PROGRAM INFORMATION

Sequence: Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3’ overhang (CTCGTAGGCAT), Cluster K1
Analysis Date: 1/11/22 at 4:40:13
Pages: 30
Sequence Length: 60311 bp
GC Content: 66.77%
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: Mycobacterium_smegmatis_MC2_155
Author: -
Order: 4

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
<table>
<thead>
<tr>
<th>Nucleotide Position</th>
<th>Direct Sequence</th>
<th>Complementary Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 4/30
Complementary Sequence
Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 5/30
Complementary Sequence

Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3’ overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 6/30
## Mycobacterium phage TreyKay completeness analysis

The Mycobacterium phage TreyKay sequence was analyzed using the Phage Explorer tool. The complete sequence is 60,311 bases long, including a 11-base 3' overhang (CTCGTAGGCAT). The analysis was performed using Cluster K1, Order 4, Window 96, and Step 12. The results show a complete sequence with no gaps.

### Complementary Sequence

<table>
<thead>
<tr>
<th>Nucleotide Position</th>
<th>Direct Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>10800</td>
<td></td>
</tr>
<tr>
<td>11200</td>
<td></td>
</tr>
<tr>
<td>11600</td>
<td></td>
</tr>
<tr>
<td>12000</td>
<td></td>
</tr>
<tr>
<td>12400</td>
<td></td>
</tr>
</tbody>
</table>

### Direct Sequence

<table>
<thead>
<tr>
<th>Nucleotide Position</th>
<th>Complementary Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>10800</td>
<td></td>
</tr>
<tr>
<td>11200</td>
<td></td>
</tr>
<tr>
<td>11600</td>
<td></td>
</tr>
<tr>
<td>12000</td>
<td></td>
</tr>
<tr>
<td>12400</td>
<td></td>
</tr>
</tbody>
</table>

Graphs showing the analysis results are not included in this text summary.
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 8/30
Complementary Sequence Direct Sequence

Nucleotide Position

15200 15600 16000 16400 16800

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3’ overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 9/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 10/30
Complementary Sequence

Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 11/30
The figure shows the complementary and direct sequence Nucleotide Position plot for a Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 13/30.
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 15/30
Complementary Sequence

Direct Sequence

Nucleotide Position
Complementary Sequence

Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3’ overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 17/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 18/30
Complementary Sequence Direct Sequence

Nucletide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 19/30
Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3’ overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 20/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 21/30
Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 22/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 23/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 24/30

Nucleotide Position
Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 25/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 26/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 27/30
Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 28/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 29/30
Complementary Sequence Direct Sequence

Nucleotide Position

Mycobacterium phage TreyKay complete sequence, 60311 bp including 11-base 3' overhang (CTCGTAGGCAT), Cluster K1, Order 4, Window 96, Step 12, 30/30