

Table S1. ORs (95% CI) of sensitivity analysis.

| Excluding literature one by one | mutation | | | | |
|------------------------------------|-------------------------------|------------------------------|-----------------|--------------------|------------------------------|
| | heterozygote vs. wild-type | | Dominant model | Recessive model | |
| | OR (95% CI) | vs. wild-type OR (95% CI) | OR (95% CI) | OR (95% CI) | allelic model OR (95% CI) |
| miR-146a rs2910164 G/C | | | | | |
| Overall | 0.98(0.86-1.11) | 0.89(0.73-1.12) | 0.94(0.80-1.11) | 0.92(0.81-1.03) | 1.05(0.95-1.16) |
| Hikmet Akkiz (2011) | 0.96(0.83-1.10) | 0.89(0.72-1.11) | 0.93(0.78-1.10) | 0.92(0.81-1.04) | 1.06(0.96-1.17) |
| Yin-Hung Chu (2014) | 0.96(0.84-1.10) | 0.87(0.70-1.08) | 0.92(0.78-1.09) | 0.90(0.80-1.02) | 1.07(0.96-1.18) |
| Ning Cong (2014) | 0.99(0.87-1.13) | 0.92(0.75-1.14) | 0.97(0.82-1.13) | 0.93(0.82-1.05) | 1.04(0.94-1.14) |
| Yu-Xia Hao (2013) | 0.97(0.94-1.11) | 0.89(0.71-1.11) | 0.94(0.79-1.11) | 0.92(0.81-1.05) | 1.05(0.95-1.17) |
| Won Hee Kim (2012) | 0.96(0.84-1.10) | 0.88(0.71-1.09) | 0.93(0.79-1.09) | 0.91(0.80-1.04) | 1.06(0.95-1.17) |
| D. Li (2015) | 0.96(0.84-1.11) | 0.86(0.70-1.07) | 0.92(0.78-1.09) | 0.90(0.80-1.01) | 1.07(0.97-1.18) |
| Xinhong Li (2015) | 0.96(0.83-1.10) | 0.86(0.70-1.06) | 0.92(0.78-1.08) | 0.90(0.80-1.01) | 1.07(0.97-1.18) |
| Y.F. Shan (2013) | 0.97(0.84-1.11) | 0.87(0.70-1.08) | 0.93(0.79-1.10) | 0.90(0.80-1.10) | 1.07(0.96-1.18) |
| Yu Xiang (2012) | 0.98(0.86-1.13) | 0.91(0.73-1.13) | 0.95(0.81-1.13) | 0.92(0.81-1.04) | 1.04(0.94-1.16) |
| Teng Xu (2008) | 1.01(0.89-1.15) | 0.93(0.75-1.15) | 0.98(0.84-1.15) | 0.93(0.82-1.06) | 1.03(0.93-1.15) |
| Pingping Yan (2015) | 0.98(0.85-1.13) | 0.90(0.72-1.13) | 0.95(0.80-1.12) | 0.92(0.81-1.04) | 1.05(0.94-1.16) |
| Jun Zhang (2013) | 0.97(0.83-1.12) | 0.90(0.71-1.14) | 0.94(0.78-1.13) | 0.93(0.81-1.06) | 1.05(0.94-1.17) |
| L.H. Zhang (2016) | 1.01(0.90-1.14) | 0.95(0.80-1.13) | 0.99(0.87-1.13) | 0.94(0.85-1.03) | 1.02(0.94-1.18) |
| Xin-wei Zhang (2011) | 0.95(0.82-1.10) | 0.88(0.70-1.12) | 0.93(0.78-1.11) | 0.92(0.80-1.05) | 1.06(0.94-1.18) |
| Juan Zhou (2012) | 1.00(0.87-1.14) | 0.89(0.71-1.12) | 0.95(0.81-1.13) | 0.90(0.80-1.02) | 1.06(0.95-1.17) |
| miR-196a-2 rs11614913 C/T | | | | | |
| Overall | 1.00(0.87-1.15) | 0.86(0.70-1.07) | 0.96(0.83-1.12) | 0.88(0.74-1.04) | 1.06(0.96-1.18) |
