Supplementary figure legends

Fig. S1. *Osx-CreER^{T2};Glut1$^{f/+}$* and *Glut1$^{f/+}$* mice show no difference in bone parameters as analyzed by μCT. N=5.

Fig. S2. Measurements of bone lengths on X-ray images of male mice. N=5.

Fig. S3. Bone parameters of female mice as analyzed by μCT. * $p<0.05$, ** $p<0.01$, n=5

Fig. S4. *Osx-CreER^{T2};Rosa26-Wnt7b;Glut1$^{f/+}$* and *Osx-CreER^{T2};Rosa26-Wnt7b* mice show no difference in bone parameters as analyzed by μCT. N=5.

Fig. S5. Histomorphometry of osteoclasts. (A-C) Quantification of osteoclast parameters. The region of interest was defined as a rectangular box of a fixed size at 100 μm below the growth plate with the long axis parallel to the growth plate. (D-G) Representative images of TRAP staining on tibial sections. Boxed areas shown at a higher magnification. Scale bar:100μm. N=5.

Fig. S6. Primary cultures of bone-chip cells undergo osteoblast differentiation in vitro. (A) Alpl and alizarin red staining on cells at the beginning (D0), day 7 (D7) or day14 (D14) of culture with growth or mineralization medium. (B) Expression analyses of mRNA by qPCR. Data normalized to *β-actin*. Expression level in D0 cells designated 1. * $p<0.05$, n=3.

