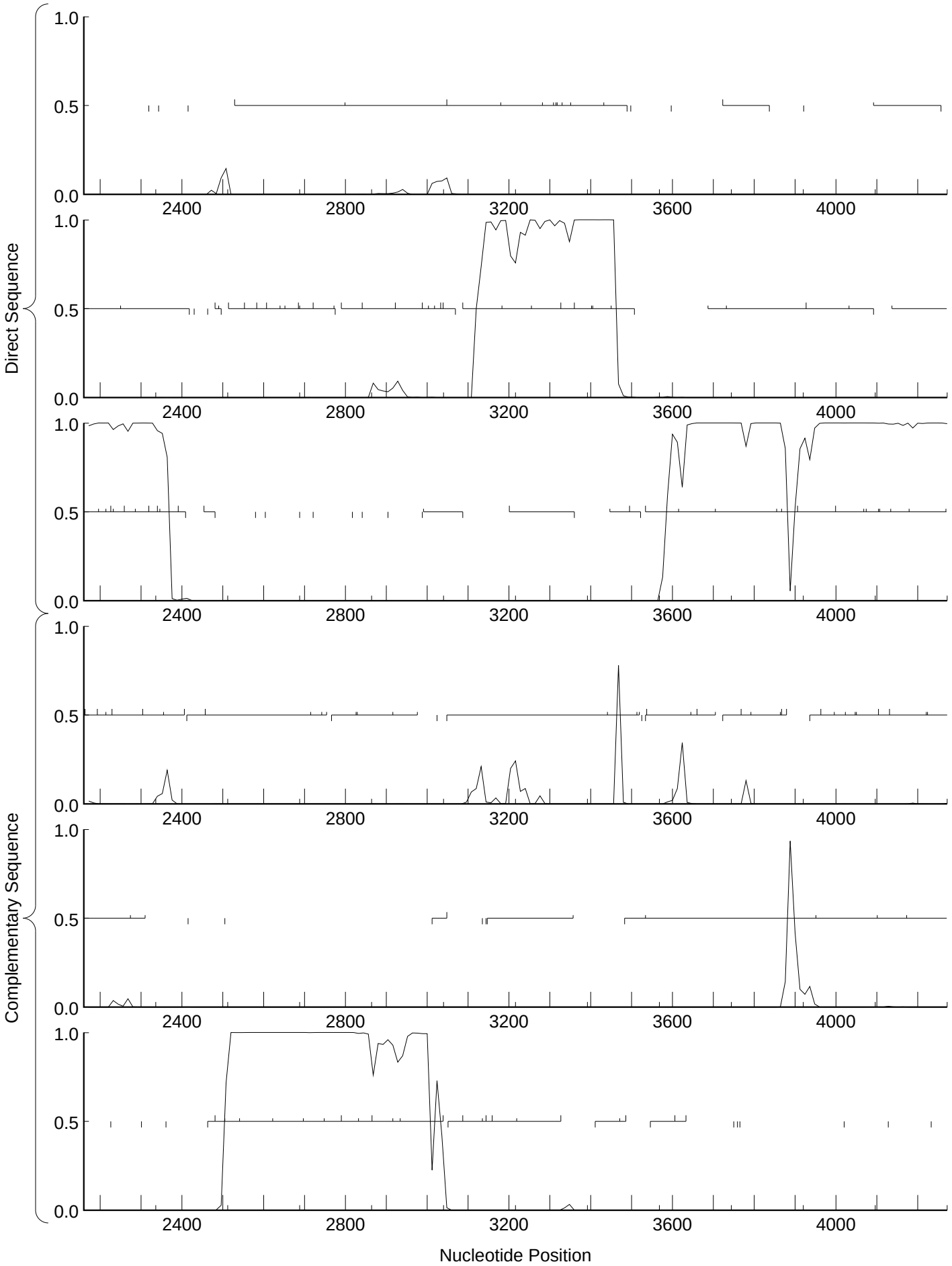

```
  Send questions / comments to:
      Dr. M. Borodovsky
      Georgia Institute of Technology
      School of Biology
      Atlanta, GA  30332-0230
```


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

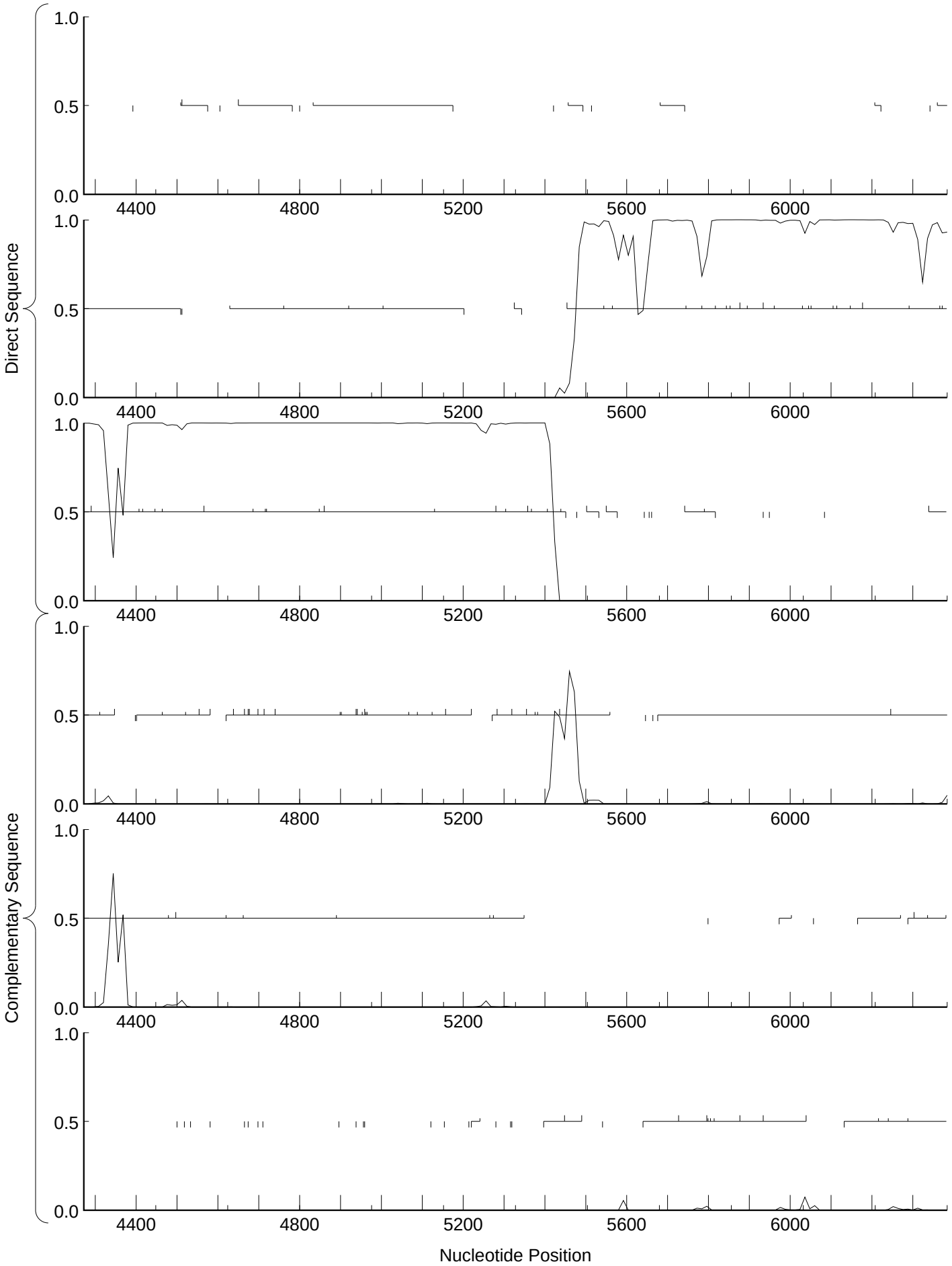
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 2/35



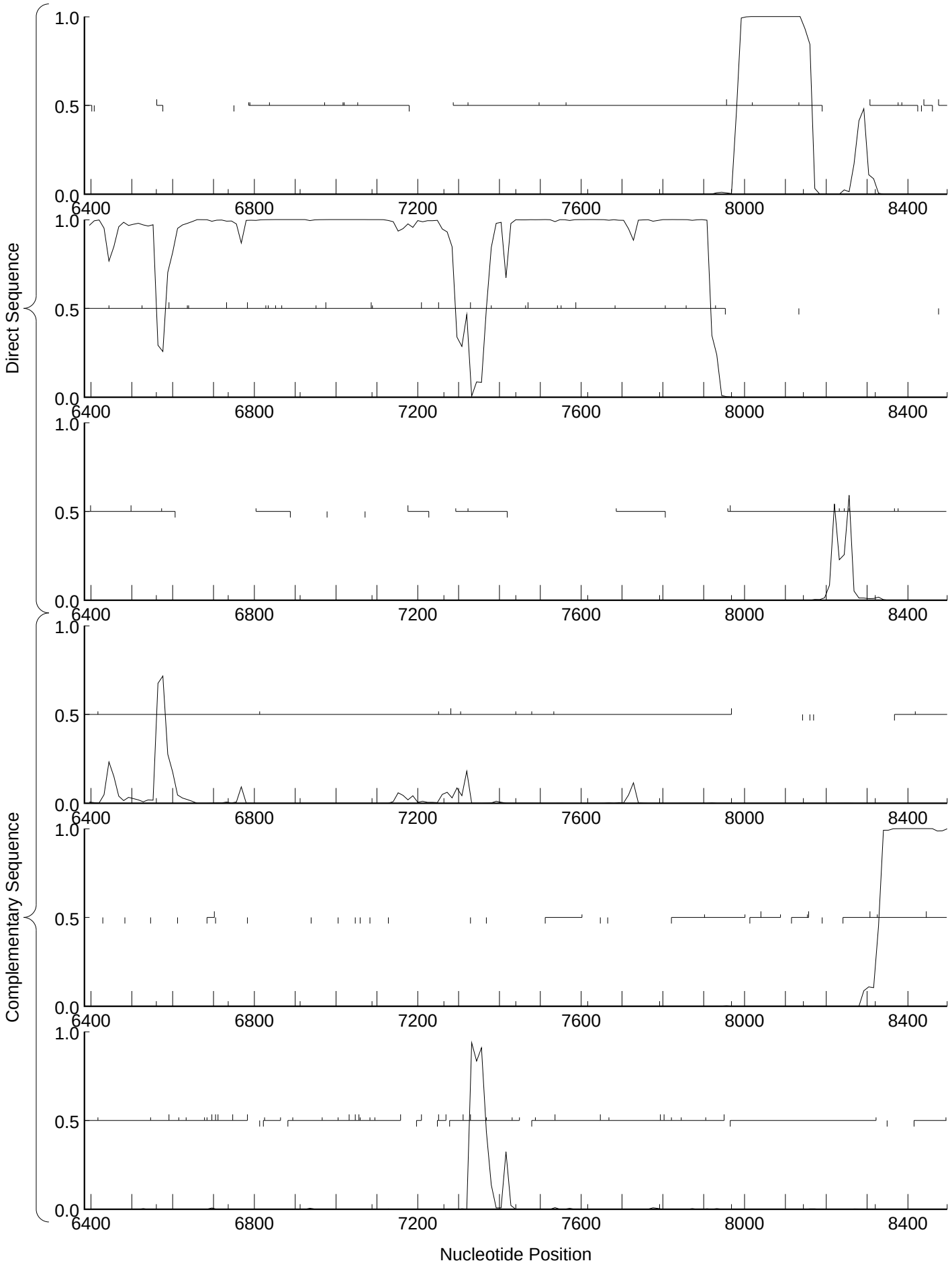
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 3/35



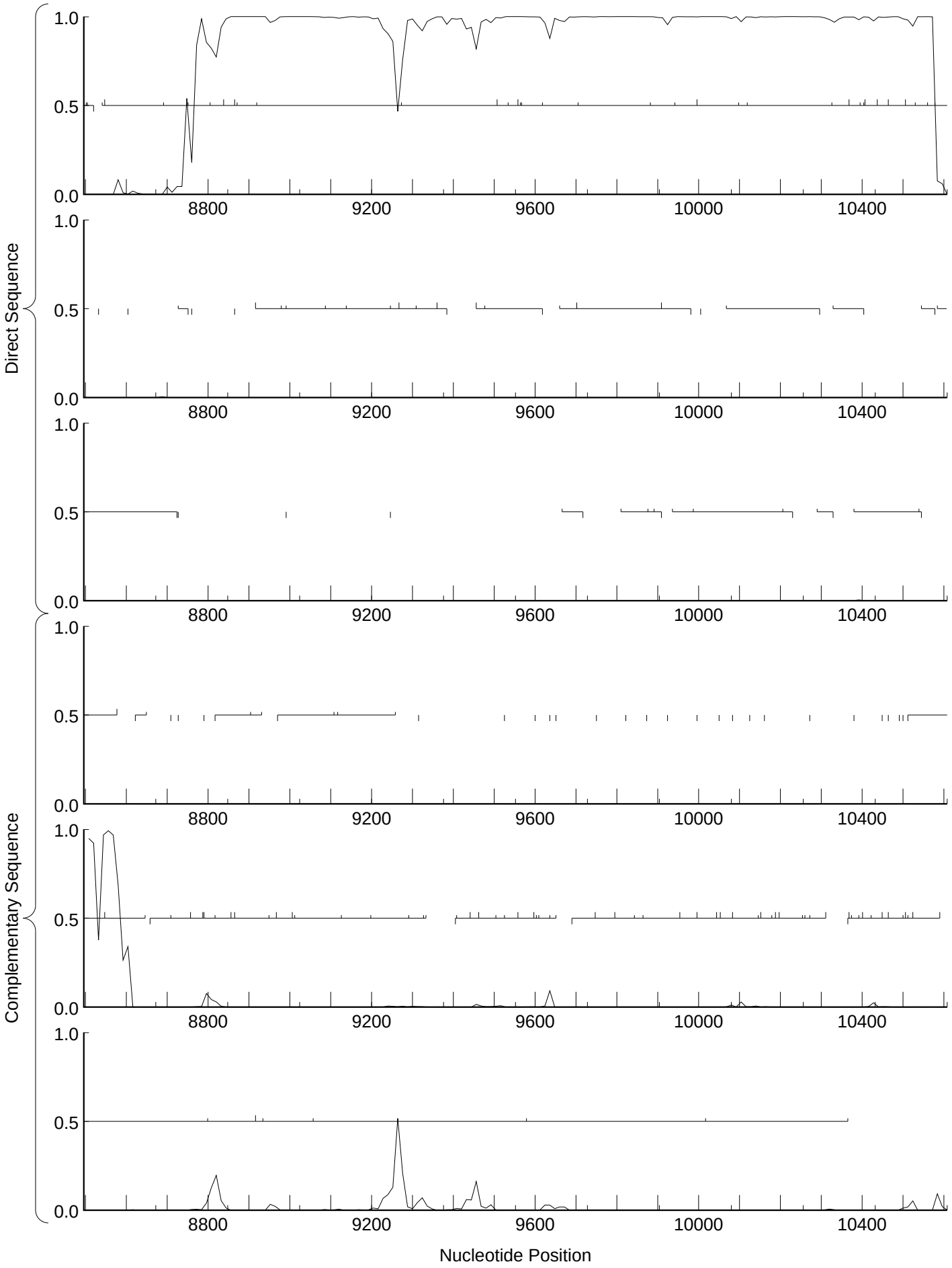
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 4/35



