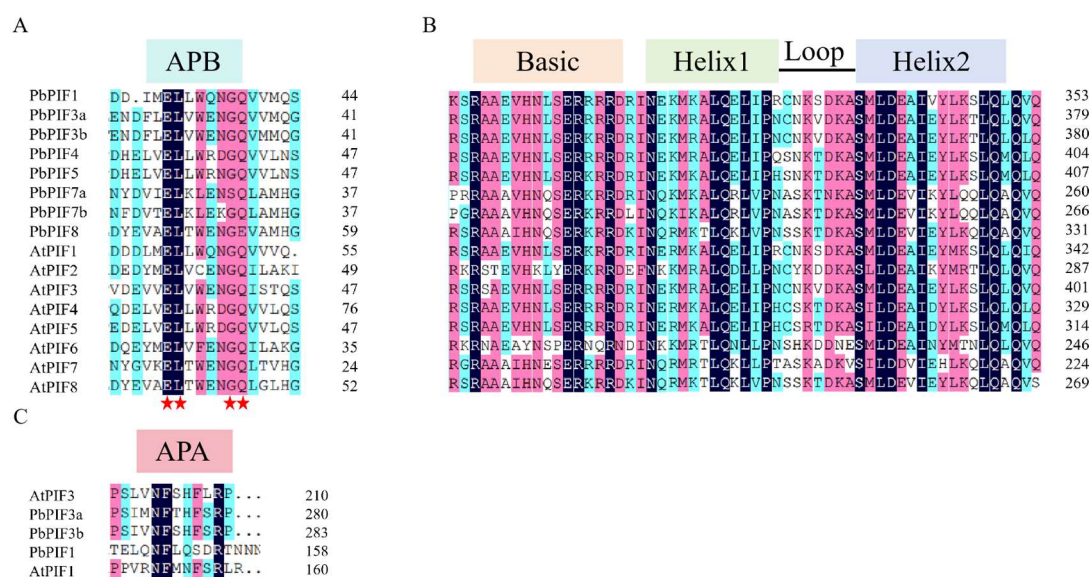
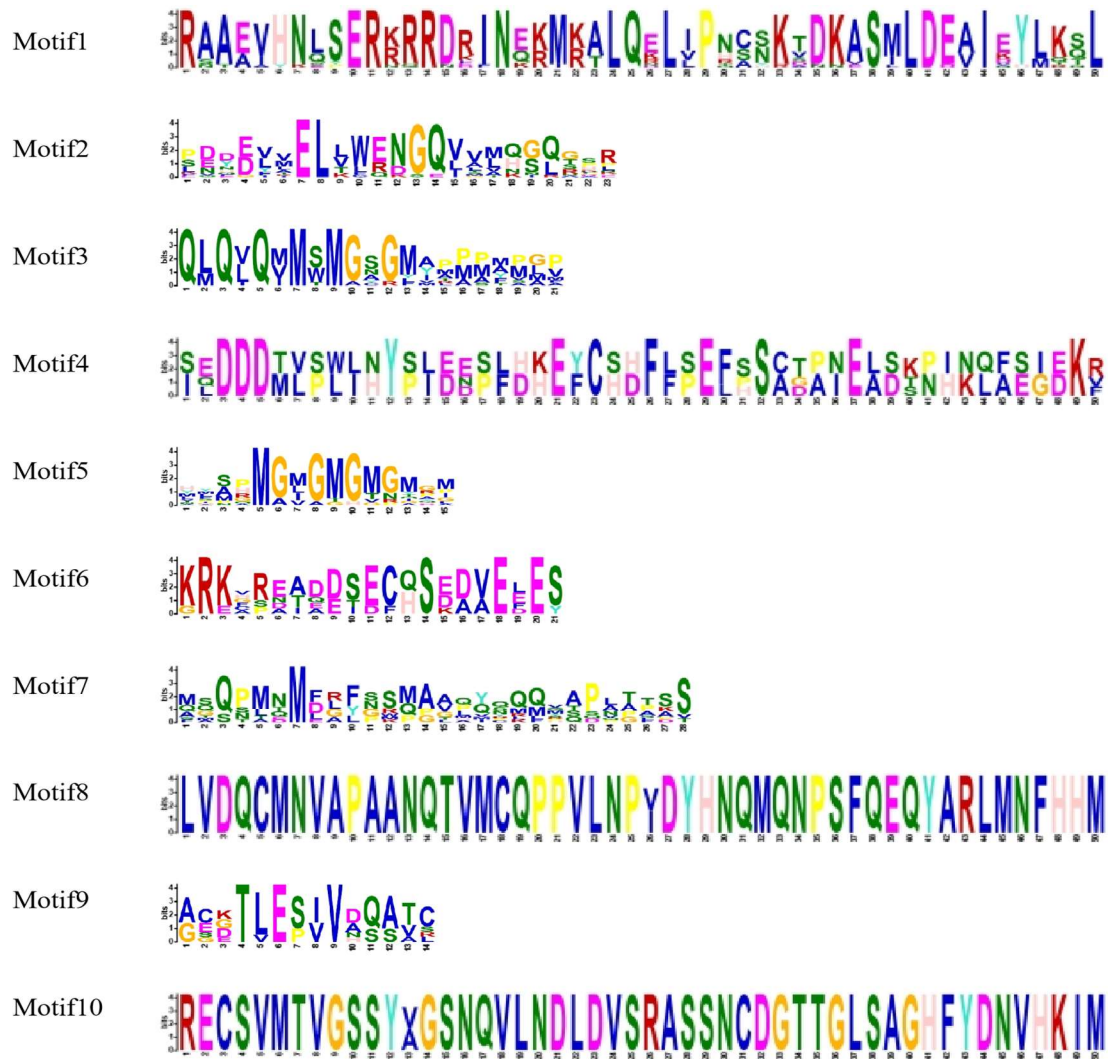


**Table S1.** Primers used in the current study.

|                                 |                  |                                                           |
|---------------------------------|------------------|-----------------------------------------------------------|
| qRT-PCR                         | PbActin-F        | CCATCCAGGCTGTTCTCTC                                       |
|                                 | PbActin-R        | GCAAGGTCCAGACGAAGG                                        |
|                                 | PbPIF3a-F        | TTCCAGCTCTTCACAATGCC                                      |
|                                 | PbPIF3a-R        | ATTCTTCCTAGTTCTACTGGACTG                                  |
|                                 | PbPIF4-F         | AGGTCTGGTGGGTCGTATGG                                      |
|                                 | PbPIF4-R         | ATGGGAGCAAACTCTTTGTCGA                                    |
|                                 | PbDFR-F          | CAGGAAGTGTGAACGTGGAGG                                     |
|                                 | PbDFR-R          | GAGACGAAGTACATCCAACCAGTC                                  |
|                                 | PbANS-F          | TGGTAAGATTCAAGGCTATGGAAGC                                 |
|                                 | PbANS-R          | TCACGCTTGTCCTCTGGGTATAC                                   |
|                                 | PbCHS-F          | ACCCAAGTGTGTGCGAGTAC                                      |
|                                 | PbCHS-R          | TGGGTGATTTTGGACTTGGGC                                     |
|                                 | PbF3H-F          | TCGCTAGAGAGTTCTTTGCTTTC                                   |
|                                 | PbF3H-R          | TTTACGCCAATCTTGCACAG                                      |
|                                 | PbUFGT-F         | ACACTCTCTTCTCGTTCTTCAGC                                   |
