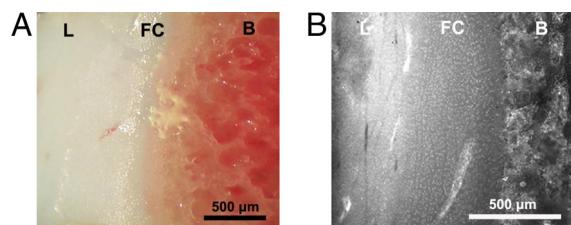


# Supporting Information

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**Fig. S1.** Insertion site sample. (A) Stereomicrograph of the as-isolated sample with distinct yet continuous regions of ligament (L), fibrocartilage (FC), and bone (B). (B) Sample stained with Hoechst 33258 (4x), note the distinct cell nuclei observed at the fibrocartilage (FC) region.

**Table S1. Summary of  $R^2$  values from the linear regression analysis of the displacement data for strain determination**

Insertion site	Applied nominal strain			
	5%	10%	15%	20%
Femoral				
NFC	0.76 ± 0.14	0.88 ± 0.12	0.90 ± 0.11	0.95 ± 0.08
MFC	0.66 ± 0.18	0.82 ± 0.21	0.79 ± 0.32	0.96 ± 0.03
FC	0.70 ± 0.15	0.83 ± 0.12	0.84 ± 0.18	0.95 ± 0.06
Tibial				
NFC	0.85 ± 0.16	0.92 ± 0.10	0.97 ± 0.02	0.99 ± 0.00
MFC	0.64 ± 0.59	0.99 ± 0.06	0.89 ± 0.06	0.94 ± 0.04
FC	0.71 ± 0.16	0.82 ± 0.11	0.90 ± 0.11	0.98 ± 0.02

**Table S2. Summary of ACL-to-bone insertion site sample dimensions**

Insertion site	Full sample length, $\mu\text{m}$	Fibrocartilage length, $\mu\text{m}$	Bone length, $\mu\text{m}$	Cross-sectional area, $\text{mm}^2$
Femoral	1840 $\pm$ 186	701 $\pm$ 54	828 $\pm$ 177	4.54 $\pm$ 2.16
Tibial	1845 $\pm$ 55	951 $\pm$ 291	619 $\pm$ 93	3.47 $\pm$ 1.00