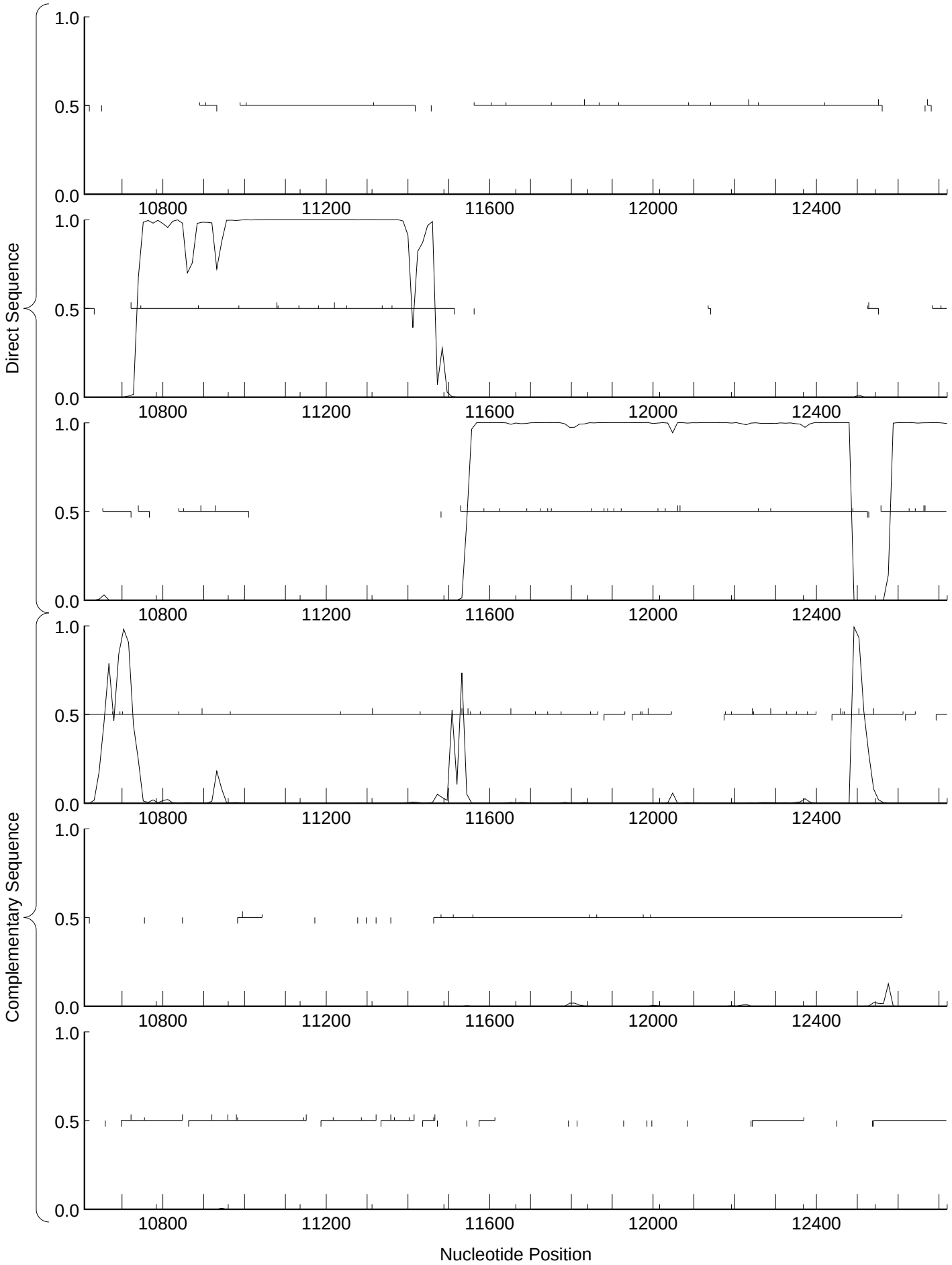
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 5/35



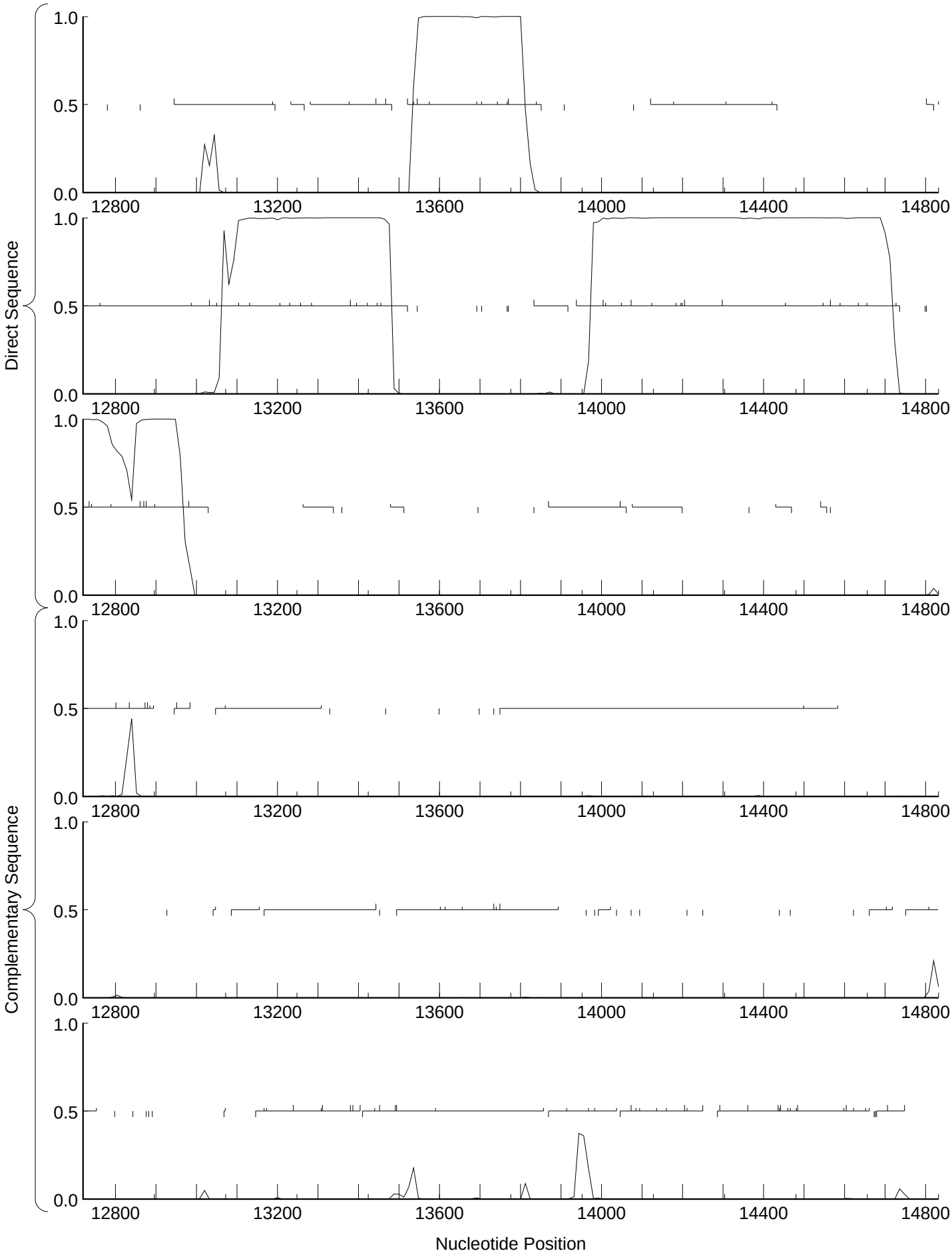
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 6/35



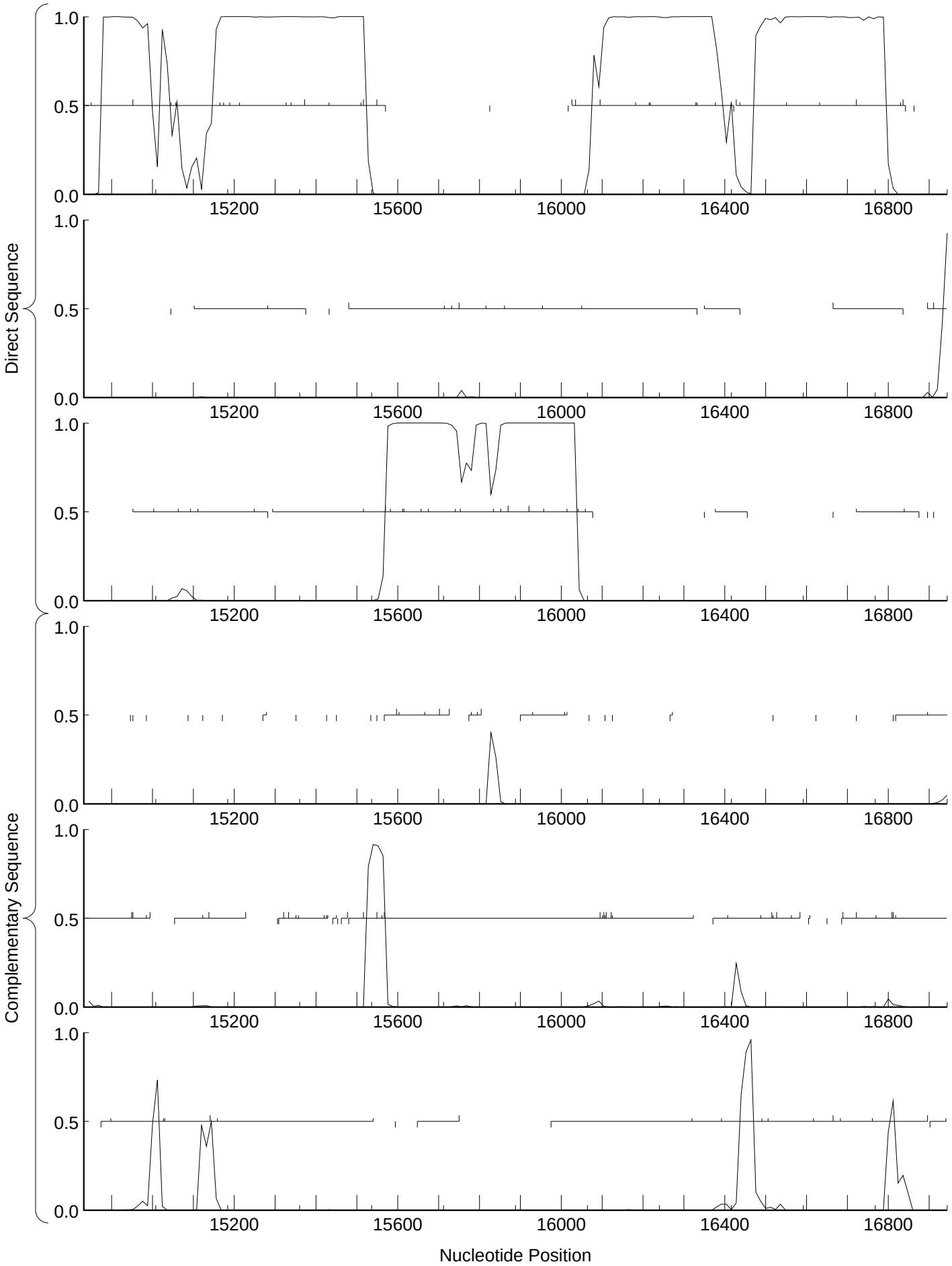
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 7/35



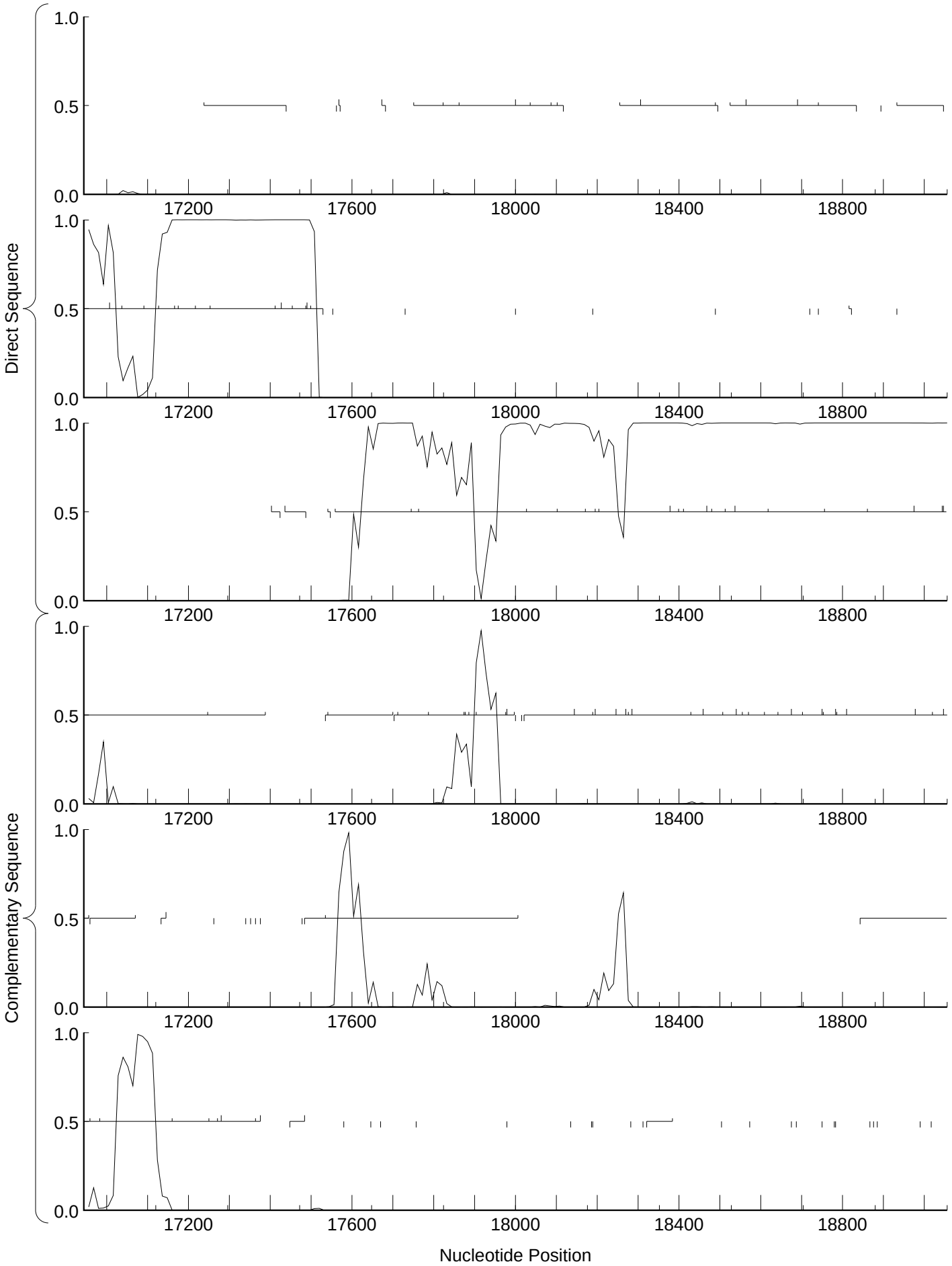
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 8/35