|                                 | PbUFGT-R         | CATCGTACACCCTTAGGTTAGGC                                   |
|                                 | PbHLH3-F         | TCCTGGGAGTCGTACAAGT                                       |
|                                 | PbHLH3-R         | CATCGGTACAAACACCACTGTC                                    |
|                                 | PbWD40-F         | CGGTGTATTCGCCTCCGTCTC                                     |
|                                 | PbWD40-R         | GACTGGTGCCTCTGCAACTCG                                     |
| Transient expression            | OE-PbPIF3a-F     | GATCTGCAGCCCGGGGGATCTTATCTGTTAGCTCTGTTGTTGTTAGCATCAG      |
|                                 | OE-PbPIF3a-R     | CGCTCTCGAGGGGGGGCCCGATGCCTTTGTCCGAGCTTTATCG               |
|                                 | OE-PbPIF4-F      | CTTTGTAGTCgacgagctcggtaccCATTAGTTGCAGCTCCTACACCG          |
|                                 | OE-PbPIF4-R      | GACGATGACAAAGcttggatccGGAACCTTTGAGGCTGATCTCCCC            |
| Subcellular localization assays | GFP-PbPIF4-F     | TGGTGATAGGGCCCGGATCCGGAACCTTTGAGGCTGATCTCCCC              |
|                                 | GFP-PbPIF4-R     | TGATTTTTCGGGACTCTAGAATTAGTTGCAGCTCCTACACCG                |
|                                 | GFP-PbPIF3a-F    | TGGTGATAGGGCCCGGATCCATGCCTTTGTCCGAGCTTTATCGGA             |
|                                 | GFP-PbPIF3a-R    | TGATTTTTCGGGACTCTAGAGCTGCAACATGGATTCTCTCTCTC              |
| Yeast one-hybrid assays         | pHIS-proPbDFR-F  | cgactcactataggggaattcCACCCAACCGTTTAGTTCAGCAA              |
|                                 | pHIS-proPbDFR-R  | gatcgattcggaacgctgagctcCGATGCTCCCCTACCACTT                |
|                                 | pHIS-proPbUFGT-F | cgactcactataggggaattcTAACCAATAAAGTGAGTGCAGCAGC            |
|                                 | pHIS-proPbUFGT-R | gatcgattcggaacgctgagctcATTGTTATGTCCACGATTGGCC             |
|                                 | pHIS-proPbLAR-F  | cgactcactataggggaattcAATCTGGGTACGTGTTAGTATTTTGGTATGT      |
|                                 | pHIS-proPbLAR-R  | gatcgattcggaacgctgagctcTTGGCAACGAAAGAGAAGATGAAAC          |
