

Supplementary Material

WHIRLY1 is a major organizer of chloroplast nucleoids

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1. Supplementary Figures and Tables

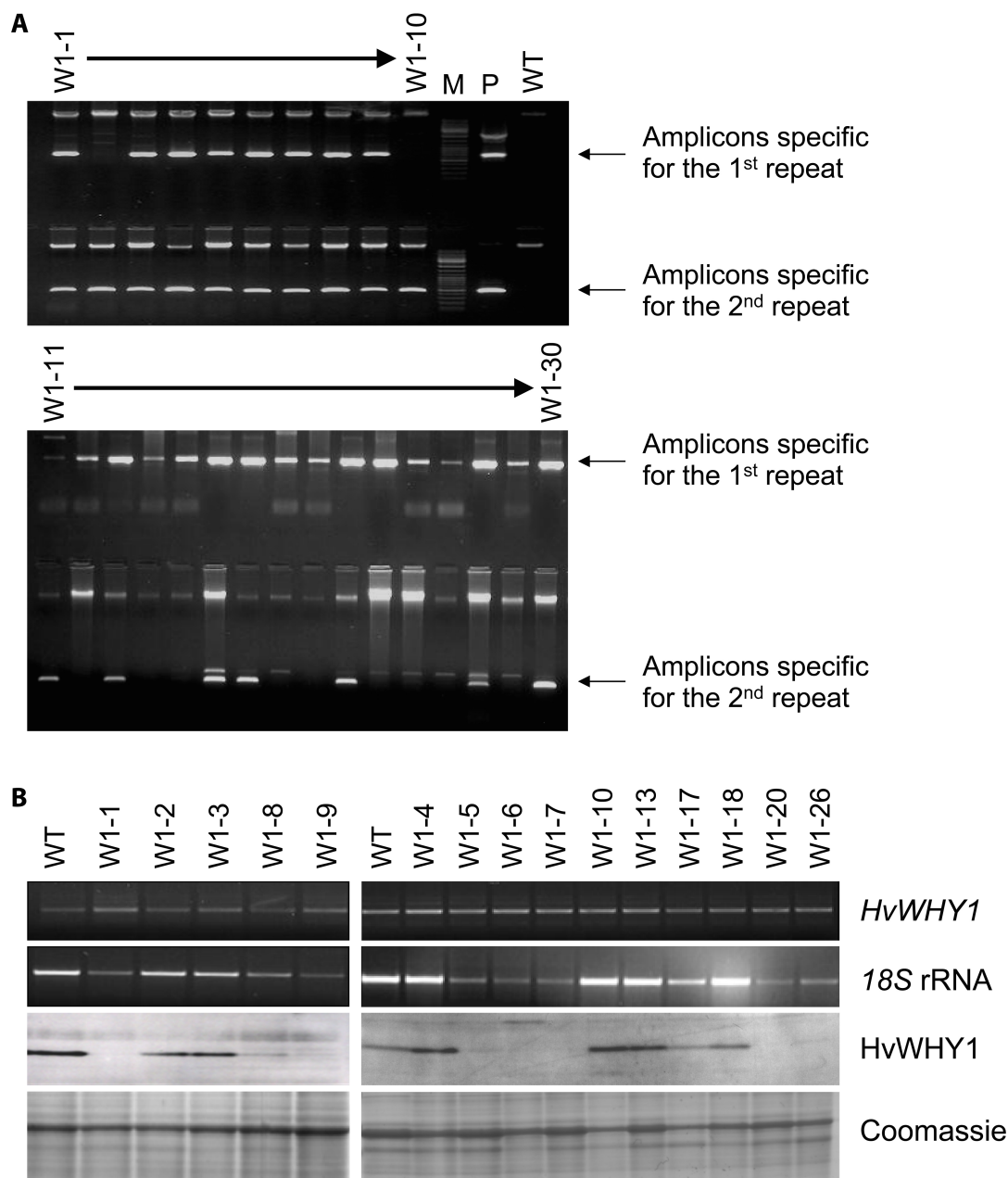
Supplementary Table 1.	Specific primers used in this study
Supplementary Figure 1.	Characterization of transgenic barley plants.
Supplementary Figure 2.	Sequence comparison of different DNA polymerases and a putative HvPolII-like protein in barley.