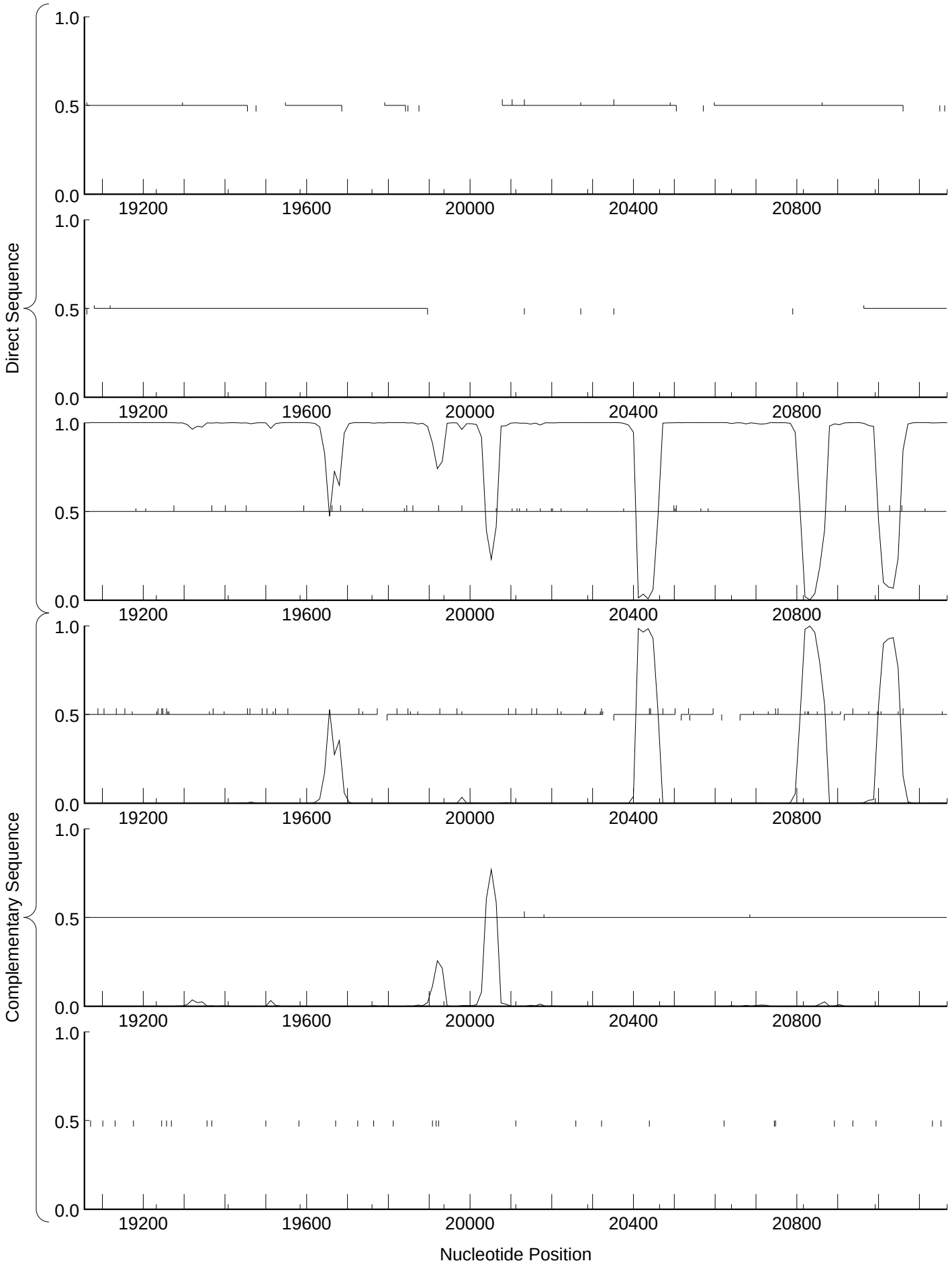
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 9/35



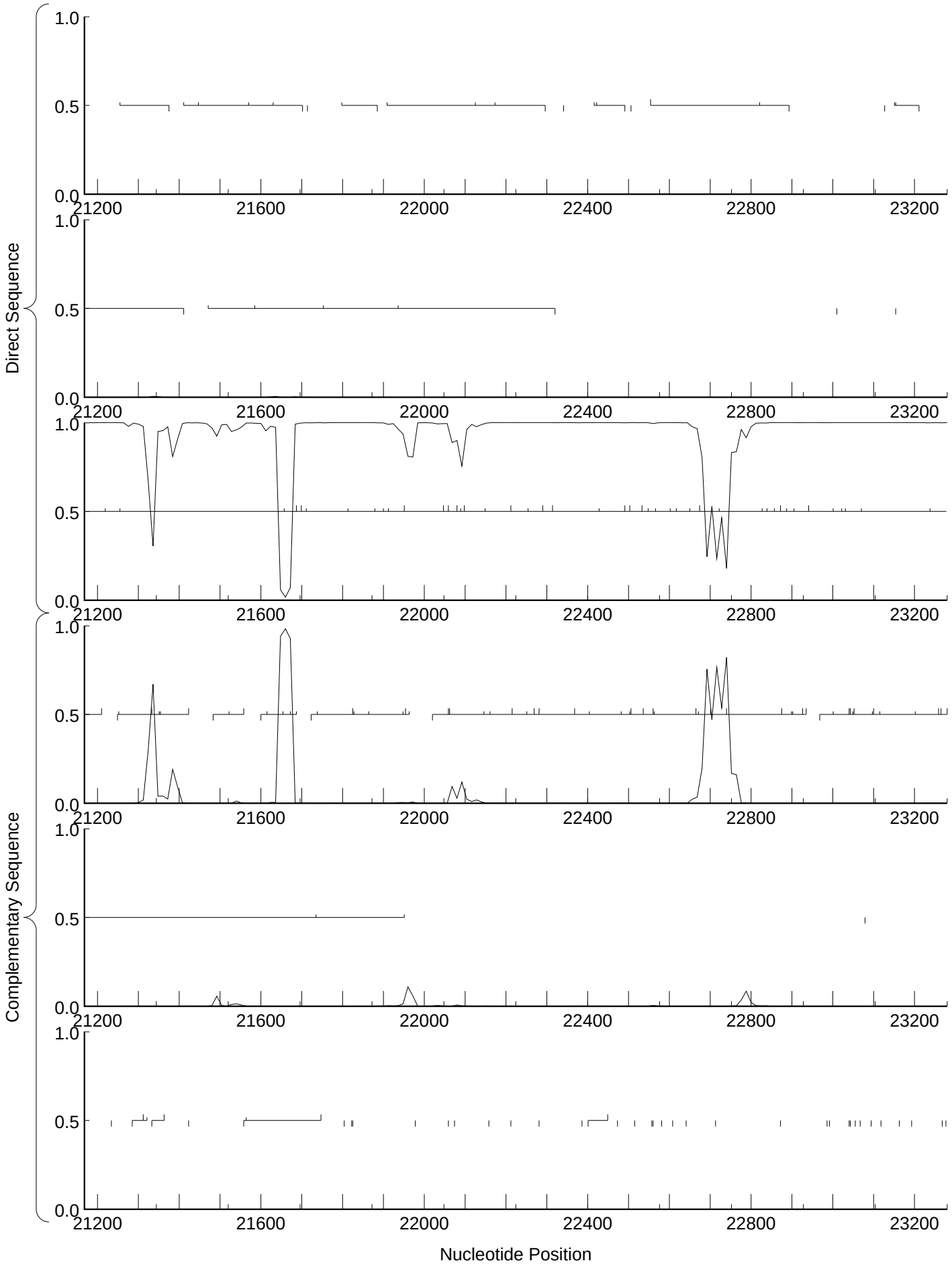
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 10/35



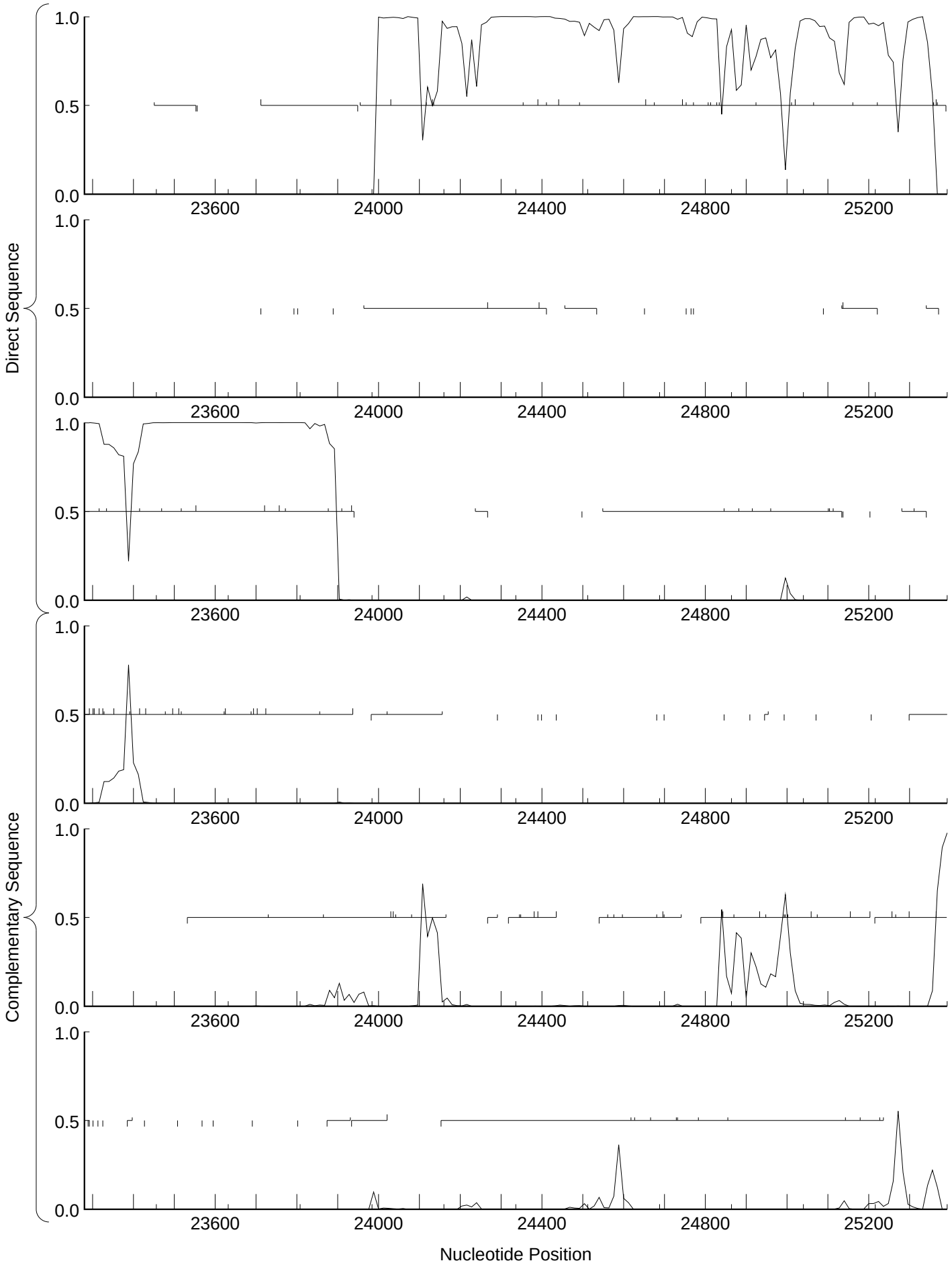
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 11/35



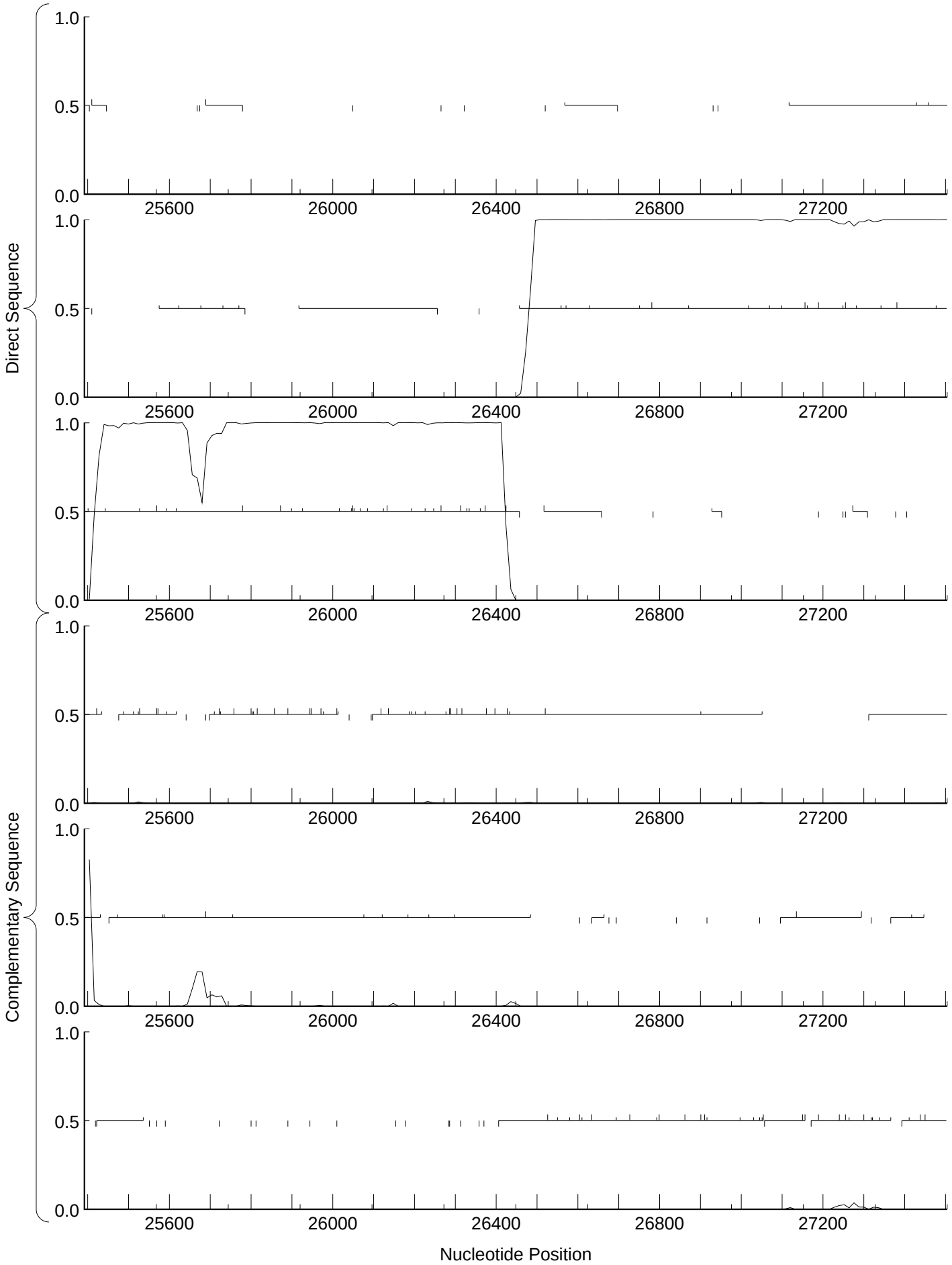
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 12/35



