S_Figure 1

**Relative expression of HFR1**

- **Col**: Low R/FR
- **pif4 pif5**: High R/FR

The figure shows a comparison of the relative expression levels of HFR1 under different conditions.
S_Figure 2

The figure shows the relative expression of genes IAA19 and IAA29 under different conditions of high and low R/FR ratios. The graphs illustrate the expression levels over time, with different lines representing various genetic backgrounds (Col, hfr1, pif4pif5, pif4pif5hfr1) under each condition. The y-axis represents the relative expression, and the x-axis represents the time in hours (0 to 24).

High R/FR:
- Col
- hfr1
- pif4pif5
- pif4pif5hfr1

Low R/FR:
- Col
- hfr1
- pif4pif5
- pif4pif5hfr1
S_Figure 3

**PIL1**

- Time (hours): 0, 1, 2, 4, 8
- Relative expression
- High R/FR
  - Col
  - hfr1
  - pil4pil5
  - pil4pil5hfr1

**XTR7**

- Time (hours): 0, 1, 2, 4, 8
- Relative expression
- High R/FR
  - Col
  - hfr1
  - pil4pil5
  - pil4pil5hfr1

**IAA29**

- Time (hours): 0, 1, 2, 4, 8
- Relative expression
- High R/FR
  - Col
  - hfr1
  - pil4pil5
  - pil4pil5hfr1

**Low R/FR**

- Time (hours): 0, 1, 2, 4, 8
- Relative expression
- Col
- hfr1
- pil4pil5
- pil4pil5hfr1
S_Figure 4

A

<table>
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<tr>
<th></th>
<th>HFR1</th>
<th>HFR1*</th>
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<tr>
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<td>KVSVLDKTIEYMKNLQLQ</td>
<td>KVSDEDKTIEYMKNLQLQ</td>
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Helix  Loop  Helix

B

- High R/FR
- Low R/FR

Hypocotyl length (mm)

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<th></th>
<th>Col</th>
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C

|hfr1| HFR1
---|---
| Dark shade| Dark shade

Anti-HA

Loading control
S_Figure 5

A

B
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<tr>
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<td>+ + +</td>
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<tr>
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<td>- + -</td>
<td>HFR1</td>
</tr>
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<td>HFR1*</td>
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PIF4 → [Image]
HFR1 → [Image]