GeneMark

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

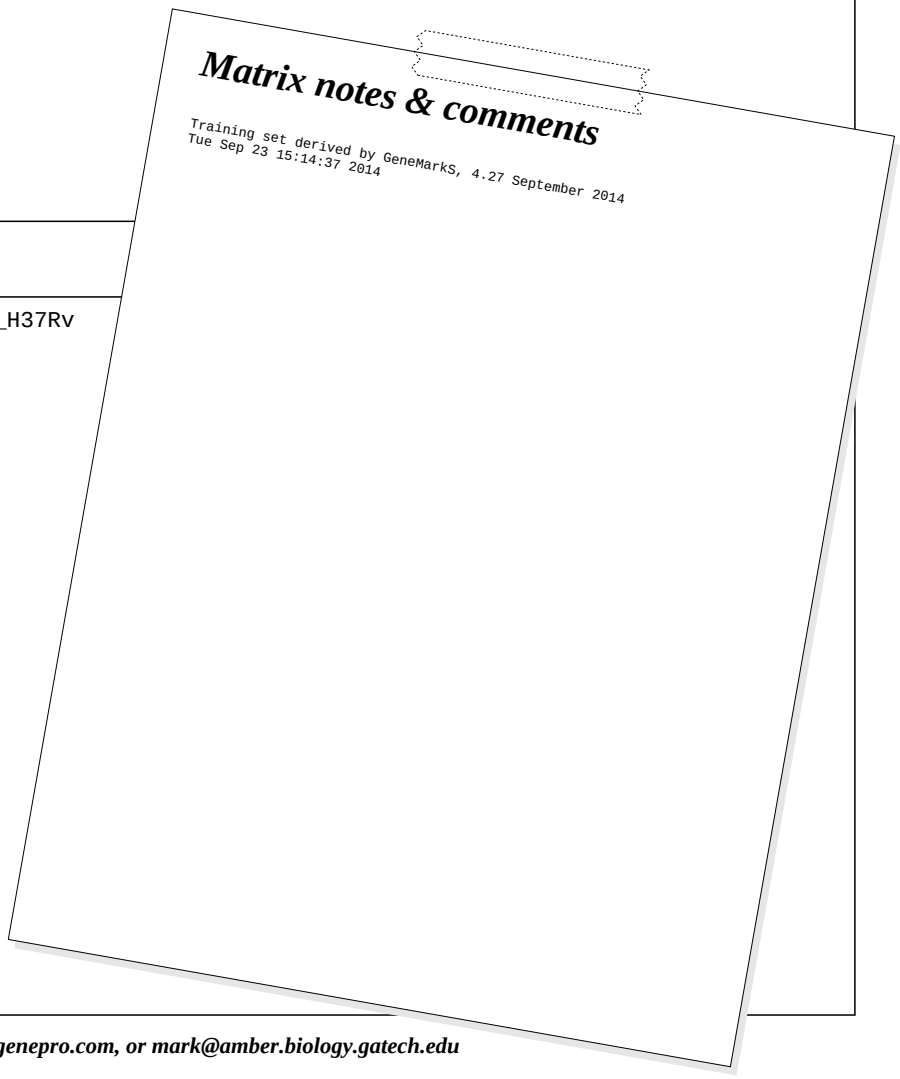
PROGRAM INFORMATION

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Analysis Date    :  3/28/24 at 5:19:13
Pages            :  34
Sequence Length  :  68513 bp
GC Content       :   66.47%

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

PS-Version       :  1.2

GeneMark Options :  PostScript graph,
                    Mark ORFs / splice sites,
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MATRIX INFORMATION

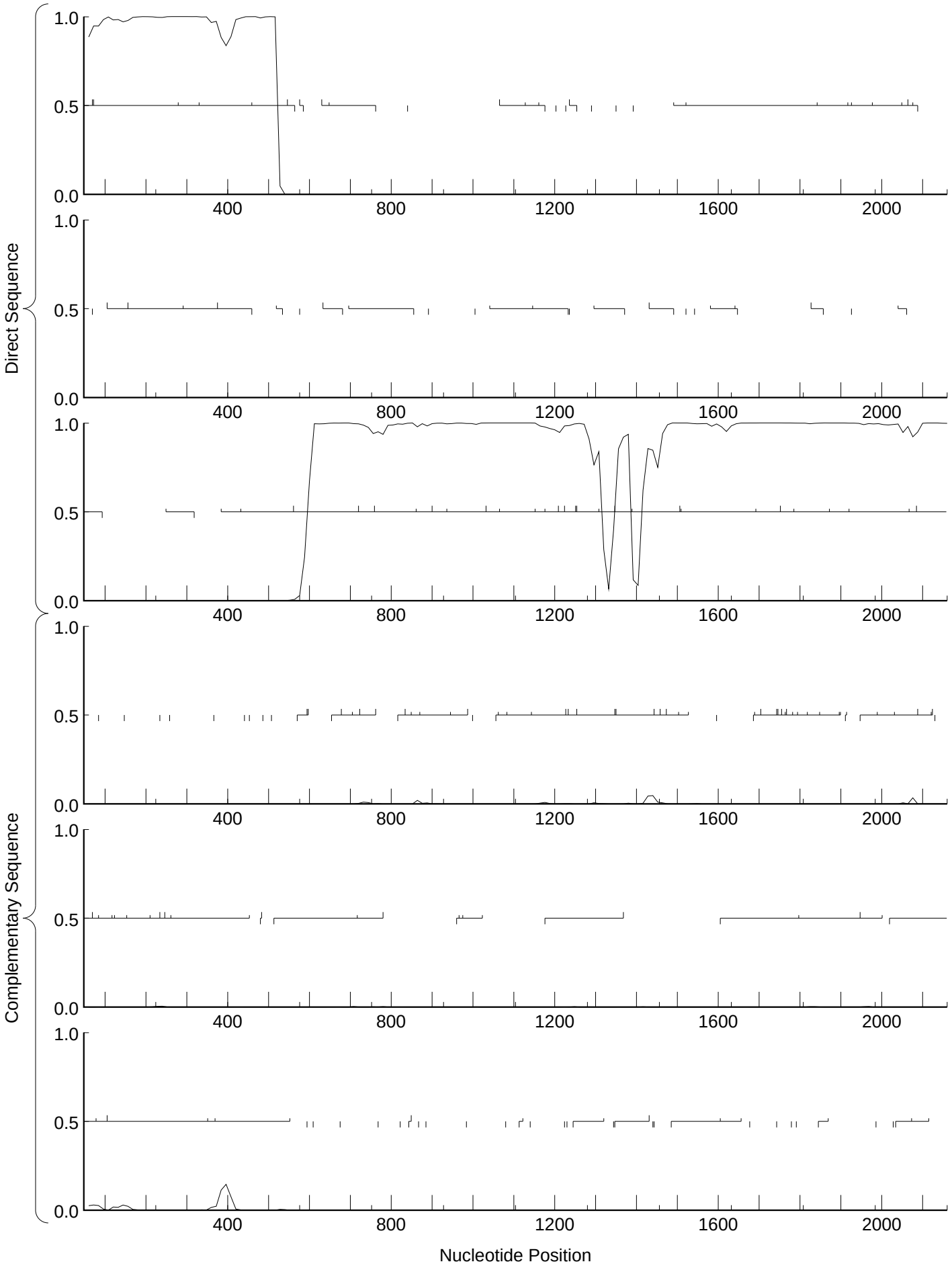
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Author     :  -

Order      :  4
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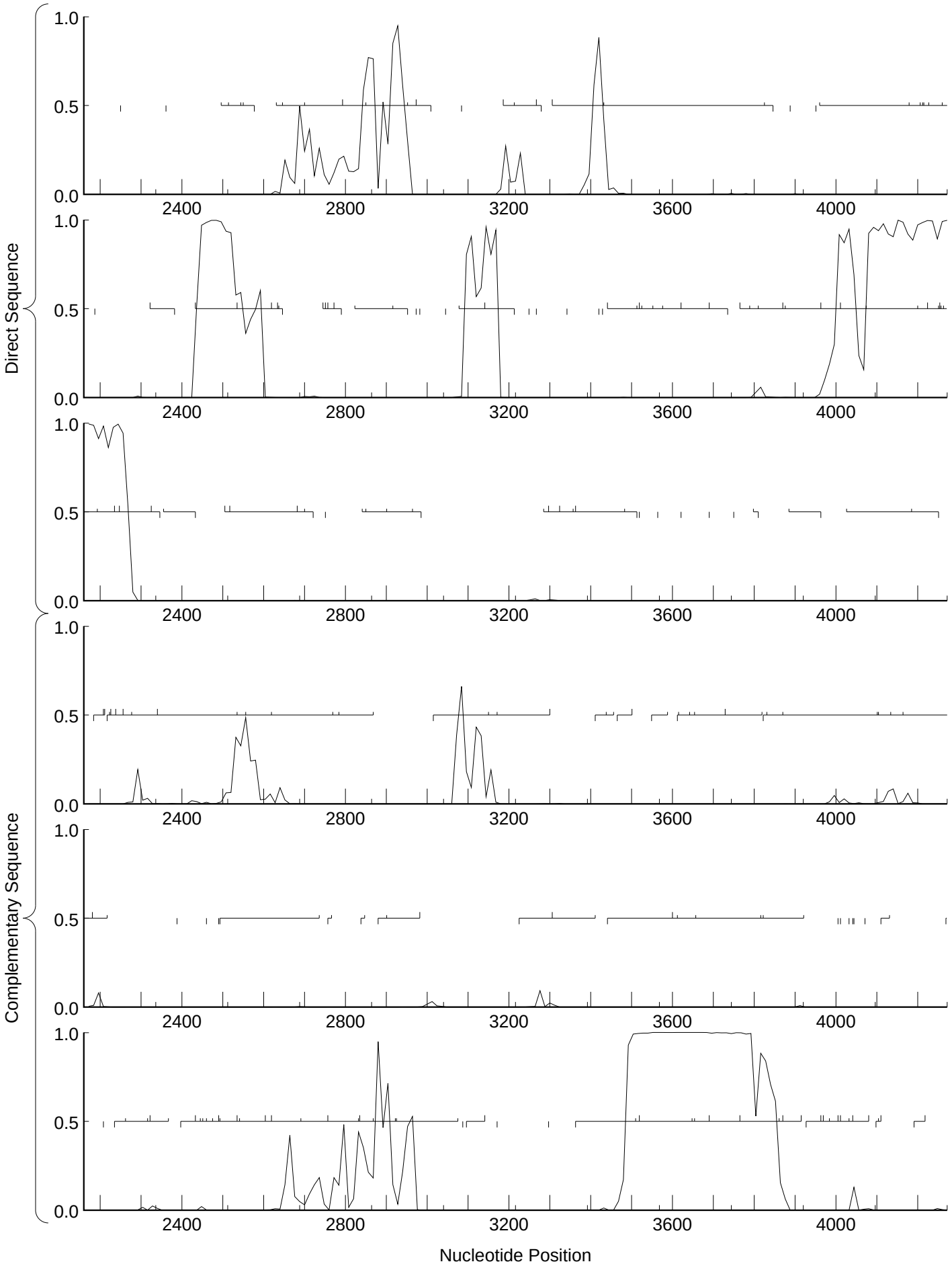

```
  Send questions / comments to:
      Dr. M. Borodovsky
      Georgia Institute of Technology
      School of Biology
      Atlanta, GA  30332-0230
```


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

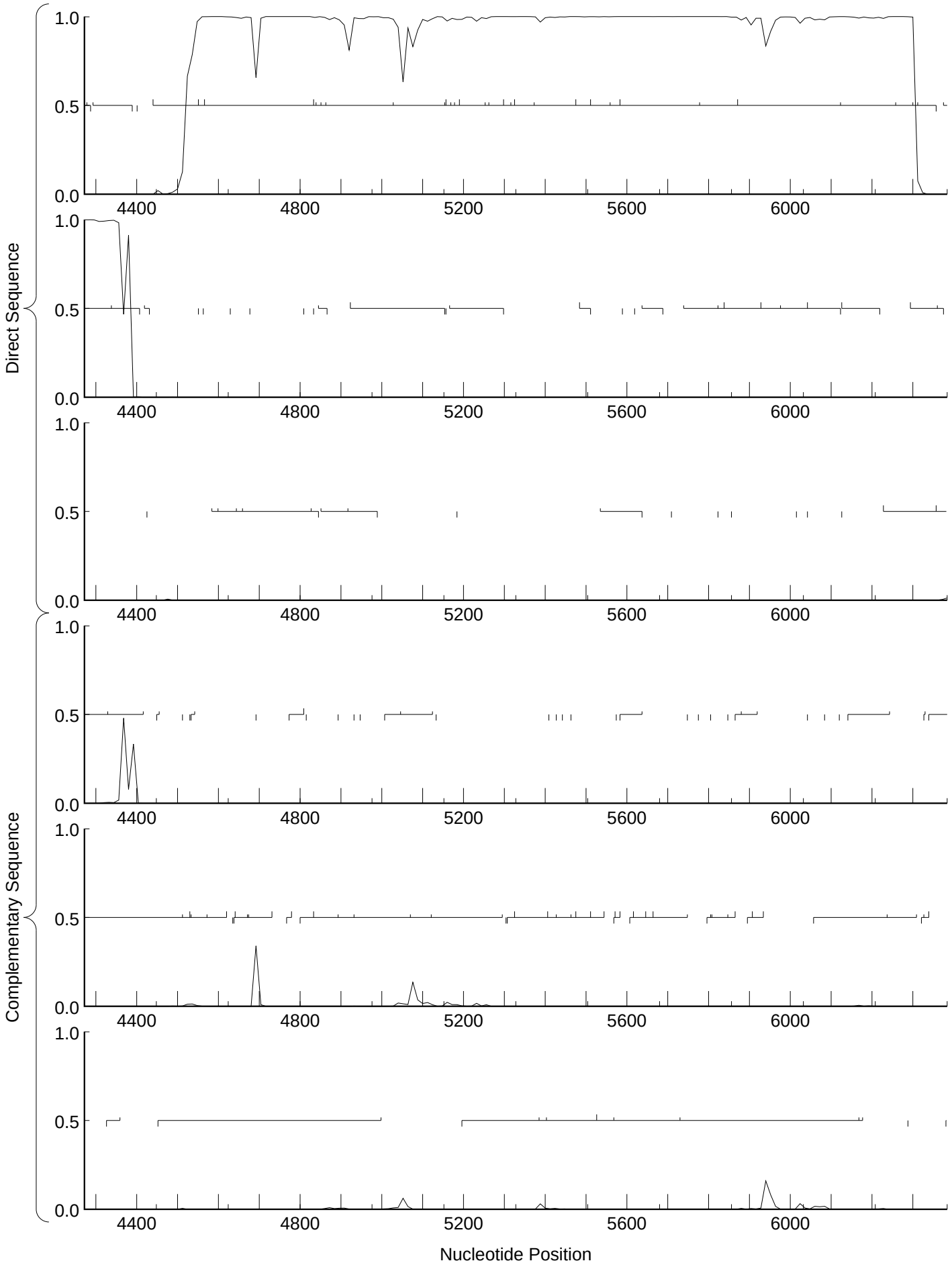
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 2/34



