

A

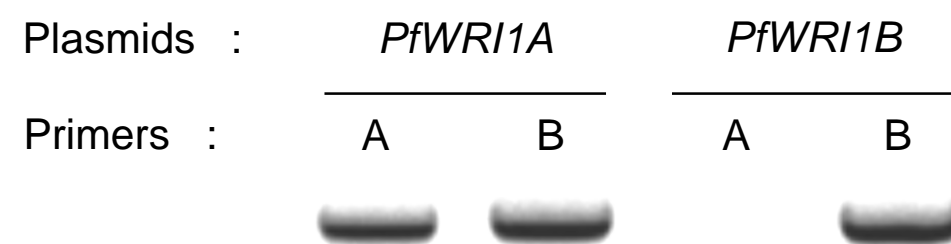
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| TCGCCAACCACGCAGAAAAATGCGCCGCAATCAAAGCCGACGCCGTCAAACCCAAGCCC | 120 |
| S P T T Q K N A P Q S K P D A V K P K P | 40 |
| AAACGCGTTCGAGCGAAGAAAAACCAGAGCCACAGCAATTCCGCCACCTCCCCTAAATCG | 180 |
| K R V R A K K N Q S H S N S A T S P K S | 60 |
| CGAAGCTCCATCTACAGAGGCGTCACTAGGCATAGATGGACCGGAGGTATGAAGCTCAC | 240 |
| R S S I Y R G V T R H R W T G R Y E A H | 80 |
| CTCTGGGATAAGACGACATGGAACAGCATTCAGAACAAGCGAGGAAGACAAATCTATTTA | 300 |
| L W D K T T W N S I Q N K R G R Q I Y L | 100 |
| GGAGCTTATGATAATGAGGAAGATGCGGCTCGGACCTACGATCTAGCTGCCCTTAAATAT | 360 |
| G A Y D N E E D A A R T Y D L A A L K Y | 120 |
| TGGGGCCCTGCTACTATCCTCAACTTTCCTGTAGAGGCCTACACCAAAGATCTTGAGGAG | 420 |
| W G P A T I L N F P V E A Y T K D L E E | 140 |
| ATGCAAAAATTGACTAAGGAGGAGTATTTAGCCTCGCTTAGGCGGCGGAGTAGCGGCTTT | 480 |
| M Q K L T K E E Y L A S L R R R S S G F | 160 |
| TCGCGGGGAGTTTCTAAGTATCGCGGTGTAGCAAGGCACCATCACAATGGCCGGTGGGAG | 540 |
| S R G V S K Y R G V A R H H H N G R W E | 180 |
| GCTCGAATTGGGCGTGTGTTTGCGGAAACAAGTATCTCTACCTAGGAACCTACAGCACCCAA | 600 |
| A R I G R V C G N K Y L Y L G T Y S T Q | 200 |
| GAGGAAGCAGCAGCAGCATATGATATGGCAGCAATAGAATTCAGAGGTCCAAACGCTGTA | 660 |
| E E A A A A Y D M A A I E F R G P N A V | 220 |
| ACAAATTTCGACGTAAGTAATTATGCAGATAAGTTAAAGAAATTCCTACCGGAGGTGCAT | 720 |
| T N F D V S N Y A D K L K K F L P E V H | 240 |
| GTCAGACAGGAAGAGGTTTCATGTGAAGCAGGAAACCAATTCTGTATTCCCTGATGAAGAA | 780 |
| V R Q E E V H V K Q E T N S V I P D E E | 260 |
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| V Q A V E A Q D N Q E Y P N Q F A Q T S | 280 |
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| S E E H E N P W D L C L D T V F N I L P | 320 |
| ATCCCTGACCTTCCTCTGGGTAAAGCCTCCGAGGTATTTCGATTACCATGGTTTTTGAGGAC | 1020 |
| I P D L P L G K A S E V F D Y H G F E D | 340 |
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| D I E C I F D E P L D D N E N F Q N A M | 360 |
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| L G C Q V D A D A L V S Q N L K G T N S | 380 |
| CCTTCTTCTCCTTCITTCGTGCGCCATTATCATCGACCATATCAGCTTGCAGCAACATGTAA | 1200 |
| P S S P S S S P L S S T I S A C S N M * | 400 |

