

**Supplementary Table S1.** Sequences of primers used in constructing luciferase plasmids and site-directed mutagenesis of the miRNA target sequences

Gene (miR362 target sites)	Wild-type construct	Mutant construct
<p><b>SMAD4</b> (containing both the miR362-5p &amp; -3p sites)</p>	<p><b>SMAD4-SacI-Forward primer</b> 5' -AGT<u>GAGCTC</u>GGGACTTCCCCATGGACATT-3'</p> <p><b>SMAD4-XhoI-Reverse primer</b> 5' - AGT<u>CTCGAG</u>ACCATCAAACCAGGCACAGA-3'</p>	<p style="text-align: center;"><b><u>SMAD4-Mut1 (miR362-5p)</u></b></p> <p><b>First set:</b> <b>Luciferase-SacI-Forward primer</b> 5' -CTAGTTGTTTAAAC<u>GAGCTC</u>-3'</p> <p><b>SMAD4-Mutant-Reverse primer</b> 5' -GAAAGATA<u>taggagt</u>ATTTTATTTTCATACTATTTATCCTG-3'</p> <p><b>Second set:</b> <b>SMAD4-Mutant-forward primer</b> 5' -GAAATAAAAT<u>actccta</u>TATCTTTCAGATGTGTTTACTTTTG-3'</p> <p><b>SMAD4-XmaI-Reverse primer</b> 5' -AATCAGTTGAA<u>CCCGGG</u>AG-3'</p> <p style="text-align: center;"><b><u>SMAD4-Mut2 (miR362-3p)</u></b></p> <p><b>First set:</b> <b>SMAD4-BstZ17I-Forward primer</b> 5' -GCCCCTG<u>GTATAC</u>AAAGATAATGACAATA-3'</p> <p><b>SMAD4-Mutant-Reverse primer</b> 5' -ACACCCCCTTT<u>cacacaa</u>ACACCCTGCCC-3'</p>