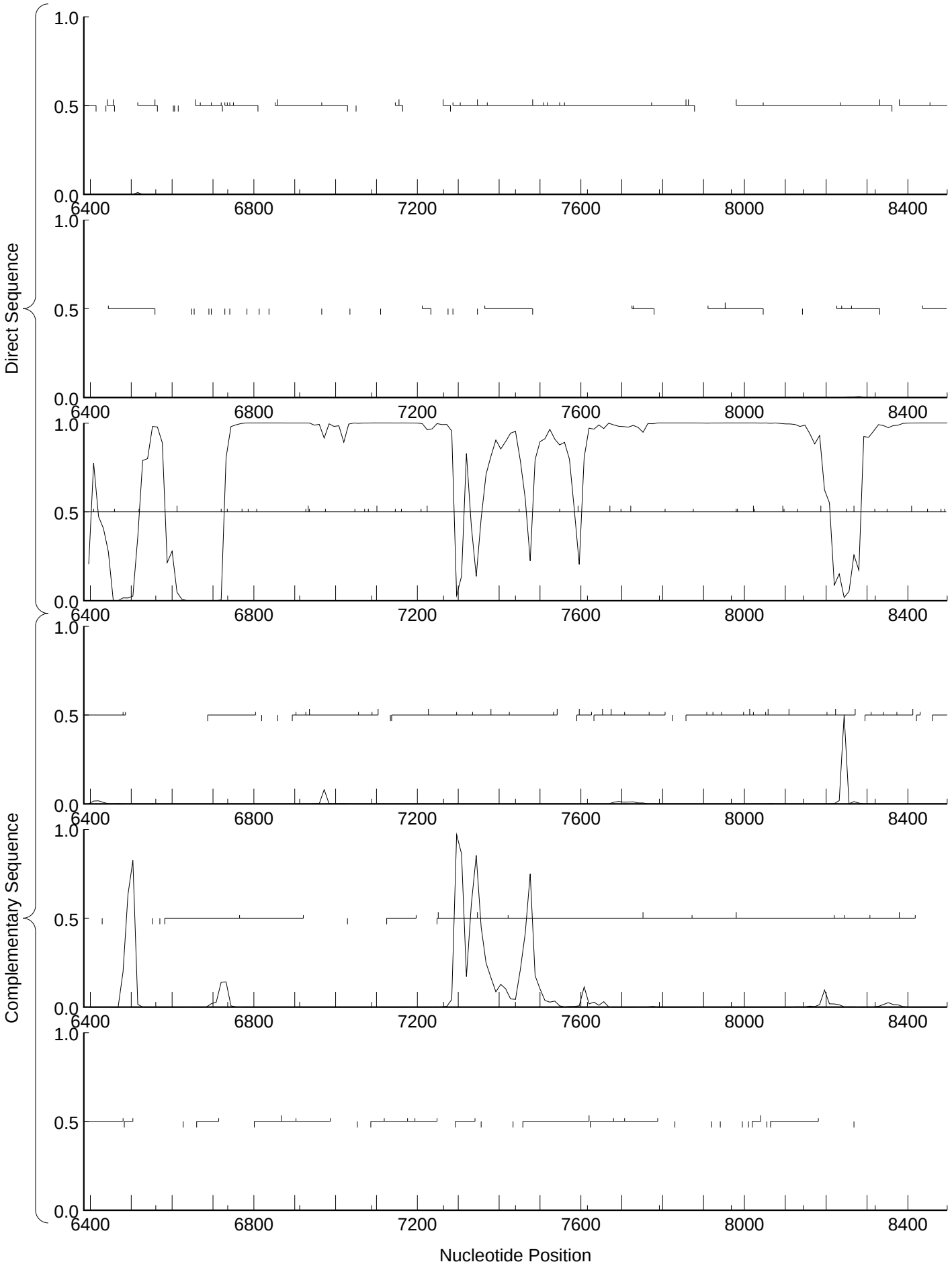
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 3/34



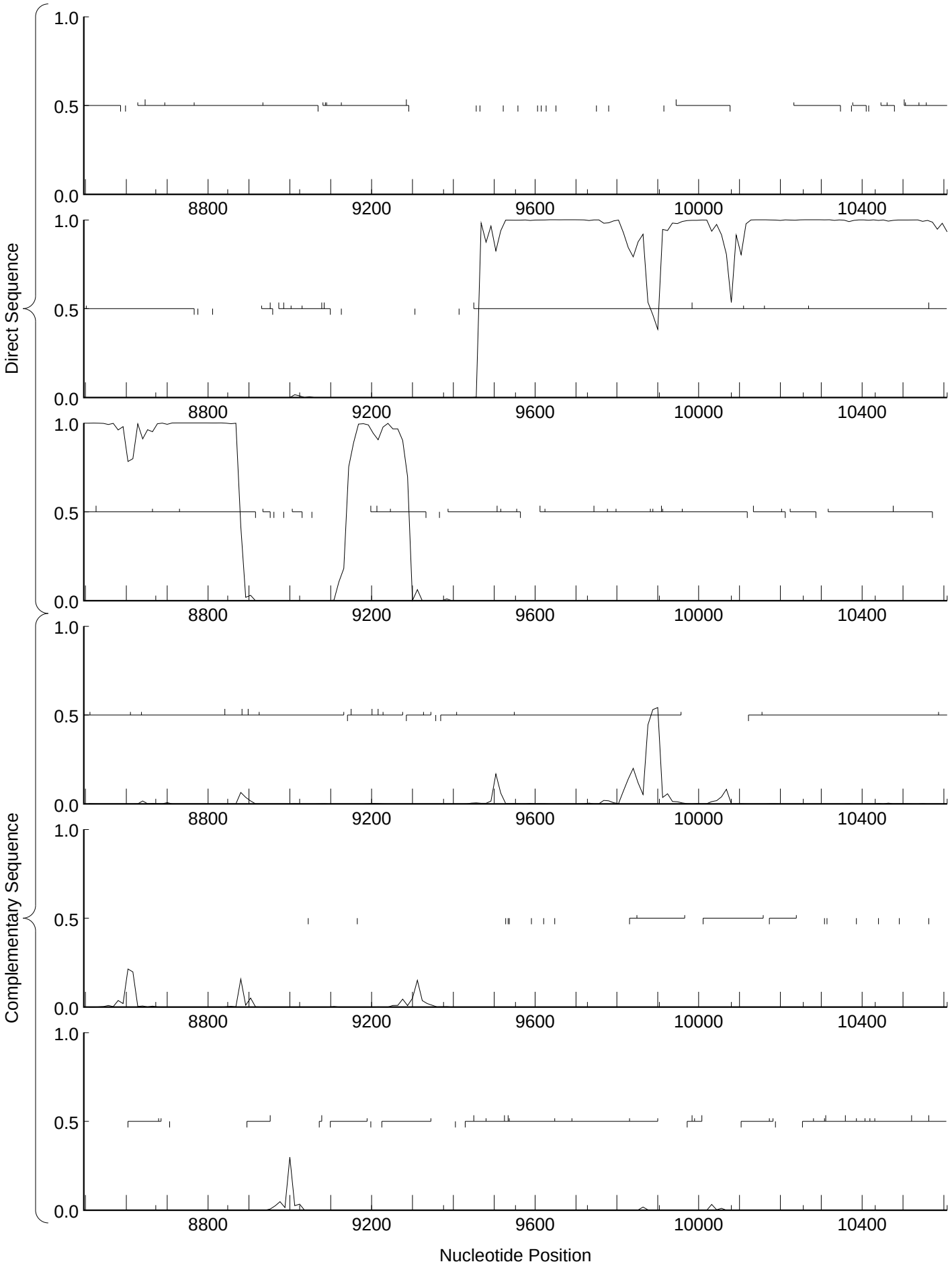
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 4/34



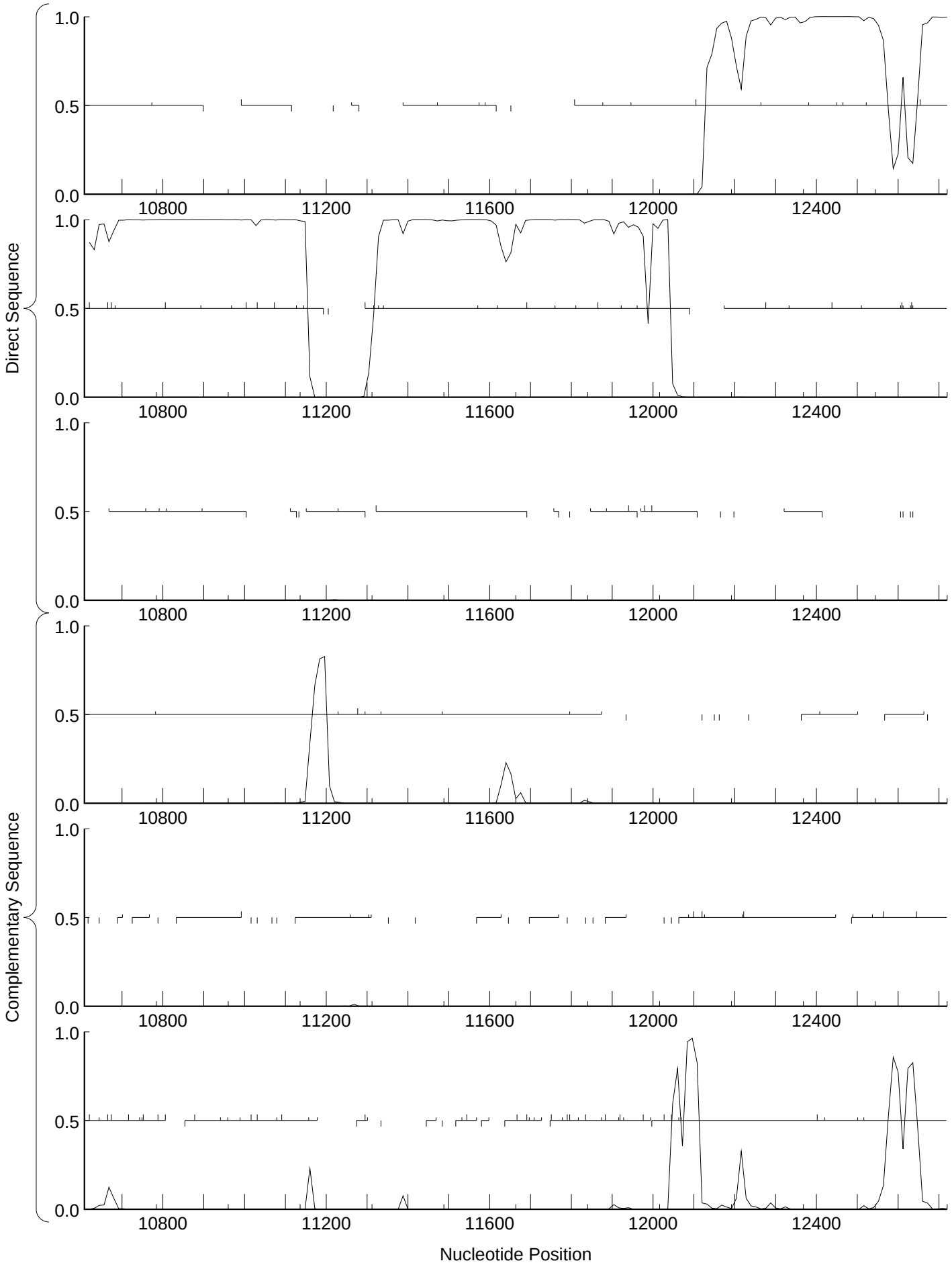
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 5/34



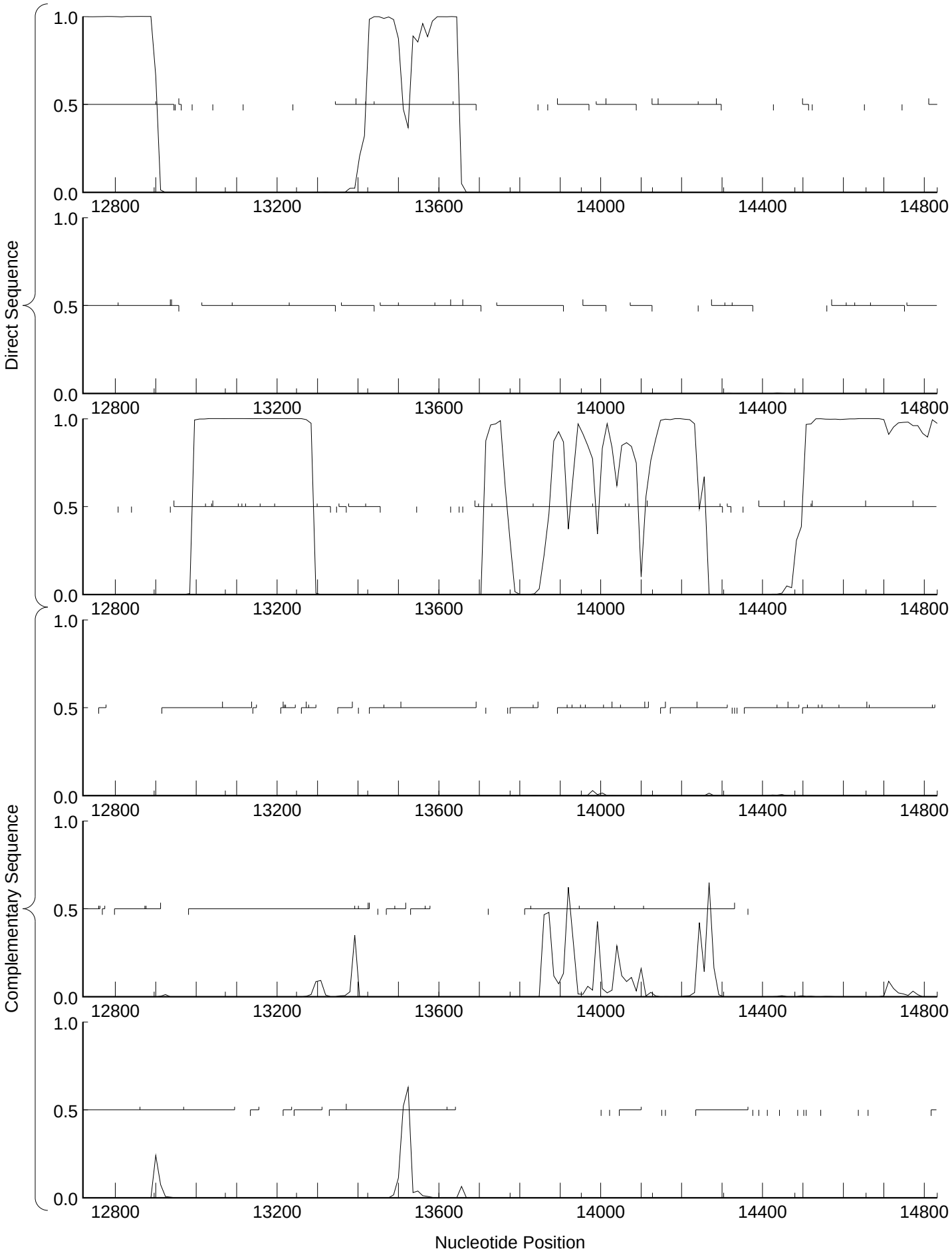
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 6/34



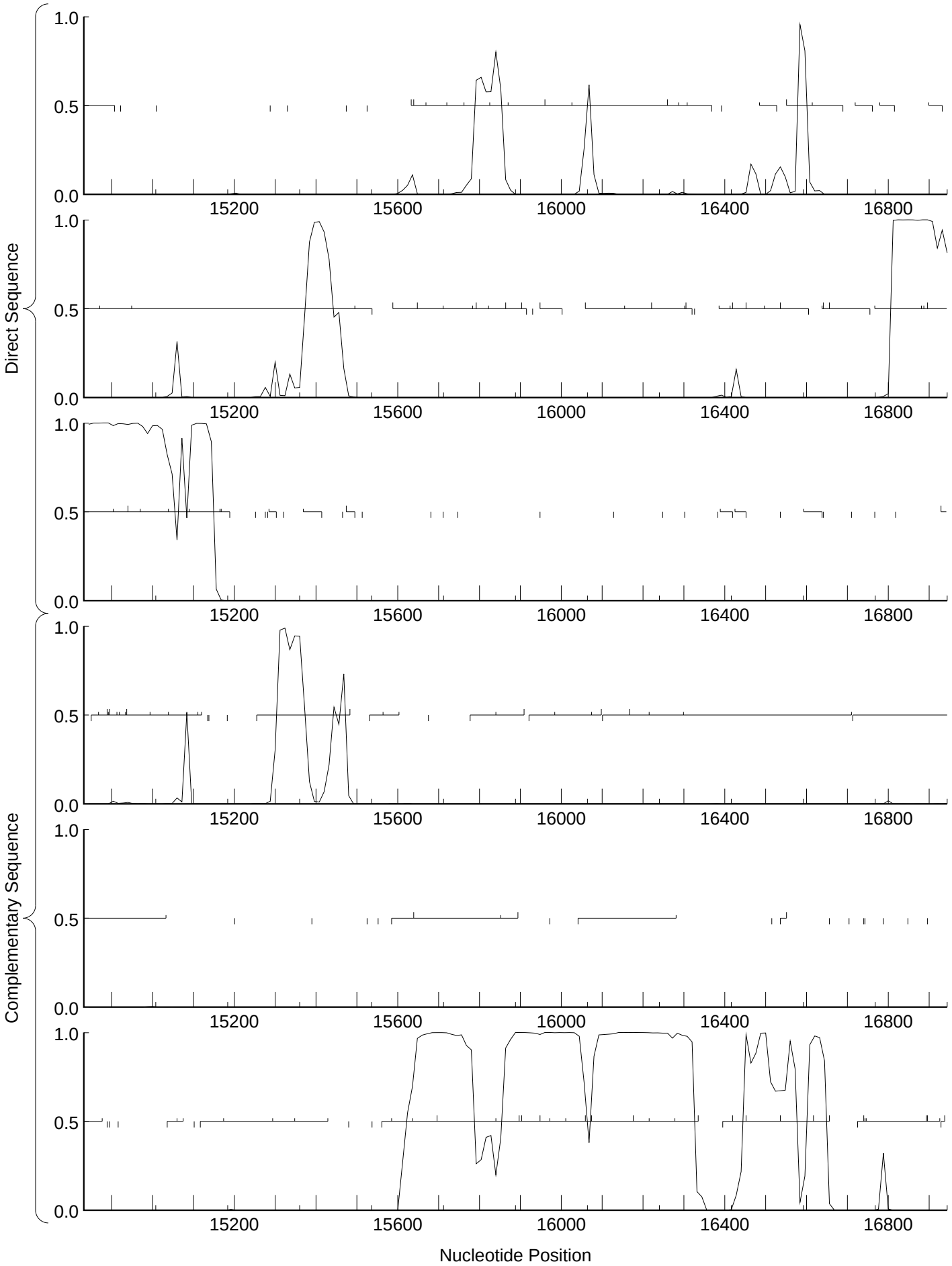
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 7/34



