Supplementary Table S3:

Putative binding sites of the miR-338-5p and miR-421 for the indicated target genes, related to **Fig. 3, 4** and **5.** List of predicted miR-338-5p and miR-421 binding sites on the 3’ UTR of the indicated target genes, as detected by miRanda (http://www.microrna.org), where mirSVR score predicts the strength of interaction between miRNA and target gene.

<table>
<tr><th>Sn. No.</th><th>Gene</th><th>MiR-338-5p binding site</th><th>mirSVR score</th><th>MiR-421 binding site</th><th>mirSVR score</th></tr>
<tr><td>1.</td><td><i>CDK1</i></td><td>3’ gugaGUCGUGGUCCUAU - AACAa 5’
: | || || || || || ||
25: 5’ guuaUAUCAACA - GAUAGUUGUg 3’</td><td>-1.0732</td><td></td><td></td></tr>
<tr><td>2.</td><td><i>CDK6</i></td><td>3’ guGAGUCGU - - GGUCCUAUAACAa 5’
| : |||| : : | ||| ||||
2860: 5’ cuCAUAGCAAGUUAAAAUAUUGUg 3’</td><td>-0.0060</td><td>3’ cgcggGUUAAUUACAGACAACUa 5’
||: |: | || |||||
7944: 5’ gggaaCAGGCAGU- ACUGUUGAg 3’</td><td>-0.0010</td></tr>
<tr><td></td><td><i>CDK6</i></td><td>3’ guGAGU -CGUGGUCCUAUAACAa 5’
: | :| | || | |||||| ||
4067: 5’ ucUUUAUGAACAAAUAUAUUGUa 3’</td><td>-0.0423</td><td>3’ cgcGGGUUAAUUACAGACAACUa 5’
: : ||| ||| |||||
9942: 5’ uuuUUCAA - - AAUUGGUGUUGAa 3’</td><td>-0.0006</td></tr>
<tr><td>3.</td><td><i>MCM3</i></td><td>3’ gugagucgugguccUAUAACAa 5’
:|||| ||
481: 5’ guuaaggugaauauGUAUUGUa 3’</td><td>-0.0678</td><td>3’ cgcggguuaauuacagACAACUa 5’
||||||
525: 5’ agaugaauauccgagaUGUUGAa 3’</td><td>-0.0616</td></tr>
<tr><td>4.</td><td><i>MCM10</i></td><td>3’ gugagucgugguccuAUAACAa 5’
|||| ||
1146: 5’ guaaauugguuggaauUAUUGUa 3’</td><td>-0.0710</td><td>3’ cgCGGGUUAAUUACAGAC - AACUa 5’
|: || || |:|| ||| ||||
74: 5’ uuGUCC - AUUGAUUCCUGAUUGAc 3’</td><td>-0.1004</td></tr>
<tr><td></td><td><i>MCM10</i></td><td>3’ gugAGUCGU- GGU - - - CCUAUAACAa 5’
||||: | : || | |||||||
1669: 5’ cagUCAGUAUUCACGUGUAUAUUGUu 3’</td><td>-0.6754</td><td>3’ cgcggguuAAUUACAGACAACUa 5’
| |: || |||| ||
1107: 5’ auuugaccUAAGUGAAUGUUGAu 3’</td><td>-0.0127</td></tr>
<tr><td>5.</td><td><i>CCNA2</i></td><td></td><td></td><td>3’ cgcggguuaauuacagACAACUa 5’
||| |||
1130: 5’ agcaaaccucuauaagUGUUGAg 3’</td><td>-0.0657</td></tr>
<tr><td>6.</td><td><i>CCNE2</i></td><td>3’ gugagucgugguccuAUAACAa 5’
|||| ||