1.1. Supplementary Tables

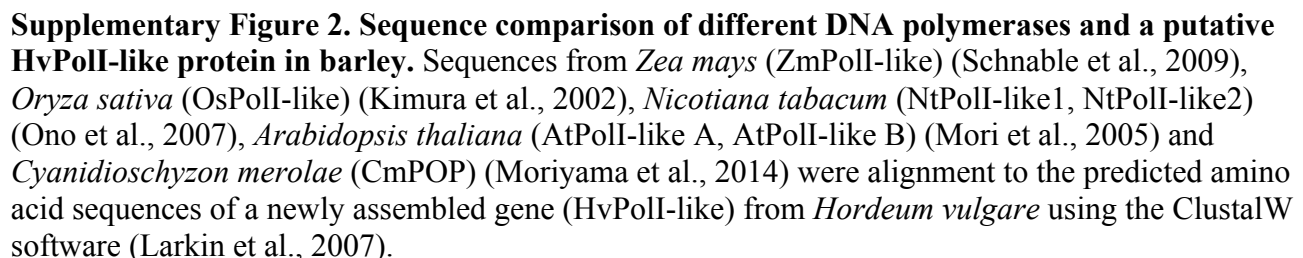
Supplementary Table 1. Specific primers used in this study.

Primer name	Sequence
HvWHIRLY1RNAi FW	5'-CACCTTTCAAGGGAAGGAGCGA-3'
HvWHIRLY1RNAi RV	5'-ATGATGTAATTGAAGGTTGA-3'
Hygromycin for	5'-GATCGGACGATTGCGTCGCA-3'
Hygromycin rev	5'-TATCGGCACTTTGCATCGGC-3'
Hv18S for qRT	5'-CAGGTCCAGACATAGCAAGGATTGACAG-3'
Hv18S rev qRT	5'-TAAGAAGCTAGCTGCGGAGGGATGG-3'
HvWhy1 for qRT	5'-GATGGGAATGGTCGCTTTTT-3'
HvWhy1 rev qRT	5'-CCATGATGTGCGGTATGATG-3'
HvSVR4_qRT for	5'-CGGACTACTTCGACAAGCAT-3'
HvSVR4_qRT rev	5'-CCACTCCAAGCAGTTGATCT-3'
HvPol1 qRT for2	5'-TCCACCATCCAGTACATCCA-3'
HvPol1 qRT rev2	5'-CAGTTGGCCATGGAGATGTC-3'
HvRbcS for qRT	5'-CTACCACCGTCGCACCCTTCC-3'
HvRbcS rev qRT	5'-TGATCCTTCCGCCATTGCTGAC-3'
HvpsbA qRT for	5'-CAGAAAAGCTTCCTTGACCA-3'
HvpsbA qRT rev	5'-CAATGGTGGTCCTTATGAGC-3'
HvpD qRT for	5'-GGGCGTTCTCTTAATGGTTT-3'
HvpD qRT rev	5'-AATGGGTAGTGTTGCTCCAA-3'
DIG-Hv18S_for	5'-AGCTCGTAGTTGGACCTTGG-3'
DIG-Hv18S_rev	5'-TGGACCTGGTAAGTTTCCCC-3'
DIG-HvpD_for	5'-ACAGGCTCCGTAAGATCCCA-3'
DIG-HvpD_rev	5'-CGGCTCGAGCAAGAGTGAAA-3'

1.2. Supplementary Figures



Supplementary Figure 1. Characterization of transgenic barley plants. (A) PCR analysis of primary *Hv-Why1*-RNAi plants using inverted repeat specific primer pairs. All plants were investigated for the presence of both inverted repeats. M: DNA ladder; P: pGH235-*Hv-Why1* plasmid DNA; WT: wild type. **(B)** Transcript levels and protein levels of 15 selected transgenic plants. Amplification of 18S rRNA was used as control for equal amounts of RNA in RT-PCR assays. Coomassie staining was used as protein loading control.



2. References

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