

**Supplementary Table 3. Genes encoding PTEN transcription factors with miR-187 binding site**

<i>PTEN</i> transcription factor (TF)	MiR-187 seedposition on TF	Conservation of miR-187 binding site on TF in primates (%)	Known TF function in transcriptional regulation of <i>PTEN</i>	Reference
<i>MAZ</i>	chr16:29819949	89	Mechanism of PTEN regulation unknown	N/A
<i>NFIC</i>	chr19:3435127	89	Mechanism of PTEN regulation unknown	N/A
<i>E2F1</i>	chr20:32264211	78	One study demonstrated PTEN activation via binding to 5' UTR	8
<b><i>EP300</i></b>	<b>chr22:41572511</b>	<b>78</b>	<b>Negatively regulates PTEN</b>	9
<i>BLC3</i>	chr19:45259490	67	Mechanism of PTEN regulation unknown	N/A
<i>MYCBP2</i>	chr13:77835389	67	Mechanism of PTEN regulation unknown	N/A
<i>NFIC</i>	chr19:3433521	67	Mechanism of PTEN regulation unknown	N/A
<i>PHF8</i>	chrX:54069203	67	Mechanism of PTEN regulation unknown	N/A
<i>PPARG</i>	chr4:23816000	67	Positive regulator	10
<b><i>KDM5B</i></b>	<b>chr1:202698500</b>	<b>56</b>	<b>Histone demethylase which transcriptionally represses PTEN</b>	11
<i>MAZ</i>	chr16:29821826	56	Mechanism of PTEN regulation unknown	N/A
<i>SRFBP1</i>	chr5:121356312	56	Mechanism of PTEN regulation unknown	N/A

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<i>PPARG</i>	chr4:23822068	56	Positive regulator	<sup>10</sup>
<i>FOXP2</i>	chr7:113726400	44	Mechanism of PTEN regulation unknown	N/A
<i>MAFK</i>	chr7:1580362	44	Mechanism of PTEN regulation unknown	N/A
<i>WRNIP1</i>	chr6:2766547	44	Mechanism of PTEN regulation unknown	N/A
<b><i>DNMT1</i></b>	<b>chr19:10248642</b>	<b>44</b>	<b>Negative regulator</b>	<sup>10</sup>

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