

Supplementary Figure S4. Alignment of *yefIb* from *P. radiata* and *P. taeda*

<i>P. radiata</i> (JN854165)	1	CTTAATGGGG	CATTCCGTGG	AACAATAAAC	CAATTTGAGT	CCTCCCCAAT	GCTGAACGAT	TCGATCATTT	CGAATCTTTC	80
<i>P. radiata</i> (KC157129)	1	CTTAATGGGG	CATTCCGTGG	AACAATAAAC	CAATTTGAGT	CCTCCCCAAT	GCTGAACGAT	TCGATCATTT	CGAATCTTTC	80
<i>P. taeda</i> (FJ899561)	1	CTTAATGGGG	CATTCCGTGG	AACAATAAAC	CAATTTGAGT	CCTCCCCAAT	GCTGAACGAT	TCGATCATTT	CGAATCTTTC	80
<i>P. taeda</i> (KY964286)	1	CTTAATGGGG	CATTCCGTGG	AACAATAAAC	CAATTTGAGT	CCTCCCCAAT	GCTGAACGAT	TCGATCATTT	CGAATCTTTC	80
<i>P. taeda</i> (KC157082)	1	CTTAATGGGG	CATTCCGTGG	AACAATAAAC	CAATTTGAGT	CCTCCCCAAT	GCTGAACGAT	TCGATCATTT	CGAATCTTTC	80
<i>P. taeda</i> (KC427273)	1	CTTAATGGGG	CATTCCGTGG	AACAATAAAC	CAATTTGAGT	CCTCCCCAAT	GCTGAACGAT	TCGATCATTT	CGAATCTTTC	80
<i>P. radiata</i> (JN854165)	81	GGATTTCATA	GAGATATCTA	TTCCATTTGG	GTATGGGTAC	CATATCTCTT	ATCTTTGGCA	GGAATTGGAA	CACGAAAGCT	160
<i>P. radiata</i> (KC157129)	81	GGATTTCATA	GAGATATCTA	TTCCATTTGG	GTATGGGTAC	CATATCTCTT	ATCTTTGGCA	GGAATTGGAA	CACGAAAGCT	160
<i>P. taeda</i> (FJ899561)	81	GGATTTCATA	GAGATATCTA	TTCCATTTGG	GTATGGGTAC	CATATCTCTT	ATCTTTGGCA	GGAATTGGAA	CACGAAAGCT	160
<i>P. taeda</i> (KY964286)	81	GGATTTCATA	GAGATATCTA	TTCCATTTGG	GTATGGGTAC	CATATCTCTT	ATCTTTGGCA	GGAATTGGAA	CACGAAAGCT	160
<i>P. taeda</i> (KC157082)	81	GGATTTCATA	GAGATATCTA	TTCCATTTGG	GTATGGGTAC	CATATCTCTT	ATCTTTGGCA	GGAATTGGAA	CACGAAAGCT	160
<i>P. taeda</i> (KC427273)	81	GGATTTCATA	GAGATATCTA	TTCCATTTGG	GTATGGGTAC	CATATCTCTT	ATCTTTGGCA	GGAATTGGAA	CACGAAAGCT	160
<i>P. radiata</i> (JN854165)	161	TTCAACTACC	CTGGGAGCCC	TTACCTACAG	ATGCTGTTTCG	TTTCGCTTATC	CCGATCACTC	CATCTATAGT	TTTTTCCAAT	240
<i>P. radiata</i> (KC157129)	161	TTCAACTACC	CTGGGAGCCC	TTACCTACAG	ATGCTGTTTCG	TTTCGCTTATC	CCGATCACTC	CATCTATAGT	TTTTTCCAAT	240
<i>P. taeda</i> (FJ899561)	161	TTCAACTACC	CTGGGAGCCC	TTACCTACAG	ATGCTGTTTCG	TTTCGCTTATC	CCGATCACTC	CATCTATAGT	TTTTTCCAAT	240
<i>P. taeda</i> (KY964286)	161	TTCAACTACC	CTGGGAGCCC	TTACCTACAG	ATGCTGTTTCG	TTTCGCTTATC	CCGATCACTC	CATCTATAGT	TTTTTCCAAT	240
