Replication Timing Vs Encode Origin data, ENr112 (chr2:51512208_52012208)

**Annotation**

- **Bubble Hela1**
- **Bubble Hela1_2**
- **Bubble Hela2**
- **SNS**

**Timing of Hela**

- **TR50 (hours)**
  - 6
  - 4
  - 2

**Apparent replication speed**

- **Apparent speed (1/Slope_100kbp)**
  - 0.64 kb/min
  - 2 kb/min
  - 3.23 kb/min
  - 5 kb/min
  - 10 kb/min
Replication Timing Vs Encode Origin data, ENr121 (chr2:118011043_118511043)

### Annotation

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

### Timing of Hela

- TR50 (hours)
- Position (Mb)

### Apparent replication speed

- Position (Mb)
- Apparent speed (1/Slope_100kbp)

- 0.64 kb/min
- 2 kb/min
- 3.23 kb/min
- 5 kb/min
- 10 kb/min
Replication Timing Vs Encode Origin data, ENr331 (chr2:219985589_220485589)

**Annotation**

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

**Timing of Hela**

- TR50 (hours)
  - 6
  - 4
  - 2

**Apparent replication speed**

- Apparent speed (1/Slope_100kbp)
  - 0.64 kb/min
  - 2 kb/min
  - 3.23 kb/min
  - 5 kb/min
  - 10 kb/min

Graphs showing replication timing and apparent replication speed across different positions (Mb).
Replication Timing Vs Encode Origin data, ENr131 (chr2:234156563_234656627)

Timing of Hela

TR50 (hours)

Apparent replication speed

Apparent speed (1/Slope_100kbp)
Replication Timing Vs Encode Origin data, ENr113 (chr4:118466103_118966103)

**Annotation**

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

**Timing of Hela**

- TR50 (hours)
- 6
- 4
- 2
- 1

**Apparent replication speed**

- 0.64 kb/min
- 2 kb/min
- 3.23 kb/min
- 5 kb/min
- 10 kb/min
Replication Timing Vs Encode Origin data, ENr221 (chr5:55871006_56371006)

Annotation

Timing of Hela

Apparent replication speed

Apparent speed (1/Slope_100kbp)
Replication Timing Vs Encode Origin data, ENr212 (chr5:141880150_142380150)

Timing of Hela

Apparent replication speed

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS
- Encode
- CTR
- TTR
Timing of Hela

Apparent replication speed
Timing of Hela

Apparent replication speed

Replication Timing Vs Encode Origin data, ENr223 (chr6:73789952_74289952)
Replication Timing Vs Encode Origin data, ENr323 (chr6:108371396_108871396)

Timing of Hela

Apparent replication speed
Replication Timing Vs Encode Origin data, ENr222 (chr6:132218539_132718539)

**Timing of Hela**

TR50 (hours)

**Apparent replication speed**

Apparent speed (1/Slope_100kbp)

- 0.64 kb/min
- 2 kb/min
- 3.23 kb/min
- 5 kb/min
- 10 kb/min
Replication Timing Vs Encode Origin data, ENm010 (chr7:26924045_27424045)

### Annotation
- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

### Timing of Hela
- TR50 (hours)
- Position (Mb)

### Apparent replication speed
- Apparent speed (1/Slope_100kbp)
- Position (Mb)
Replication Timing Vs Encode Origin data, ENm013 (chr7:89621624_90736048)

**Annotation**

<table>
<thead>
<tr>
<th>Position (Mb)</th>
<th>Encode</th>
<th>CTR</th>
<th>TTR</th>
</tr>
</thead>
<tbody>
<tr>
<td>89.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>89.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90.2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90.6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90.8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Timing of Hela**

<table>
<thead>
<tr>
<th>Position (Mb)</th>
<th>TR50 (hours)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>89.6</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>89.8</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>90.0</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Apparent replication speed**

<table>
<thead>
<tr>
<th>Position (Mb)</th>
<th>Apparent speed (1/Slope_100kbp)</th>
</tr>
</thead>
<tbody>
<tr>
<td>89.6</td>
<td>-15</td>
</tr>
<tr>
<td>89.8</td>
<td>-10</td>
</tr>
<tr>
<td>90.0</td>
<td>-5</td>
</tr>
<tr>
<td>90.2</td>
<td>0</td>
</tr>
<tr>
<td>90.4</td>
<td>5</td>
</tr>
<tr>
<td>90.6</td>
<td>15</td>
</tr>
<tr>
<td>90.8</td>
<td></td>
</tr>
</tbody>
</table>
Replication Timing Vs Encode Origin data, ENm012 (chr7:113720368_114720368)