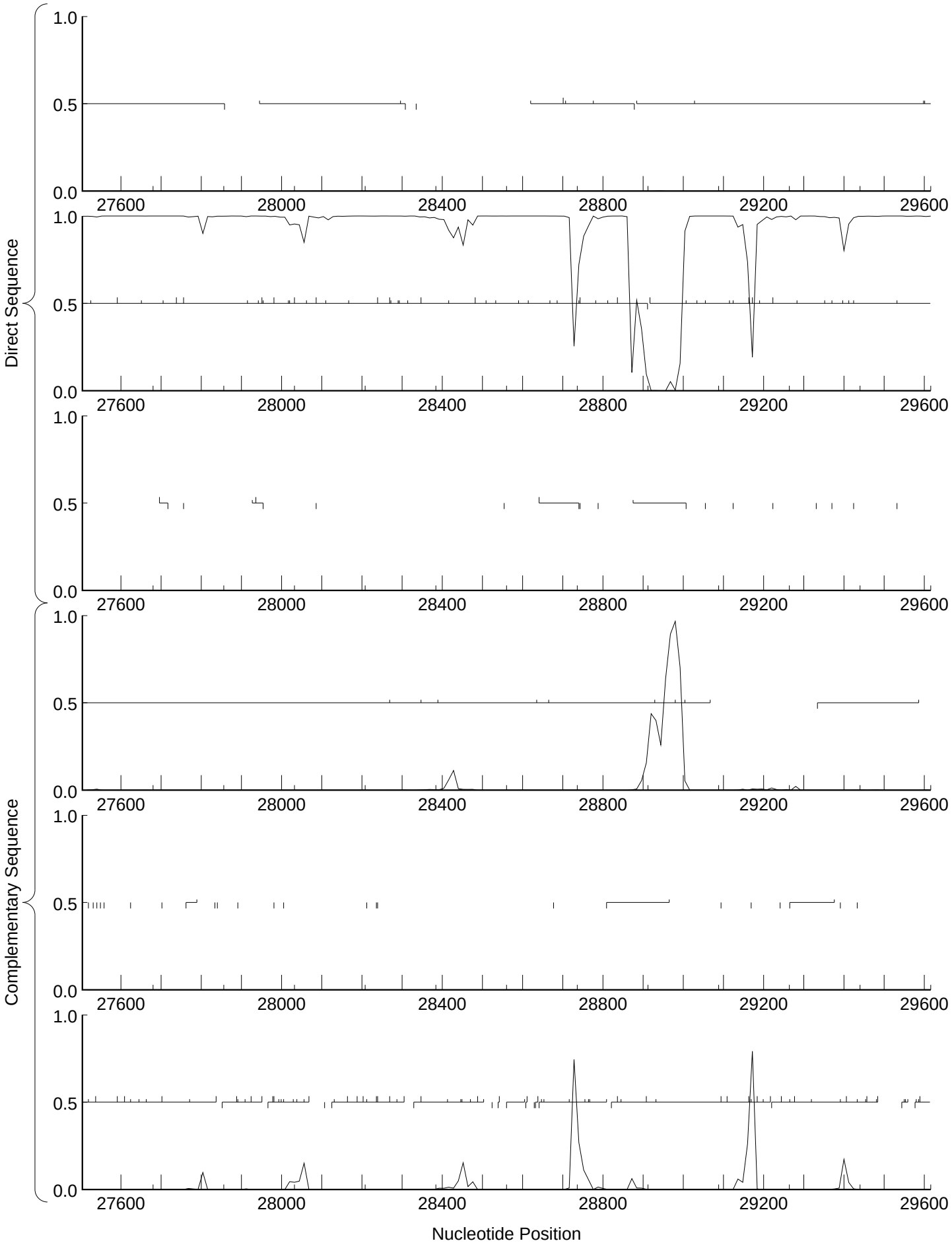
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 13/35



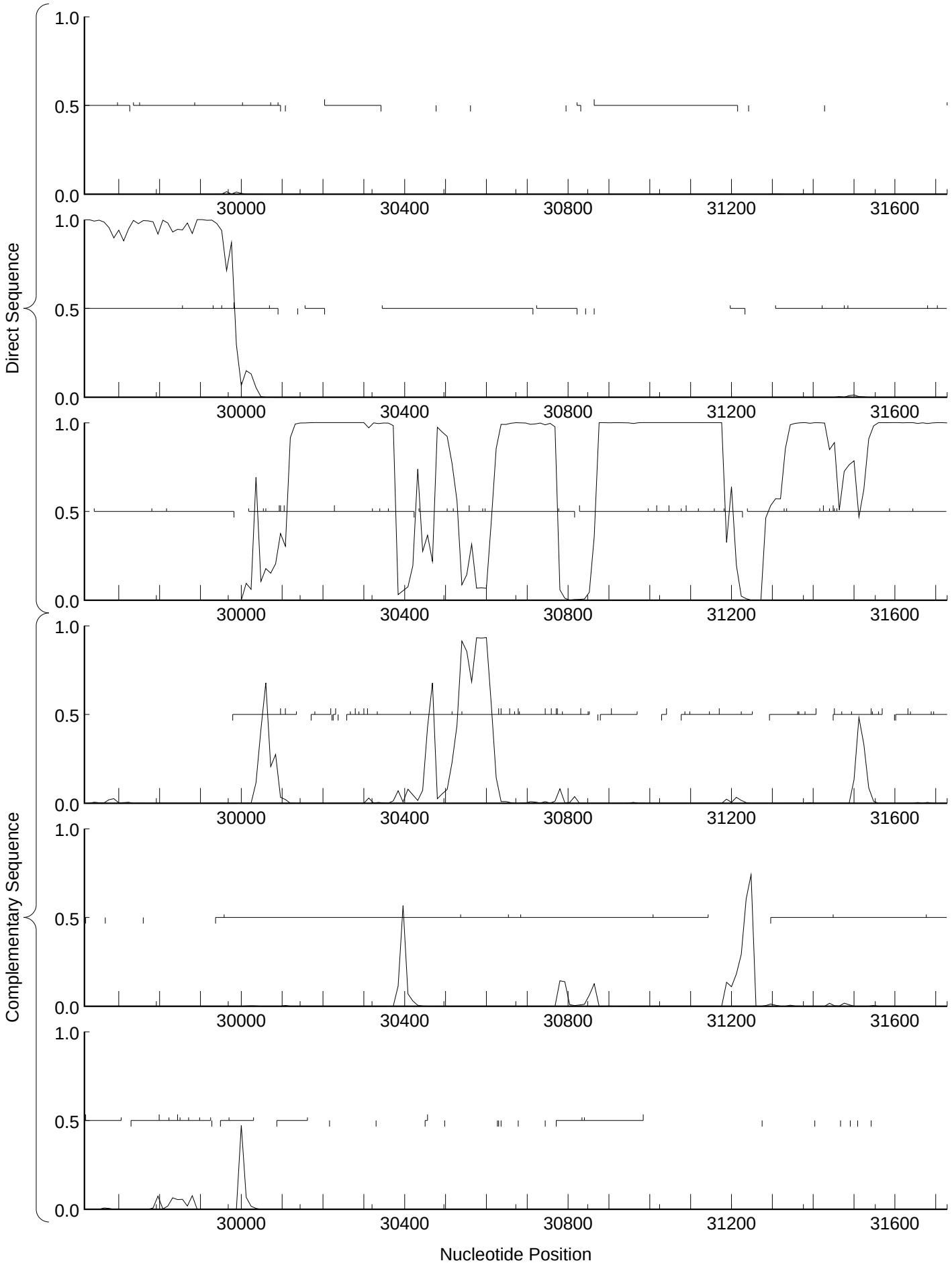
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 14/35



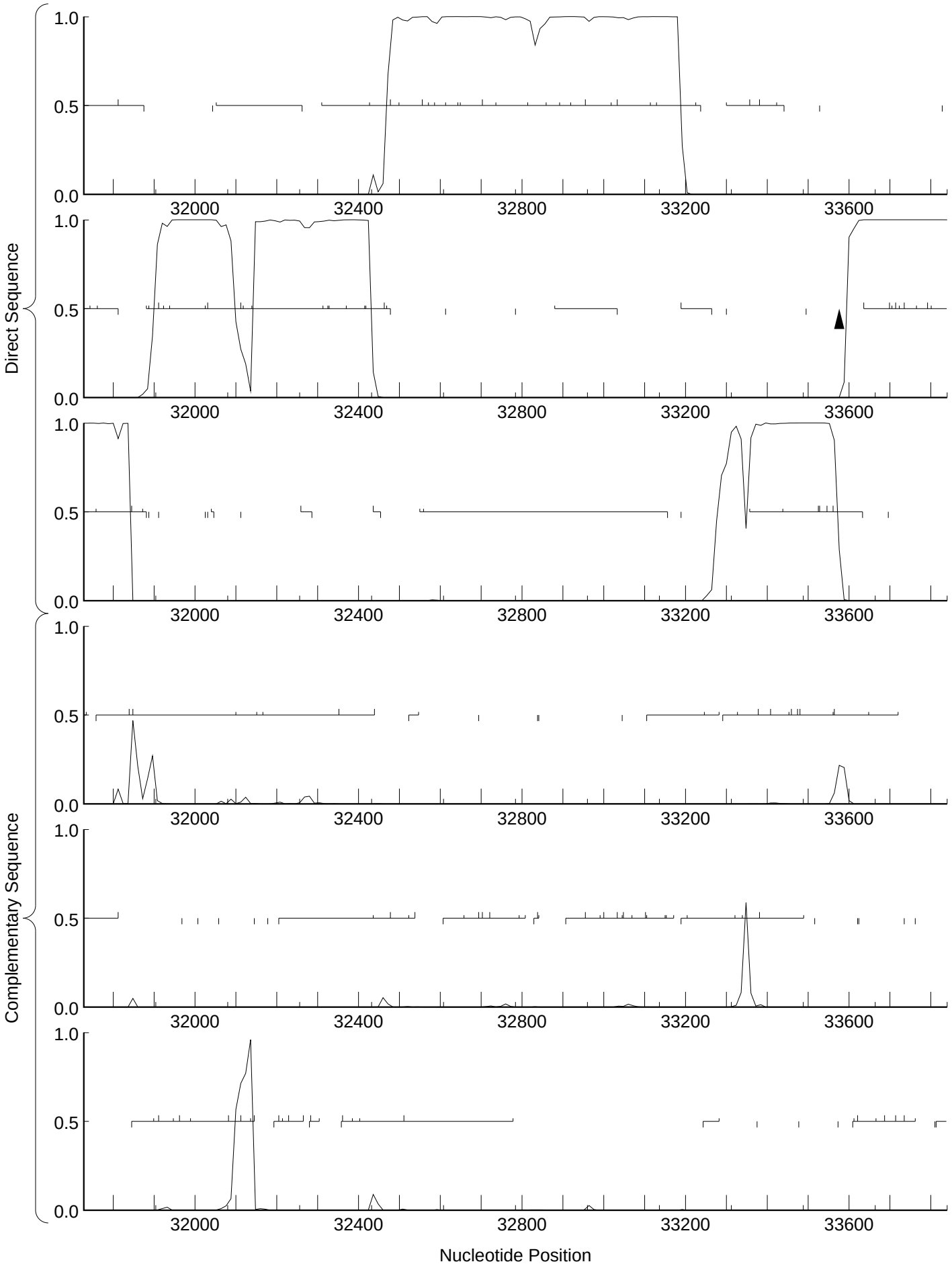
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 15/35



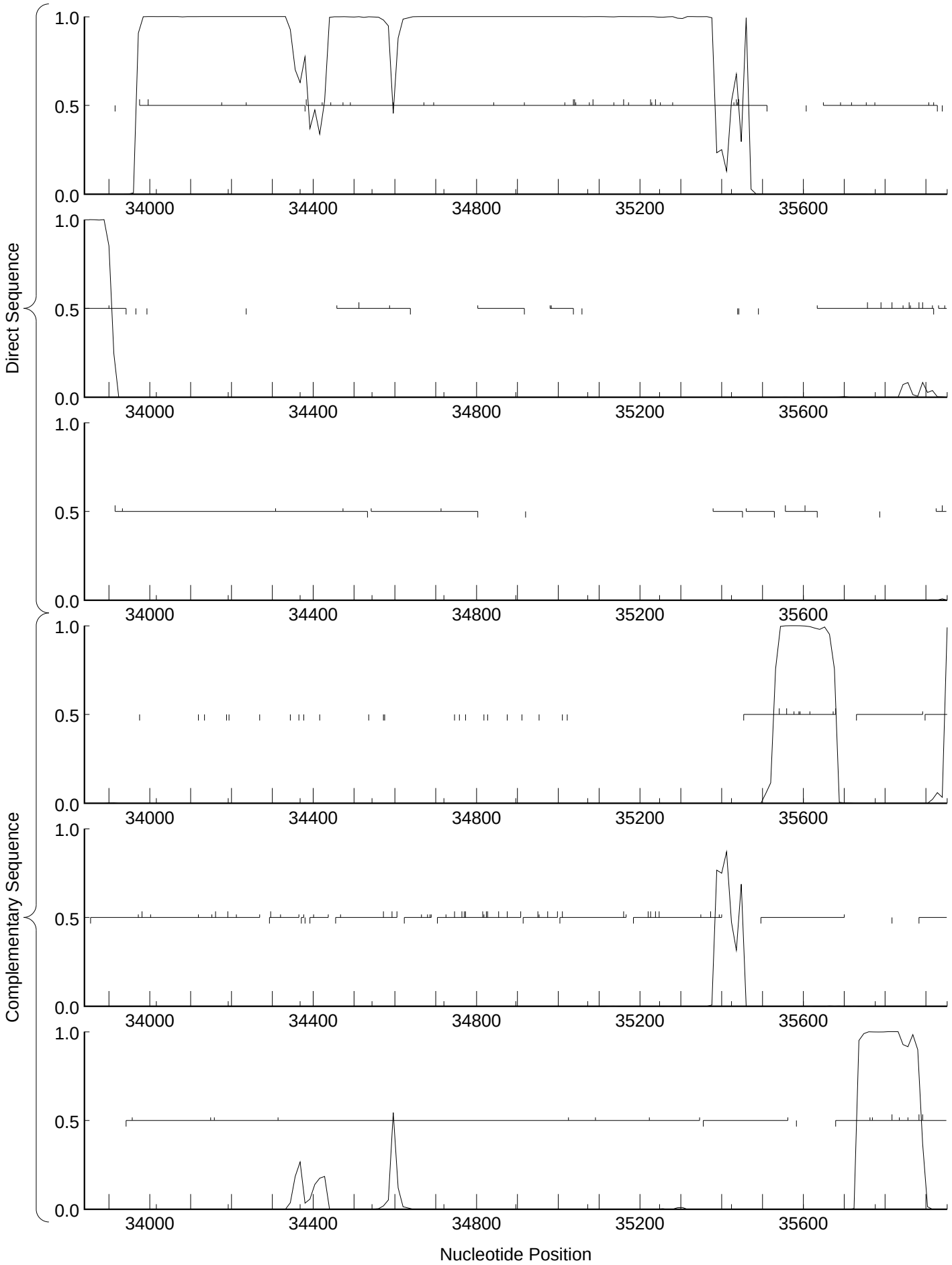
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 16/35



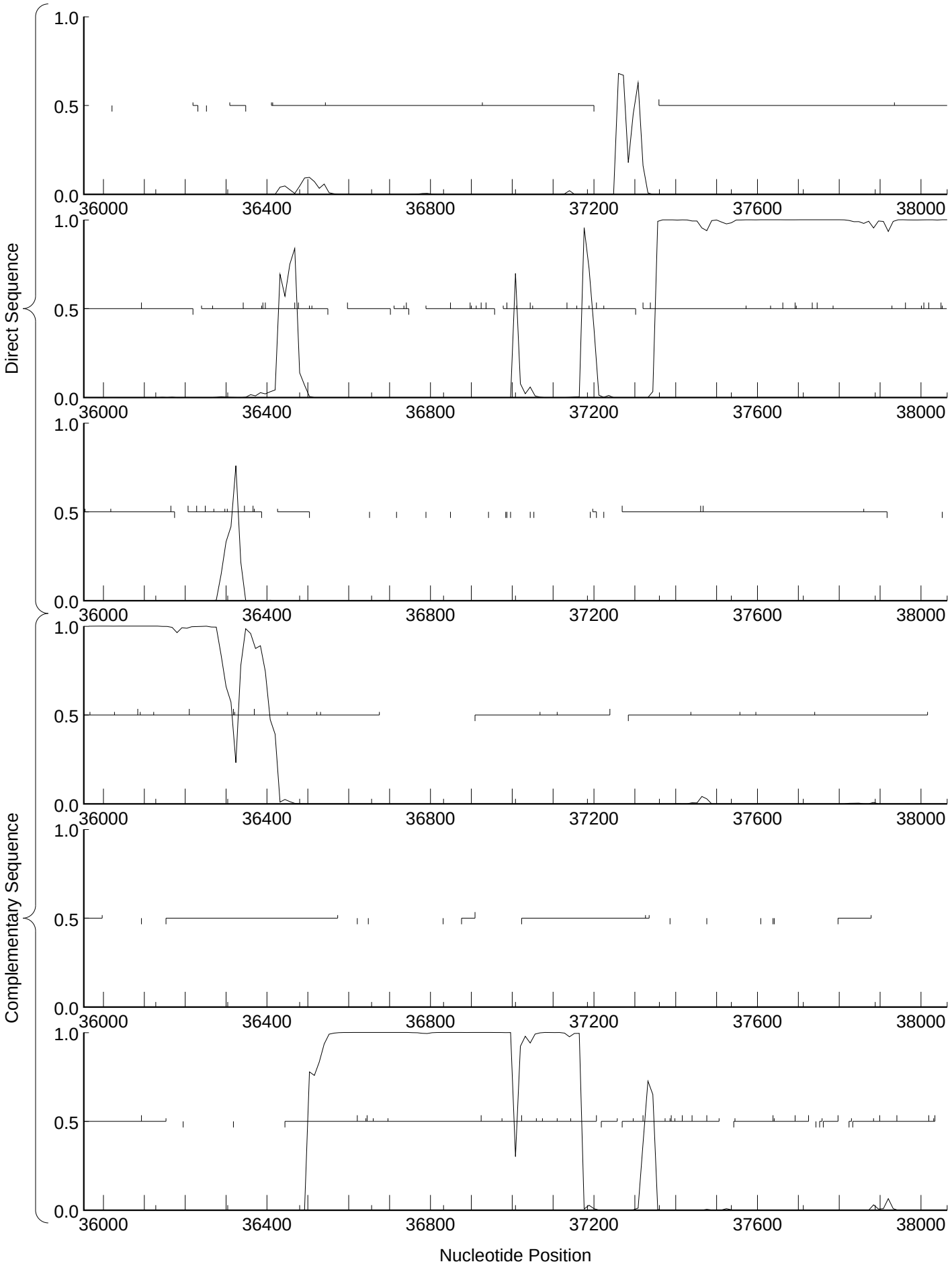
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 17/35