<i>P. taeda</i> (KC157082)	161	TTCAACTACC	CTGGGAGCCC	TTACCTATAG	ATGCTGTTTCG	TTTCGCTTATC	CCGATCACTC	CATCTATAGT	TTTTTCCAAT	240
<i>P. taeda</i> (KC427273)	161	TTCAACTACC	CTGGGAGCCC	TTACCTATAG	ATGCTGTTTCG	TTTCGCTTATC	CCGATCACTC	CATCTATAGT	TTTTTCCAAT	240
<i>P. radiata</i> (JN854165)	241	GTCCCGATCA	CTAAAGACTT	GCCCTCTGAT	CCGATCCCAG	AACTCAATCA	AGATATTGGT	TGGCATCAGC	CTTGAGAATA	320
<i>P. radiata</i> (KC157129)	241	GTCCCGATCA	CTAAAGACTT	GCCCTCTGAT	CCGATCCCAG	AACTCAATCA	AGATATTGGT	TGGCATCAGC	CTTGAGAATA	320
<i>P. taeda</i> (FJ899561)	241	GTCCCGATCA	CTAAAGACTT	GCCCTCTGAT	CCGATCCCAG	AACTCAATCA	AGATATTGGT	TGGCATCAGC	CTTGAGAATA	320
<i>P. taeda</i> (KY964286)	241	GTCCCGATCA	CTAAAGACTT	GCCCTCTGAT	CCGATCCCAG	AACTCAATCA	ATATATTGGT	TGGCATCAGC	CTTGAGAATA	320
<i>P. taeda</i> (KC157082)	241	GTCCCGATCA	CTAAAGACTT	GCCCTCTGAT	CCGATCCCAG	AACTCAATCA	ATATATTGGT	TGGCATCAGC	CTTGAGAATA	320
<i>P. taeda</i> (KC427273)	241	GTCCCGATCA	CTAAAGACTT	GCCCTCTGAT	CCGATCCCAG	AACTCAATCA	ATATATTGGT	TGGCATCAGC	CTTGAGAATA	320
<i>P. radiata</i> (JN854165)	321	TAAATCTCAT	ACGGCAAATG	GCTTCATGTA	ATGGACCGTT	CTACGCAACC	TATTTAACTT	ATTTTTTCAA	CAAAGTTGGC	400
<i>P. radiata</i> (KC157129)	321	TAAATCTCAT	ACGGCAAATG	GCTTCATGTA	ATGGACCGTT	CTACGCAACC	TATTTAACTT	ATTTTTTCAA	CAAAGTTGGC	400
<i>P. taeda</i> (FJ899561)	321	TAAATCTCAT	ACGGCAAATG	GCTTCATGTA	ATGGACCGTT	CTACGCAACC	TATTTAACTT	ATTTTTTCAA	CAAAGTTGGC	400
<i>P. taeda</i> (KY964286)	321	TAAATCTCAT	ACGGCAAACG	GCTTCATGTA	ATGGACCGTT	CTACGCAACC	TATTTAACTC	ATTTTTTCAA	CAAAGTTGGC	400
<i>P. taeda</i> (KC157082)	321	TAAATCTCAT	ACGGCAAACG	GCTTCATGTA	ATGGACCGTT	CTACGCAACC	TATTTAACTC	ATTTTTTCAA	CAAAGTTGGC	400
<i>P. taeda</i> (KC427273)	321	TAAATCTCAT	ACGGCAAACG	GCTTCATGTA	ATGGACCGTT	CTACGCAACC	TATTTAACTC	ATTTTTTCAA	CAAAGTTGGC	400
<i>P. radiata</i> (JN854165)	401	CGTAAAAAAG	TTCCCAACAAC	TTTCCTACCA	ATGGAATTGC	TTGTTCCCTAT	TTTTAAAAAG	GAATATCTTT	TCGTTTAATA	480
<i>P. radiata</i> (KC157129)	401	CGTAAAAAAG	TTCCCAACAAC	TTTCCTACCA	ATGGAATTGC	TTGTTCCCTAT	TTTTAAAAAG	GAATATCTTT	TCGTTTAATA	480
<i>P. taeda</i> (FJ899561)	401	CGTAAAAAAG	TTCCCAACAAC	TTTCCTACCA	ATGGAATTGC	TTGTTCCCTAT	TTTTAAAAAG	GAATATCTTT	TCGTTTAATA	480