### Annotation
- **Encode**: ENm012
- **CTR**: Control
- **TTR**: Treatment

### Timing of Hela
- **TR50 (hours)**: Variation over position

### Apparent replication speed
- **Apparent speed (1/Slope_100kbp)**: Speed variations over position
Replication Timing Vs Encode Origin data, ENr321 (chr8:118882220_119382220)

Annotation

Timing of Hela

Apparent replication speed
Replication Timing Vs Encode Origin data, ENr232 (chr9:130725122_131225122)

### Annotation

- **Encode**: ENr232
- **CTR**: CTR
- **TTR**: TTR

### Timing of Hela

- **TR50 (hours)**
  - 6
  - 4
  - 2
  - 1

### Apparent replication speed

- **Apparent speed (1/Slope_100kbp)**
  - 0.64 kb/min
  - 2 kb/min
  - 3.23 kb/min
  - 5 kb/min
  - 10 kb/min

---

The images depict the replication timing of the Hela cell line compared to Encode Origin data. The graphs show the position (Mb) on the x-axis and various metrics on the y-axis. The graphs include annotations for Encode, CTR, and TTR conditions. The timing metrics are indicated by TR50 (hours), and the apparent replication speed is visualized with different speeds marked on the chart.
Replication Timing Vs Encode Origin data, ENm011 (chr11:1699991_2306039)

Annotation

Timing of Hela

Apparent replication speed
Replication Timing Vs Encode Origin data, ENm009 (chr11:4730995_5732587)

Annotation

Timing of Hela

Apparent replication speed
Replication Timing Vs Encode Origin data, ENr332 (chr11:63940888_64440888)

- **Annotation**

  - Bubble Hela1
  - Bubble Hela1_2
  - Bubble Hela2
  - SNS

- **Timing of Hela**

  - TR50 (hours): 6
  - Position (Mb): 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5

- **Apparent replication speed**

  - Apparent speed (1/Slope_100kbp): 0.64 kb/min, 2 kb/min, 3.23 kb/min, 5 kb/min, 10 kb/min
  - Position (Mb): 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5
Replication Timing Vs Encode Origin data, ENr312 (chr11:130604797_131104797)

**Timing of Hela**

- **TR50 (hours)**: The graph shows the timing of Hela cells with TR50 values ranging from 6 to 2 hours. The TR50 values are indicated at different positions along the Mb axis.

**Apparent replication speed**

- **Apparent speed (1/Slope_100kbp)**: The graph displays the apparent replication speed with values ranging from 0.64 kb/min to 10 kb/min. The speed is indicated at different positions along the Mb axis with corresponding speed markers.

The data is presented in a three-part graph, with the top part showing the annotation, the middle part showing the timing of Hela cells, and the bottom part showing the apparent replication speed. The graph uses different colors and markers to represent different conditions or datasets.
Replication Timing Vs Encode Origin data, ENr123 (chr12:38626476_39126476)

- **Annotation**: Gene positions (Mb)
- **Timing of Hela**: TR50 (hours) vs Position (Mb)
- **Apparent replication speed**: Speed (1/Slope_100kbp) vs Position (Mb)
Replication Timing Vs Encode Origin data, ENr111 (chr13:29418015_29918015)

**Timing of Hela**

- TR50 (hours)
  - Position (Mb)
  - 29.3 29.4 29.5 29.6 29.7 29.8 29.9 30.0

**Apparent replication speed**

- Apparent speed (1/Slope_100kbp)
  - Position (Mb)
  - 29.3 29.4 29.5 29.6 29.7 29.8 29.9 30.0

- Speeds:
  - 0.64 kb/min
  - 2 kb/min
  - 3.23 kb/min
  - 5 kb/min
  - 10 kb/min

Legend:
- Encode
- CTR
- TTR
Replication Timing Vs Encode Origin data, ENr132 (chr13:112338064_112838064)

**Timing of Hela**

**Apparent replication speed**
Replication Timing Vs Encode Origin data, ENr311 (chr14:52947075_53447075)

**Annotation**

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

**Timing of Hela**

- TR50 (hours)
  - 52.9 to 53.0
  - 53.1 to 53.2
  - 53.3 to 53.4
  - 53.5

**Apparent replication speed**

- Apparent speed (1/Slope_100kbp)
  - 0.64 kb/min
  - 2 kb/min
  - 3.23 kb/min
  - 5 kb/min
  - 10 kb/min