| H. Akkiz (2011) | 1.02(0.88-1.18) | 0.91(0.73-1.12) | 0.99(0.85-1.15) | 0.91(0.77-1.07) | 1.04(0.94-1.15) |
| Yin-Hung Chu (2014) | 1.01(0.88-1.17) | 0.84(0.67-1.06) | 0.97(0.82-1.13) | 0.85(0.71-1.01) | 1.06(0.96-1.20) |

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|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Yu-Xia Hao (2013) | 1.03(0.90-1.18) | 0.90(0.72-1.11) | 1.00(0.86-1.16) | 0.89(0.75-1.06) | 1.04(0.94-1.16) |
| Won Hee Kim (2012) | 1.00(0.86-1.16) | 0.85(0.68-1.06) | 0.96(0.82-1.12) | 0.86(0.72-1.03) | 1.07(0.96-1.20) |
| Juan Li (2016) | 1.00(0.87-1.17) | 0.89(0.72-1.11) | 0.98(0.84-1.14) | 0.91(0.77-1.07) | 1.05(0.94-1.16) |
| Xinhong Li (2015) | 0.97(0.85-1.12) | 0.81(0.66-1.00) | 0.93(0.80-1.07) | 0.84(0.72-0.99) | 1.10(0.99-1.21) |
| XIAO-DONG LI (2010) | 1.02(0.88-1.17) | 0.89(0.72-1.11) | 0.99(0.85-1.15) | 0.90(0.76-1.07) | 1.04(0.94-1.16) |
| Eman A Toraih (2016) | 0.98(0.85-1.12) | 0.87(0.70-1.08) | 0.94(0.81-1.10) | 0.89(0.75-1.05) | 1.07(0.96-1.19) |
| Jun Zhang (2013) | 1.04(0.91-1.19) | 0.88(0.71-1.11) | 1.00(0.86-1.16) | 0.87(0.73-1.05) | 1.05(0.94-1.17) |
| L.H. Zhang (2016) | 1.00(0.64-1.16) | 0.86(0.68-1.08) | 0.96(0.81-1.14) | 0.88(0.73-1.05) | 1.06(0.95-1.19) |
| Xin-wei Zhang (2011) | 1.01(0.86-1.16) | 0.84(0.66-1.08) | 0.96(0.81-1.14) | 0.85(0.71-1.03) | 1.07(0.96-1.21) |
| Xi-Dai Long (2016) | 0.98(0.84-1.15) | 0.83(0.66-1.03) | 0.94(0.80-1.11) | 0.85(0.71-1.01) | 1.09(0.97-1.21) |
| Jia-Hui Qi (2014) | 0.97(0.85-1.11) | 0.87(0.69-1.09) | 0.95(0.81-1.11) | 0.92(0.78-1.08) | 1.06(0.95-1.18) |
| Yifang Han (2013) | 0.99(0.85-1.15) | 0.84(0.66-1.07) | 0.95(0.80-1.12) | 0.86(0.71-1.04) | 1.08(0.96-1.21) |
| miR-499 rs3746444 A/G | | | | | |
| Overall | 1.10(0.89-1.37) | 1.04(0.71-1.51) | 1.11(0.87-1.40) | 1.04(0.75-1.42) | 0.92(0.74-1.13) |
| Hikmet Akkiz (2011) | 1.11(0.88-1.40) | 1.02(0.66-1.58) | 1.11(0.86-1.43) | 1.01(0.69-1.48) | 0.92(0.72-1.16) |
| Yin-Hung Chu (2014) | 1.03(0.86-1.24) | 0.97(0.70-1.35) | 1.02(0.84-1.25) | 1.00(0.76-1.32) | 0.98(0.83-1.17) |
| Won Hee Kim (2012) | 1.15(0.92-1.42) | 1.08(0.73-1.59) | 1.15(0.90-1.47) | 1.07(0.77-1.48) | 0.88(0.71-1.10) |
| D. Li (2015) | 1.13(0.90-1.41) | 1.09(0.73-1.63) | 1.14(0.89-1.46) | 1.09(0.77-1.52) | 0.89(0.71-1.11) |
| Xinhong Li (2015) | 1.09(0.86-1.38) | 0.99(0.66-1.49) | 1.09(0.84-1.42) | 0.99(0.70-1.41) | 0.93(0.73-1.17) |