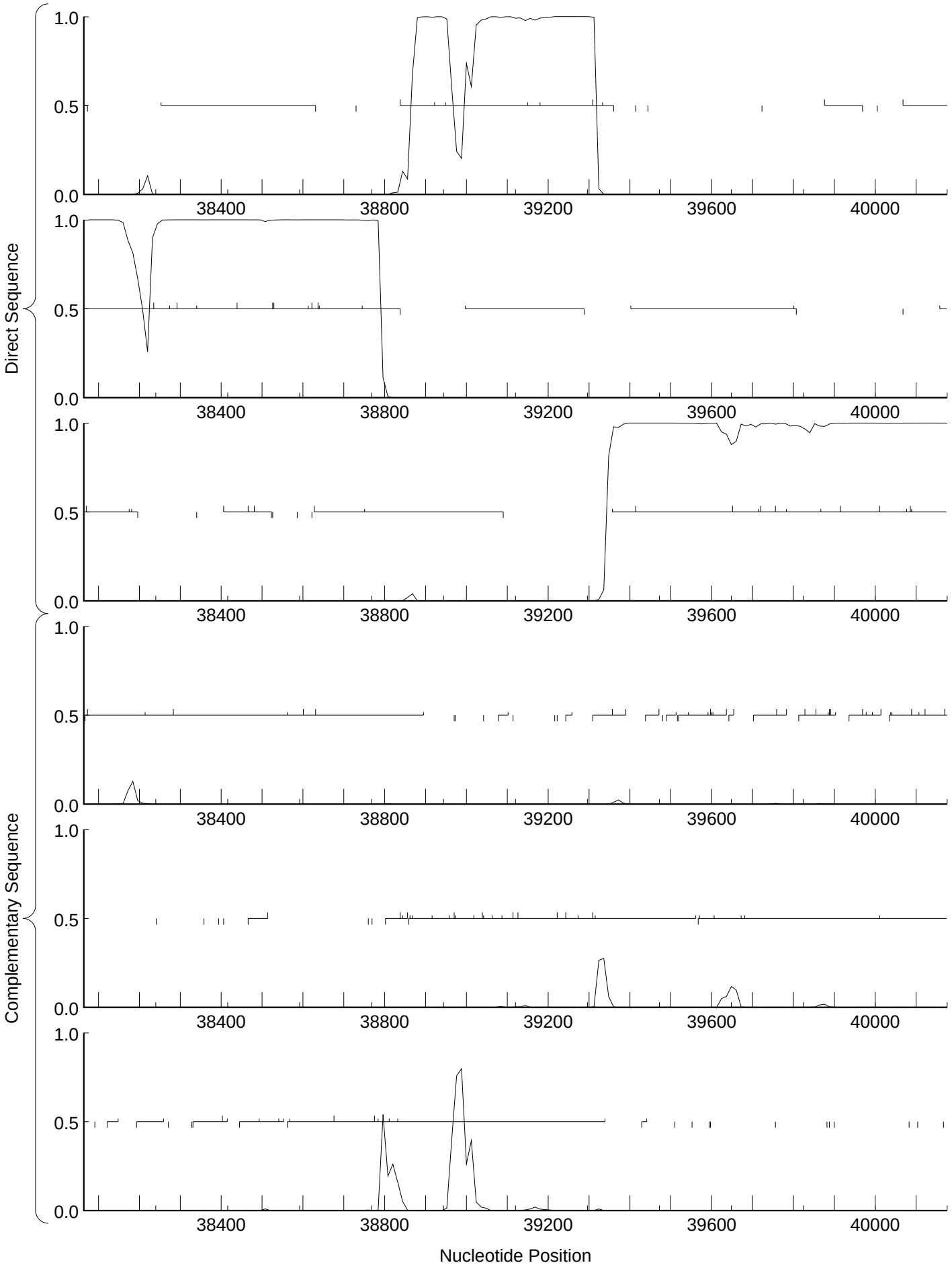


Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 18/35

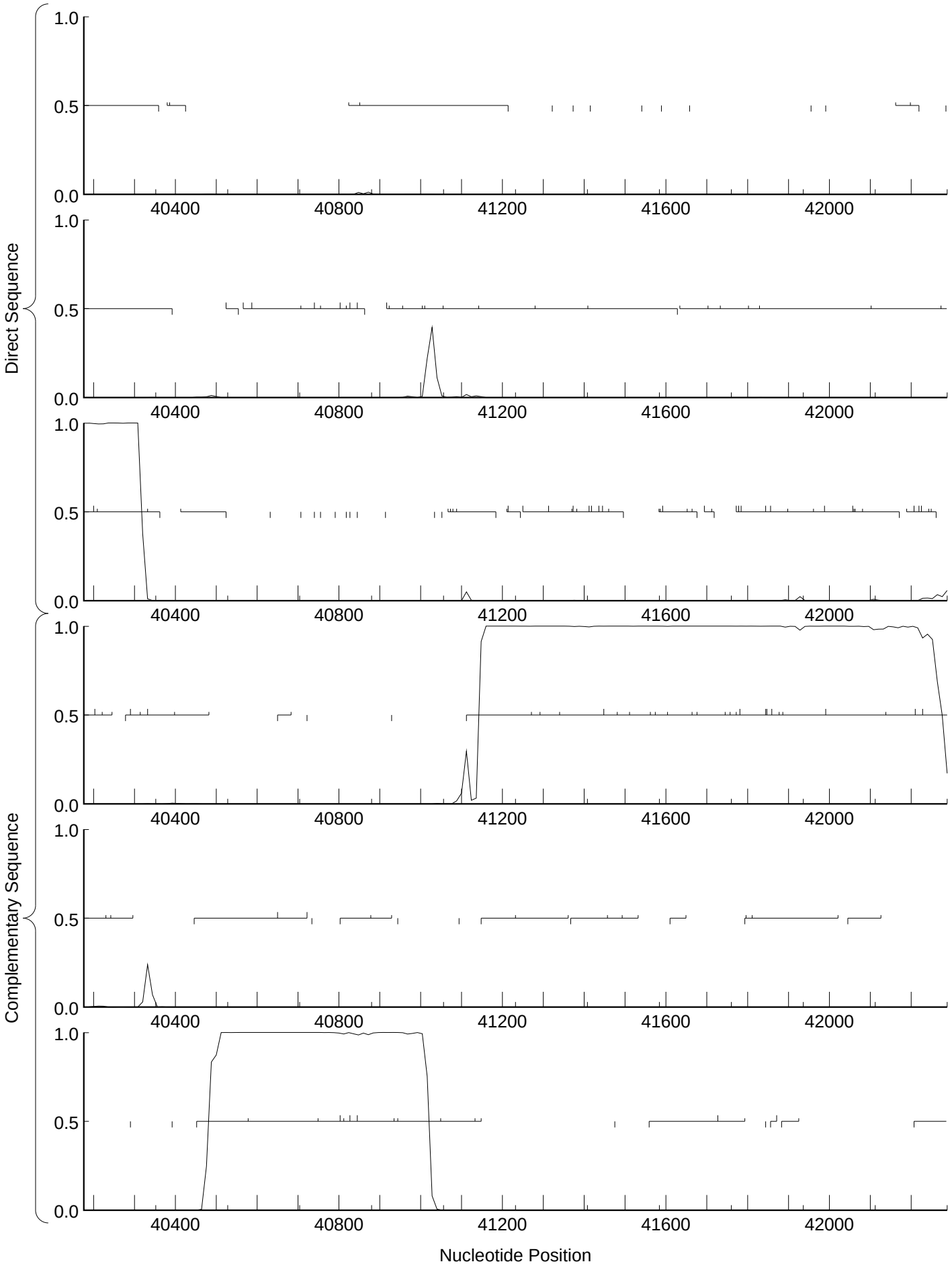


Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 19/35

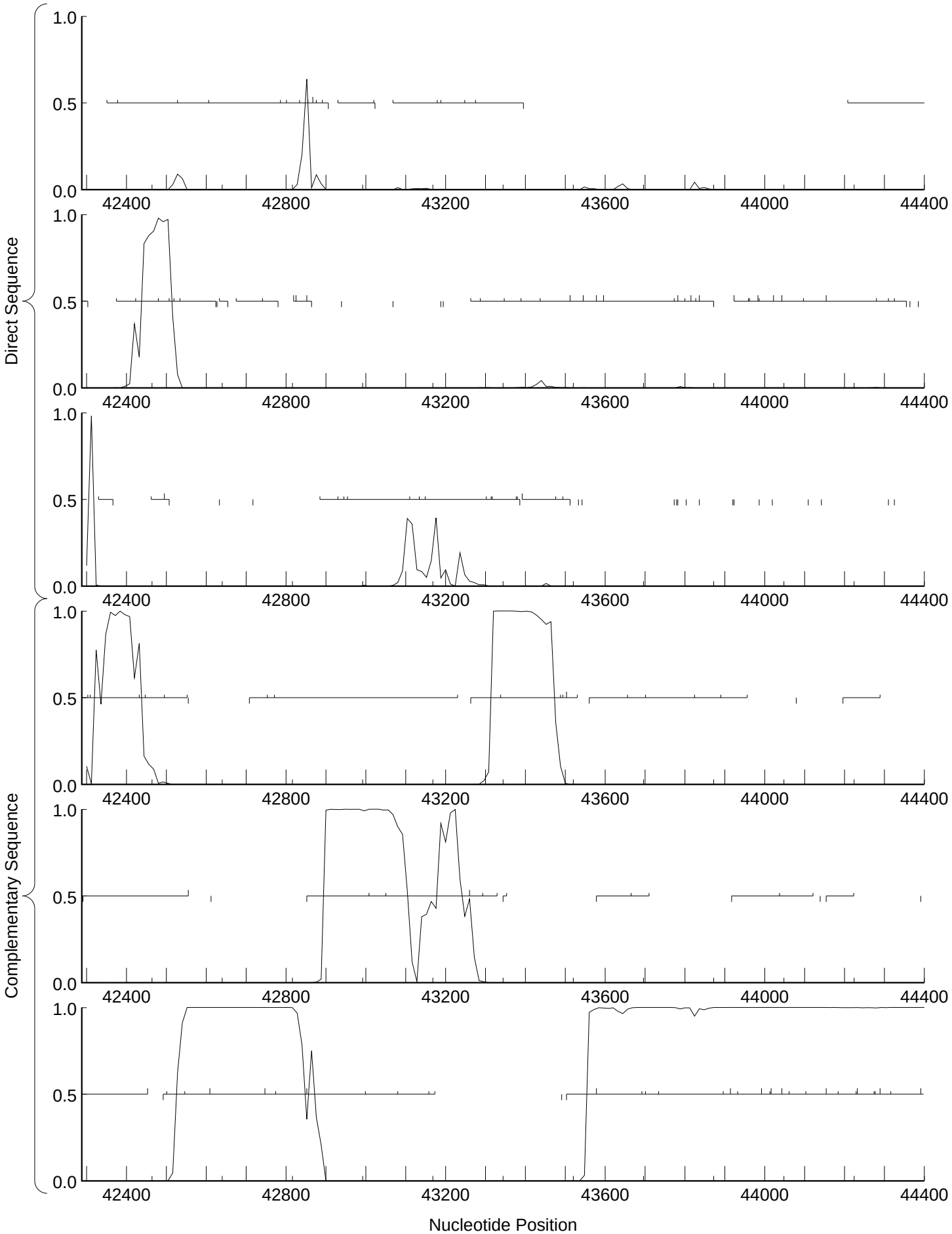


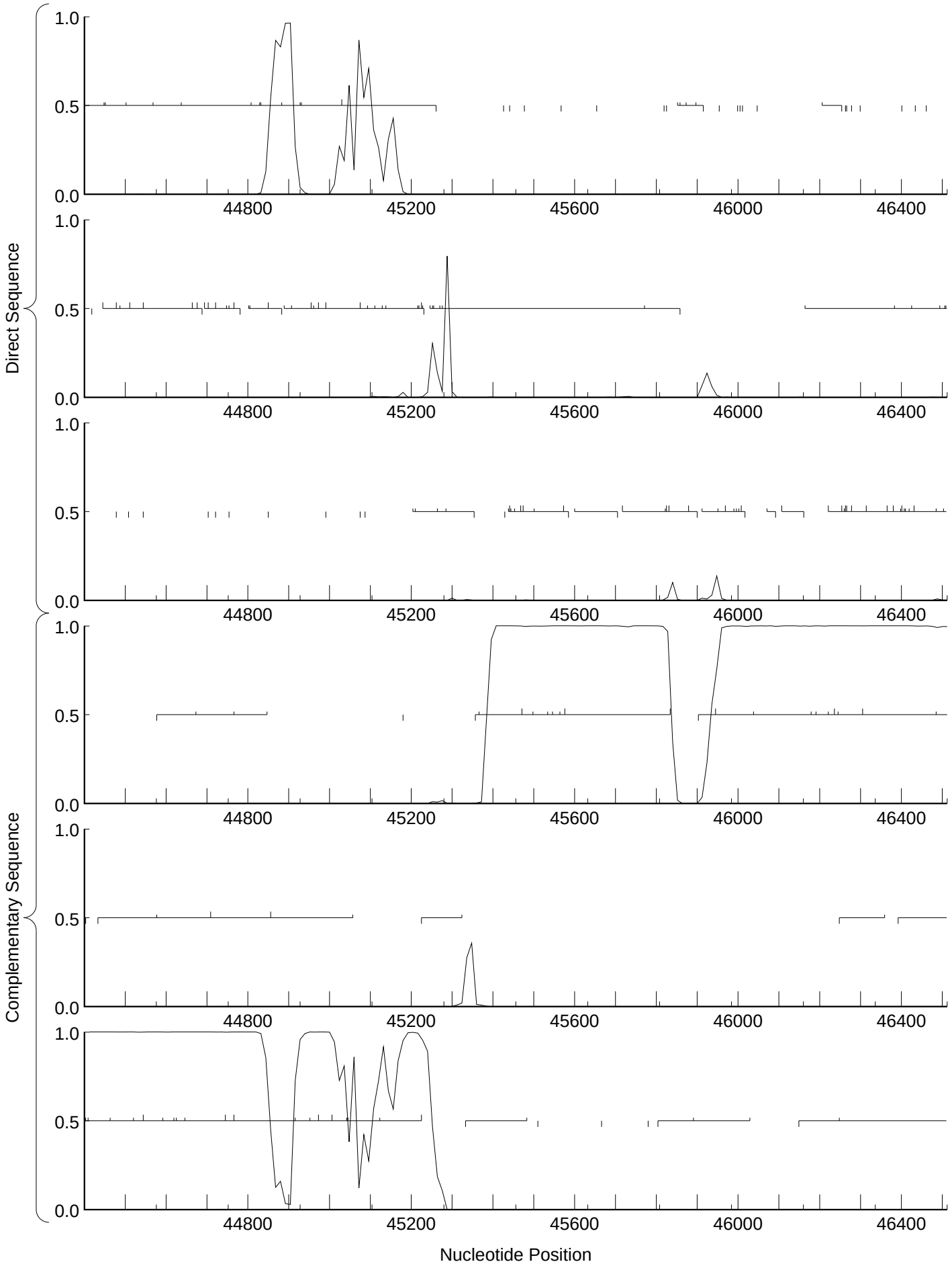

Direct Sequence
Complementary Sequence
1.0
0.5
0.0
38400
38800
39200
39600
40000
Nucleotide Position

Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 21/35

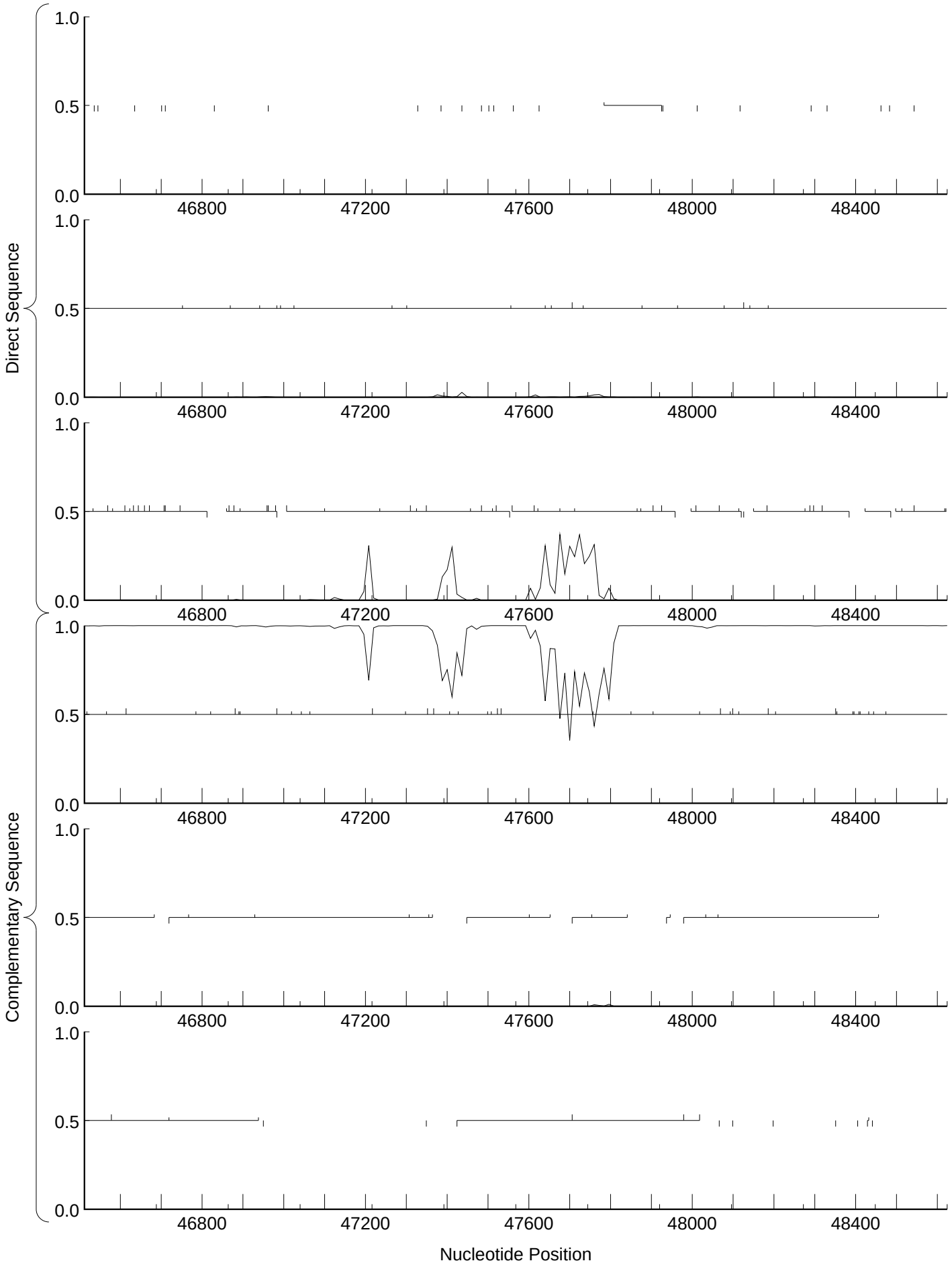


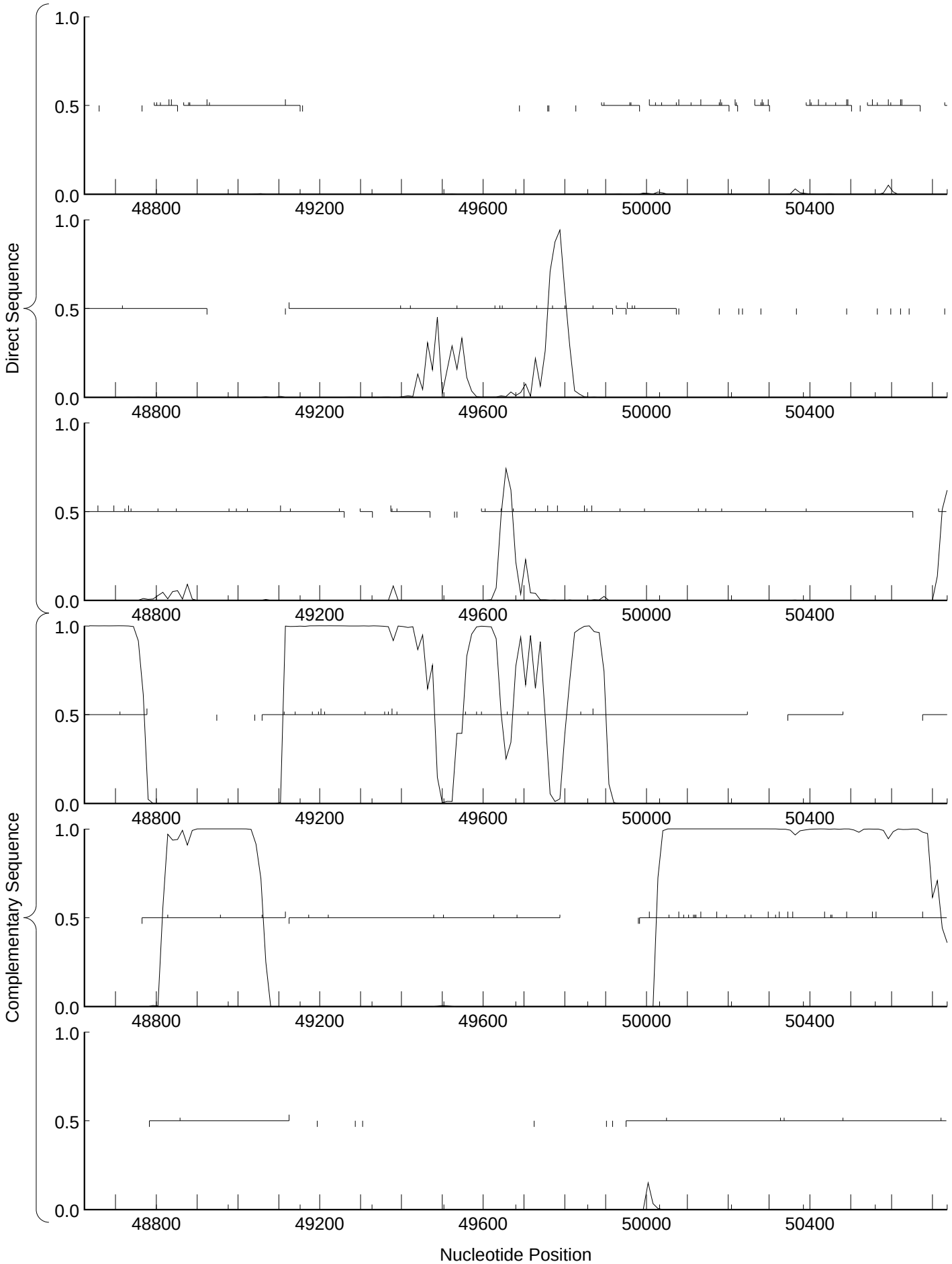
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 22/35

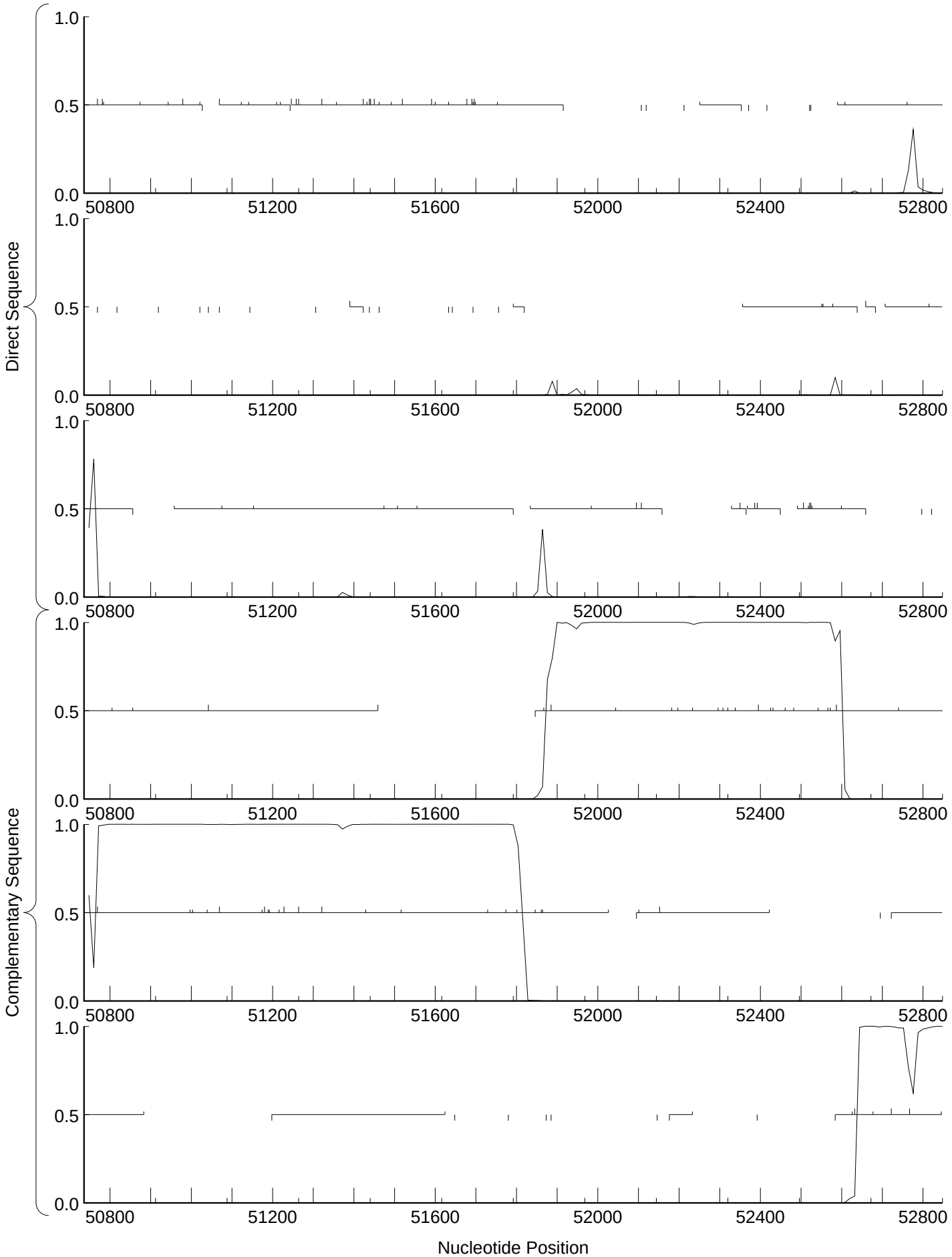



Direct Sequence
Complementary Sequence
1.0
0.5
0.0
44800
45200
45600
46000
46400
Nucleotide Position

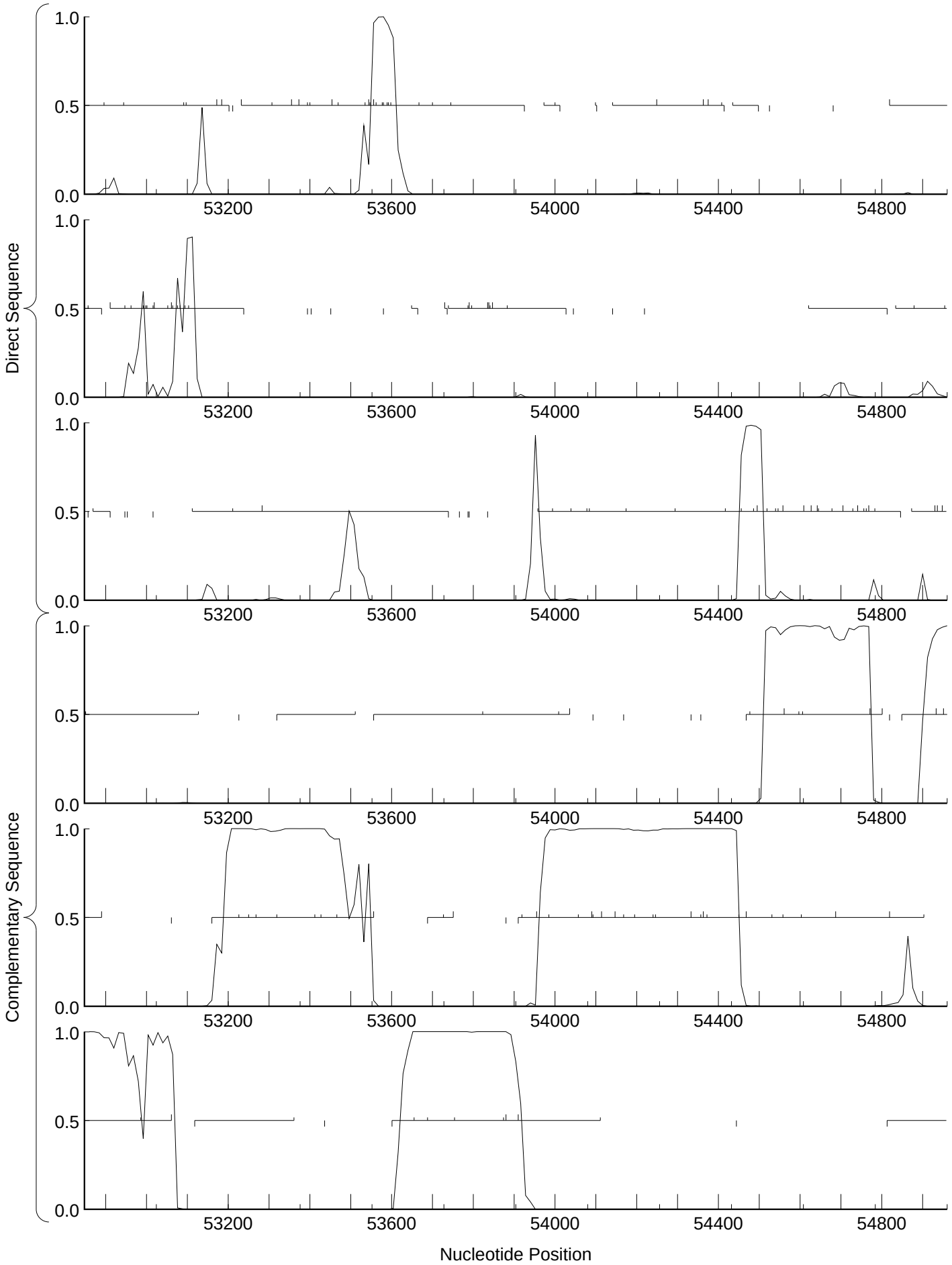
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 24/35