Fig. S1

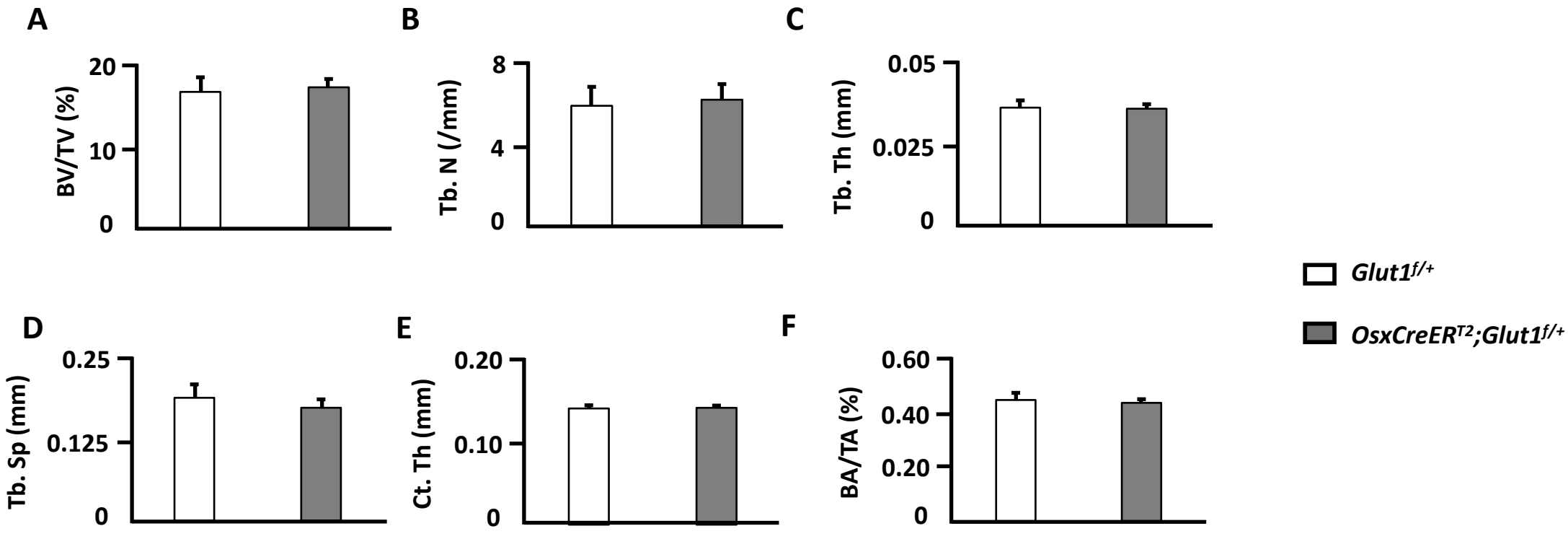


Fig. S2

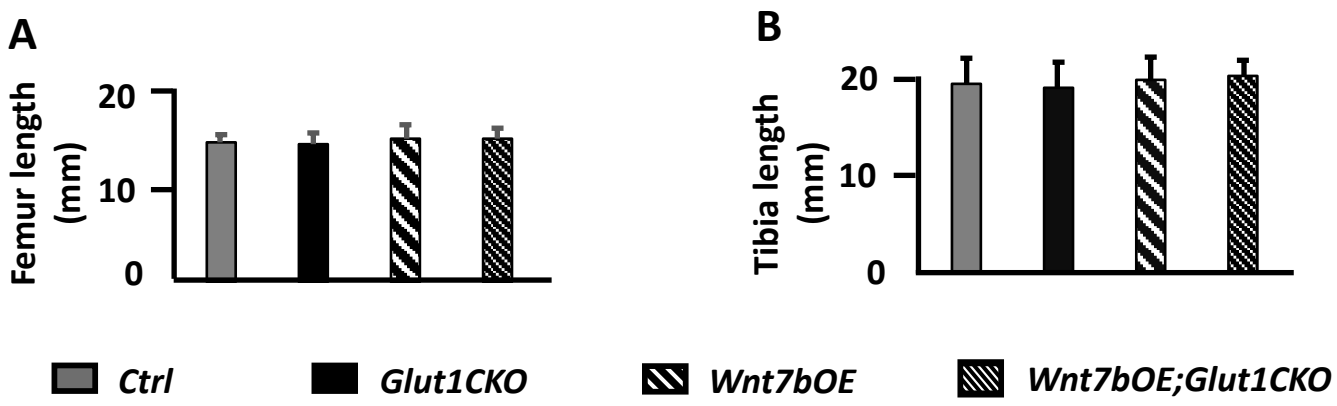