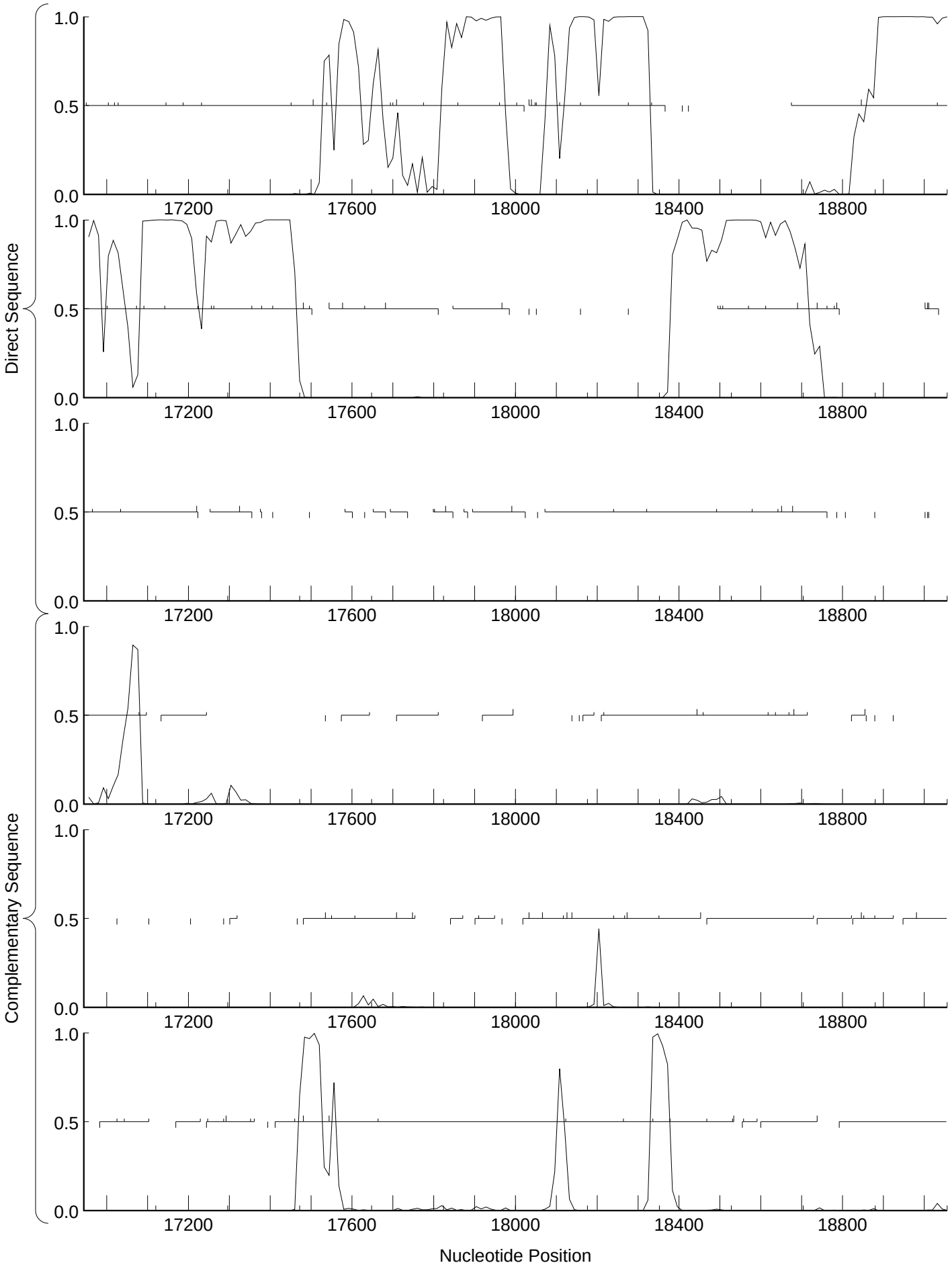
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 8/34



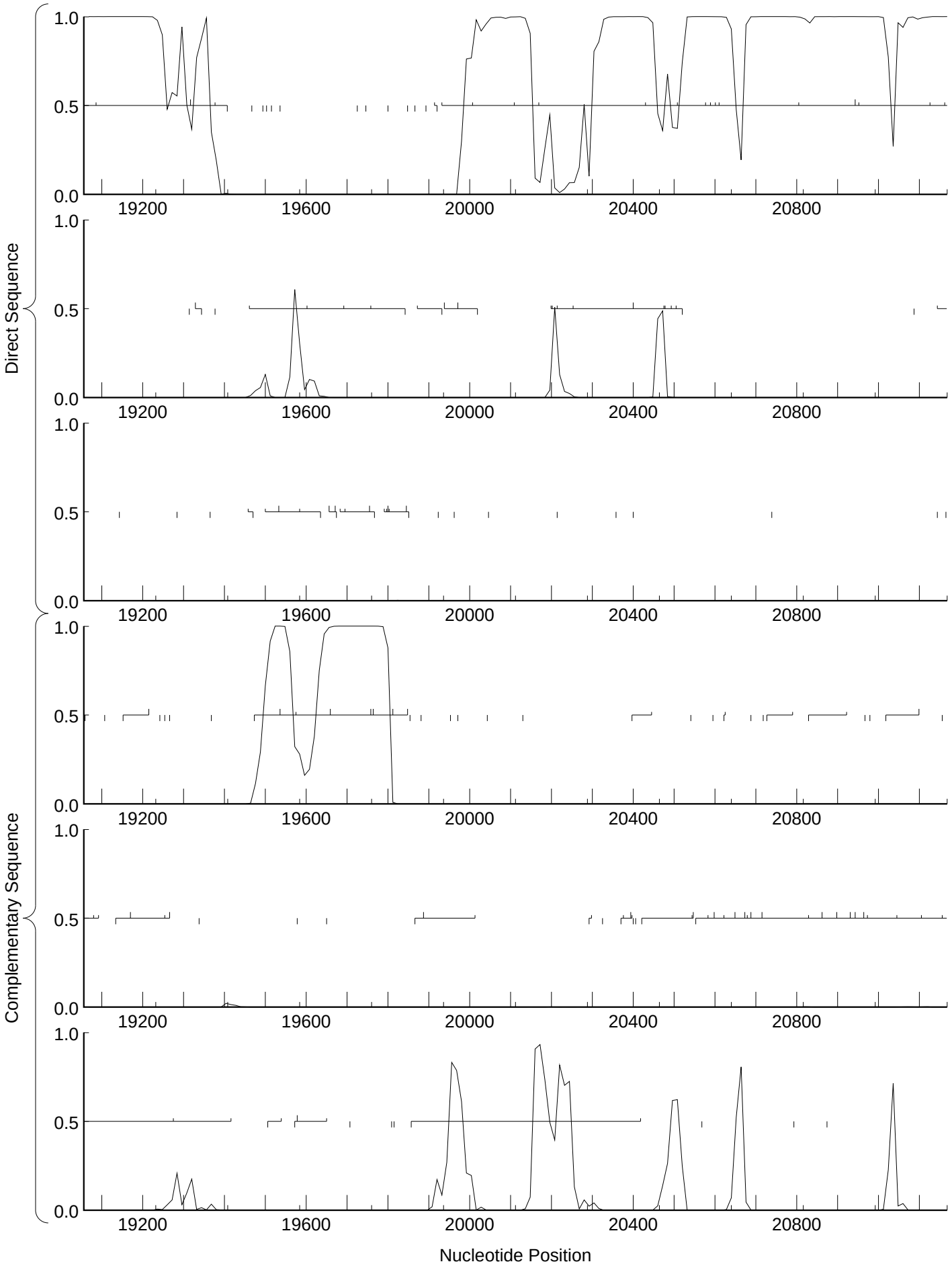
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 9/34



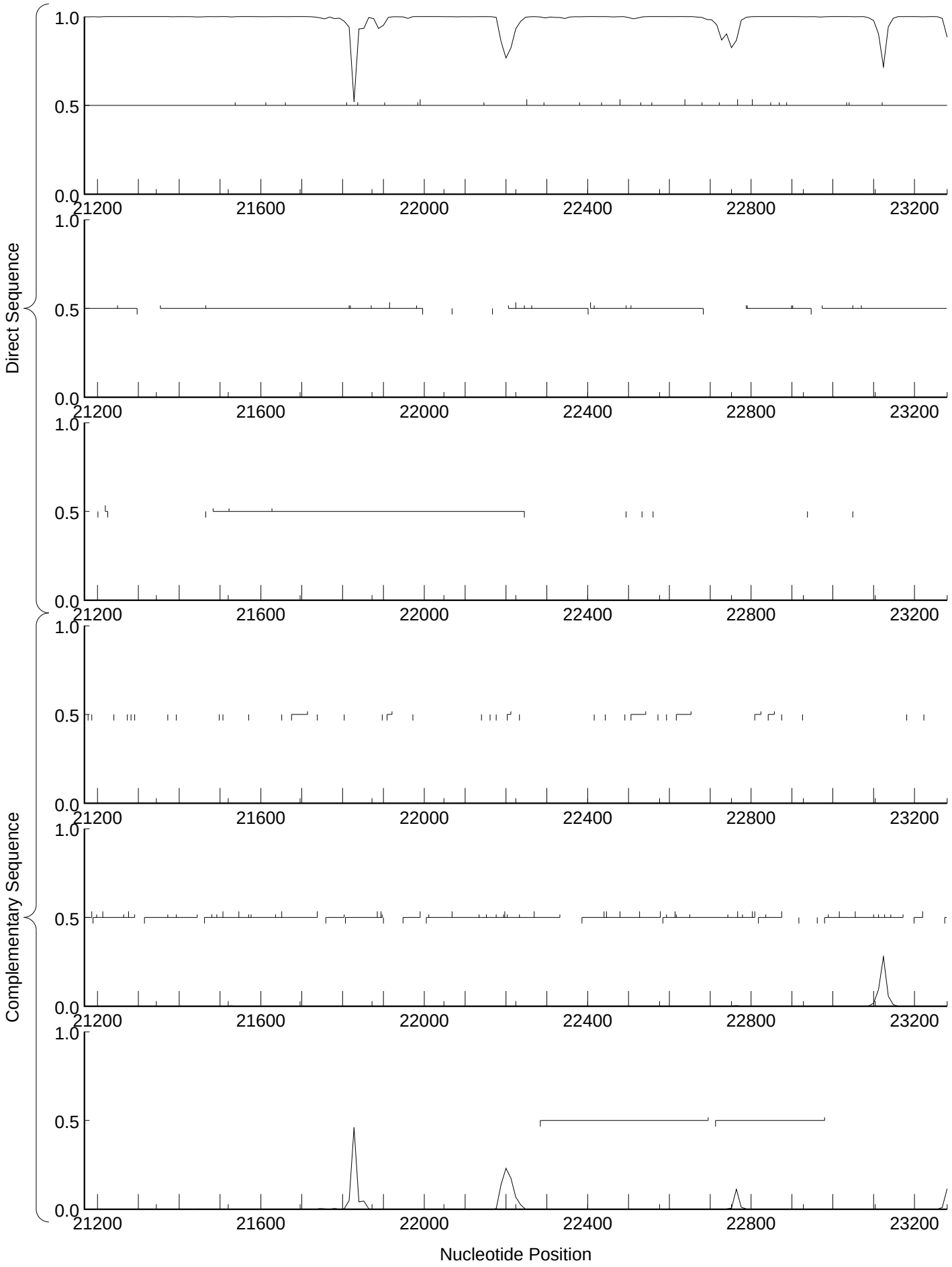
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 10/34



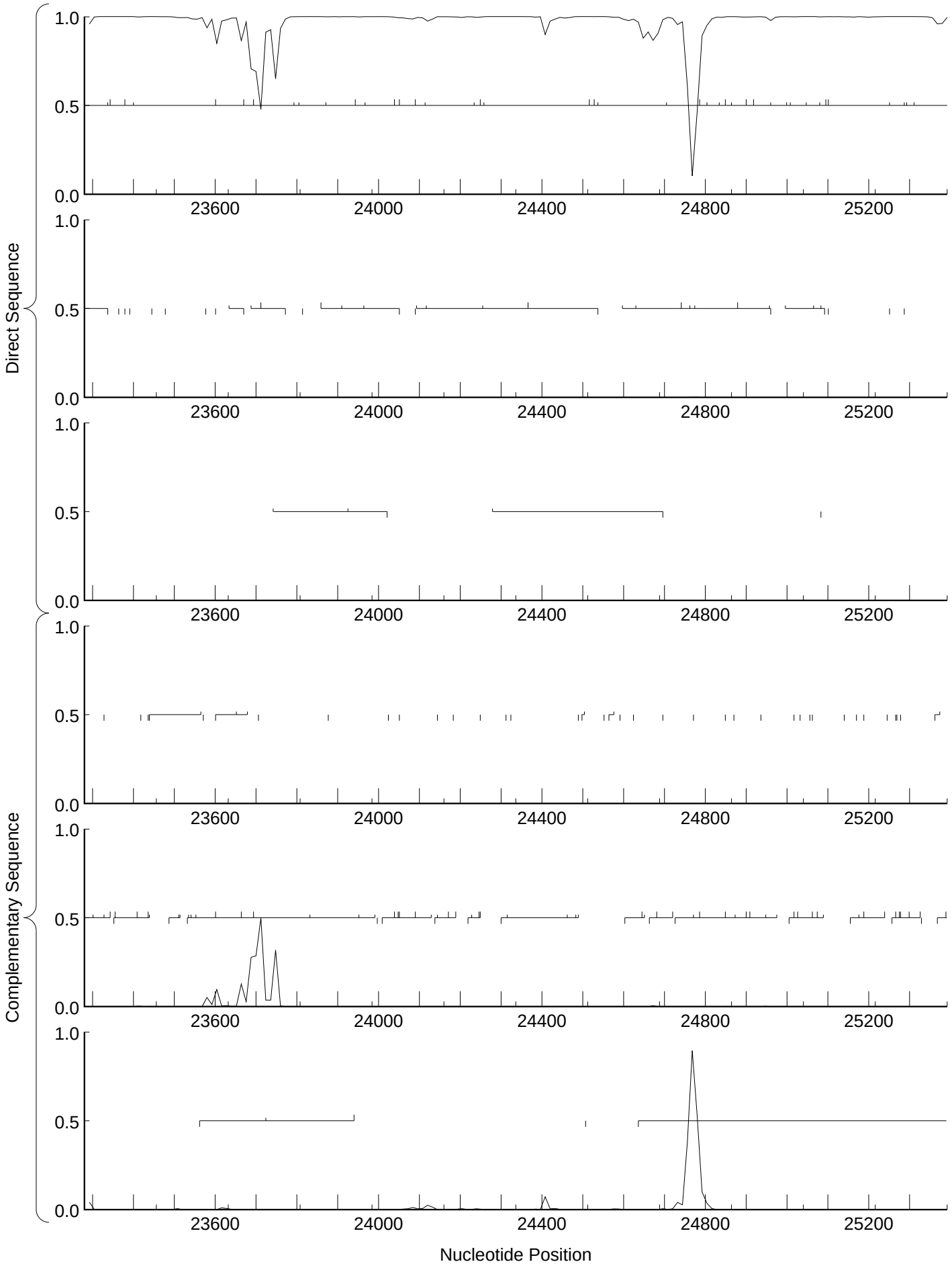
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 11/34



