

Description of Additional Supplementary Files

- 1
- 2 **Supplementary Data 1:** Quantitative mass spectrometry analysis of AGO2 associated proteins.
- 3 **Supplementary Data 2:** Small RNA abundance in Col-0 and rh3-4 in Input and AGO2 IP sRNA libraries.
- 4 Sheet 1: Summary of sRNA library analysis. Sheet 2: 18-30 nt sRNAs length distribution in Col-0 and rh3-
- 5 4. Sheet 3: The relative frequency of 5' terminal nucleotides in input and AGO2 IP samples. Sheet 4.
- 6 miRNAs abundance in Col-0 and rh3-4 AGO2 IP small RNA libraries. Sheet 5. tasiRNAs abundance in Col-0
- 7 and rh3-4 AGO2 IP small RNA libraries. #1 and #2 mean 2 different libraries.
- 8 **Supplementary Data 3:** Oligos used in the study.
- 9 **Supplementary Movie 1:** RH3–AGO2 BiFC Signal Colocalization with RFP–HDEL at Chloroplast Periphery
- 10 **Supplementary Movie 2:** TOC64-III–CFP Distribution Independent of RFP–HDEL on Chloroplasts