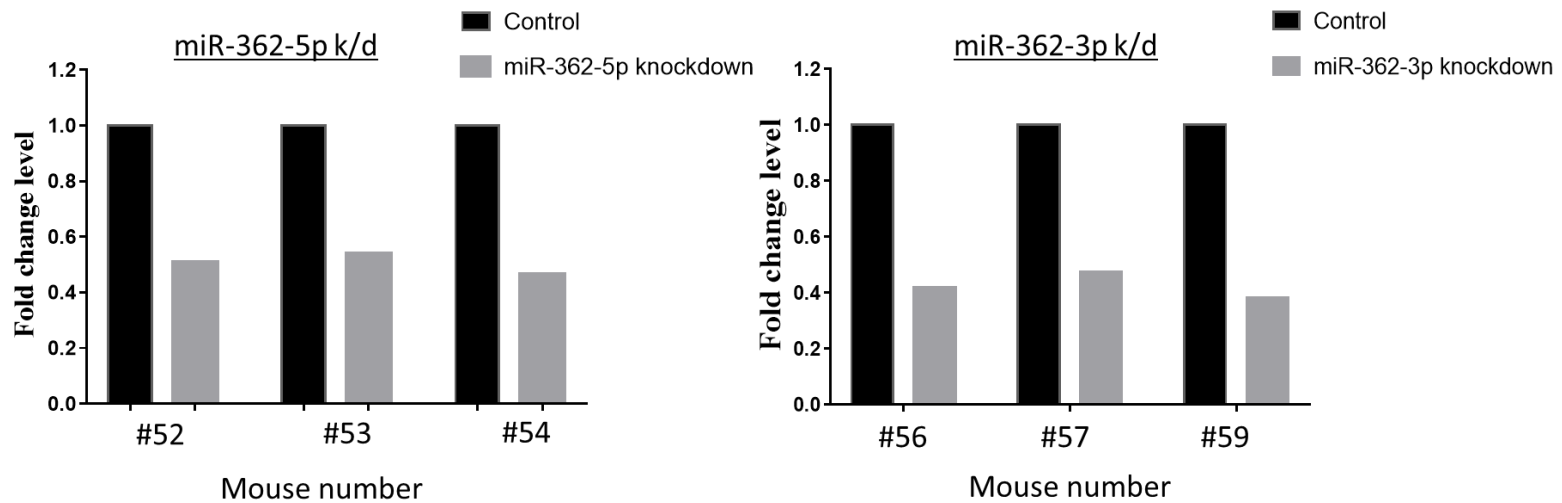
		<p><b>Second set:</b>  <b>SMAD4-Mutant-Forward primer</b>  5' - GGCAGGGTGT <u>ttgtgtg</u> AAAGGGGGGTGTTTG - 3'</p> <p><b>SMAD4-XhoI-Reverse primer</b>  5' - TAGA <u>CTCGAG</u> ACCATCAAACCAGGCA - 3'</p>
<p><b>SNAI1</b>  (miR-362-5p site)</p>	<p><b>SNAI1-SacI-Forward primer</b>  5' - GCT <u>GAGCTC</u> CCCCTCGAGGCTCCCTCTT - 3'</p> <p><b>SNAI1-XbaI-Reverse primer</b>  5' - GCAT <u>TCTAGA</u> TGCTTTATTGAATATCAATAAAC - 3'</p>	<p style="text-align: center;"><b><u>SNAI1-Mut</u></b></p> <p><b>First set:</b>  <b>XmaI SNAI1-Forward primer</b>  5' - GTGGCACCTGTTT <u>CCCGGG</u> CAATTTAAC - 3'</p> <p><b>SNAI1-Reverse primer</b>  5' - CTATACAAAACGTT <u>aggagt</u> ATACAAAATGTTTGAAATATAAATA CC - 3'</p> <p><b>Second set:</b>  <b>XmaI SNAI1-Forward primer</b>  5' - GTGGCACCTGTTT <u>CCCGGG</u> CAATTTAAC - 3'</p> <p><b>SNAI1-Reverse primer</b>  5' - TGCCTGCAGGTCGAC <u>TCTAGA</u> TGCTTTATTGAATATCAATAAACT GTACATATAACTATACAAAACGTT <u>aggagt</u> ATAC - 3'</p>
<p><b>CDH1</b>  (Two miR-362-3p sites)</p>	<p><b>CDH1-SacI-Forward primer</b>  5' - ATC <u>GAGCTC</u> CCCAGCACCTTGCAGATTTTC - 3'</p> <p><b>CDH1-XbaI-Reverse primer</b>  5' - ATC <u>TCTAGA</u> TTCGGCTCTGTCTTTGGCTG - 3'</p>	<p style="text-align: center;"><b><u>CDH1-Mut1</u></b></p> <p><b>First set:</b>  <b>Luciferase-SacI-Forward primer</b>  5' - CTAGTTGTTTAAAC <u>GAGCTC</u> - 3'</p> <p><b>CDH1-Mutant-Reverse primer:</b>  5' - AGAGGG <u>cacacaa</u> AGTGTAGTAATGAGCAGAAG - 3'</p>

		<p><b>Second set:</b>  <b>CDH1-mutant-Forward primer</b>  5' -CTACACT <u><i>ttgtgtg</i></u>CCCTCTGCCTTTTTTTTTTTTTTAAG-3'</p> <p><b>CDH1-EcoRI-Reverse primer</b>  5' -GCAAAGCAACT <u>GAATTC</u>AGG-3'</p> <p style="text-align: center;"><b><u>CDH1-Mut2</u></b></p> <p><b>First set:</b>  <b>CDH1-EcoRI-Forward primer</b>  5' -TCAACTCTCACTCCT <u>GAATTC</u>-3'</p> <p><b>CDH1-mutant-Reverse primer</b>  5' -CATTAATG <u><i>ccacaca</i></u>TTACTCAGAACAAGTCACTG-3'</p> <p><b>Second set:</b>  <b>CDH1-mutant-Forward primer</b>  5' -TGAGTAA <u><i>tgtgtgg</i></u>CATTAATGTTTATTTAGCTCTG-3'</p> <p><b>CDH1-XbaI-Reverse primer</b>  5' -TGCAGGTCGACT <u>TCTAGA</u>TTC-3'</p>
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Letters in bold uppercase letters and underlined are restriction enzyme recognition sequences. Letters in bold lowercase italics letters and underlined are mutated seed sequences.

## Supplementary Figure S1

Analysis of miR-362-5p/-3p expression levels from subcutaneous tumors with miR-362-5p/-3p knockdown (k/d). Mice were generated using different cell batches and were designated different mouse numbers.



## Supplementary Figure S2

Putative miR-362-3p/-5p binding sites in 3'UTR  
of the DACH1 and BRK transcripts