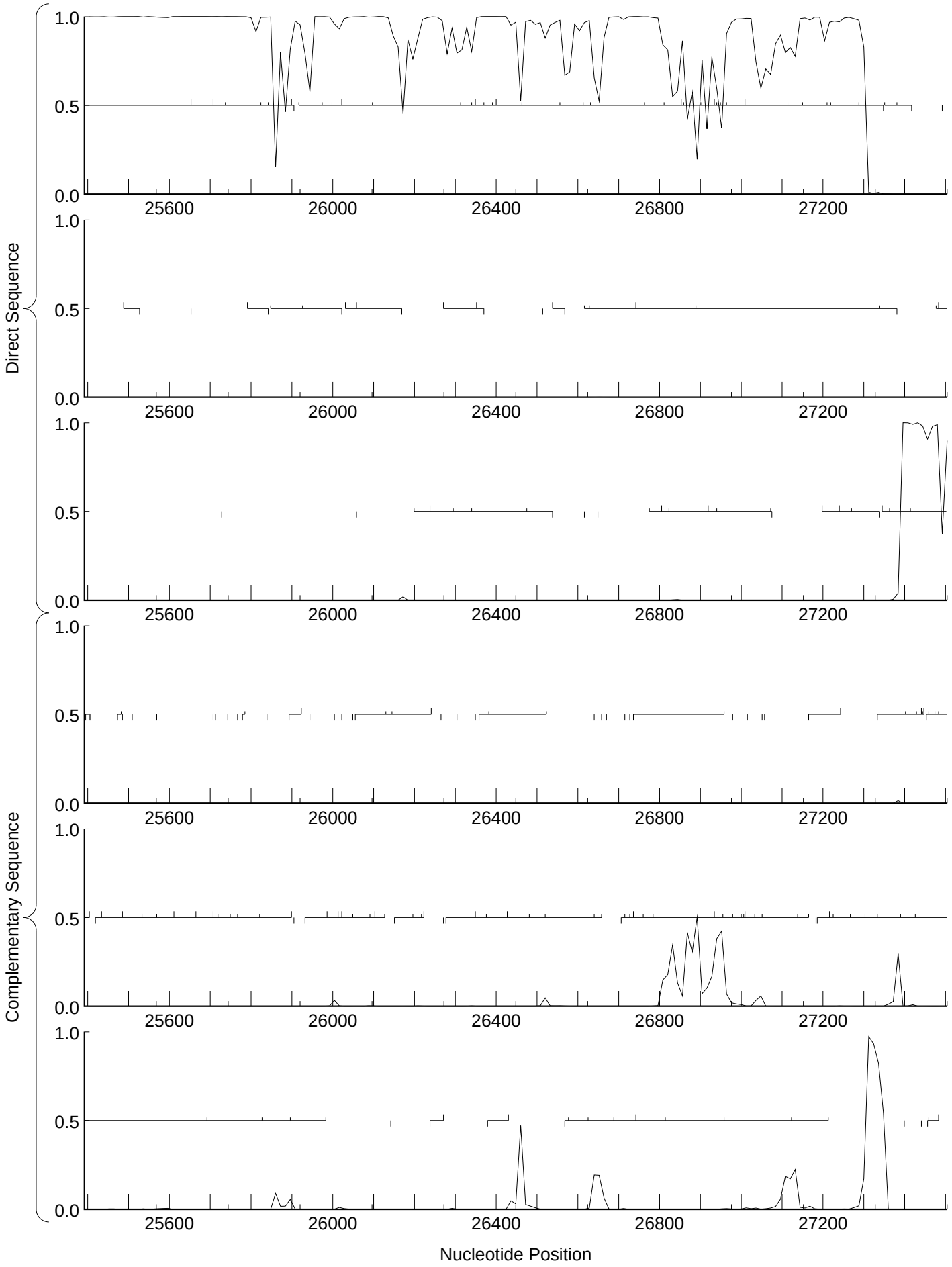
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 12/34



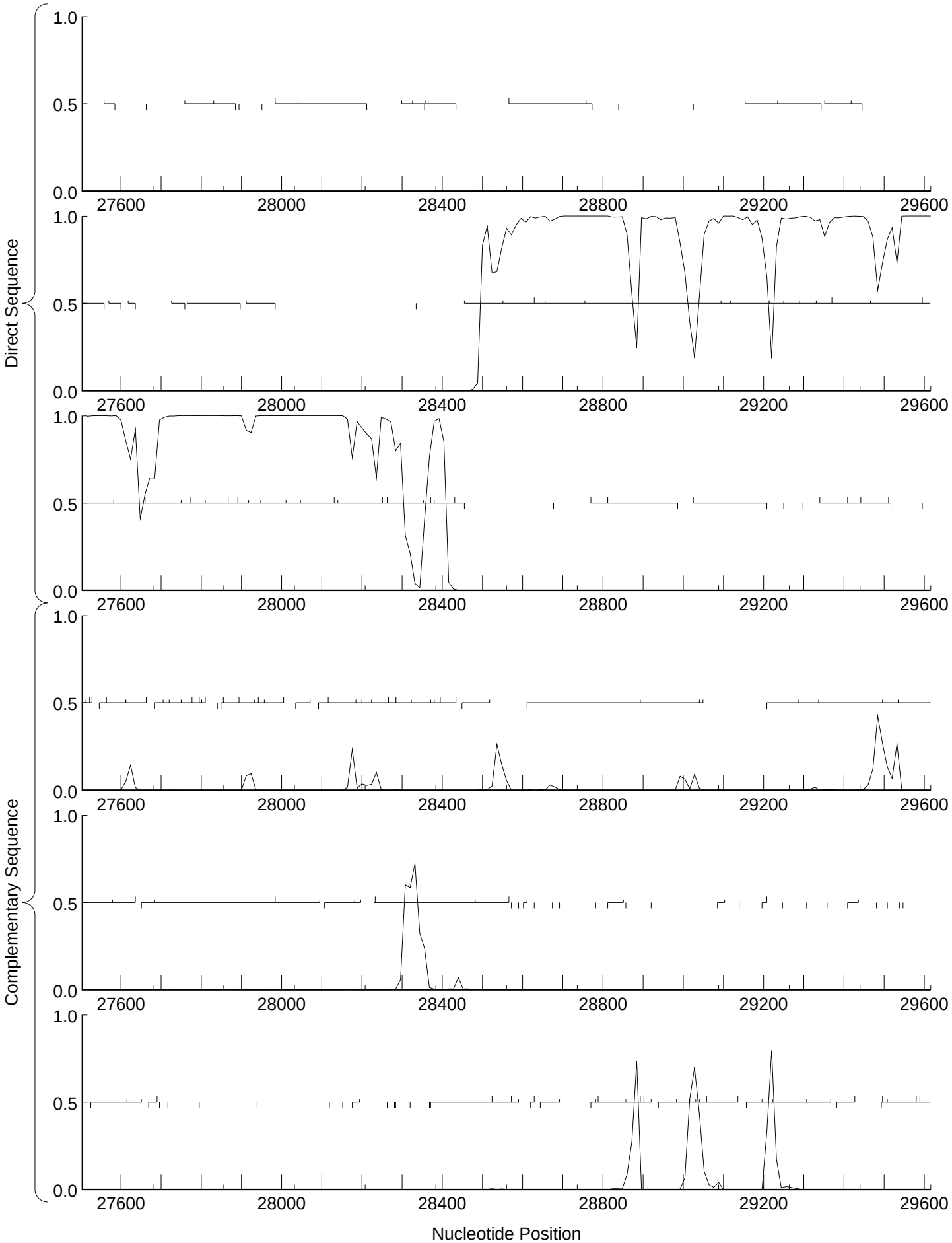
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 13/34



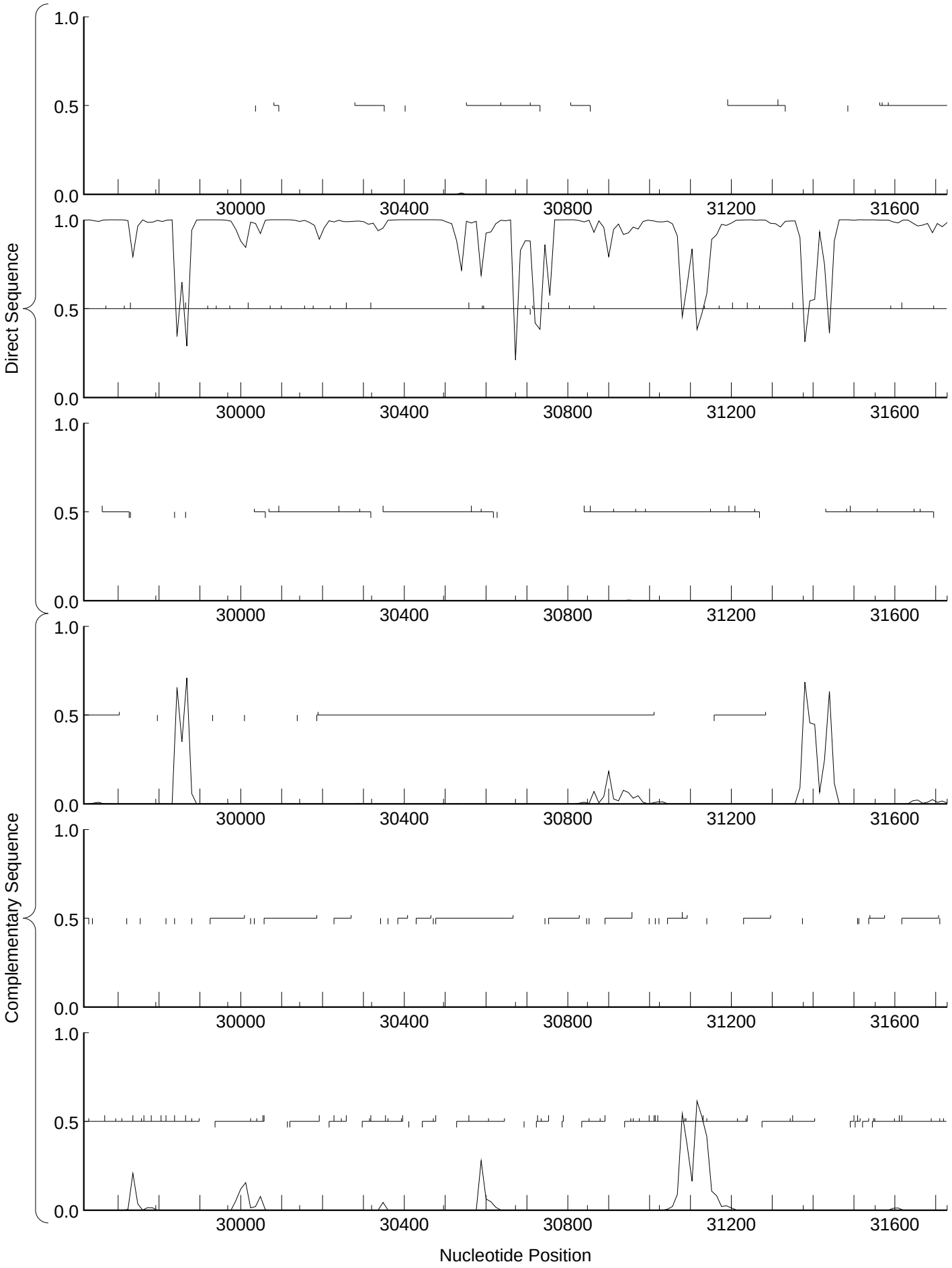
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 14/34



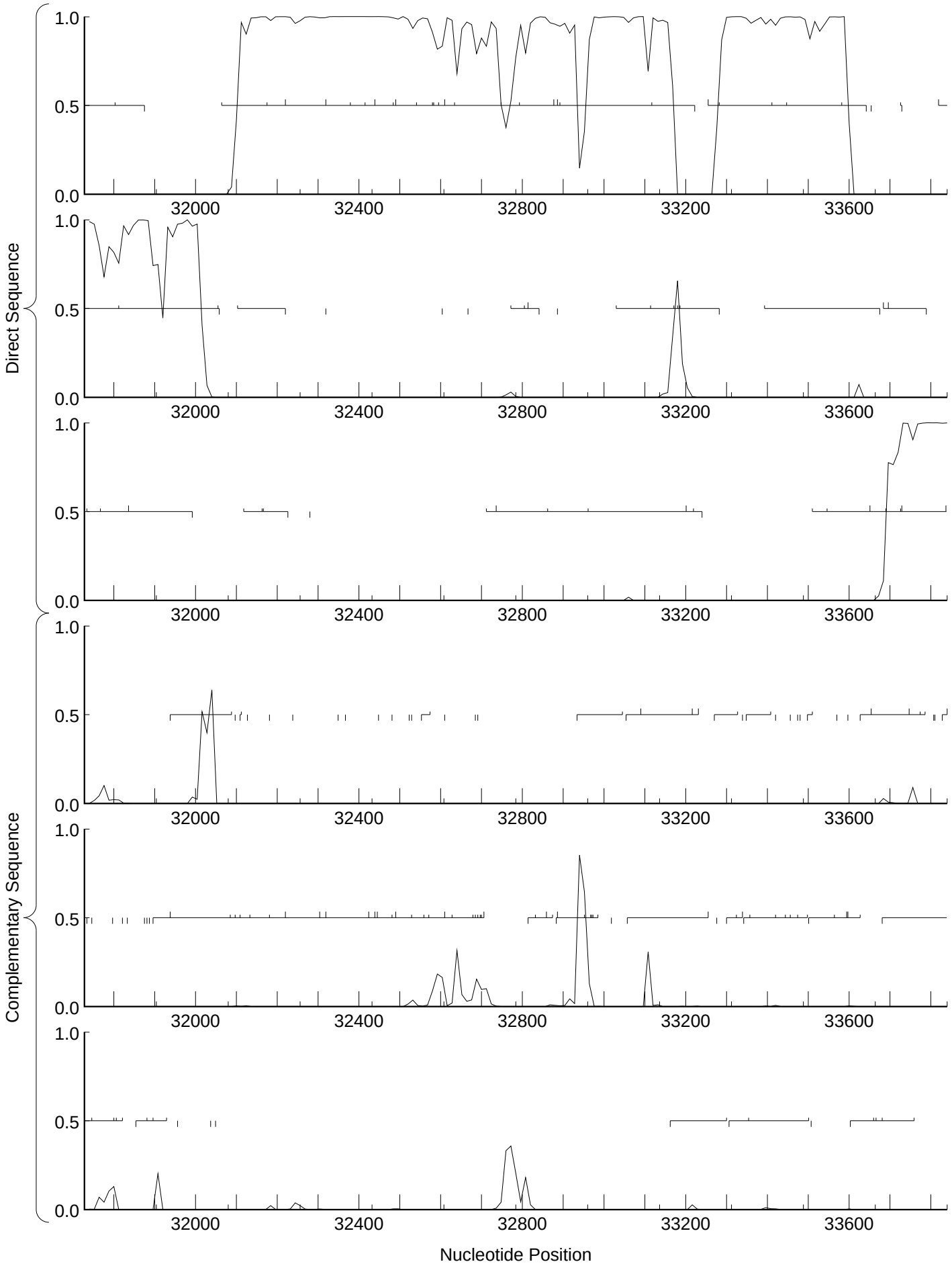
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 15/34