Fig. S3

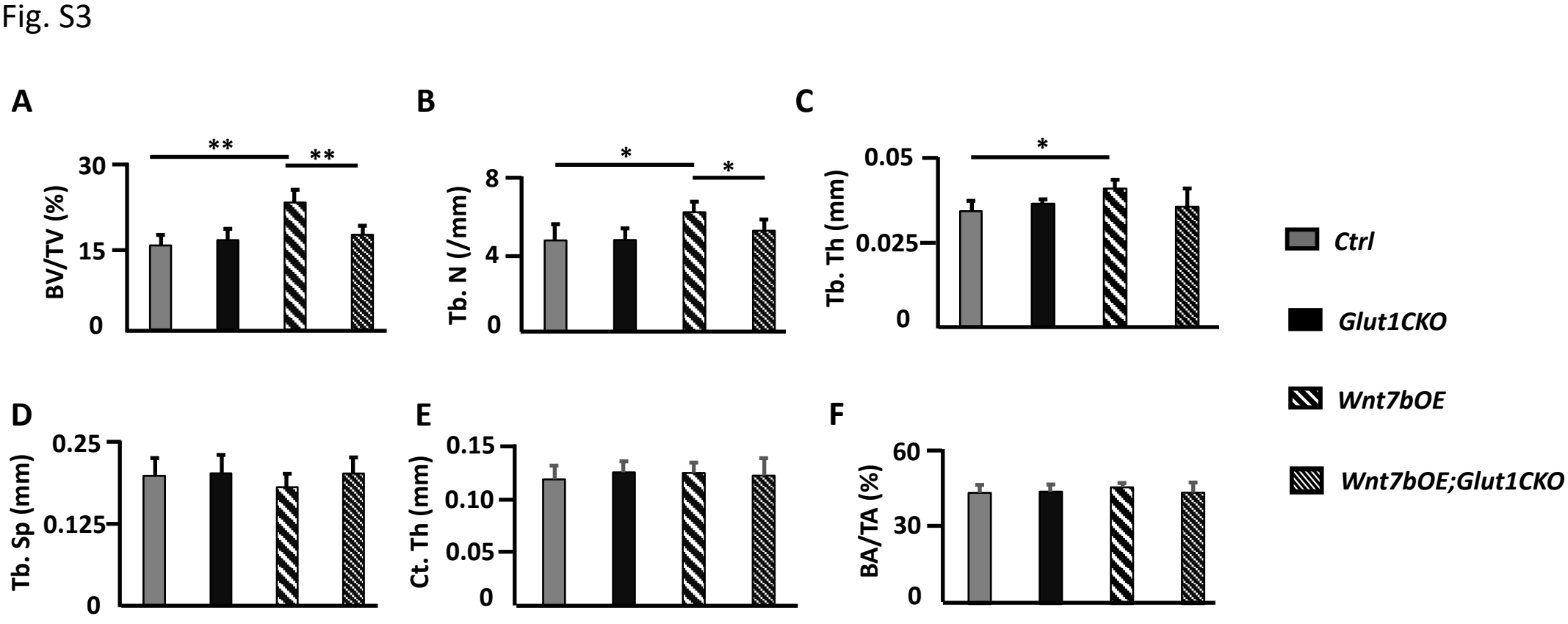


Fig. S4