<i>P. taeda</i> (KY964286)	401	CGTAAAAAAG	TTCCCAACAAC	TTTCATACCA	ATGGAATTGC	TTATTCCTAT	TTTTAAAAAG	GAATATCTTT	TCACTTAATA	480
<i>P. taeda</i> (KC157082)	401	CGTAAAAAAG	TTCCCAACAAC	TTTCATACCA	ATGGAATTGC	TTATTCCTAT	TTTTAAAAAG	GAATATCTTT	TCACTTAATA	480
<i>P. taeda</i> (KC427273)	401	CGTAAAAAAG	TTCCCAACAAC	TTTCATACCA	ATGGAATTGC	TTATTCCTAT	TTTTAAAAAG	GAATATCTTT	TCACTTAATA	480
<i>P. radiata</i> (JN854165)	481	TGAGTGGGCA	ATACTAATAA	ATTCACGCGA	GAAATTTATCT	TTGGATGATT	CATGCAAAAG	AAAGATTTTA	TTGCCCTTTA	560
<i>P. radiata</i> (KC157129)	481	TGAGTGGGCA	ATACTAATAA	ATTCACGCGA	GAAATTTATCT	TTGGATGATT	CATGCAAAAG	AAAGATTTTA	TTGCCCTTTA	560
<i>P. taeda</i> (FJ899561)	481	TGAGTGGGTA	ATACTAATAA	ATTCACGCGA	GAAATTTATCT	TTGGATGATT	CATGCAAAAG	AAAGATTTTA	TTGCCCTTTA	560
<i>P. taeda</i> (KY964286)	481	TGAGTGGGTA	ATGCTAATAA	ATTCACGCGA	GATTTTATCT	TTGGATGATT	CATGCAAAAG	AAAGATTTTA	TTGCCCTTTA	560
<i>P. taeda</i> (KC157082)	481	TGAGTGGGTA	ATGCTAATAA	ATTCACGCGA	GATTTTATCT	TTGGATGATT	CATGCAAAAG	AAAGATTTTA	TTGCCCTTTA	560
<i>P. taeda</i> (KC427273)	481	TGAGTGGGTA	ATGCTAATAA	ATTCACGCGA	GATTTTATCT	TTGGATGATT	CATGCAAAAG	AAAGATTTTA	TTGCCCTTTA	560

<i>P. radiata</i> (JN854165)	561	CAGGGAAATA	CTATTAAATG	AACCTCTCCA	AATTAGAGAA	ATTCGGAAAC	ATGTGCCTCG	ATGGTCATCT	GGTTTGAGGA	640
<i>P. radiata</i> (KC157129)	561	CAGGGAAATA	CTATTAAATG	AACCTCTCCA	AATTAGAGAA	ATTCGGAAAC	ATGTGCCTCG	ATGGTCATCT	GGTTTGAGGA	640
<i>P. taeda</i> (FJ899561)	561	CAGGGAAATA	CTATTAAATG	AACCTCTCCA	AATTAGAGAA	ATTCGGAAAC	ATGTGCCTCG	ATGGTCATCT	GGTTTGAGGA	640
<i>P. taeda</i> (KY964286)	561	CAGGGAAATA	CTATTAAATG	AACCTCTCCA	AATTAGAGAA	ATTCGGAAAC	ATGTGCCTCG	ATGGTCATCT	GGTTTGAGGA	640
<i>P. taeda</i> (KC157082)	561	CAGGGAAATA	CTATTAAATG	AACCTCTCCA	AATTAGAGAA	ATTCGGAAAC	ATGTGCCTCG	ATGGTCATCT	GGTTTGAGGA	640
<i>P. taeda</i> (KC427273)	561	CAGGGAAATA	CTATTAAATG	AACCTCTCCA	AATTAGAGAA	ATTCGGAAAC	ATGTGCCTCG	ATGGTCATCT	GGTTTGAGGA	640
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<i>P. radiata</i> (JN854165)	641	TAGGTGAATA	TGATGACGTA	GACCCAATTC	TATTACCATC	GAATACTTTC	GATATGACTT	TGATATTGGG	CAAAGAGGAG	720