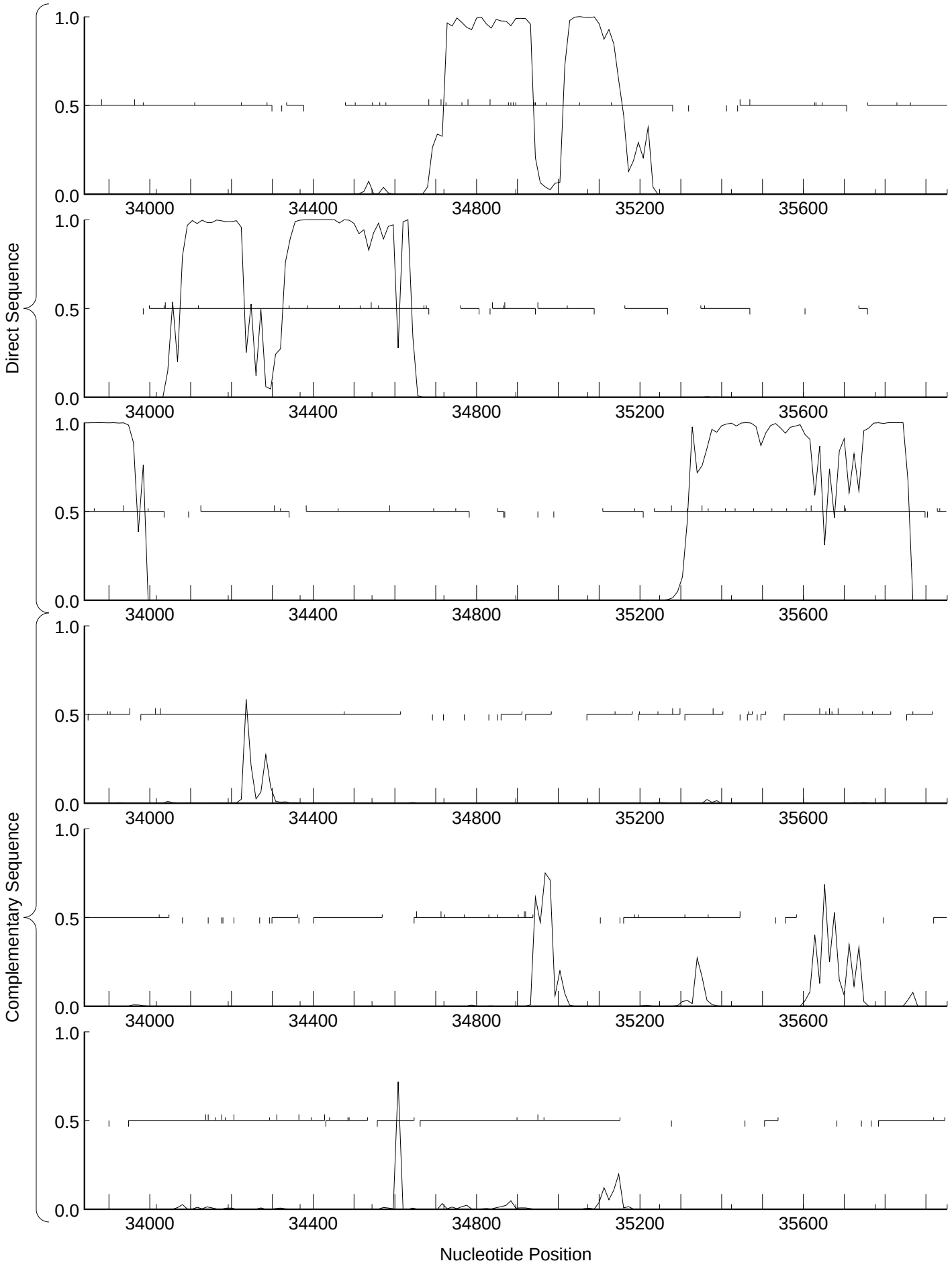
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 16/34



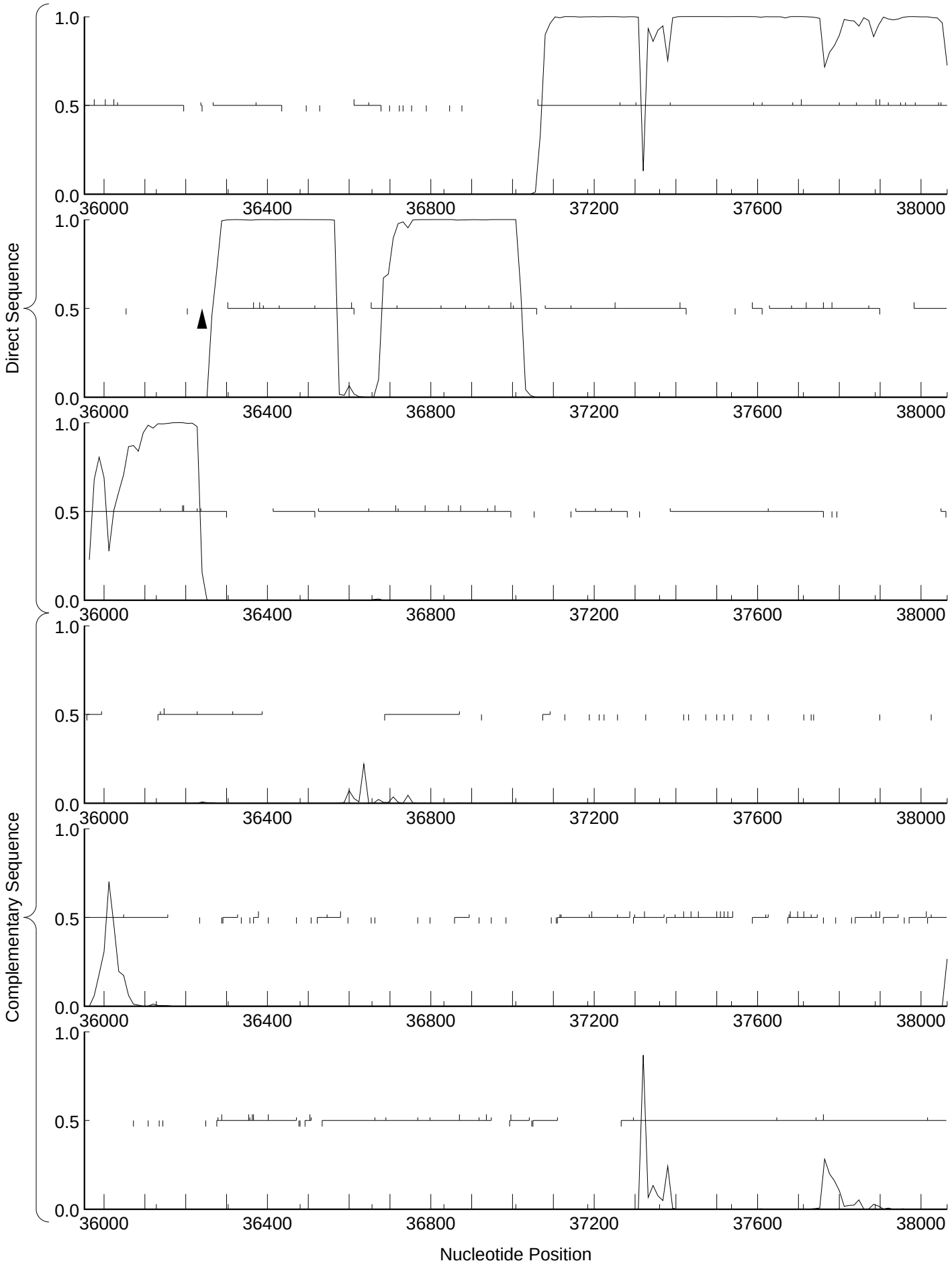
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 17/34



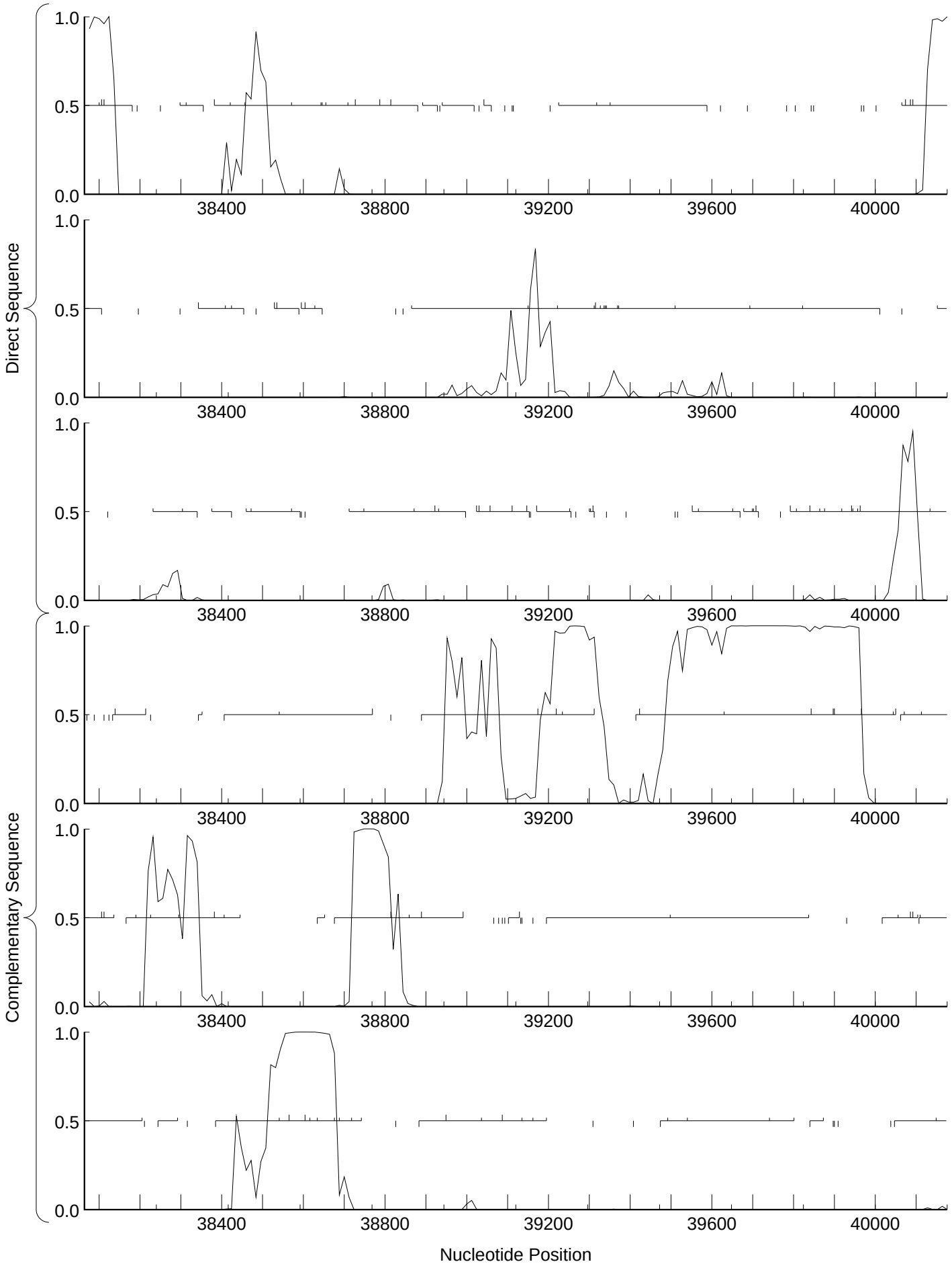
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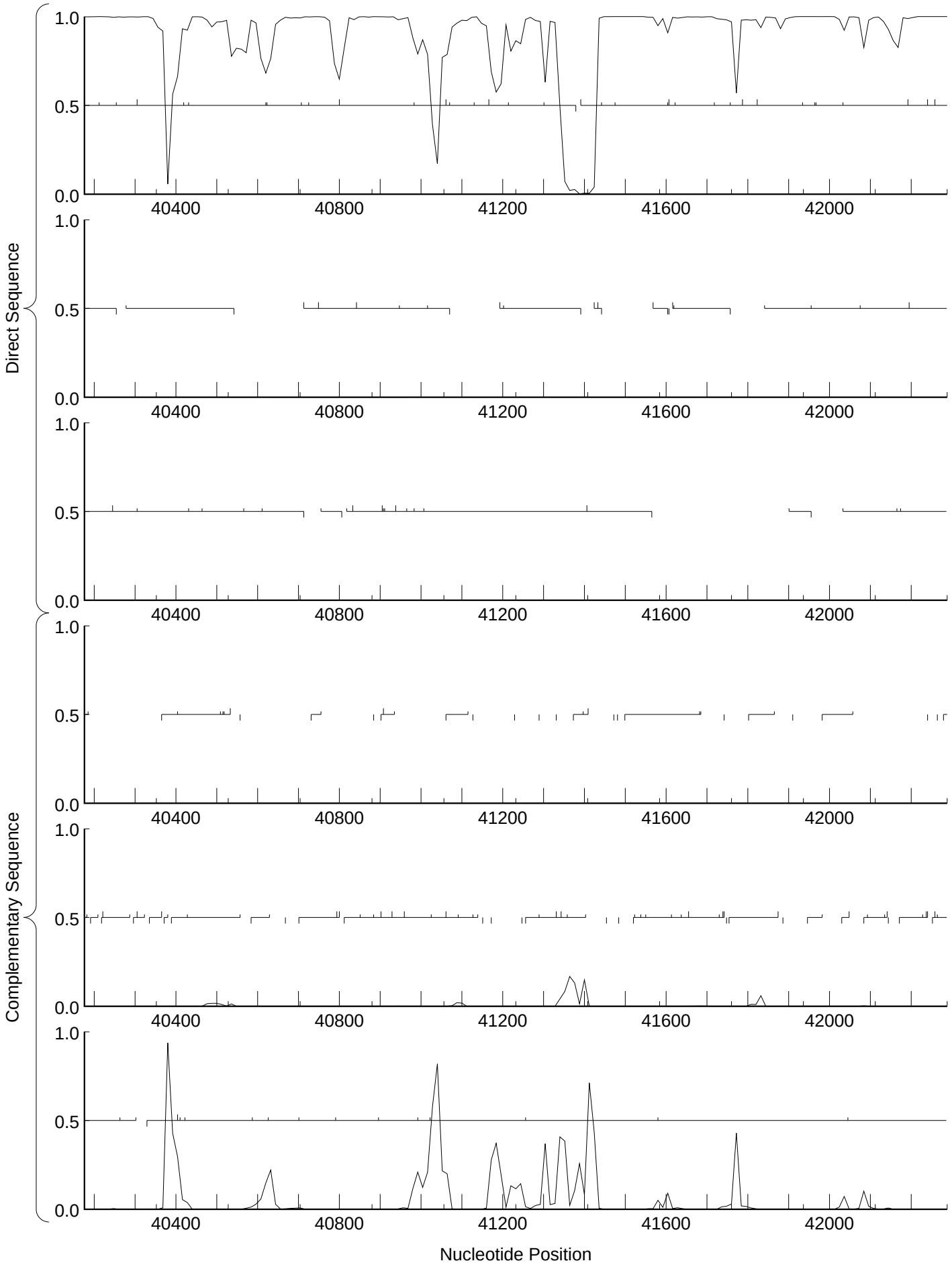
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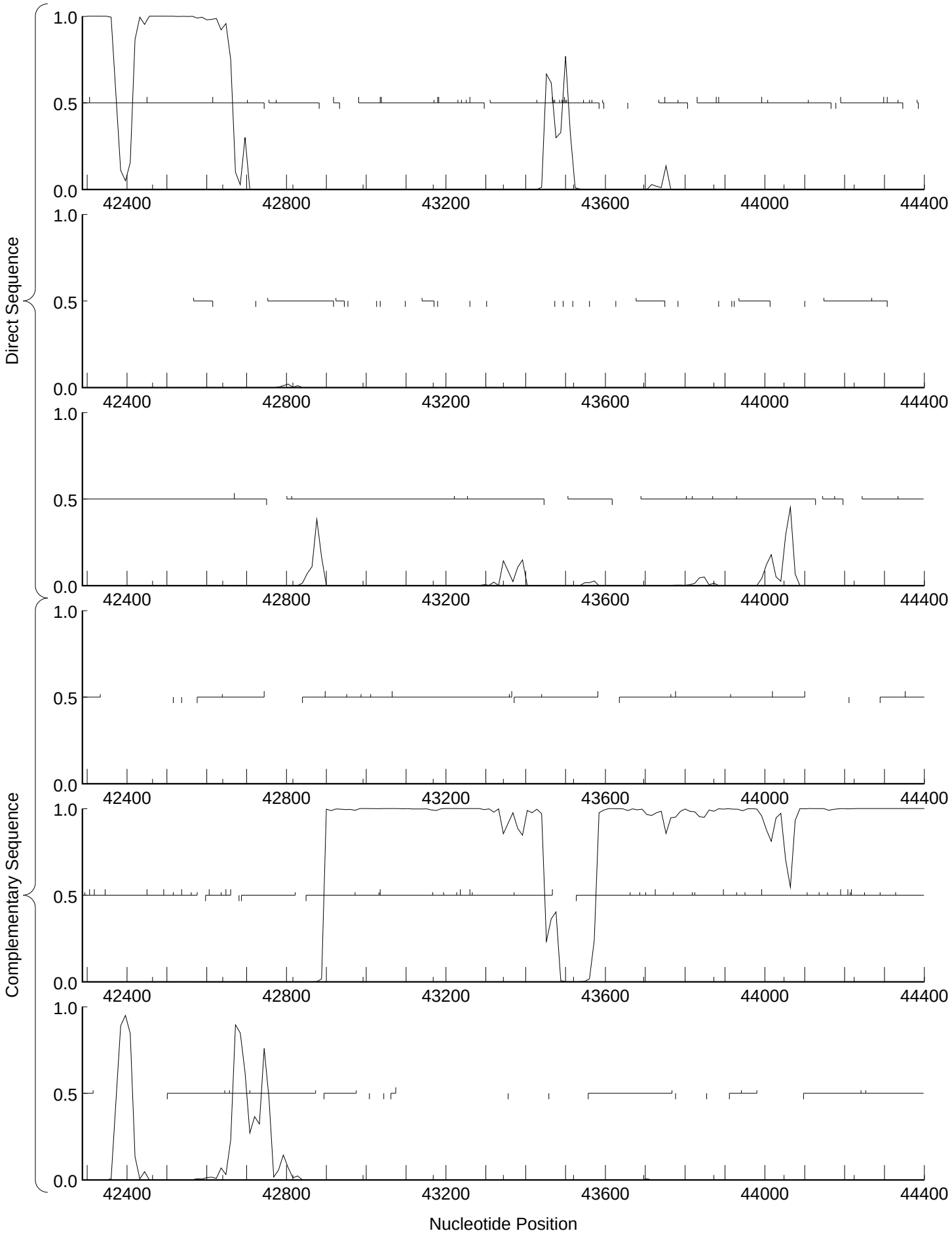
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 20/34