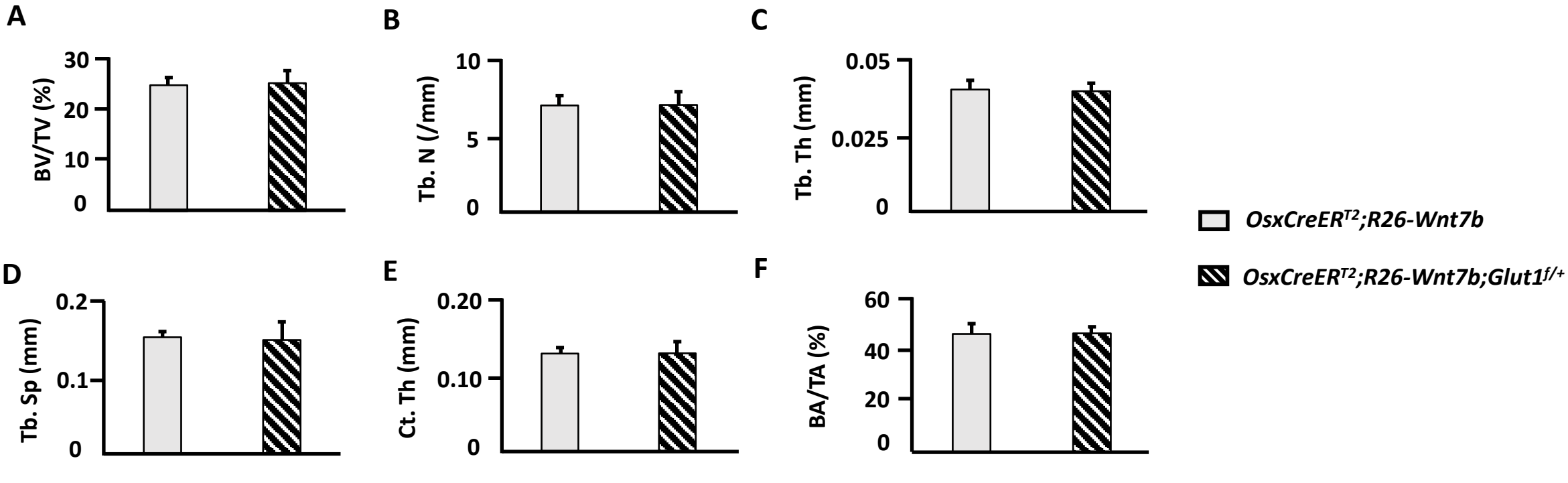
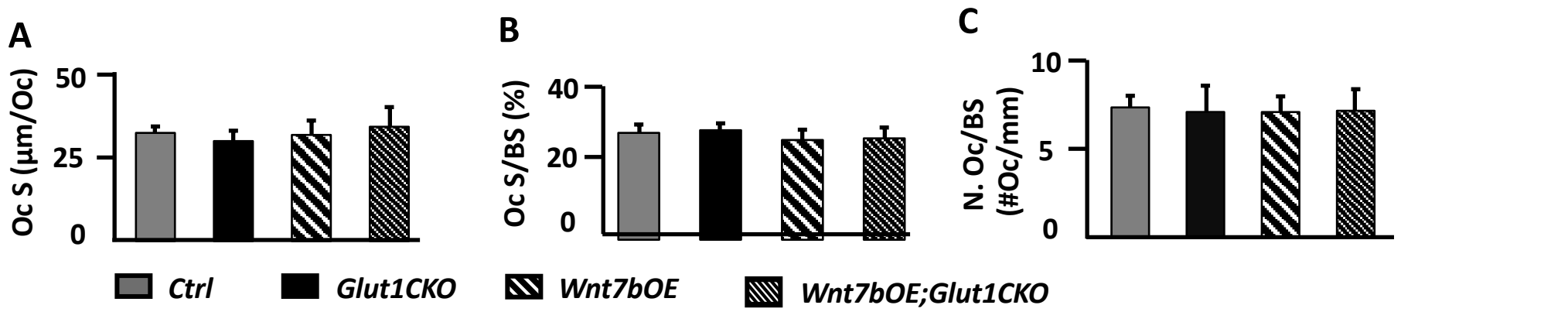