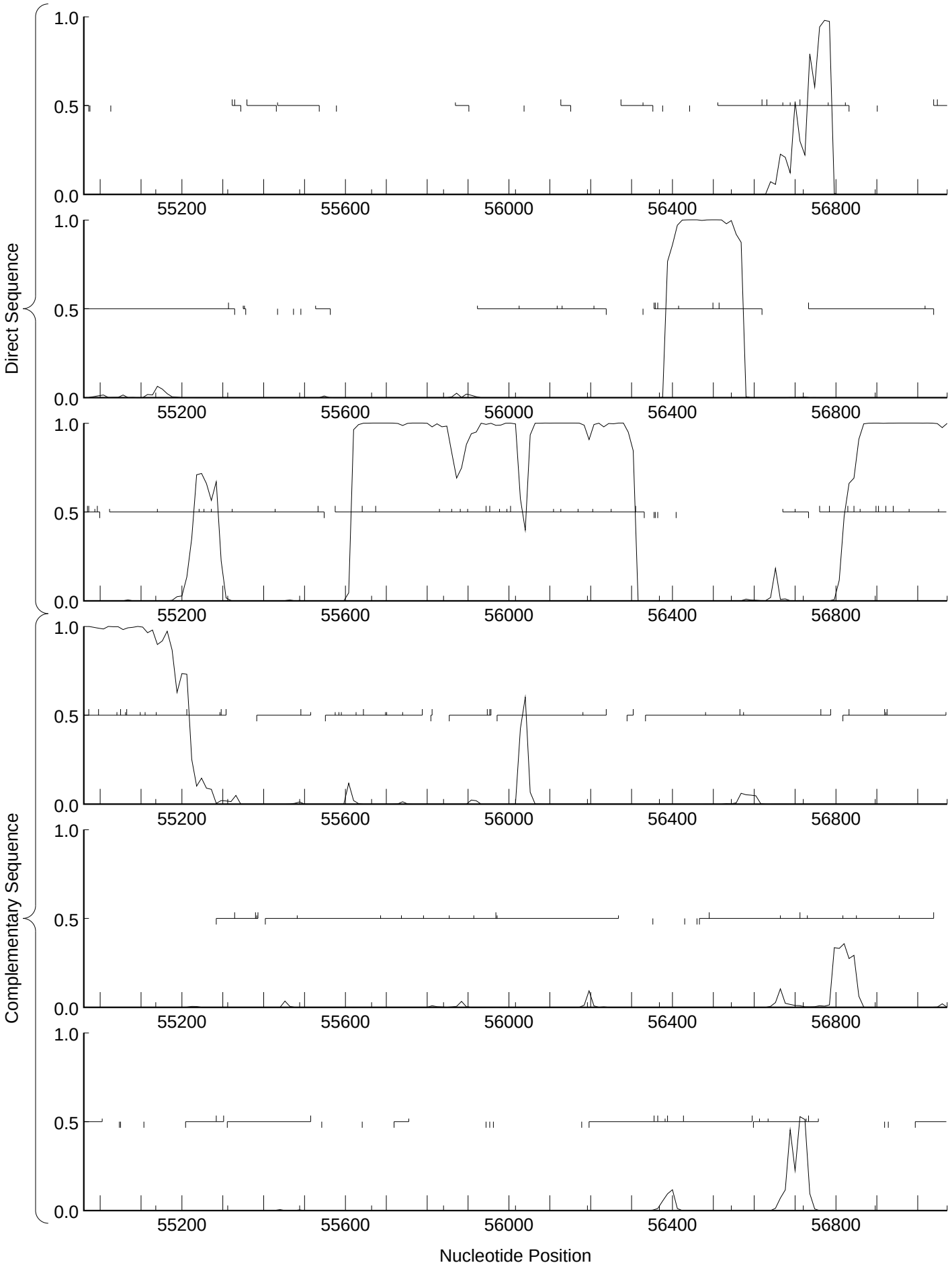



Direct Sequence
Complementary Sequence
1.0
0.5
0.0
48800
49200
49600
50000
50400
Nucleotide Position

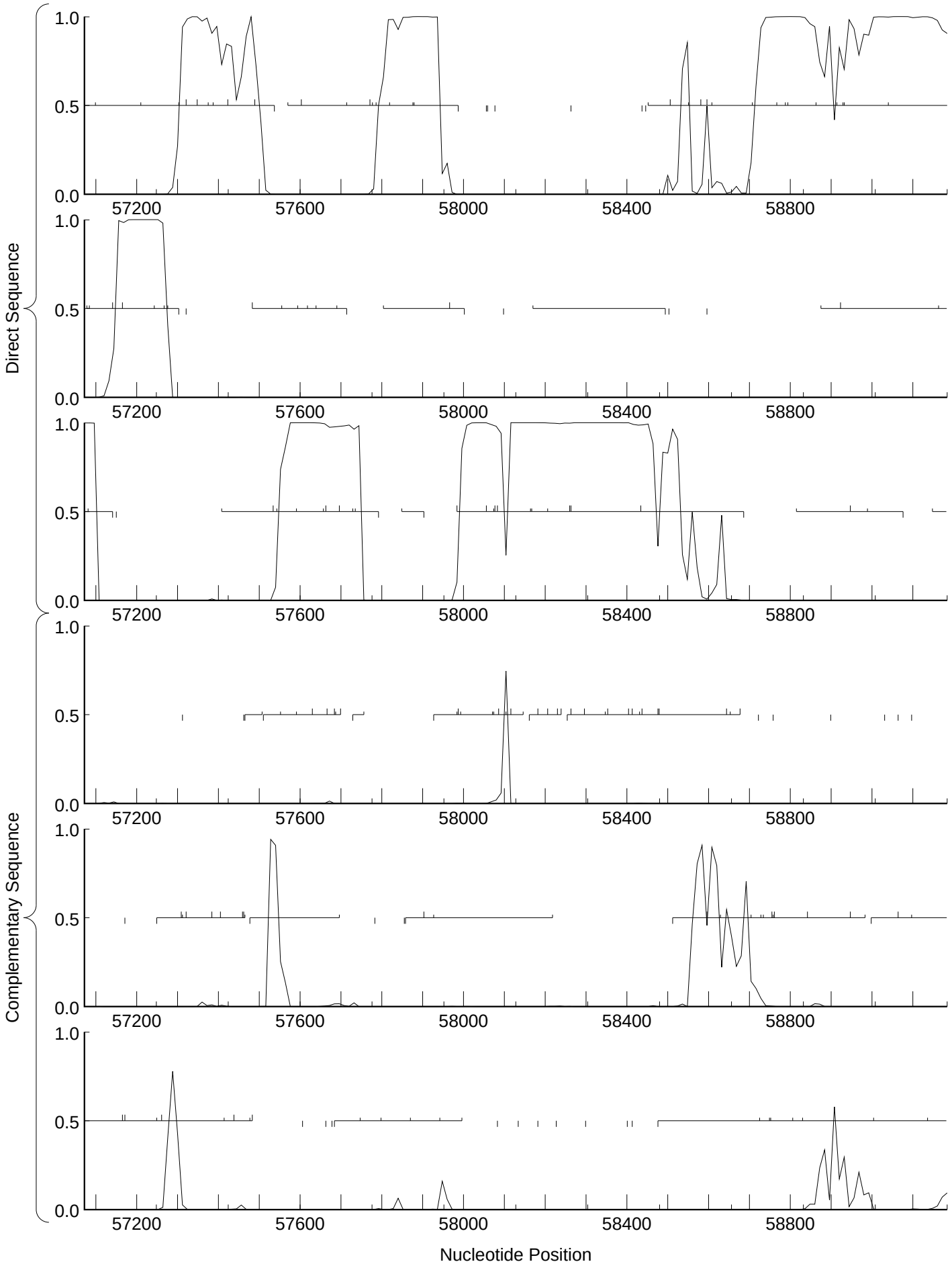

Direct Sequence
Complementary Sequence
1.0
0.5
0.0
50800
51200
51600
52000
52400
52800
Nucleotide Position

lycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 27/35

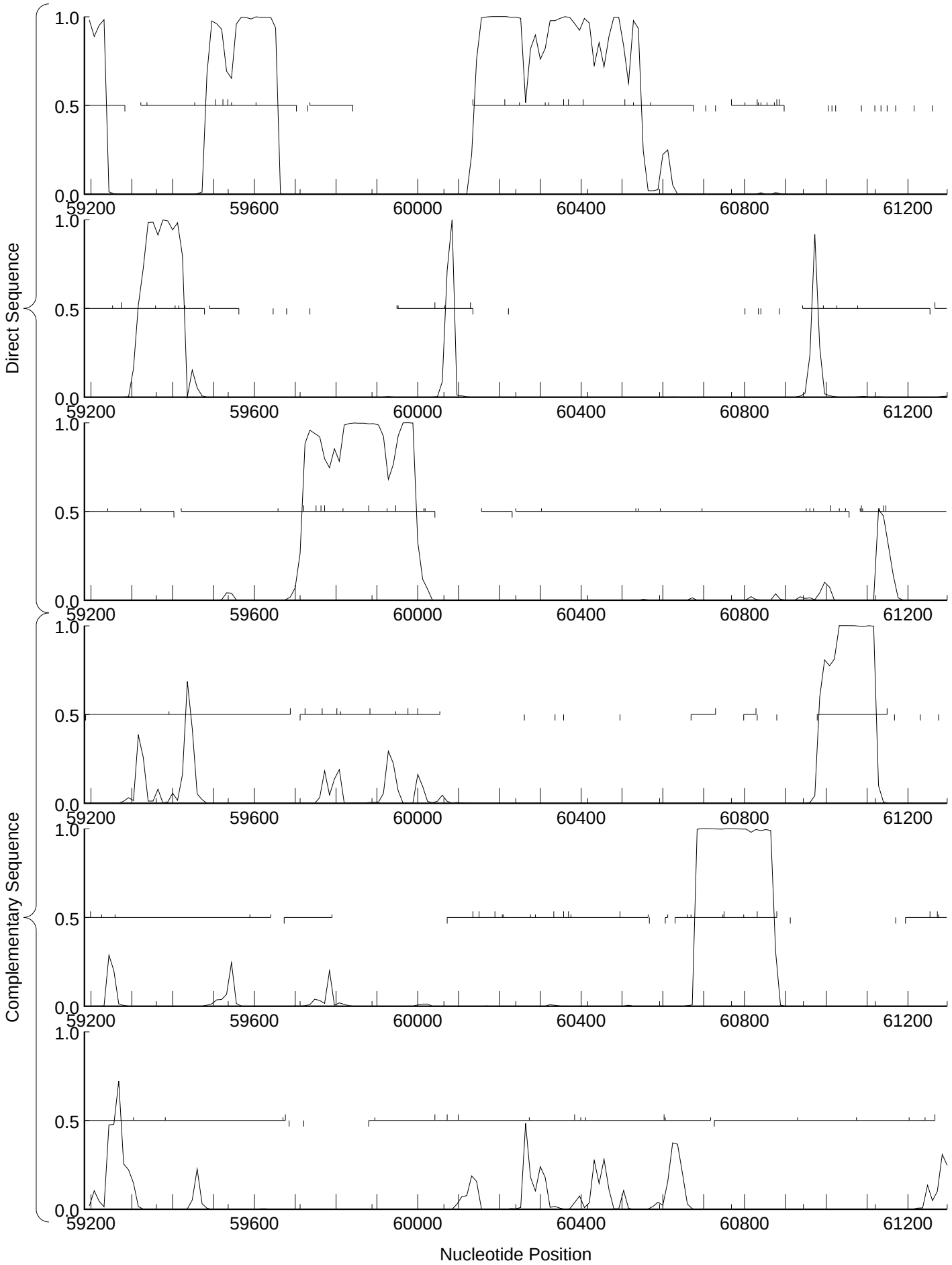



Direct Sequence
Complementary Sequence
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0.5
0.0
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55600
56000
56400
56800
Nucleotide Position

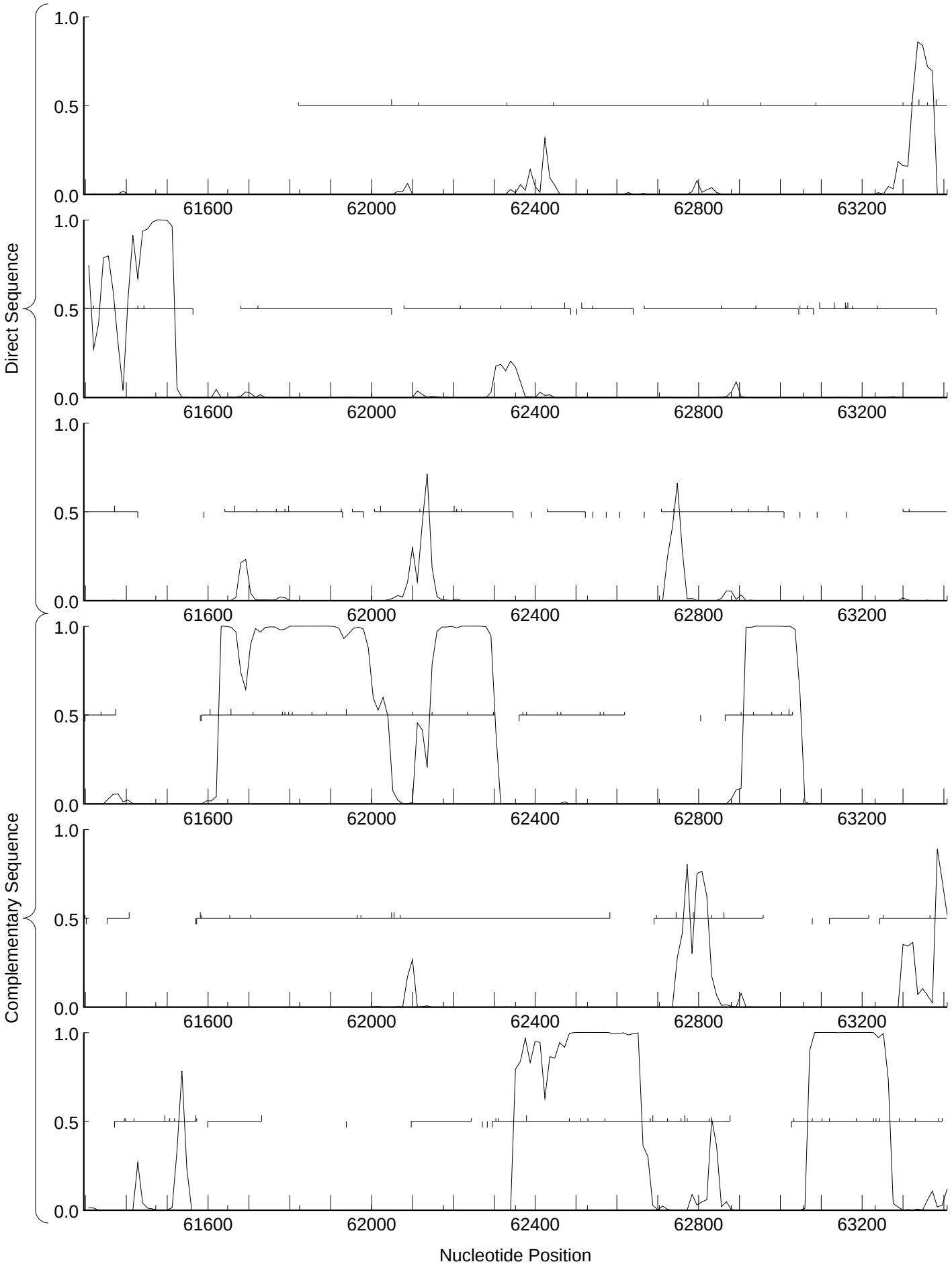
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 29/35



