



**SUPPLEMENTARY FIG. S4.** MG-63 cells exhibited significantly greater mRNA copy numbers for the osteogenic genes *COL1A1* (A) and *BGLAP* (B) compared with HEK-293 cells ( $*p < 0.001$ ). The elevated *COL1A1* and *BGLAP* mRNA levels, as measured by real-time quantitative polymerase chain reaction, corroborated molecular beacon data showing that an overwhelmingly higher percentage of MG-63 cells positively expressed these osteogenic genes compared with HEK-293 cells.