<i>P. radiata</i> (KC157129)	641	TAGGTGAATA	TGATGACGTA	GACCCAATTC	TATTACCATC	GAATACTTTC	GATATGACTT	TGATATTGGG	CAAAGAGGAG	720
<i>P. taeda</i> (FJ899561)	641	TAGGTGAATA	TGATGACGTA	GACCCAATTC	TATTACCATC	GAATACTTTC	GATATGACTT	TAATATTGGG	CAAAGAGGAG	720
<i>P. taeda</i> (KY964286)	641	TAGGTGAATA	TGATGACGTA	GACCCAATTC	TATTACCATC	GAATACTTTC	GATATGACTT	TGATATTGGG	CAAAGAGGAG	720
<i>P. taeda</i> (KC157082)	641	TAGGTGAATA	TGATGACGTA	GACCCAATTC	TATTACCATC	GAATACTTTC	GATATGACTT	TGATATTGGG	CAAAGAGGAG	720
<i>P. taeda</i> (KC427273)	641	TAGGTGAATA	TGATGACGTA	GACCCAATTC	TATTACCATC	GAATACTTTC	GATATGACTT	TGATATTGGG	CAAAGAGGAG	720
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<i>P. radiata</i> (JN854165)	721	CAGTTCAAAA	CCGTTATTCT	GCCGAGGCAG	ATTATCGTCG	GAACTTAATC	AAAGGATCCA	TACGTGCTAA	AAGACGGAAA	800
<i>P. radiata</i> (KC157129)	721	CAGTTCAAAA	CCGTTATTCT	GCCGAGGCAG	ATTATCGTCG	GAACTTAATC	AAAGGATCCA	TACGTGCTAA	AAGACGGAAA	800
<i>P. taeda</i> (FJ899561)	721	CAGTTCAAAA	CCGTTATTCT	TCCGAGGCAG	ATTATCGTCG	GAACTTAATC	AAAGGATCCA	TACGTGCTAA	AAGACGGAAA	800
<i>P. taeda</i> (KY964286)	721	TAGTTCAAAA	CCGTTATTCT	GCCGAGGCAG	ATTATCGTCG	GAACTTAATC	AAAGGATCCA	TACGTGCTAA	AAGACGGAAA	800
<i>P. taeda</i> (KC157082)	721	CAGTTCAAAA	CCGTTATTCT	GCCGAGGCAG	ATTATCGTCG	GAACTTAATC	AAAGGATCCA	TACGTGCTAA	AAGACGGAAA	800
<i>P. taeda</i> (KC427273)	721	CAGTTCAAAA	CCGTTATTCT	GCCGAGGCAG	ATTATCGTCG	GAACTTAATC	AAAGGATCCA	TACGTGCTAA	AAGACGGAAA	800
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<i>P. radiata</i> (JN854165)	801	ATTTGATATG	GAAAAGGGTA	CAACCGAATG	TACATTCCTT	TTTTTTTTTGA	AAAGAAAAGA	AATACCCGCT	TATCCTAAAG	880
<i>P. radiata</i> (KC157129)	801	ATTTGATATG	GAAAAGGGTA	CAACCGAATG	TACATTCCTT	TTTTTTTTTGA	AAAGAAAAGA	AATACCCGCT	TATCCTAAAG	880
<i>P. taeda</i> (FJ899561)	801	ATTTGATATG	GAAAAGGGTA	CAACCGAATG	TACATTCCTT	TTTTTTTTTGA	AAAGAAAAGA	AATACCCGCT	TATCCTAAAG	880
<i>P. taeda</i> (KY964286)	801	ATTTGATATG	GAAAAGGGTA	CAACCGAATG	TACATTCCTT	TTTTTTTTTGA	AAAGAAAAGA	AATACCCGCT	TATCCTAAAG	880
<i>P. taeda</i> (KC157082)	801	ATTTGATATG	GAAAAGGGTA	CAACCGAATG	TACATTCCTT	TTTTTTTTTGA	AAAGAAAAGA	AATACCCGCT	TATCCTAAAG	880
