**Supporting information**

**Fabrication and characterization of 3D printing Ta-GelMA-BG scaffolds by chemical crosslinking processing for promotion osteointegration**

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Figure. S1 Surgical placement of materials placed on critical-size bone defect of rat.

Table S1 mBMSCs related gene primer pairs used in the RT-qPCR.

|  |  |
| --- | --- |
| **Genes** | **Primer sequences** |
| ALP | Forward:5'-TGCCTACTTGTGTGGCGTGAA-3’ |
| Reverse:5'-TCACCCGAGTGGTAGTCACAATG-3’ |
| OPN | Forward:5'-GCAGTCTTCTGCGGCAGGCA-3’ |
| Reverse:5'-CACCGGGAGGGAGGAGGCAA-3’ |
| OCN | Forward:5'-AGCAGCTTGGCCCAGACCTA-3’ |
| Reverse:5'-TAGCGCCGGAGTCTGTTCACTAC-3’ |
| COLⅠ | Forward:5'-ATGCCGCGACCTCAAGATG-3' |
| Reverse:5'-TGAGGCACAGACGGCTGAGTA-3' |
| RUNX2 | Forward:5'-CACTGGCGGTGCAACAAGA-3' |
| Reverse:5'-TTTCATAACAGCGGAGGCATTTC-3' |
| GAPDH | Forward:5'-CTCCCACTCTTCCACCTTCG -3’ |
| Reverse:5'-TTGCTGTAGCCGTATTCATT -3’ |