- Position (Mb)
  - 52.9 to 53.5
Replication Timing Vs Encode Origin data, ENr233 (chr15:41520088_42020088)

Annotation

Timing of Hela

Apparent replication speed
Replication Timing Vs Encode Origin data, ENm008 (chr16:0_500000)

Timing of Hela

Position (Mb)

TR50 (hours)

Apparent replication speed

Position (Mb)
Replication Timing Vs Encode Origin data, ENr211 (chr16:25780427_26280428)

Annotation

Timing of Hela

Apparent replication speed
Replication Timing Vs Encode Origin data, ENr313 (chr16:60833949_61333949)

**Annotation**

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

**Timing of Hela**

- TR50 (hours)

**Apparent replication speed**

- Apparent speed (1/Slope_100kbp)

- 0.64 kb/min
- 2 kb/min
- 3.23 kb/min
- 5 kb/min
- 10 kb/min
Replication Timing Vs Encode Origin data, ENr213 (chr18:23719231_24219231)

**Annotation**

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

**Timing of Hela**

- TR50 (hours)

**Apparent replication speed**

- Apparent speed (1/Slope_100kbp)
Replication Timing Vs Encode Origin data, ENr122 (chr18:59412300_59912300)

Annotation

Timing of Hela

Apparent replication speed

-5 0 5 10 15

59.3 59.4 59.5 59.6 59.7 59.8 59.9 60.0

Apparent speed (1/Slope_100kbp)

-15 -10 -5 0 5 10 15

59.3 59.4 59.5 59.6 59.7 59.8 59.9 60.0

Position (Mb)
Replication Timing Vs Encode Origin data, ENm007 (chr19:59023584_60024460)

### Annotation

- **TR50 (hours)**
  - 59.0
  - 59.2
  - 59.4
  - 59.6
  - 59.8

### Timing of Hela

- **TR50 (hours)**
  - 59.0
  - 59.2
  - 59.4
  - 59.6
  - 59.8

### Apparent replication speed

- **Apparent speed (1/Slope_100kbp)**
  - 0.64 kb/min
  - 2 kb/min
  - 3.23 kb/min
  - 5 kb/min
  - 10 kb/min
Replication Timing Vs Encode Origin data, ENr333 (chr20:33304928_33804928)

**Annotation**

- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS
- Encode
- CTR
- TTR

**Timing of Hela**

TR50 (hours)

- 33.2
- 33.3
- 33.4
- 33.5
- 33.6
- 33.7
- 33.8
- 33.9

**Apparent replication speed**

Apparent speed (1/Slope_100kbp)

- 0.64 kb/min
- 2 kb/min
- 3.23 kb/min
- 5 kb/min
- 10 kb/min

Position (Mb)

- 33.2
- 33.3
- 33.4
- 33.5
- 33.6
- 33.7
- 33.8
- 33.9
Replication Timing Vs Encode Origin data, ENm005 (chr21:32668236_34364221)
Replication Timing Vs Encode Origin data, ENr133 (chr21:39244466_39744466)

### Replication Timing

- **Annotation**
  - Bubble Hela1
  - Bubble Hela1_2
  - Bubble Hela2
  - SNS

- **Encode**
  - CTR
  - TTR

### Timing of Hela

- **TR50 (hours)**
  - 6
  - 4
  - 2
  - 3

### Apparent Replication Speed

- **Apparent speed (1/Slope_100kbp)**
  - 0.64 kb/min
  - 2 kb/min
  - 3.23 kb/min
  - 5 kb/min
  - 10 kb/min

Position (Mb)
Replication Timing Vs Encode Origin data, ENm004 (chr22:30133953_31833953)

**Timing of Hela**

- TR50 (hours): 6, 4, 2, 30.0, 30.5, 31.0, 31.5, 32.0
- Apparent replication speed (1/Slope_100kbp): 0.64 kb/min, 2 kb/min, 3.23 kb/min, 5 kb/min, 10 kb/min

**Annotation**
- Bubble Hela1
- Bubble Hela1_2
- Bubble Hela2
- SNS

**Encode**
- CTR
- TTR
Replication Timing Vs Encode Origin data, ENr324 (chrX:122609995_123109995)
Replication Timing Vs Encode Origin data, ENm006 (chrX:152767491_154063081)

- **Annotation**
  - Bubble Hela1
  - Bubble Hela1_2
  - Bubble Hela2
  - SNS

- **Timing of Hela**
  - TR50 (hours)

- **Apparent replication speed**
  - Apparent speed (1/Slope_100kbp)