B

| | | |
|--|-------------|------|
| ATGAAGAGAAAGTCTCCCTCACCAGCTTGCTCCTCCTCCTCCTCCT | CCTCCTGCTGC | 60 |
| M K R K S P S P A C S S S S S S S S | S S C C | 20 |
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| I E S P T A Q K N A P Q S K A D A V K P | | 40 |
| AAGCCCCAACGCGTTTCGAGCGAAGAAAAACCAGAGCCACAGCAATTCCGCCACCTCCCCT | | 180 |
| K P K R V R A K K N Q S H S N S A T S P | | 60 |
| AAATCGCGCAGCTCCATCTACAGAGGCGTCACTAGGCATAGATGGACTGGGAGGTACGAA | | 240 |
| K S R S S I Y R G V T R H R W T G R Y E | | 80 |
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| A H L W D K T T W N S I Q N K R G R Q I | | 100 |
| TATTTAGGAGCTTATGATAATGAGGAAGATGCGGCTCGGACCTACGATCTAGCTGCCCTT | | 360 |
| Y L G A Y D N E E D A A R T Y D L A A L | | 120 |
| AAATATTGGGGCCCTGCTACTATCCTCAACTTTCCTGTAGAGGCCTACACCAAAGATCTT | | 420 |
| K Y W G P A T I L N F P V E A Y T K D L | | 140 |
| GAGGAGATGCAAAAATTGACTAAGGAGGAGTATTTAGCCTCGCTTAGGCGGGCGGAGTAGC | | 480 |
| E E M Q K L T K E E Y L A S L R R R S S | | 160 |
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| G F S R G V S K Y R G V A R H H H N G R | | 180 |
| TGGGAGGCTCGAATTGGGCGCGTTTGCGGAAACAAGTATCTCTACCTAGGAACCTACAGC | | 600 |
| W E A R I G R V C G N K Y L Y L G T Y S | | 200 |
| ACCCAAGAGGAAGCAGCAGCAGCATATGATATGGCAGCAATAGAATTCAGAGGTCCAAAC | | 660 |
| T Q E E A A A A Y D M A A I E F R G P N | | 220 |
| GCTGTAACAAATTTTCGATGTAAGTAATTATGCAGATAAGTTAAAGAAATTCCTACCGGAG | | 720 |
| A V T N F D V S N Y A D K L K K F L P E | | 240 |
| GTGCAAGTCAGACAGGAAGAGGTCATGTGAAGCAGGAAACCAATTCTGTTACCTTGAT | | 780 |
| V Q V R Q E E V H V K Q E T N S V T L D | | 260 |
| GAAGAAGTACAAGCAGTTAAGCACAAAGATAATCAAGAATATCCAAACCAGTTTGCTCAA | | 840 |
| E E V Q A V K A Q D N Q E Y P N Q F A Q | | 280 |
| ACAAGTACACCTGAGCCAGAATCGAAAGATTCCATTGAGTCGGAAGACATACTCGTCATG | | 900 |
| T S T P E P E S K D S I E S E D I L V M | | 300 |
| GACCTGTCCGAGGAGCACGAGCACCTTGGGATCTCTGTCTAGACACTGTATTCAATATC | | 960 |
| D L S E E H E H P W D L C L D T V F N I | | 320 |
| CTCCCAATCCCTGACCTTCCTCTGGGTAAAGCCTCCGAGGTATTCGATTACCATGGTTTT | | 1020 |
| L P I P D L P L G K A S E V F D Y H G F | | 340 |
| GAGGACGATATTGAATGCATCTTCGACGAGCCATTAGATGATAATGAGAACTTCCAGAAT | | 1080 |
| E D D I E C I F D E P L D D N E N F Q N | | 360 |
| GCAATGCTTGGATGCCAGGTTGATGCAGATGCTTTGGTATCTCAAACTTGAAAGGGACG | | 1140 |
| A M L G C Q V D A D A L V S Q N L K G T | | 380 |
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| N S P S S S P L S S T I S A C S N M * | | 399 |

