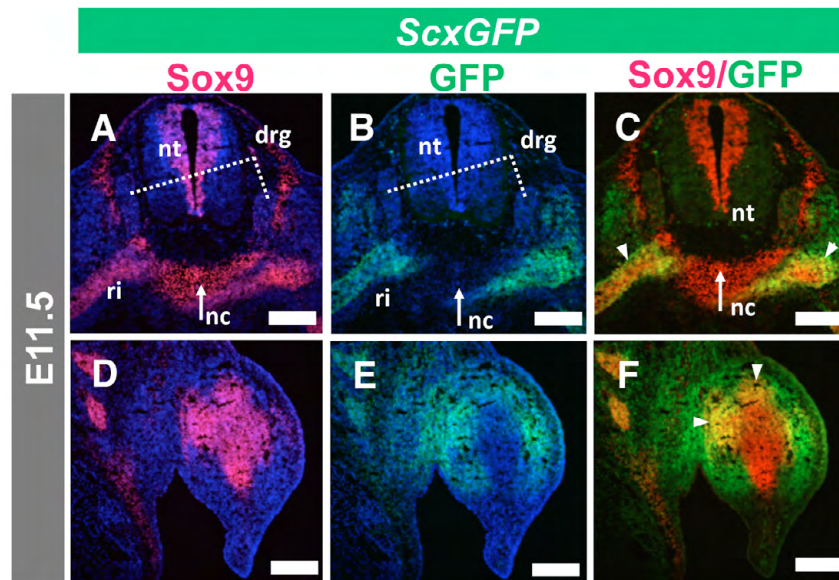


**Fig. S1. Predominant distribution of  $Scx^+$ / $Sox9^+$  cells around the primordial enthesis, the transitional zone from tendon/ligament to cartilage.** (A-G) *In situ* hybridization of *Scx* (A,D,E,G), *Sox9* (B,F) and *Myog* (C). Frozen sagittal sections were prepared from wild-type embryos at E13.5 (A-F) and E16.5 (G). Expression of *Scx*, *Sox9* or *Myog* is assessed in the forelimb (A-D) and hindlimb (E-G). An arrowhead in A indicates the expression of *Scx* at the myotendinous junction. Arrows in A,B indicate the insertion sites of tendons of triceps brachii muscles into the olecranon. Humerus and ulna are enclosed by the dotted line in C. Arrows in D indicate the  $Scx^+$  ligaments of the digit. Arrows in E,F indicate the  $Scx^+$ / $Sox9^+$  epiphyseal regions. (G) Expression of *Scx* in the knee joint at E16.5; femur, tibia and patella are enclosed by the dotted line and the arrow indicates the cruciate ligament. ca, calcaneus; fe, femur; fi, fibula; hu, humerus; pa, patella; pl, patella ligament; qft, quadriceps femoris tendon; ti, tibia; ul, ulna. Scale bars: 200  $\mu$ m.



**Fig. S2. Distribution of  $Sox9^+$  and  $Sox9^-$  cells in the  $Scx^+$  region of *ScxGFP* mouse embryos at E11.5.** In *ScxGFP* transgenic mouse embryos,  $Sox9^+$  (red) and  $Scx^+$  cells that are labeled by GFP (green) were detected by double immunostaining with antibodies specific for *Sox9* and GFP, respectively; nuclei were stained with DAPI (blue). Merged images are presented in C,F. Transverse sections at the thoracic level (A-C) and of the forelimb (D-F) of an *ScxGFP* mouse are shown. Arrows in A-C indicate notochord. Arrowheads indicate the  $Scx^+$ / $Sox9^+$  region in the proximal rib (C) and proximal forelimb (F). The dotted line in A,B indicates dorsal root ganglia. drg, dorsal root ganglion; nc, notochord; nt, neural tube; ri, rib. Scale bars: 200  $\mu$ m.

**Table S1. Tendon and ligament nomenclature used in this study**

No.*	A/F <sup>‡</sup>	Nomenclature of tendons	No. <sup>§</sup>	Nomenclature of ligaments
T1		Thoracolumbar fascia (anterior layer)	L1	Facet joint capsule
T2	A	Origin of longissimus muscle	L2	Interspinal ligament
T3	A	Origin of latissimus dorsi muscle	L3	Collateral ligament of phalangeal joint
T4		Thoracolumbar fascia	L4	Patella ligament
T5	A	Origin of longissimus muscle	L5	Posterior cruciate ligament
T6	A	Origin of iliocostalis lumborum muscle	L6	Anterior cruciate ligament
T7	A	Origin of multifidi muscle	L7	Transverse ligament of knee
T8	F	Extensor digitorum longus tendon	L8	Antebrachial interosseous membrane
T9	F	Achilles tendon	L9	Collateral ligament of metacarpophalangeal joint
T10	F	Superficial digital flexor tendon		
T11	A	Origin of tibialis anterior muscle		
T12	F	Quadriceps femoris tendon		
T13	A	Origin of supinator muscle		
T14	A	Common extensor tendon		
T15	A	Common extensor tendon		
T16	A	Origin of supinator muscle		
T17	F	Extensor carpi ulnaris tendon		
T18	F	(a) Extensor digiti quarti tendon		
	F	(b) Extensor digiti quinti tendon		
T19	F	Extensor digitorum communis tendon		
T20	A	Origin of extensor abductor muscle		
T21	F	Extensor carpi radialis brevis tendon		
T22	F	Extensor carpi radialis longus tendon		
T23	F	Abductor pollicis tendon		
T24	F	Flexor carpi radialis tendon		
T25	F	Extensor indicis proprius tendon		
T26	F	Flexor digitorum profundus tendon		
T27	F	Flexor digitorum sublimis tendon		
T28	F	Palmaris longus tendon		
T29	F	Flexor carpi ulnaris tendon		
T30	F	Interosseous		

\*T1-T30 indicate tendons.

<sup>‡</sup>A or F indicates anchoring or force-transmitting tendons.

<sup>§</sup>L1-L9 indicate ligaments.