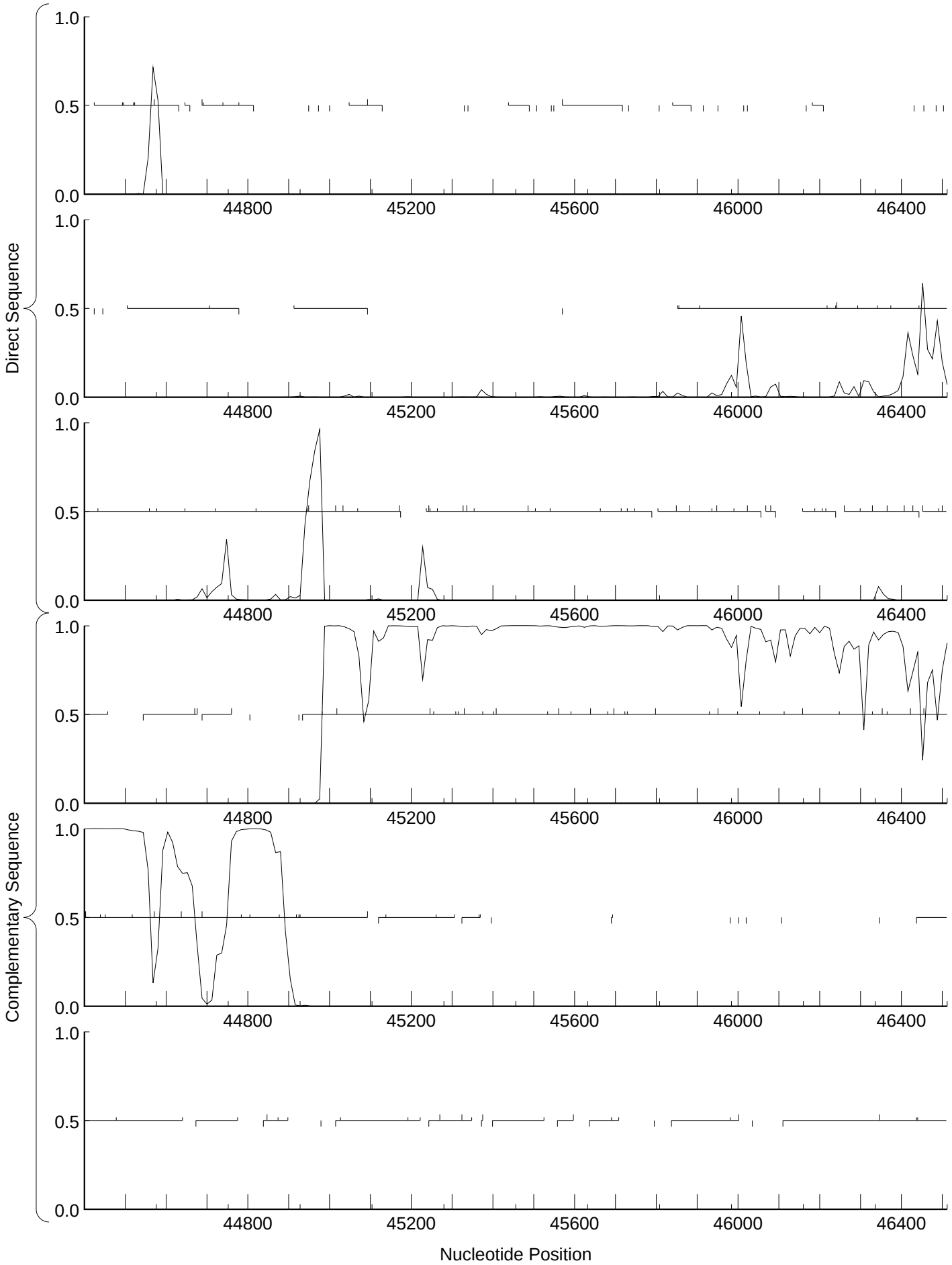
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 21/34



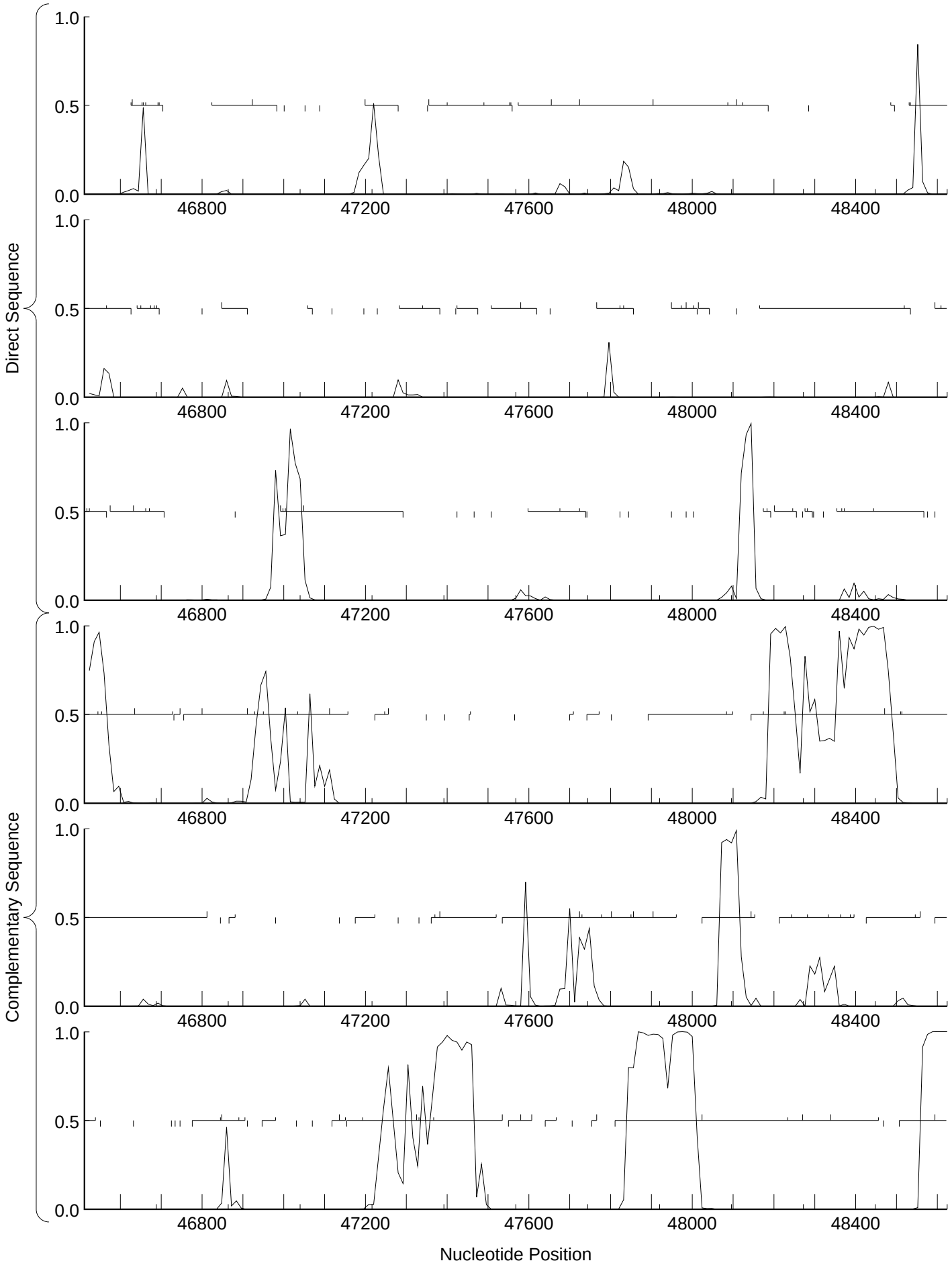
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 22/34



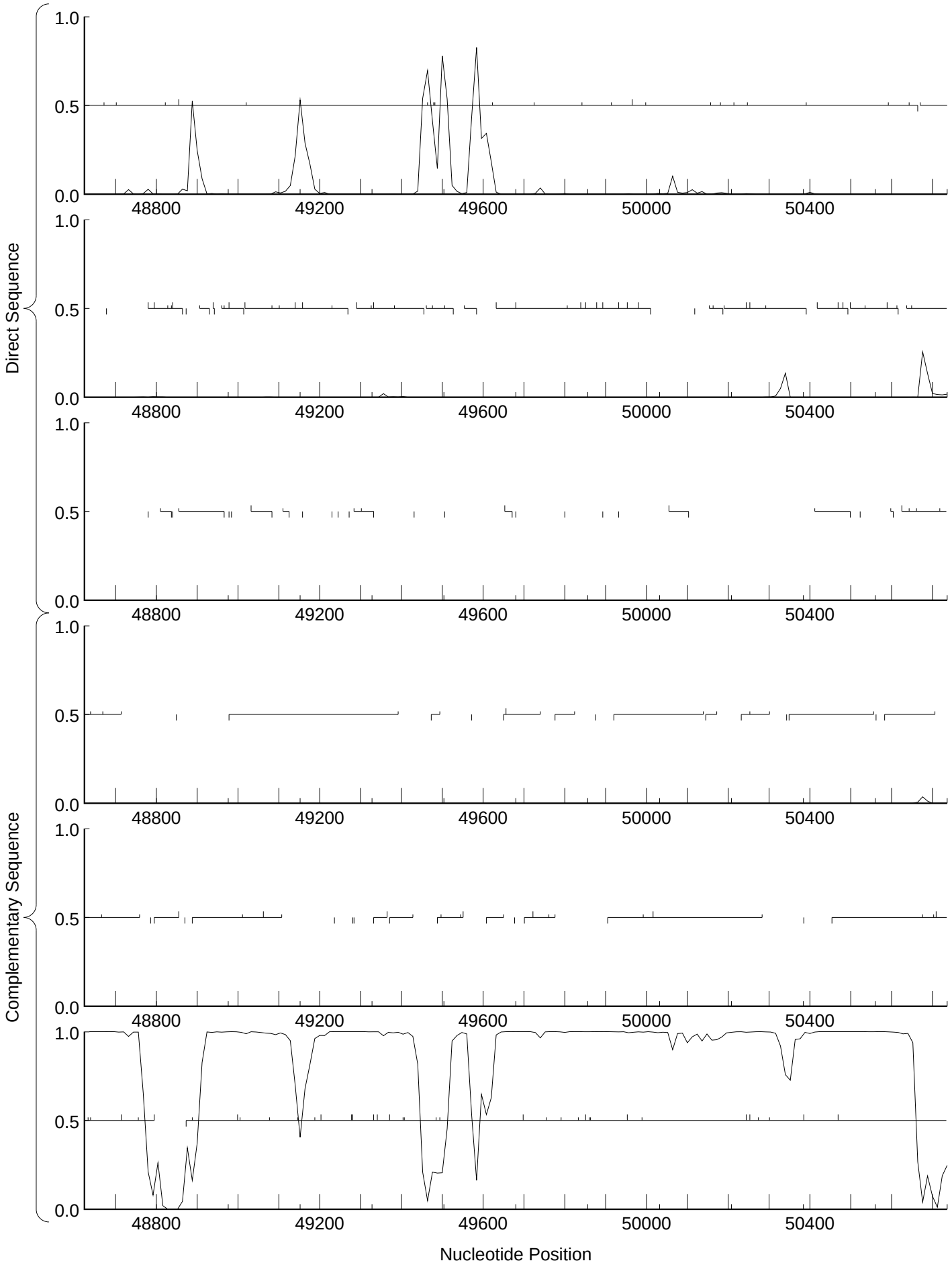
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 23/34



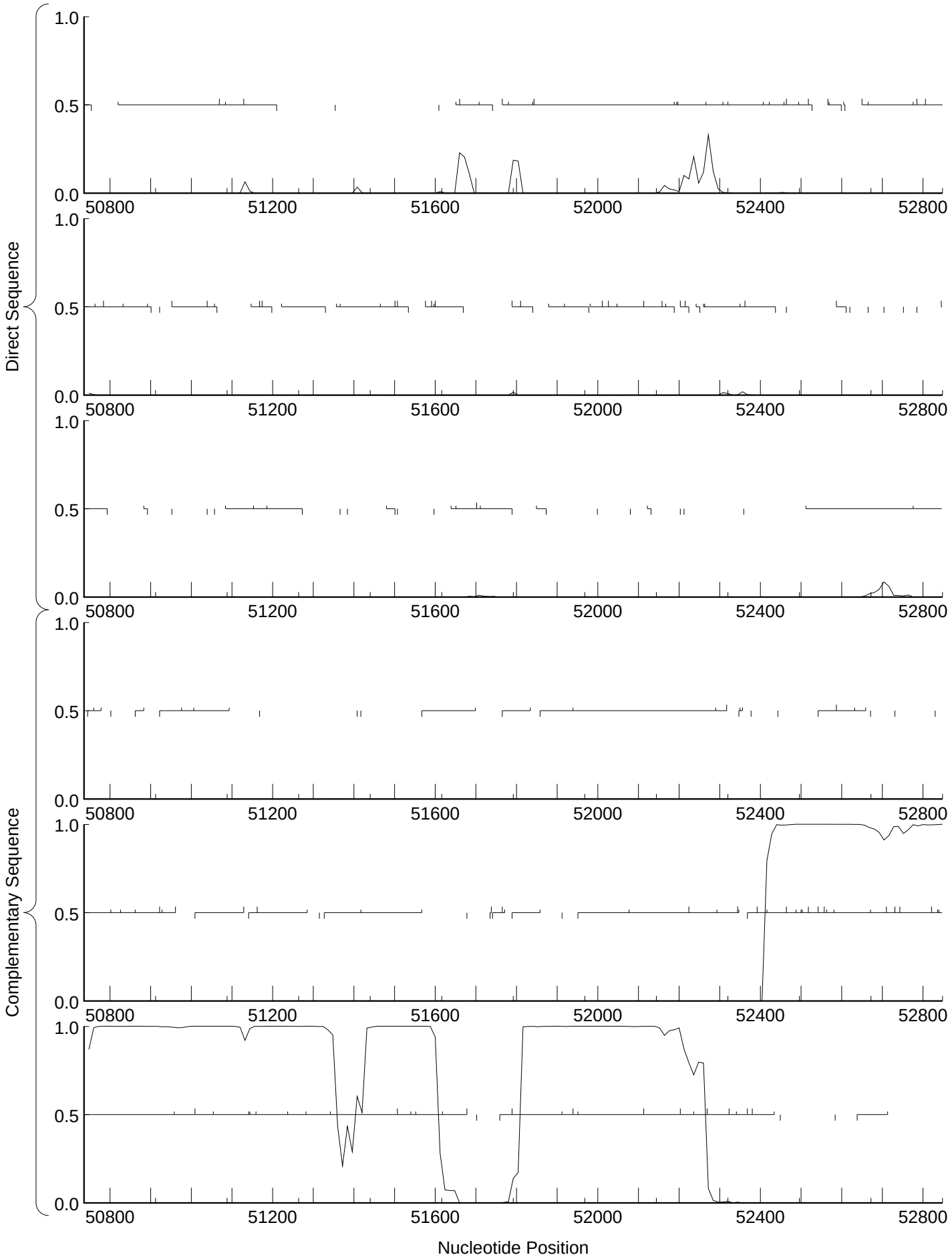
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 24/34



