



【本件リリース先】

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Scleraxis

1 Scleraxis (Scx)

Scleraxis

Scx

Scx

3

7 Scientific Reports

Scleraxis is required for maturation of tissue domains for proper integration of the musculoskeletal system

1

- 1.
- 2.
- 3.

2

Scx

3

Scx

4

Scx^{Cre}

5

Scx^{Cre/Cre}

Scx
Scx Cre
Scx
Scx
Scx

Scx

Scx^{Cre/Cre}

Tenomodulin 6

7

Scx

Smad1/5 Smad3
protein 8

Bone morphogenetic

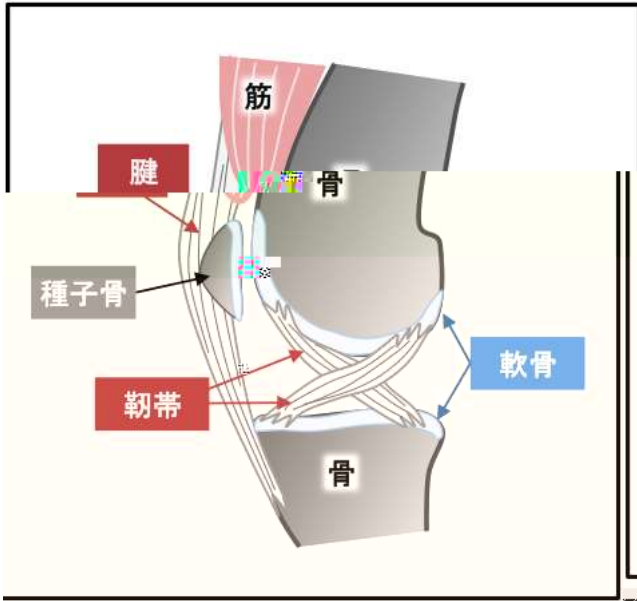
Scx

Scx

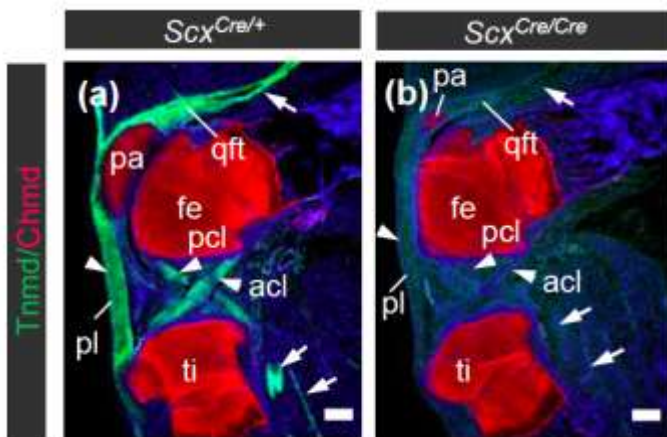
Scx

iPS

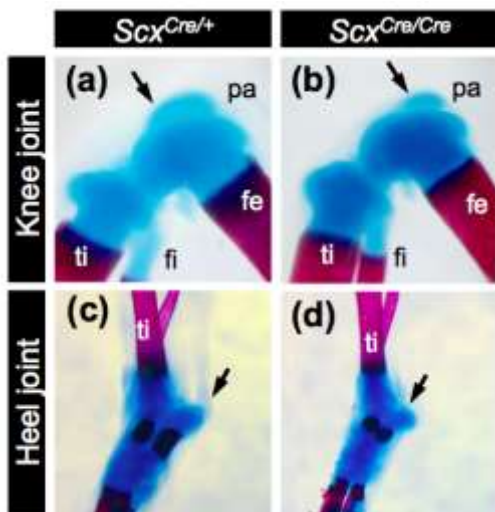
Scx



Tnmd (b) Scx Chmd (a) Tnmd



$Scx^{Cre/+}$ (a, c) Scx (b, d)



1
DNA
DNA

RNA

2

I

3

1

4

5

Scx^{Cre}

Scx

DNA

Cre

6 Tenomodulin(Tnmd)

II

Chondromodulin (Chmd)

C

Chmd

7

8 Bone morphogenetic protein

Smad1/5/8

Smad2/3

iPS

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