1203: 5’ aagaaacuauacauuUAUUGUu 3’</td><td>-0.0323</td><td></td><td></td></tr>
<tr><td>7.</td><td><i>EPCAM</i></td><td>3’ guGAGUCGUGGUCCUAU-AACAa 5’
: | :| ||: || ||| || ||
104: 5’ agUUUAACAUCA - UAUAUUUGUa 3’</td><td>-1.2590</td><td></td><td></td></tr>
<tr><td>8.</td><td><i>c-Kit</i></td><td>3’ gugaGUCGUGGUCCUAUA-ACAa 5’
||| : | : | |||| |||
1087: 5’gggcCAGUAUCUAUAUAUGUGUa 3’</td><td>-0.8710</td><td>3’ cgcgggUUAAUUACAGAC-AACUa 5’
| || : ||| ||| ||||
939: 5’ caauggAUUUGAUG-CUGUUUGAc 3’</td><td>-0.4369</td></tr>
<tr><td></td><td><i>c-Kit</i></td><td>3’ gugagucgugguccUAUAACaa 5’
||||||
1937: 5’ ggcuuuuuuuguaaAUAUUGaa 3’</td><td>-0.2657</td><td>3’ cgcGGGUUAAUUACA - - - - GACAACUa 5’
|| : : |: ||| :||||||
2091: 5’ auuCCUGUAUGUUGUCCAAUUGUUGAc 3’</td><td>-0.0291</td></tr>
<tr><td>9.</td><td><i>SOX2</i></td><td>3’ gugagucgugguccuAUAACAa 5’
||||||
899: 5’ auauuucuguaaauuUAUUGUg3’</td><td>-0.4237</td><td></td><td></td></tr>
<tr><td>10.</td><td><i>SOX9</i></td><td>3’ guGAGUCGUGGUCCUAUAACAa 5’
: | : || | |||| |||
1491: 5’ cuUUGGGCUGCCUUAUAUUGUg 3’</td><td>-0.1917</td><td>3’ cgcggguuaauuacAGACAACua 5’
|||||||
1226: 5’ aaaggguauggucaUCUGUUGuu 3’</td><td>-0.1024</td></tr>
<tr><td></td><td><i>SOX9</i></td><td>3’ gugagucgugguccuAUAACAa 5’
||||||
1981: 5’ uuuuuuuuuguauauUAUUGUu 3’</td><td>-0.2106</td><td>3’ cgcGGGUUAAUUACAGACAACUa 5’
| : : : | | : | | : ||||||
1376: 5’ uuuCUUUGUU-GUUUUUGUUGAa 3’</td><td>-0.0908</td></tr>
<tr><td>11.</td><td><i>ABCG2</i></td><td>3’ gugAGU-CGUGGUCCUAUAA- CAa 5’
|||| : | | | ||||| ||
187: 5’ acaUCAUGUAUC-GCAUAUUAGUa 3’</td><td>-0.3691</td><td></td><td></td></tr>
<tr><td>12.</td><td><i>TET1</i></td><td>3’ gugagucgugguccuAUAACAa 5’
: ||||||
655: 5’ auaguauaagaauccUAUUGUc 3’</td><td>-0.0772</td><td>3’ cgcgggUUAAUUACAGACAACUa 5’
|| ||| : ||||||
1126: 5’ agaaaaAAAAAAUUCUUGUUGAa 3’</td><td>-0.0497</td></tr>
<tr><td></td><td><i>TET1</i></td><td>3’ guGAGUCGU-GGUCCUAU-AACAa 5’
|| || : | || |||| ||||
1083: 5’ aaCUAAGUAGACA-GAUAUUUGUa 3’</td><td>-0.3136</td><td>3’ cgcgggUUAAUUACAGACAACUa 5’
: ||| || :||| |||
1763: 5’ caaguaGAUUUCUGCUUGUUGAa 3’</td><td>-0.0435</td></tr>
</table>

<table>
<tr><th>Sn. No.</th><th>Gene</th><th>MiR-338-5p binding site</th><th>mirSVR score</th><th>MiR-421 binding site</th><th>mirSVR score</th></tr>