<i>P. taeda</i> (KC427273)	801	ATTTGATATG	GAAAAGGGTA	CAACCGAATG	TACATTCCTT	TTTTTTTTTGA	AAAGAAAAGA	AATACCCGCT	TATCCTAAAG	880
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<i>P. radiata</i> (JN854165)	881	ATTATTATGA	CACGTCCGAT	TCTGGTAGAG	TGGATAAGGA	ACAAATCGAG	GAAGAAGTTA	GGGAAAAAAT	CCAGAAGTCG	960
<i>P. radiata</i> (KC157129)	881	ATTATTATGA	CACGTCCGAT	TCTGGTAGAG	TGGATAAGGA	ACAAATCGAG	GAAGAAGTTA	GGGAAAAAAT	CCAGAAGTCG	960
<i>P. taeda</i> (FJ899561)	881	ATTATTATGA	CACGTCCGAT	TCTGGTAGAG	TGGATAAGGA	ACAAATCGAG	GAAGAAGTTA	GGGAAAAAAT	CCAGAAGTCG	960
<i>P. taeda</i> (KY964286)	881	ATTATTATGA	CACGTCCGAT	TCTGGTAGAG	TGGATAAGGA	ACAAATCGAG	GAAGAAGTTA	GGGAAAAAAT	CCAGAAGTCG	960
<i>P. taeda</i> (KC157082)	881	ATTATTATGA	CACGTCCGAT	TCTGGTAGAG	TGGATAAGGA	ACAAATCGAG	GAAGAAGTTA	GGGAAAAAAT	CCAGAAGTCG	960
<i>P. taeda</i> (KC427273)	881	ATTATTATGA	CACGTCCGAT	TCTGGTAGAG	TGGATAAGGA	ACAAATCGAG	GAAGAAGTTA	GGGAAAAAAT	CCAGAAGTCG	960
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<i>P. radiata</i> (JN854165)	961	AAGATCCATT	ATCCCAGCAG	ACAATTACTG	AGTCCTTATG	TTTAACGTGG	CCAGAATTGC	ACTATTTAAG	AAGTTTATTA	1040
<i>P. radiata</i> (KC157129)	961	AAGATCCATT	ATCCCAGCAG	ACAATTACTG	AGTCCTTATG	TTTAACGTGG	CCAGAATTGC	ACTATTTAAG	AAGTTTATTA	1040
<i>P. taeda</i> (FJ899561)	961	AAGATCCATT	ATCCAAGCAG	ACAATTGCTG	AGTCCTTATG	TTTAACGTGG	CCAGAATTGC	ACTATTTAG	AAGTTTATTA	1040
<i>P. taeda</i> (KY964286)	961	AAGATCCATT	ATCCCAGCAG	ACAATTGCTG	AGTCCTTATG	TTTAACGTGG	CCAGAATTGC	ACTATTTAG	AAGTTTATTA	1040
<i>P. taeda</i> (KC157082)	961	AAGATCCATT	ATCCCAGCAG	ACAATTGCTG	AGTCCTTATG	TTTAACGTGG	CCAGAATTGC	ACTATTTAG	AAGTTTATTA	1040
<i>P. taeda</i> (KC427273)	961	AAGATCCATT	ATCCCAGCAG	ACAATTGCTG	AGTCCTTATG	TTTAACGTGG	CCAGAATTGC	ACTATTTAG	AAGTTTATTA	1040
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<i>P. radiata</i> (JN854165)	1041	TTAATGGCTC	AATCAAA	1057						
<i>P. radiata</i> (KC157129)	1041	TTAATGGCTC	AATCAAA	1057						
<i>P. taeda</i> (FJ899561)	1041	TTAATGGCTC	AATCAAA	1057						
<i>P. taeda</i> (KY964286)	1041	TTAATGGCTC	AATCAAA	1057						
<i>P. taeda</i> (KC157082)	1041	TTAATGGCTC	AATCAAA	1057						
<i>P. taeda</i> (KC427273)	1041	TTAATGGCTC	AATCAAA	1057						