| Y.F. Shan (2013) | 1.14(0.91-1.42) | 1.10(0.75-1.62) | 1.15(0.90-1.47) | 1.09(0.79-1.51) | 0.88(0.71-1.09) |
| Eman A Toraih (2016) | 1.13(0.91-1.41) | 1.08(0.72-1.61) | 1.14(0.89-1.46) | 1.06(0.75-1.49) | 0.89(0.71-1.12) |
| Yu Xiang (2012) | 1.07(0.86-1.34) | 0.93(0.66-1.31) | 1.06(0.83-1.35) | 0.95(0.71-1.28) | 0.96(0.77-1.19) |
| Pingping Yan (2015) | 1.10(0.86-1.39) | 1.01(0.66-1.54) | 1.10(0.84-1.43) | 1.00(0.70-1.44) | 0.92(0.73-1.17) |
| L.H. Zhang (2016) | 1.11(0.88-1.41) | 1.04(0.69-1.56) | 1.12(0.86-1.45) | 1.03(0.73-1.46) | 0.91(0.72-1.15) |
| Juan Zhou (2012) | 1.10(0.87-1.39) | 1.05(0.70-1.56) | 1.11(0.85-1.44) | 1.05(0.74-1.47) | 0.91(0.72-1.15) |
| Hong-Zhi Zou (2013) | 1.12(0.89-1.41) | 1.11(0.76-1.62) | 1.14(0.89-1.46) | 1.10(0.80-1.51) | 0.89(0.71-1.10) |

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|-------------------------|-----------------|-----------------|-----------------|-----------------|------------------------|
| Jia-Hui Qi (2014) | 1.05(0.85-1.30) | 1.05(0.71-1.55) | 1.06(0.83-1.35) | 1.05(0.75-1.46) | 0.94(0.75-1.18) |
| miR-149 rs2292832 C/T | | | | | |
| Overall | 0.97(0.81-1.17) | 1.03(0.72-1.47) | 0.99(0.74-1.29) | 1.03(0.81-1.30) | 0.98(0.82-1.19) |
| Won Hee Kim (2012) | 0.98(0.79-1.21) | 0.98(0.67-1.45) | 0.98(0.74-1.29) | 0.97(0.76-1.23) | 1.02(0.84-1.24) |
| JIAN-TAO KOU (2014) | 1.02(0.81-1.28) | 1.08(0.70-1.67) | 1.04(0.76-1.43) | 1.06(0.80-1.39) | 0.96(0.77-1.20) |
| Xinhong Li (2015) | 0.91(0.75-1.09) | 0.95(0.65-1.38) | 0.93(0.71-1.21) | 0.99(0.76-1.27) | 1.02(0.84-1.24) |
| M.F. Liu (2014) | 1.03(0.86-1.24) | 1.16(0.86-1.55) | 1.07(0.87-1.33) | 1.12(0.92-1.35) | 0.92(0.80-1.07) |
| X.H. Wang (2014) | 0.93(0.79-1.11) | 0.94(0.66-1.33) | 0.93(0.73-1.19) | 0.98(0.76-1.27) | 1.03(0.85-1.24) |
| Pingping Yan (2015) | 0.99(0.79-1.25) | 1.08(0.70-1.68) | 1.03(0.74-1.31) | 1.06(0.80-1.41) | 0.96(0.77-1.20) |
| RUI WANG (2014) | 0.97(0.78-1.20) | 1.02(0.67-1.54) | 0.98(0.74-1.31) | 1.03(0.77-1.36) | 0.99(0.80-1.22) |
| miR-34b/c rs4938723 T/C | | | | | |
| Overall | 1.25(1.00-1.57) | 1.17(0.90-1.53) | 1.25(0.99-1.58) | 1.06(0.86-1.31) | 0.87(0.73-1.03) |
| Yifang Han (2013) | 1.41(1.13-1.76) | 1.43(1.00-2.06) | 1.41(1.14-1.75) | 1.22(0.86-1.72) | 0.79(0.67-0.92) |
| Myung Su Son (2013) | 1.17(0.93-1.48) | 1.19(0.81-1.76) | 1.18(0.91-1.54) | 1.08(0.83-1.41) | 0.89(0.72-1.10) |
| Yan Xu (2011) | 1.25(0.83-1.86) | 1.03(0.78-1.34) | 1.21(0.84-1.75) | 0.98(0.76-1.26) | 0.91(0.74-1.13) |