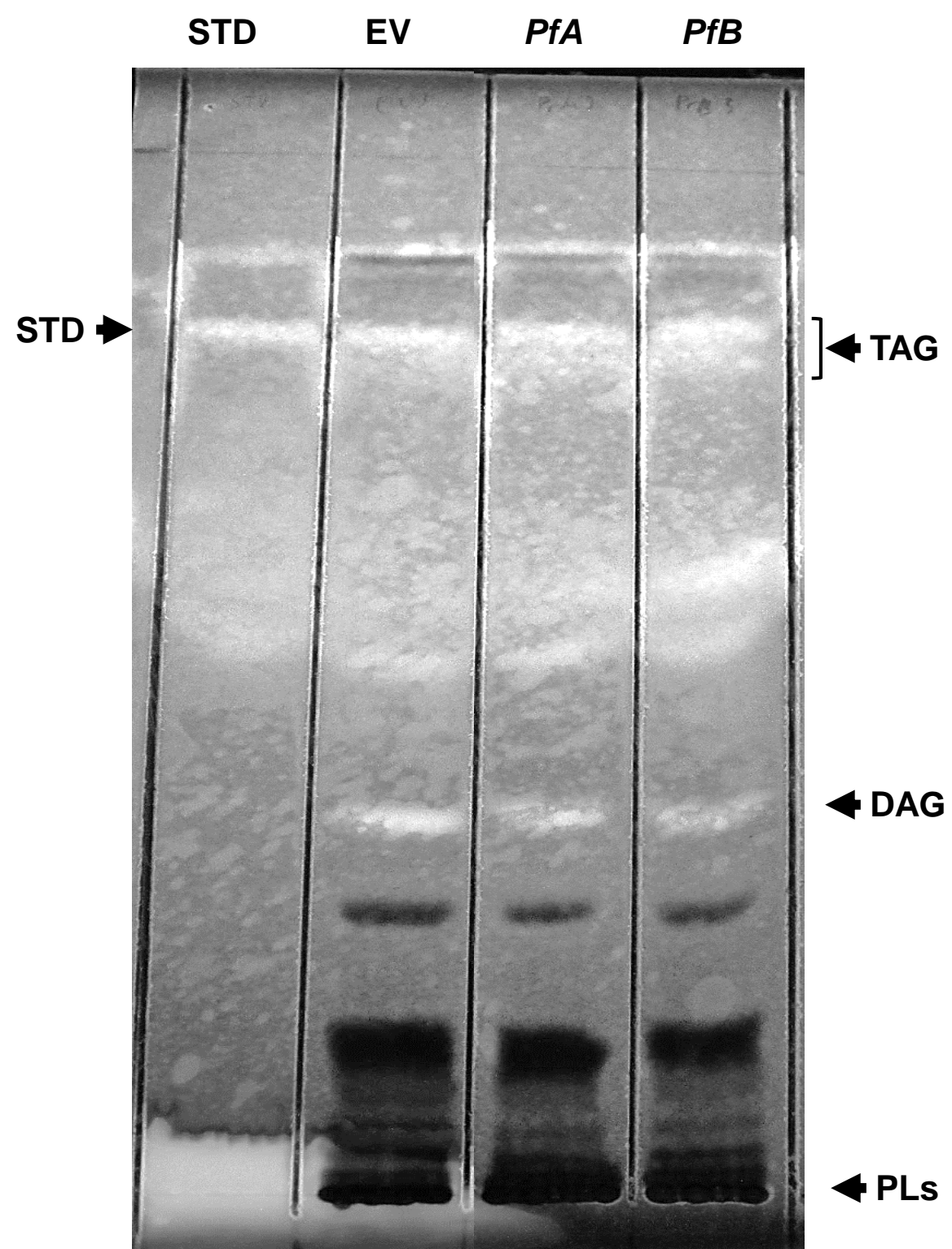
Supplementary Figure S1. Nucleotide and deduced amino acid sequences of *P. frutescens* *WRI1A* and *WRI1B* isoforms

The conserved AP2/ERF DNA binding motifs and transcriptional activation motif [36] in WRI1 are shown in green and yellow backgrounds, respectively. The non-conserved nucleotide and amino acid sequences between *PfWRI1A* and *PfWRI1B* are shown in dark-gray and light-gray backgrounds, respectively.



Supplementary Figure S2. Design of *PfWRI1A*- or *PfWRI1B*- specific primers.

Plasmids harboring *PfWRI1A* or *PfWRI1B* were used in PCR analysis as templates. The designed A- and B-specific primers are shown in Supplementary Figure S1.



Supplementary Figure S3. Thin layer chromatography (TLC) of neutral lipids on a silica gel plate developed with a solvent mixture of hexane/ethyl ether/acetic acid (70:30:1, v/v/v).

TAG, triacylglycerol; DAG, diacylglycerol; PLs, polar lipids; EV, empty vector; *PfA*, *PfWRI1A*; *PfB*, *PfWRI1B*; STD, glycerol triheptadecanoate (C17:0).