A
BV/TV (%)
30
20
10
0
B
Tb. N (/mm)
10
5
0
C
Tb. Th (mm)
0.05
0.025
0
D
Tb. Sp (mm)
0.2
0.1
0
E
Ct. Th (mm)
0.20
0.10
0
F
BA/TA (%)
60
40
20
0
OsxCreER^T2;R26-Wnt7b
OsxCreER^T2;R26-Wnt7b;Glut1^f/+

Fig. S5


A
Oc S (μm/Oc)
50
25
0
B
Oc S/BS (%)
40
20
0
C
N. Oc/BS (#Oc/mm)
10
5
0
Ctrl
Glut1CKO
Wnt7bOE
Wnt7bOE;Glut1CKO

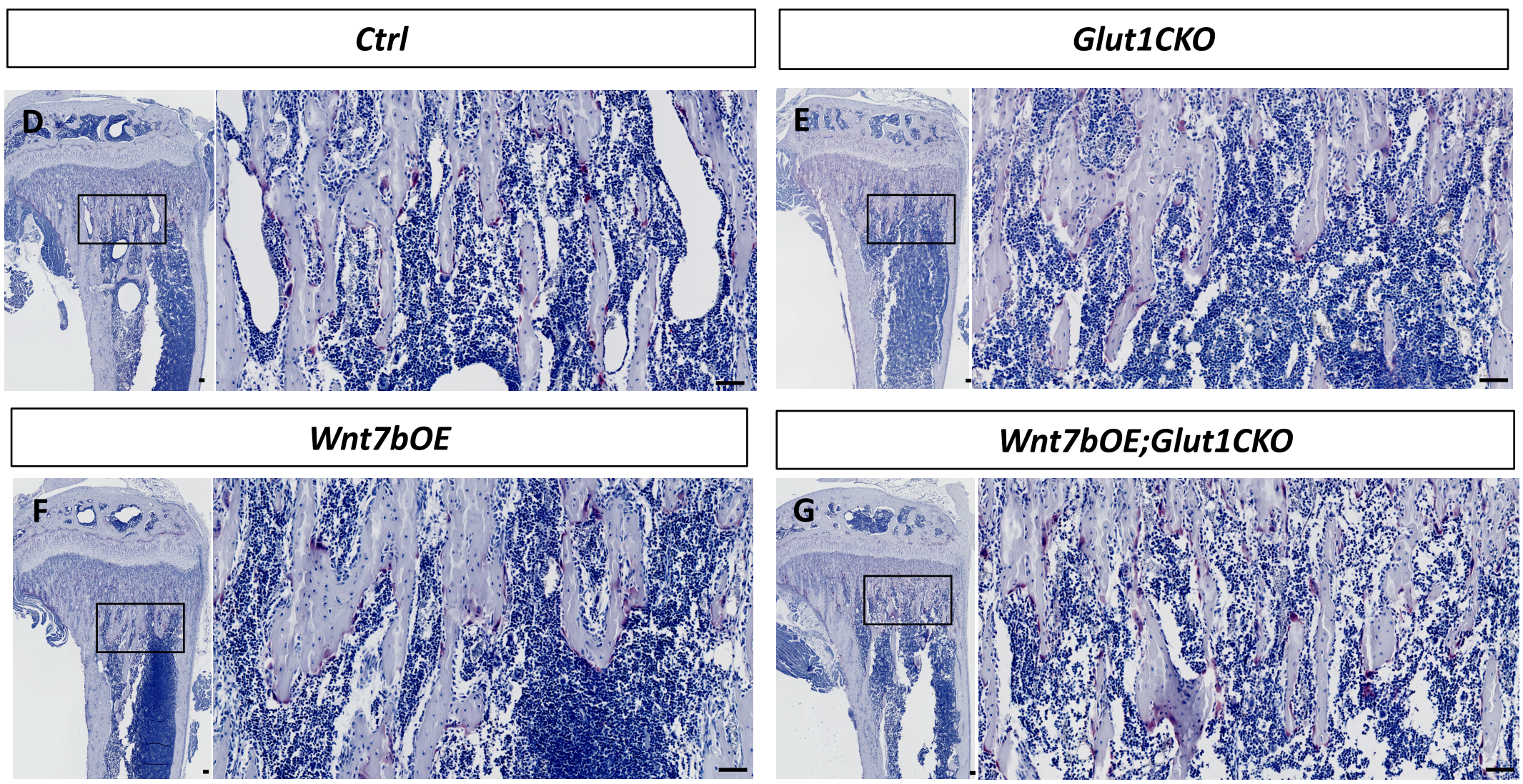
