

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Telomere length measurement data for 19 MAGIC founder genotypes.

File Name: Supplementary Data 2

Description: Telomere length measurement data for 480 MAGIC lines.

File Name: Supplementary Data 3

Description: List of Chr 5 QTL candidate genes with one or more Sf-2 specific DNA polymorphisms.

File Name: Supplementary Data 4

Description: List of Chr 5 QTL candidate genes with unique expression pattern in Sf-2 ecotype.

File Name: Supplementary Data 5

Description: Telomere length phenotypes of mutant plant lines with T-DNA insertions inside selected Chr 5 QTL interval genes.

File Name: Supplementary Data 6

Description: Nucleotide sequence polymorphism in the NOP2A locus in Col-0 and Sf-2 parents.

File Name: Supplementary Data 7

Description: Summary of fold changes in NOP2A transcript level in the 18 MAGIC founder genotypes over Col-0 reference genotype.