<tr><td>13.</td><td>*SUZ12*</td><td>3′ guGAGUCGUGGUCCUAU - AACAa 5′
: ||| || |||||| ||||
124: 5′ auUUCA - - ACAAGGAUAUUUGUa 3′</td><td>-0.6815</td><td>3′ cgcgggUUAAUUACAGACAACUa 5′
||||| | |||| ||||
1775: 5′ uaauaaAAUUACU-UCUGUUGAg 3′</td><td>-1.2313</td></tr>
<tr><td></td><td>*SUZ12*</td><td>3′ gugAGUCGUGG - UCCUAUAACaa 5′
|:| | :: | |||||||
1172: 5′ uuaUUAUCCUUAAAGAUAUUGca 3′</td><td>-0.3337</td><td>3′ cgcGGGUUAAUUACAGAC - AACUa 5′
:: || | ||| ||| ||||
1775: 5′ uucUUCAUCUUAUGCCUGUUUGAg 3′</td><td>-0.5071</td></tr>
<tr><td>14.</td><td>*AEBP2*</td><td>3′ gugagucguggUCCUAUAACAa 5′
||||||| |||
582: 5′ aauaauauugaAGGAUAUUGUa 3′</td><td>-0.5066</td><td>3′ cgcGGGUUAA - - UUACAGA - CAACUa 5′
:: | : ||| ||||| |||||
2436: 5′ guuUUCGAUUCCUUUGUCUAGUUGAc 3′</td><td>-0.2690</td></tr>
<tr><td></td><td>*AEBP2*</td><td>3′ gugagucgugguccUAUAACAa 5′
:||| |||
423: 5′ uguguaacuuguuaGUAUUGUa 3′</td><td>-0.5066</td><td></td><td></td></tr>
<tr><td>15.</td><td>*RBBP4*</td><td>3′ gugagUCGUGGU - - CCUAUAACAa 5′
: ||| :: | : ||||||
4232: 5′ uuuaaGGCAUUAAUUAGUAUUGUu 3′</td><td>-0.0009</td><td>3′ cgcggguuaauuacagACAACUa 5′
||||||
1775: 5′ uuugauacugauuacaUGUUGAg 3′</td><td>-0.0051</td></tr>
<tr><td>16.</td><td>*RBBP7*</td><td>3′ gugaguCGUG - - GUCCUAUAACAa 5′
|: || :| ||||| ||
49: 5′ uguugcGUACUGUAUCAUAUUGUa3′</td><td>-1.0487</td><td>3′ cgCGGGUUAAUUAC - - AGACAACUa 5′
|: |:| |||| ||||||||
6: 5′ aaGUACGAGAAAUGUUUCUGUUGA3′</td><td>-1.3579</td></tr>
<tr><td>17.</td><td>*HDAC2*</td><td>3′ gugaGUCGUGGUCCUAUAACAa 5′
:|| ||:| ||||| ||
4642: 5′ aaaaUAGAACUAUCAUAUUGUa 3′</td><td>-0.1439</td><td>3′ cgcGGGUUAAUUACAGACAACUa 5′
: |: :|| | |||||||
2001: 5′ uauUCUGAUCUACCCCUGUUGAc 3′</td><td>-0.0284</td></tr>
<tr><td></td><td>*HDAC2*</td><td>3′ guGAGUCGUGGUCCUAUAACAa 5′
:||| ||| | |||| ||
860: 5′ caUUCAGCAACUACUUAUUGUa 3′</td><td>-0.0005</td><td></td><td></td></tr>
<tr><td>18.</td><td>*MTF2*</td><td>3′ gugAGUCGUGGU - CCUAUAACAa 5′
||| :: :: | ||||||| ||
152: 5′ cugUCAAUGUUAUGGAUAUUGUa 3′</td><td>-0.3136</td><td>3′ cgcGGGUUAAUUACAGACAACUa 5′
| || |:| | ||||||
1704: 5′ uaaCACACAGAGUUUGUGUUGAu 3′</td><td>-0.1805</td></tr>
<tr><td></td><td>*MTF2*</td><td>3′ gugagucgugguccUAUAACaa 5′
||| |||
469: 5′ ugaaagacuguaaaAUAUUGaa 3′</td><td>-0.3521</td><td></td><td></td></tr>
</table>