**S-Figure 2**

**Gli1-Cre\(^{ERT2}\);tdTomato\(^{fl/+}\)**

A. RUNX2/tdT

B. (Details of area in A)

C. (Details of area in A)

**Gli1-Cre\(^{ERT2}\);Runx2\(^{fl/fl}\);tdTomato\(^{fl/+}\)**

D. RUNX2/tdT

E. (Details of area in D)

F. (Details of area in D)

**G**

Root Length

- Control
- Mutant

- Root length (um)

- P = 3.172e-005

**H**

Dspp

- Relative Expression

- Control
- Mutant

- P = 4.962e-006

**I**

Ki67

- Percentage of proliferating cells

- Control
- Mutant

- P = 0.0244
S-Figure 7

| Runx2^fl/fl | Gli1-Cre^{ERT2};Runx2^fl/fl |
|-------------|-----------------------------|
| A | B | C | D |
| Axin2 | Axin2 | Axin2 | Axin2 |

| Runx2^fl/fl |
|-------------|
| E | F | G | H |
| Wnt3a | Wnt3a | Wnt4 | Wnt4 |

### I

**Axin2**

![Relative expression graph](image)

- **P=0.0059**
S-Figure 8

Runx2

Relative expression vs. Negative Runx2 siRNA, Runx2 siRNA10, Runx2 siRNA6, Runx2 siRNA9

P = 0.0043
P = 0.0305
P = 0.0353

S-Figure 9

Root Length

Root length (µm) vs. Control Mutant BSA Mutant NOTUM

P = 0.0019
P = 0.4887
| Gene   | Forward Primer                  | Reverse Primer                  |
|--------|---------------------------------|---------------------------------|
| Gapdh  | AGGTCGGTGTGAACGGATTG            | TGTAGACCATGTAGTTGAGGTCA         |
| Dspp   | ATTCCGGTTCCCCAGTTAGTA           | CTGTTGCTAGTGGTCTGTT             |
| Gli1   | GCCACCAAGCCAACCTTTATG           | GAGAGTTGATGAAAGCCACC           |
| Pcp4   | GACCAACGGAAAAAGACAAGAC          | CAAGGAAAATAGTTGCAGAGG          |
| Sfrp2  | CGTGGGCTCTTCTCTCTTCG            | ATGTTCTGTTACTCGATGCCC          |
| Notum  | GGACAGCTTTATGCGCAAG             | TCACCGACGTGTTACGCAG            |
| Runx2  | GACTGTGTTACCGTCATG GC           | ACTTGGTTTTTCTATAAACAGCGGA      |