|                                 | pHIS-proPbCHS-F  | cgactcactataggggaattcATGATCCAGACCGTTGAAATTGATCC           |
|                                 | pHIS-proPbCHS-R  | gatcgattcggaacgctgagctcATCGGTCGTCAAGAAAGATCGA             |
|                                 | pHIS-proPbCHI-F  | cgactcactataggggaattcTACACAGGAAGAGCTATGATTACTCCATGAG      |
|                                 | pHIS-proPbCHI-R  | gatcgattcggaacgctgagctcGGGGTTTGCTGTCCGGAAGC               |
|                                 | pHIS-proPbF3H-F  | cgactcactataggggaattcAACAGAGCCAAACAAATTCAACAAAAAAAAAATAGG |
|                                 | pHIS-proPbF3H-R  | gatcgattcggaacgctgagctcTAGGATTGGGGACGCTACAACCTACC         |
|                                 | AD-PbPIF3a-F     | GCCATGGAGGCCAGTGAATTCGCCTTTGTCCGAGCTTTATCGG               |
|                                 | AD-PbPIF3a-R     | TACGATTCATCTGCAGCTCGAGCTCGGCCCTGACTAGATGTTGGATTCA         |
|                                 | AD-PbPIF4-F      | GCCATGGAGGCCAGTGAATTCGGAACCTTTGAGGCTGATCTCCCC             |
|                                 | AD-PbPIF4-R      | TACGATTCATCTGCAGCTCGAGCTCTCATTAGTTGCAGCTCCTACACCGA        |
| Dual luciferase assays          | proPbUFGT-LUC-F  | tatagggcggaattgggtaccTAACCAATAAAGTGAGTGCAGCAGC            |
|                                 | proPbUFGT-LUC-R  | ttggcgcttccatggATTGTTATGTCCACGATTGGCC                     |
|                                 | proPbDFR-LUC-F   | ctcactatagggcggaattgggtaccCACCCAACCGTTTAGTTCAGCAA         |
|                                 | proPbDFR-LUC-R   | tgtttttggcgcttccatggCACAAACGGATTCCGACTCGG                 |



**Figure S1.** Multiple sequence alignment in *Pyrus bretschneideri* and *Arabidopsis* PIFs. (A) Multiple sequence alignment of the APB domains of the PIF proteins. Asterisks represent conserved amino acid residues. (B) Multiple sequence alignment of the bHLH domain in the PIF proteins. (C) Multiple sequence alignment of the APA domain in the PIF proteins.



**Figure S2.** Conserved motifs of in *Pyrus bretschneideri* and *Arabidopsis*.