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MicroRNA-497 increases apoptosis in MYCN amplified neuroblastoma cells by targeting the key cell cycle regulator WEE1.

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Supplementary Figure S2: 3′UTR sequences from *WEE1* cloned into the luciferase reporter constructs.

WEE1 luciferase plasmid insert with wild-type miR-497 binding sites: (WT WEE1) (NM_001143976)

5′
attttgatgattgctatgtcaggctttcatctaatcttaccagtctgtcttctgtaggatgtgtcactgttggat
gttacaccagcctttccagggttaaccactgtggtggtgtgctgcttatagtttgctgttgcattgtaataaaag
gtgtctttccctgtagtgacctgtaaaaagtactcaagggctttattacagacataccctccctttgaaaaggga
catgctaaaagactcattactactcagccttcaatgtacctgtgtgtccatcttatatttctttttttttaatt
gtgaattagacttgtatatcccactgggagcactttgtaggcattgcatgaaccatgggatgatgattctgtgga
ggtattgccttgtgaatttgctgctattttagttttgtctttgctgtaaacttgtagcattaaacaatcattgtt
3′

WEE1 luciferase plasmid insert with first miR-497 binding site mutated: (Mut1 WEE1)

5′
attttgatgattgctatgtcaggctttcatctaatcttaccagtctgtcttctgtaggatgtgtcactgttggat
gttacaccagcctttccagggttaaccactgtggtggtgGTAtTTCtatagtttgctgttgcattgtaataaaag
gtgtctttccctgtagtgacctgtaaaaagtactcaagggctttattacagacataccctccctttgaaaaggga
catgctaaaagactcattactactcagccttcaatgtacctgtgtgtccatcttatatttctttttttttaatt
gtgaattagacttgtatatcccactgggagcactttgtaggcattgcatgaaccatgggatgatgattctgtgga
ggtattgccttgtgaatttgctgctattttagttttgtctttgctgtaaacttgtagcattaaacaatcattgtt
3′

WEE1 luciferase plasmid insert with both miR-497 binding sites mutated: (Double Mut WEE1)

5′
attttgatgattgctatgtcaggctttcatctaatcttaccagtctgtcttctgtaggatgtgtcactgttggat
gttacaccagcctttccagggttaaccactgtggtggtgGTAtTTCtatagtttgctgttgcattgtaataaaag
gtgtctttccctgtagtgacctgtaaaaagtactcaagggctttattacagacataccctccctttgaaaaggga
catgctaaaagactcattactactcagccttcaatgtacctgtgtgtccatcttatatttctttttttttaatt
gtgaattagacttgtatatcccactgggagcactttgtaggcattgcatgaaccatgggatgatgattctgtgga
ggtattgccttgtgaattGAAtATCattttagttttgtctttgctgtaaacttgtagcattaaacaatcattgtt
3′

WEE1 luciferase plasmid insert with second miR-497 binding site mutated: (Mut2 WEE1)

5′
attttgatgattgctatgtcaggctttcatctaatcttaccagtctgtcttctgtaggatgtgtcactgttggat
gttacaccagcctttccagggttaaccactgtggtggtgtgctgcttatagtttgctgttgcattgtaataaaag
gtgtctttccctgtagtgacctgtaaaaagtactcaagggctttattacagacataccctccctttgaaaaggga
catgctaaaagactcattactactcagccttcaatgtacctgtgtgtccatcttatatttctttttttttaatt
gtgaattagacttgtatatcccactgggagcactttgtaggcattgcatgaaccatgggatgatgattctgtgga
ggtattgccttgtgaattGAAtATCattttagttttgtctttgctgtaaacttgtagcattaaacaatcattgtt
3′