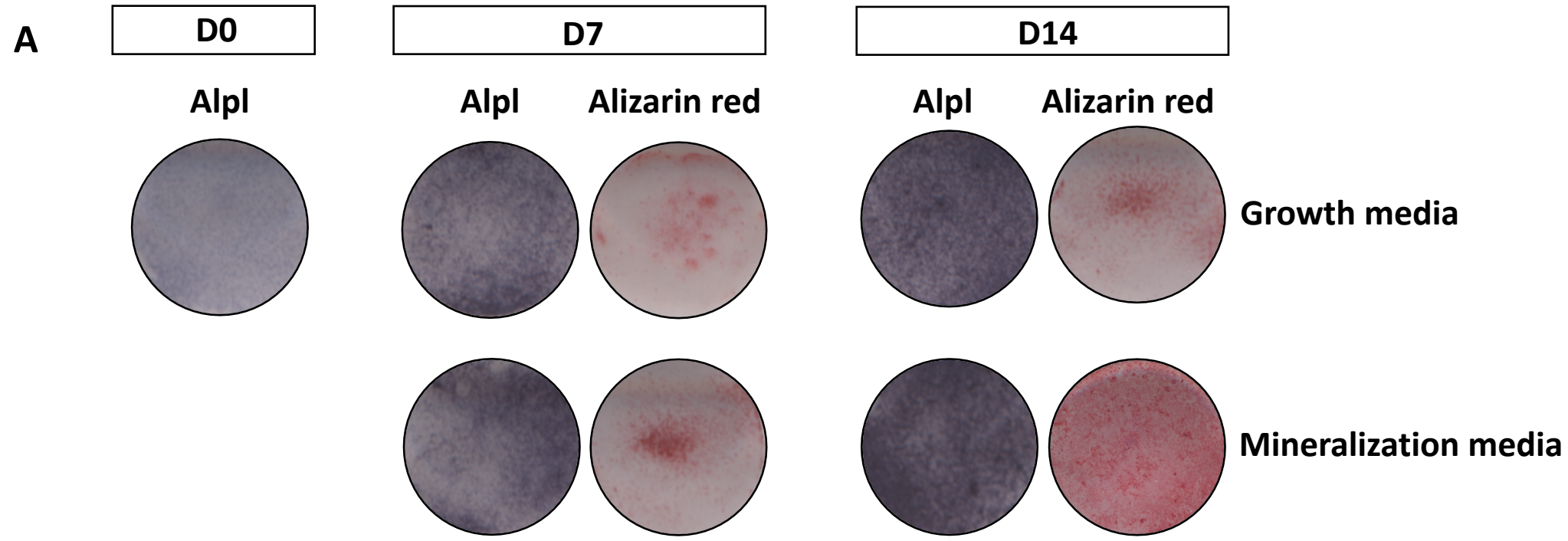
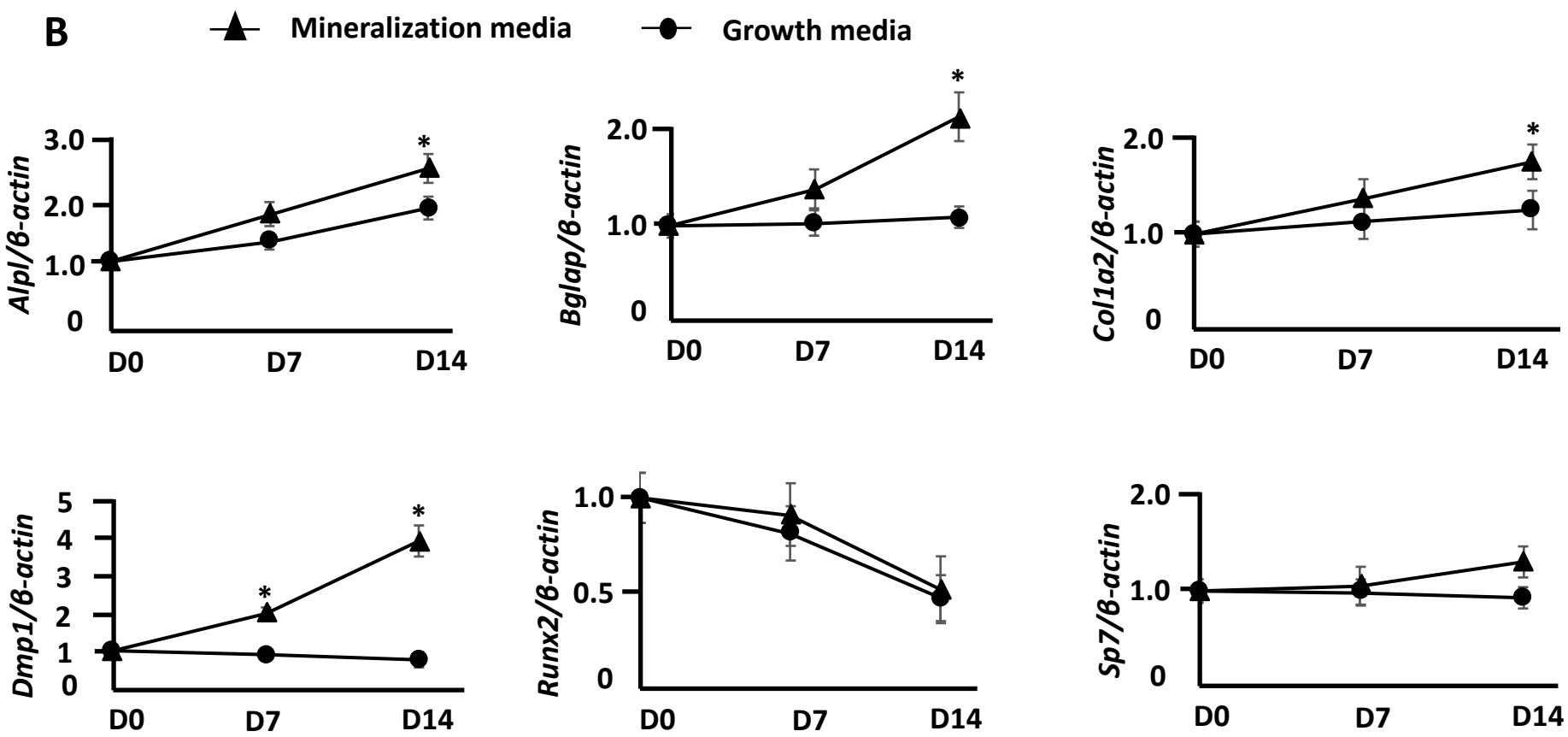

Ctrl
Glut1CKO
D
E
Wnt7bOE
Wnt7bOE;Glut1CKO
F
G

Fig. S6


A
D0
D7
D14
Alpl
Alpl
Alizarin red
Alpl
Alizarin red
Growth media
Mineralization media


B
Mineralization media
Growth media
Alpl/β-actin
Bglap/β-actin
Col1a2/β-actin
Dmp1/β-actin
Runx2/β-actin
Sp7/β-actin
D0
D7
D14