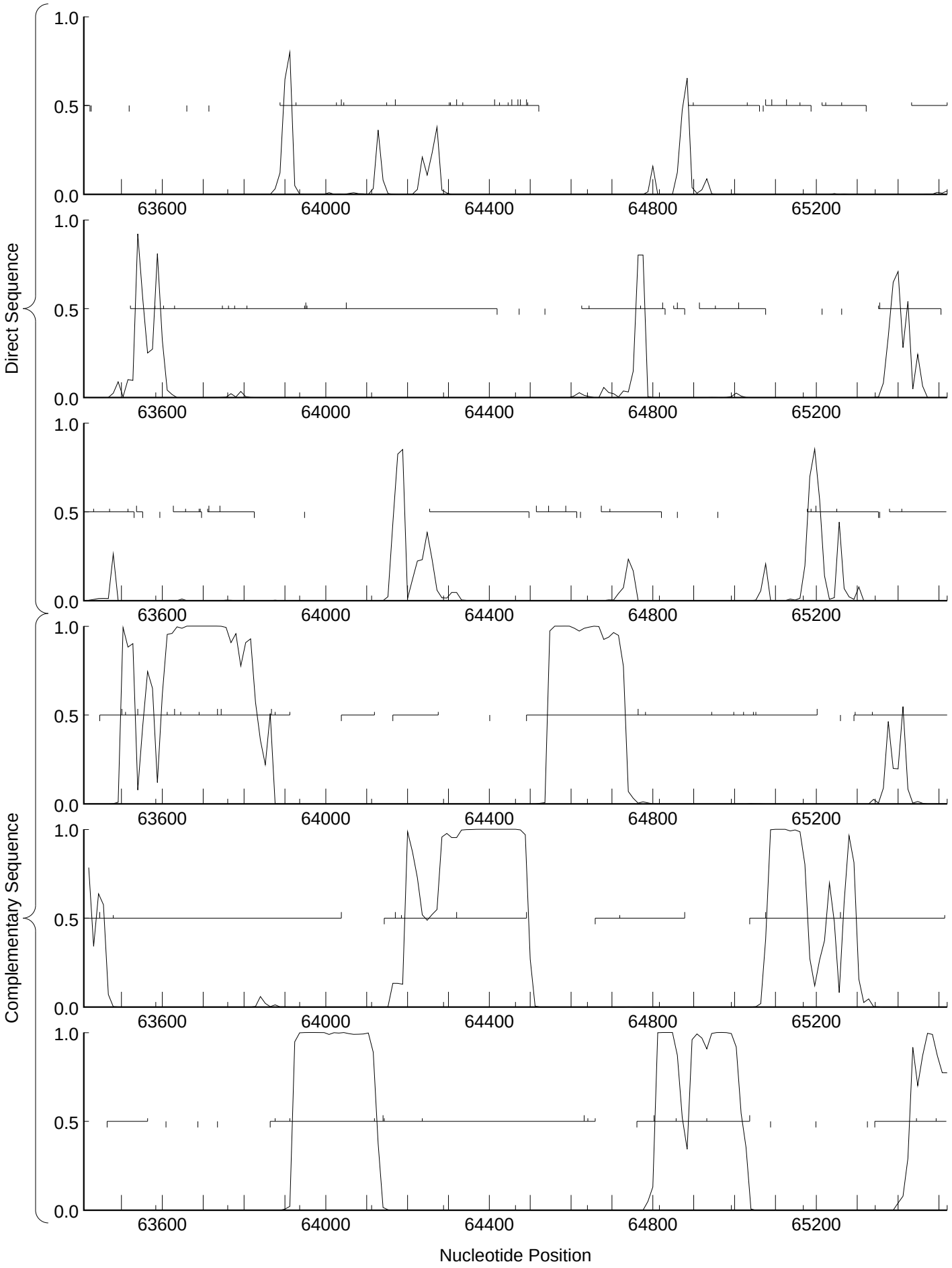
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 30/35



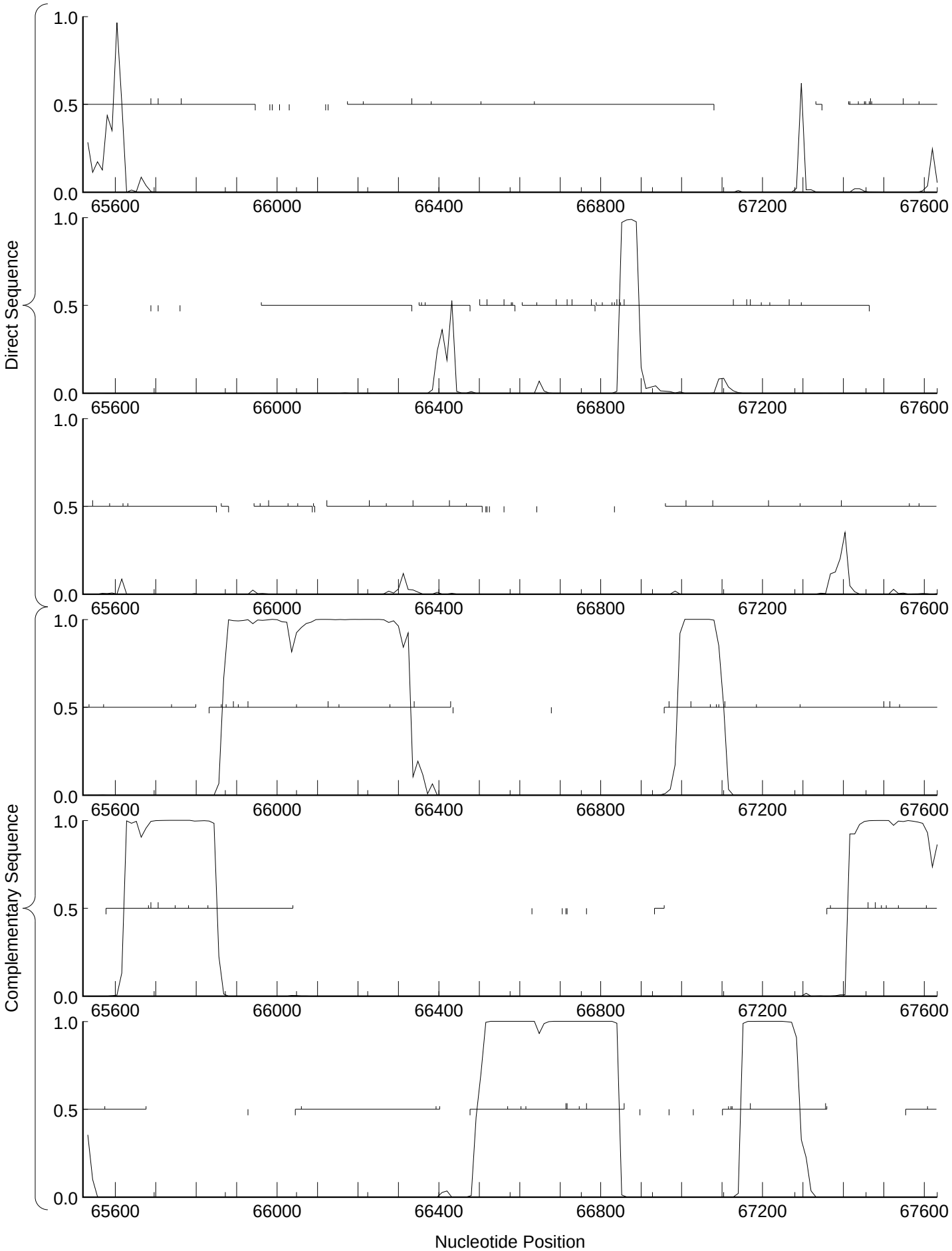
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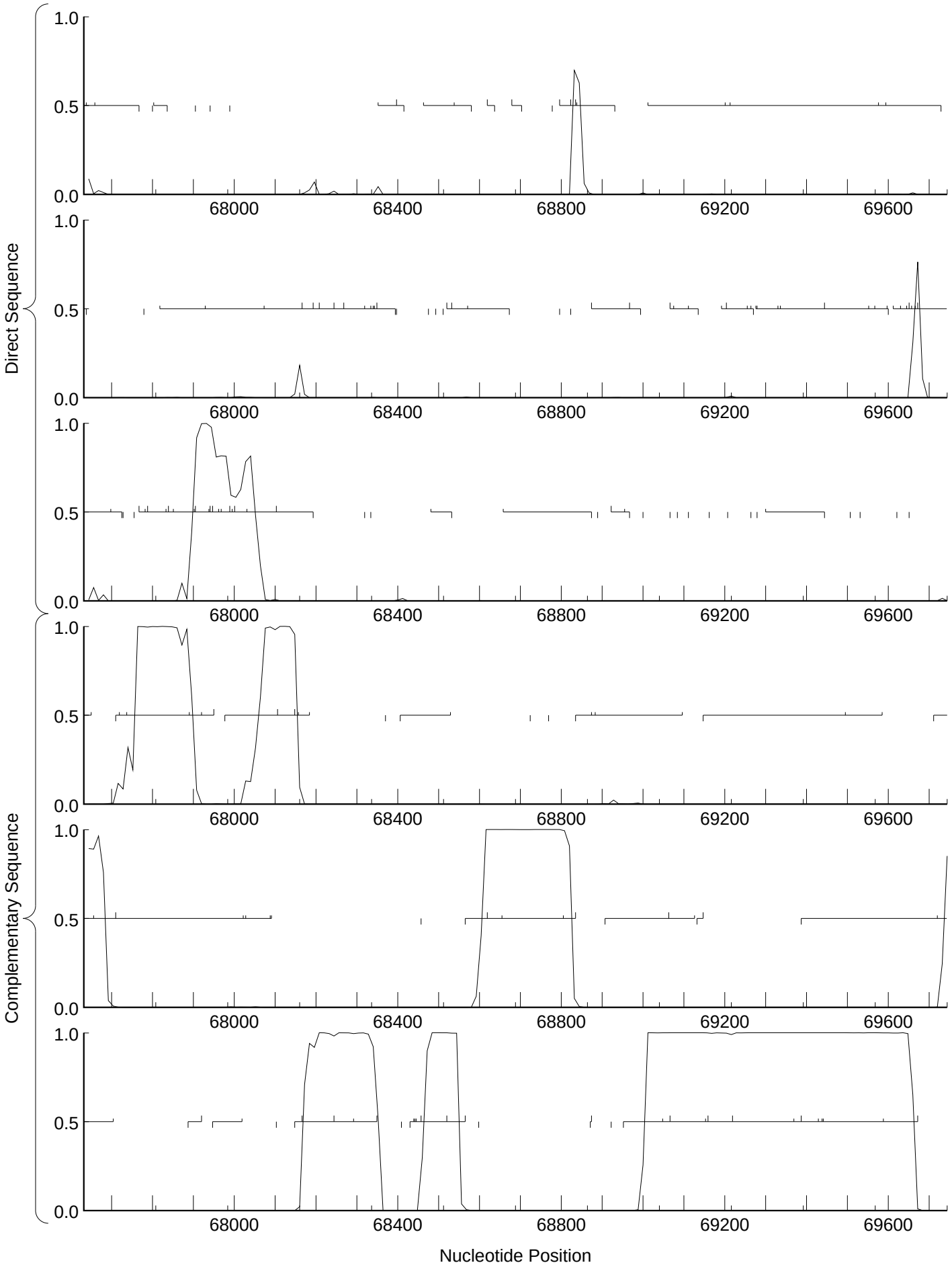


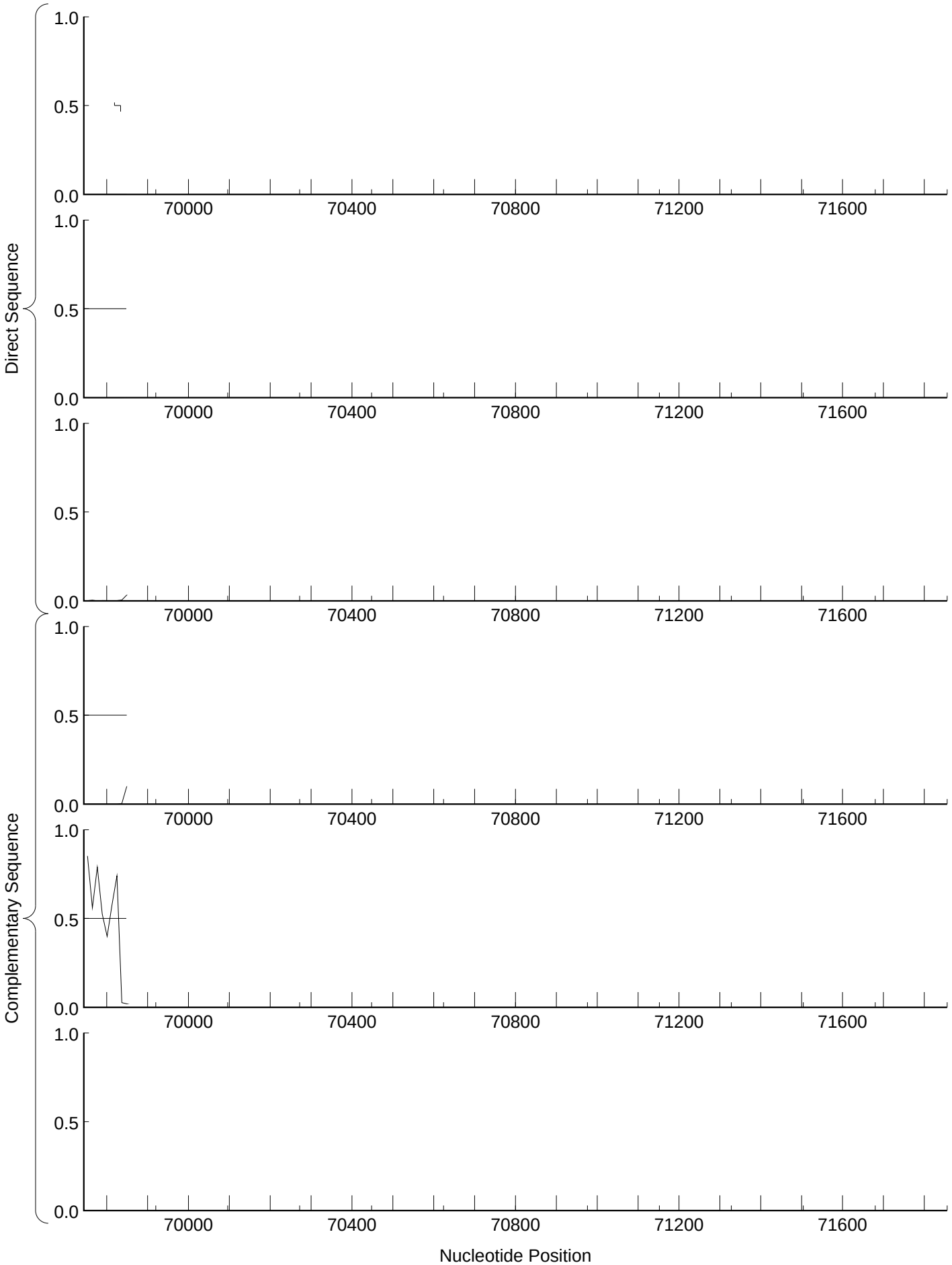
Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 32/35



Mycobacterium phage Imvubu complete sequence, 69897 bp, circularly permuted, Cluster B9, Order 4, Window 96, Step 12, 33/35




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


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