

Table SI. Sequences of plasmids for cell transfection.

| Plasmid              | Primer sequences                                 |
|----------------------|--------------------------------------------------|
| sh-circ_0032463      | F: CAGAATCTCAGTAGTACAA<br>R: TTGTACTACTGAGATTCTG |
| miR-330-3p mimic     | GCAAAGCACACGGCCUGCAGAGA                          |
| miR-330-3p inhibitor | UCUCUGGGCCUGUGUCUUAGGC                           |
| sh-PNN               | F: GGAGGATGATGATGTTAAA<br>R: TTAAACATCATCATCCTCC |
| sh-NC                | AGUGCUGCGCACGUGUCUCAU                            |
| mimic-NC             | UUGUACUACACAAAAGUACUG                            |
| inhibitor-NC         | CAGUACUUUUGUGUAGUACAA                            |

F, forward; R, reverse; sh-, short hairpin RNA; miR, microRNA; circ, circular RNA; PNN, Pinin desmosome associated protein; NC, negative control.