

## Supplementary Table 1 Bone Morphometric analysis on GIT1 WT and KO mice

Bone Parameters	WT (n=9)	KO (n=8)	p value
BV/TV (%)	14.66 ± 1.52	23.64 ± 1.04	p=0.0002*
Tb.N/mm	3.84 ± 0.15	5.35 ± 0.07	p<0.0001*
Tb. Thickness (mm)	0.064 ± 0.004	0.068 ± 0.0002	p=0.423, ns
Tb. Space (mm)	0.268 ± 0.01	0.189 ± 0.005	p<0.0001 *
Connectivity Density (1/mm <sup>3</sup> )	69.12 ± 7.34	198.3 ± 24.46	p=0.0008*

ns- non significant