Figure S1

Tumor 1  Tumor 7  Tumor 13
Tumor 2  Tumor 8  Tumor 14
Tumor 3  Tumor 9  Tumor 15
Tumor 4  Tumor 5  Tumor 10
Tumor 6  Tumor 11  Tumor 12
Normal
Figure S2

![Bar chart showing the ratio of expression for various genes in Adenocarcinoma and Normal mucosa.](image)

- **Gene Symbols:** Card10, Nudufa3, Gpt2, Neto2, Orcl6, Gadd45, Pira4, Pira5, Pira6, Pira7, Pira10, p91D

**Legend:**
- Black bars: Adenocarcinoma
- White bars: Normal mucosa
**Figure S3**

A

<table>
<thead>
<tr>
<th>Cell Line</th>
<th>miR-27a</th>
<th>miR-23a</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCSC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LoVo</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW480</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RKO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HT29</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCT116</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCT116</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LS714</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DLD1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Fold Expression

B

- Ctrl shRNA
- miR-23a KD shRNA
- miR-27a KD shRNA

Relative Fold Expression

C

- Ctrl LNA
- miR-23a KD LNA
- miR-27a KD LNA

Relative Fold Expression

D

- Ctrl LNA
- miR-23a KD LNA
- miR-27a KD LNA

Cell number (%)
Figure S4

A

Cell number (%)

<table>
<thead>
<tr>
<th></th>
<th>Ctrl</th>
<th>miR-23a KD</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoVo</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>SW480</td>
<td>100</td>
<td>80</td>
</tr>
<tr>
<td>CCSC</td>
<td>100</td>
<td>80</td>
</tr>
</tbody>
</table>

B

Size of Foci (mm³)

<table>
<thead>
<tr>
<th></th>
<th>Ctrl</th>
<th>miR-23a KD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCSC</td>
<td>1500</td>
<td>900</td>
</tr>
</tbody>
</table>

C

Tumor Volume mm³

<table>
<thead>
<tr>
<th>Weeks Post Injection</th>
<th>Ctrl</th>
<th>miR-23a KD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>50</td>
<td>40</td>
</tr>
<tr>
<td>2</td>
<td>100</td>
<td>90</td>
</tr>
<tr>
<td>3</td>
<td>200</td>
<td>180</td>
</tr>
<tr>
<td>4</td>
<td>350</td>
<td>300</td>
</tr>
<tr>
<td>5</td>
<td>400</td>
<td>350</td>
</tr>
<tr>
<td>6</td>
<td>450</td>
<td>400</td>
</tr>
</tbody>
</table>

Note: The graphs show the comparison of cell number, size of foci, and tumor volume between Ctrl and miR-23a KD conditions over weeks post injection.
Figure S5

Relative Expression Level

- Ctrl
- miR-23a OE
- miR-27a OE
Figure S6

A

![Bar chart showing cell number comparison between Ctrl and miR-27a OE.](image)

B

![Image showing clonogenicity for Ctrl and miR-27a OE.](image)

C

![Graph showing clonogenicity (%).](image)
Figure S7

A

B

C

Percent Migration

Percent Invasion

miR-23a OE

Ctrl

miR-23a OE

Ctrl
Figure S8

A

B

Observed test statistic

Permutation test statistics

Frequency

0.0 0.5 1.0 1.5 2.0 2.5 3.0

0 500 1000 1500 2000 2500

Observed test statistic

Permutation test statistics

Frequency

0.0 0.5 1.0 1.5 2.0 2.5

0 500 1000 1500 2000
Figure S9