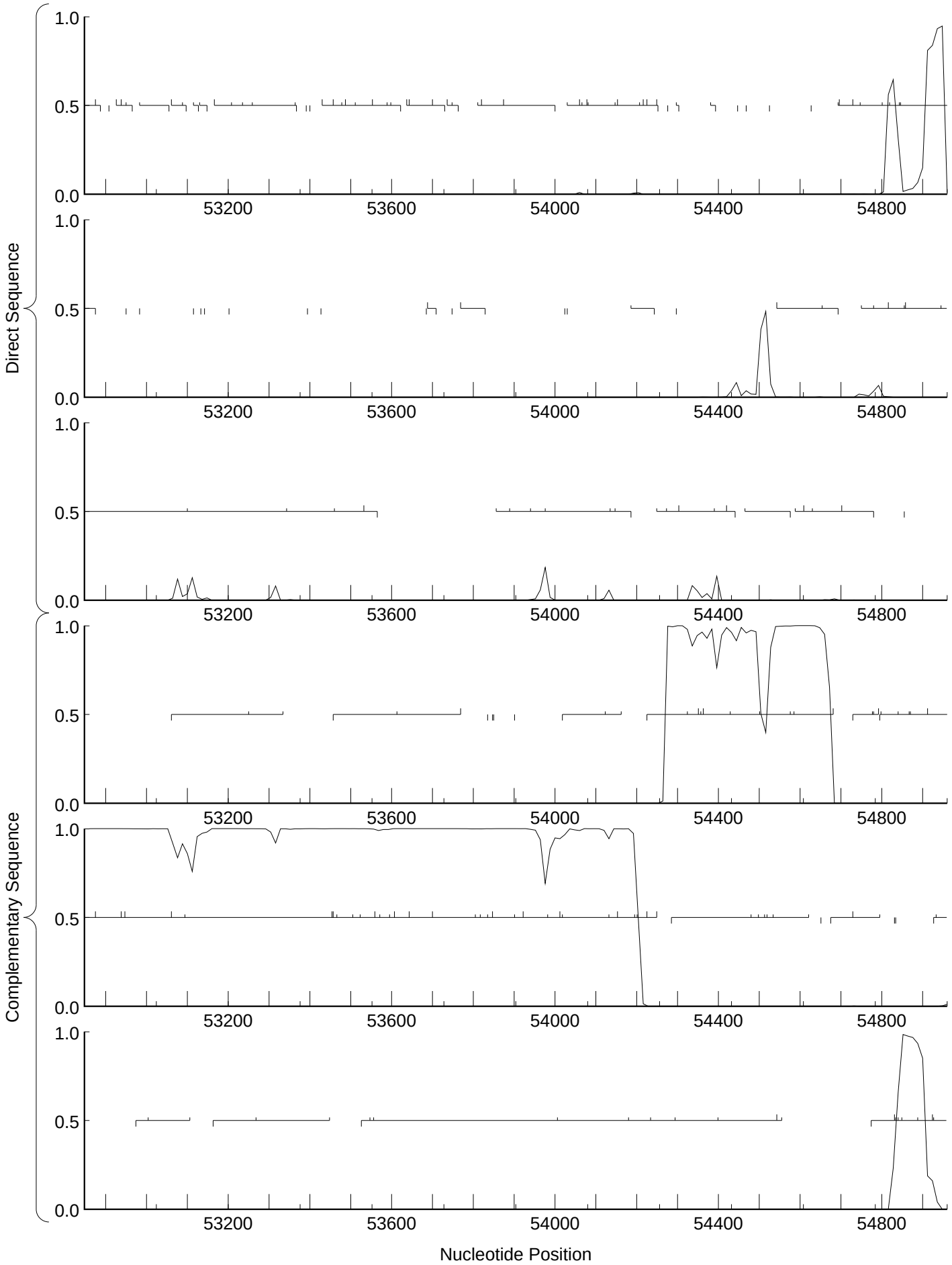
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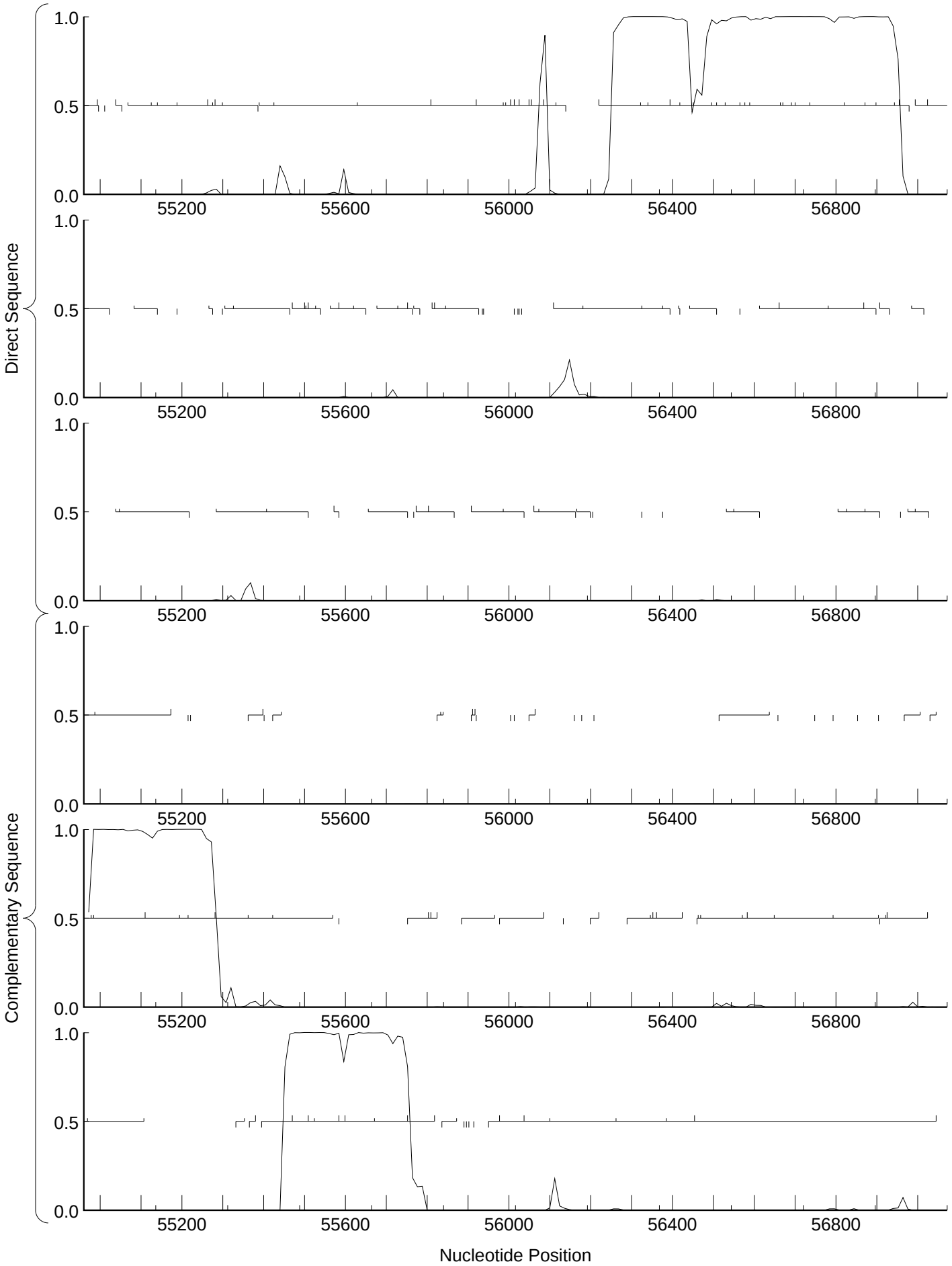
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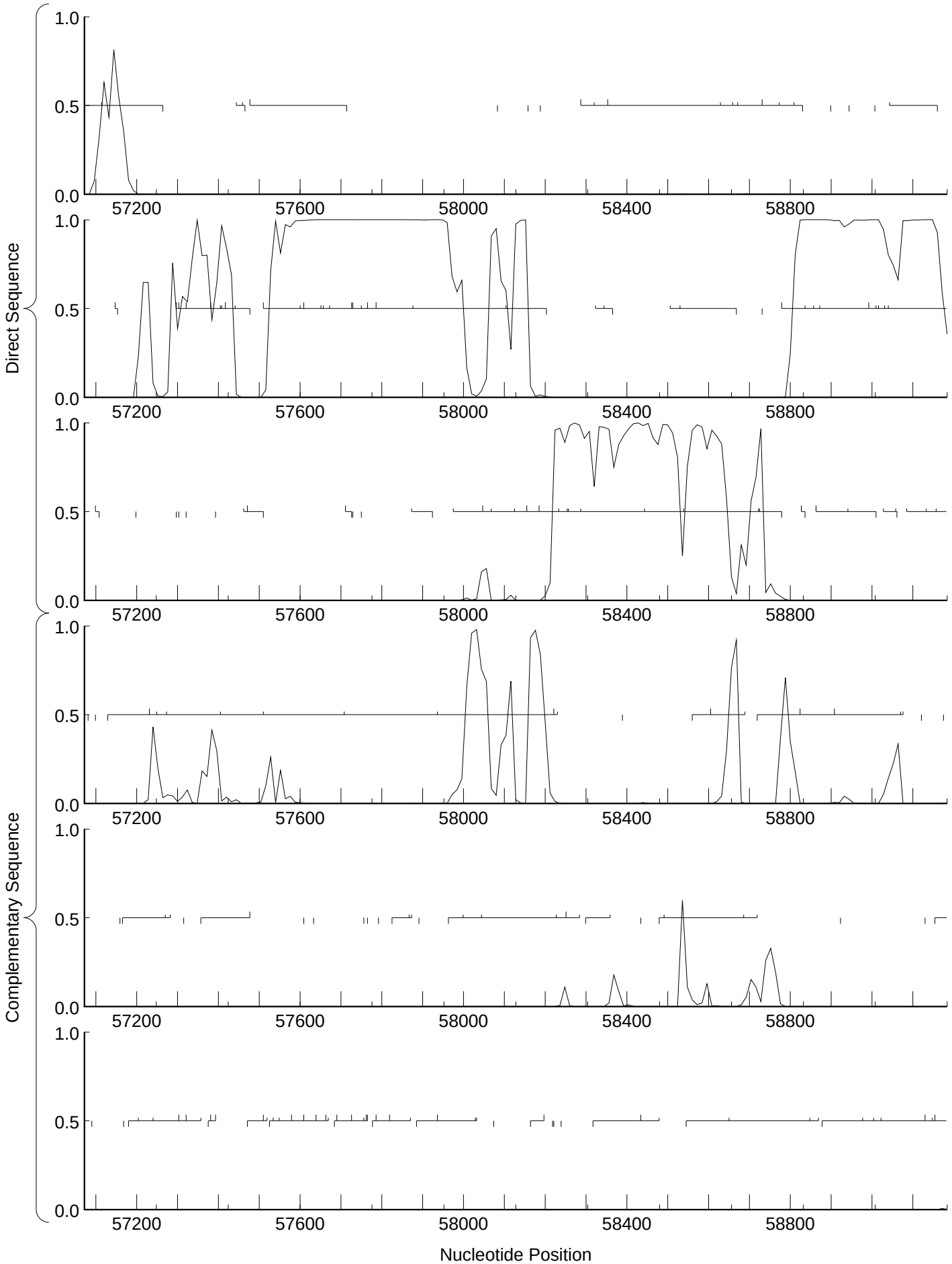


Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 27/34

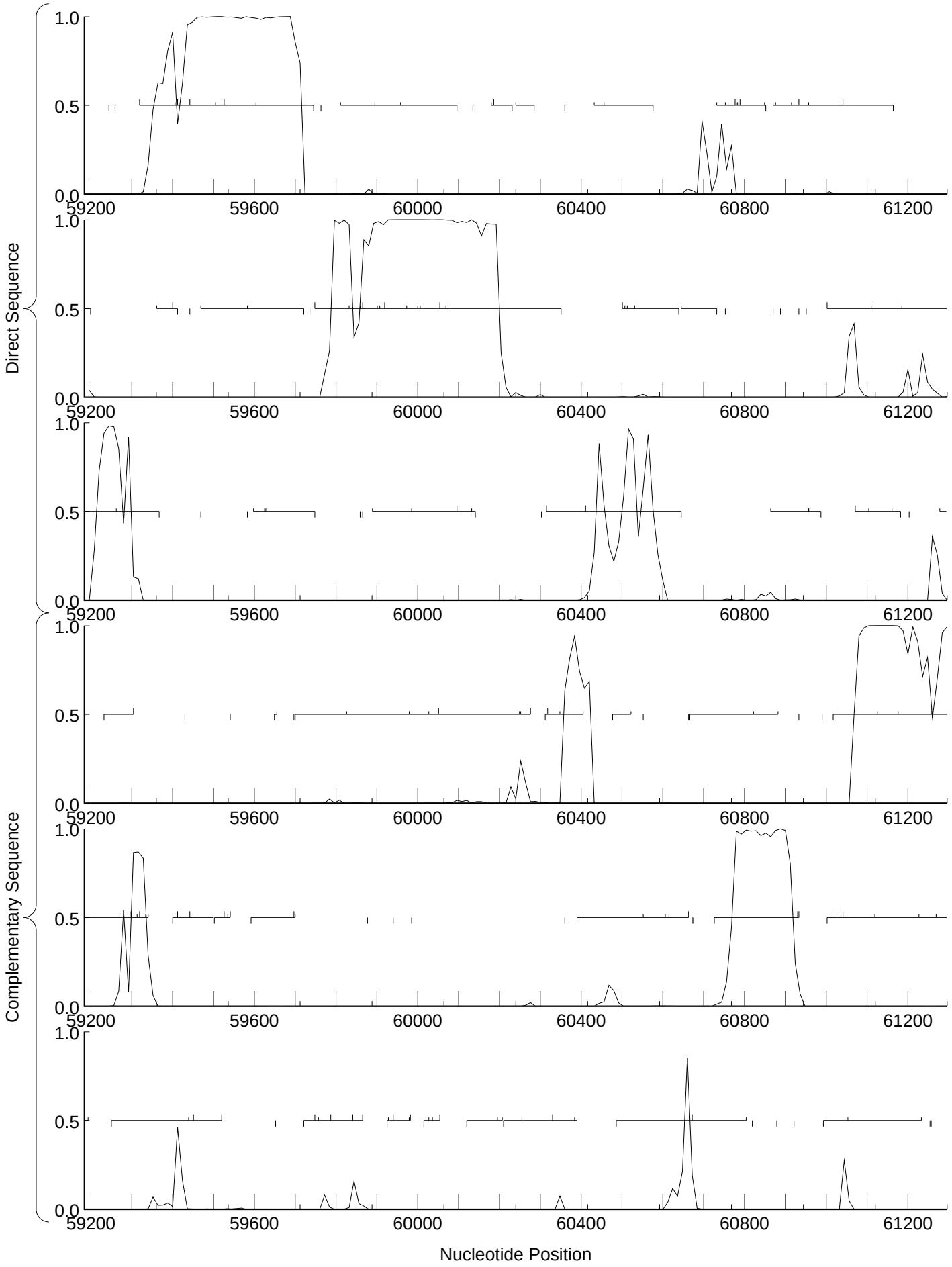


Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 28/34

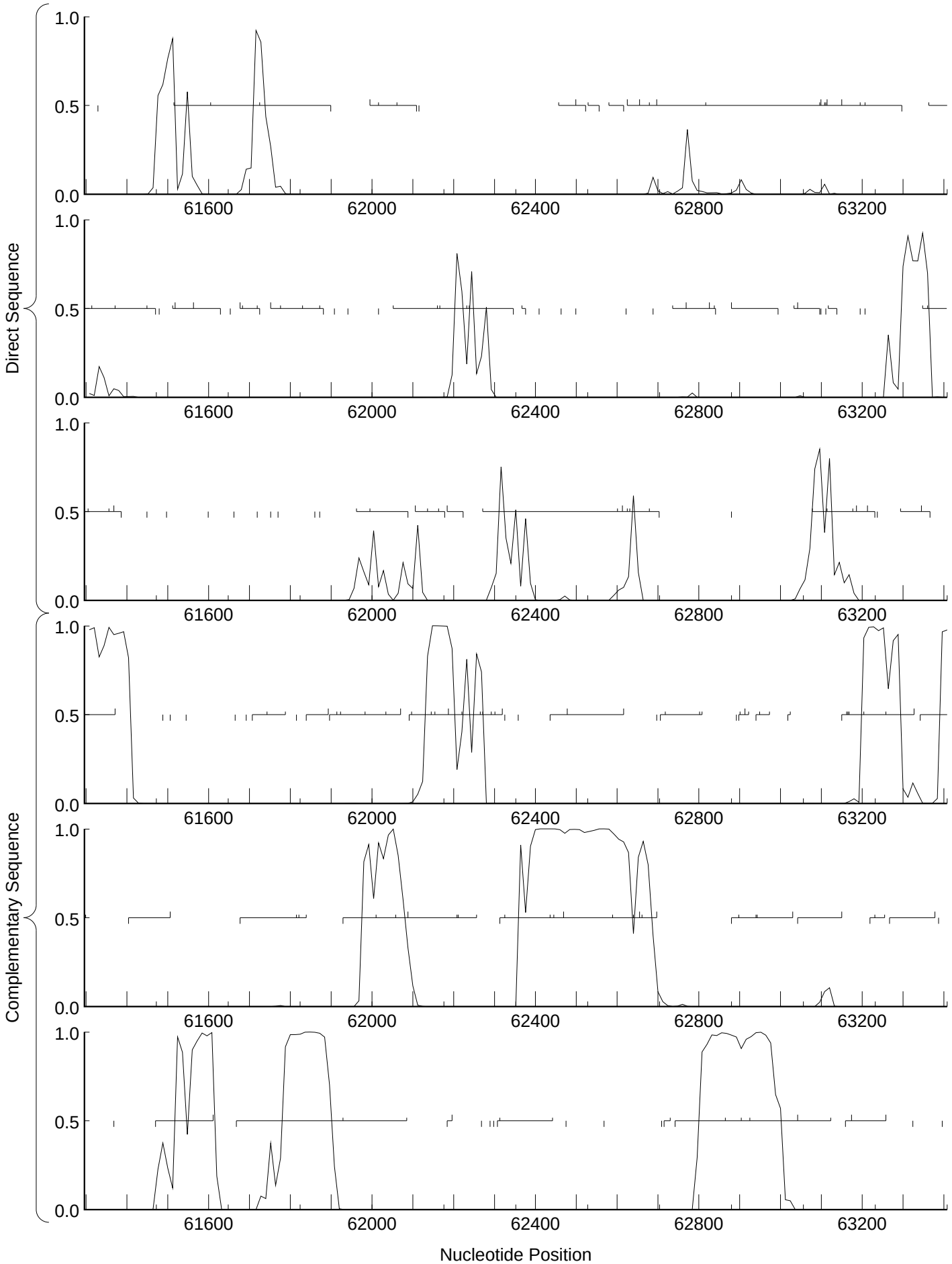


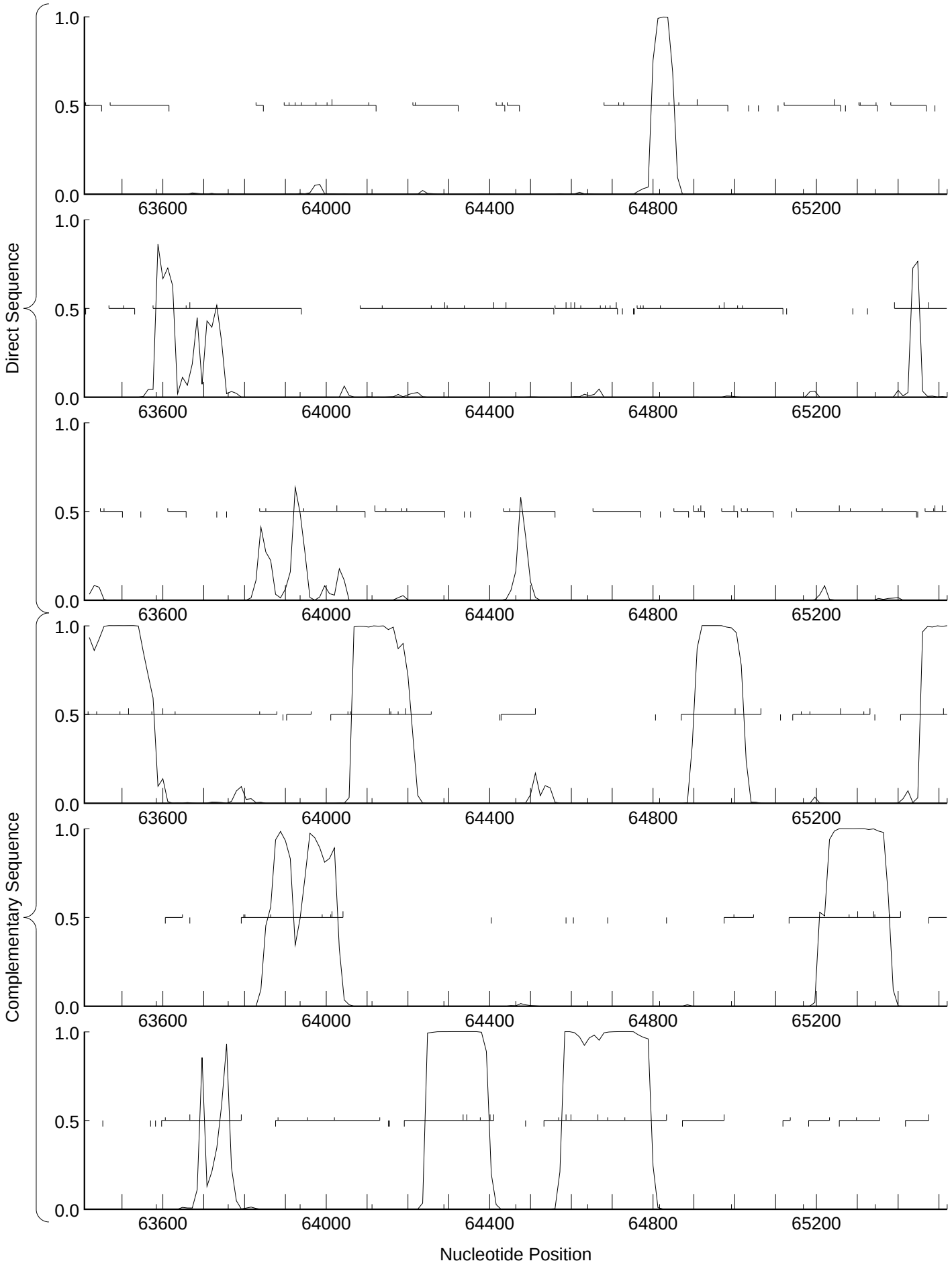

Direct Sequence
Complementary Sequence
1.0
0.5
0.0
57200
57600
58000
58400
58800
Nucleotide Position

Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 30/34

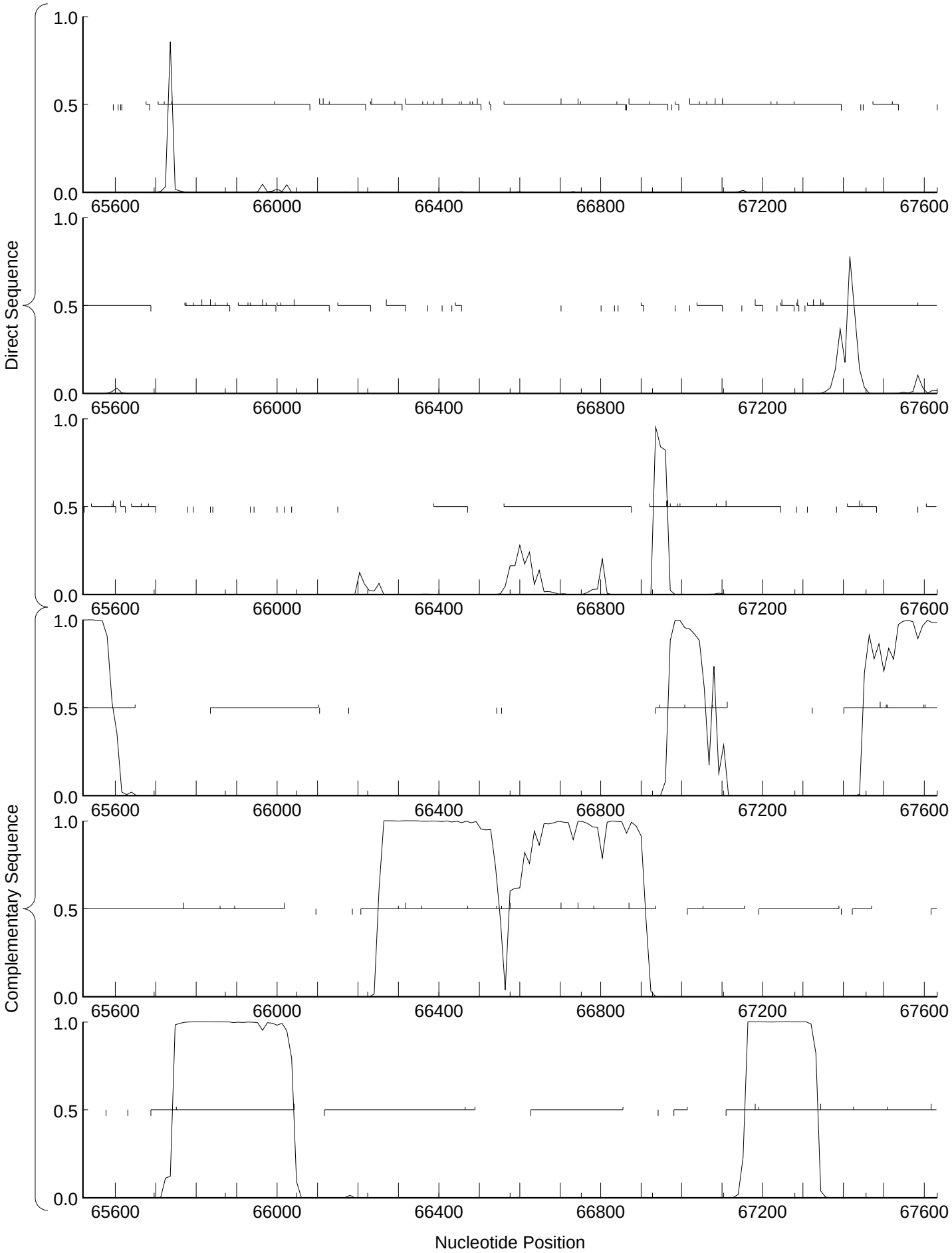


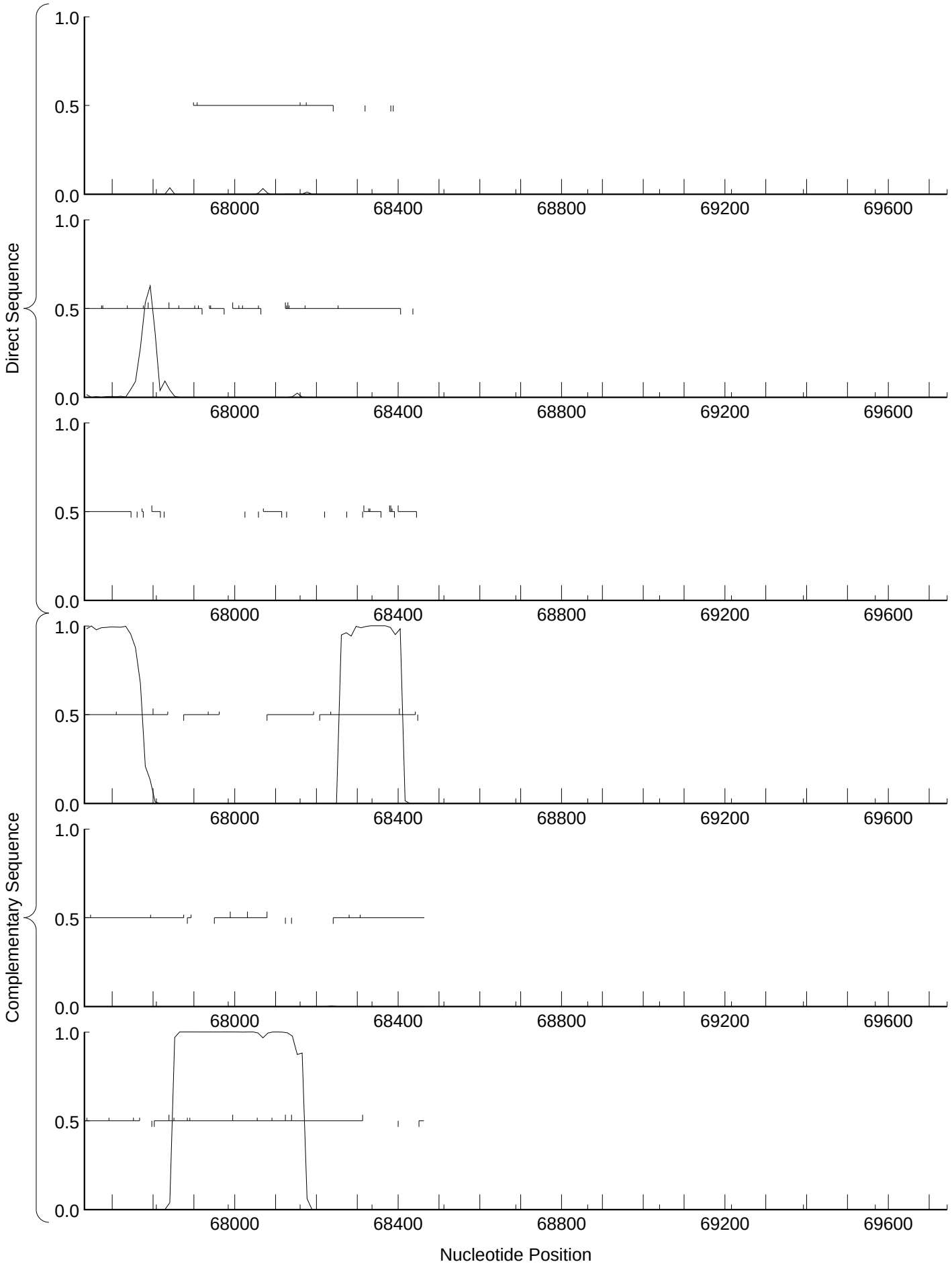
Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 31/34




Direct Sequence
Complementary Sequence
1.0
0.5
0.0
63600
64000
64400
64800
65200
Nucleotide Position

Mycobacterium phage Lumine complete sequence, 68513 bp, circularly permuted, Cluster B1, Order 4, Window 96, Step 12, 33/34




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