Lignin plays obvious role in the cotton defence response to *Verticillium dahliae* through RNA-Seq dependent transcriptional analysis and histochemical test. *L Xu, L Zhu, L Tu, L Liu, D Yuan, L Jin, L Long, and X Zhang.*

SUPPLEMENTARY DATA

Table S1 List of primers used for qPCR.

Gene ID	Forward primer	Reverse primer	Result (Failed)
CL5659Contig1	GAAATAGTGGCGTGGGAGTTAGGAT	ACCATGAGAGACTGAGTTGTGTGAGG	F
CL5961Contig1	CTCGGCTACAATCCCTCGACCTCTC	GGACCAACCCGAGTTAAGAGCAAGG	F
CL6579Contig1	GAGAACACCAACATTTCGGGTCAAC	ATCTAACCTCTCTGTGTCCTGTATGTCG	
CL6774Contig1	CGATGTGGGAGTCGTCGATGAAAGG	GGGAGTGCCTTCCAGAGCAGGTATG	
CL7826Contig1	ACTAGGCAAGACACTGTTGGGGTTA	AGCGAATGTTTGCTACTACCCTGTC	
CL10864Contig1	TCAAAGGGACTCAAAGCCTCACAAC	GGGTTGATGGCAGCTTTCTGAATAT	
CL11195Contig1	ATTCGTGGATGCCTTGGTGTCTCAT	AGCTAGTGCTACAAGCCCAACATCTG	
CL1Contig2953	AGTGGCTTCTAACCTCCTTTTCTCG	TAATTCCATGAGAGACGGGCAAATG	
CL14866Contig1	TTGGAGATGAAGGTCTGTGCGAGAT	TCAACGCAGTCAGATTAGGGCAGTT	
CL21478Contig1	GAGGCTTGGGTCAGTCAAAGTGTAG	TAGTGCTTTTAGGCGAAATGTGGAG	
gi|164313245|gb|ES846884.1|ES846884	CAAGAAATGGAGGATGAAGAAGGTG	GGTGATGTCAGATACATAAACAGCCAAG	
gi|164244139|gb|ES830058.1|ES830058	CTCTGCCAATCTGCCATAGAGGAGC	GTAAACGGTTCCCTTGCTTGACTGG	
CL500Contig5	CAAGCAGCACCGCTCGTTCAACATC	GAACTGCCGTTACTACTTGCCAACCTCC	
CL957Contig7	AAGACTTGTGGCAAGGTCGCCTAAC	GACCCAATACCCAAGTCCACCAGTT	
CL1Contig585	AACCAGTGTTGGATTGGAGCACAAG	AACCACTGCCTCGCAATAATCATCC	F
CL3903Contig1	ATTGGAAGTGGTGGCTCTGGGAAAG	ACTATGTTGGAATGGCGAATGTTGC	
CL5325Contig1	GTGATTTGGGCTTGTCAAAGGTCAG	AACTCCCACATAACAATGCCGAAAG	
CL5588Contig1	ATGCAGGCTGATGACGATAGAGGAC	TTCAACCATCGGAATGAAAGTTGTG	
CL2337Contig1	GAGCTTTAACTCCCTGGCATACTTG	GGAAGTCCACGAAGTTCATTGAAGT	

CL4605Contig1	TCCGTCTTGATCTTCACC AGAACAG	CCCTAAACGAGAAAGGGC ACCTAAT	
CL6449Contig1	GGGCAGCTCTATAAAGG TTGGCTTG	CCCAGAACGCTAACCAAA TGACGAT	
CL7785Contig1	AGCAACATAAGATTGTG CGAGAACG	CCTGGAAATTATCAGTCAT CGCCTC	
CL10161Contig1	AGAAGCGACCGTCTATG TTGGATGT	CAATGACTTGCCTGAATAT AAAGGAACC	
CL11029Contig1	AGAAGCGACCGTCTATG TTGGATGT	TGACGAAACATATACTTCA TTGCTAGTGC	
CL15247Contig1	GACGCTTATTTGGACATA GGCTGACTT	CGTGCAAGTACAATAAGC CCCTAGC	
CL24027Contig1	GCCTTCAATGGGAGAGG TCCTATGG	TGAATTGCCGACTCGTTTC TGAGGTAC	
CL988Contig2	CTCAGACTCAGACCAGC ACTCCACC	ACAAGAGGCTAGCTGCAA GAACCAC	
CL1840Contig4	TAGGGTCATCGTCCAGT CCCAATAG	TCCCAGTCAATAACTCCAA AAGCAAC	
CL3694Contig1	GCCACAAGCCGTATGCA CCCGTTAT	GCATGTCCCTTACCCAACA TCCAGTCC	
CL5860Contig2	ATGTCCCGTGTCGTTGGT ATGCTTG	GGATGTTTGCGATTCATCC ATAAAGGT	
CL6016Contig1	GGAAATCTCCAATACAT GCCACCAG	TCAAACACTTCAGCGGTC CACTCTT	
CL7067Contig1	CCAGGTCCCTCTGTTTAC GCCACTT	TGAGTGTAACATTGGCAG GGCTATTCG	F
CL2460Contig2	TGATATTGGCAGTCAACC GAAGGAC	TGATACCACTTTCGTACCA CGCAAC	F
CL4400Contig1	ACCTTGTTGGCTTGGATT TGTATGG	GCAGTAAGCTCCCTTGGA ATGGATC	
CL4928Contig1	CCACGGGTTCCTTCTCTA AGTTTTC	CCTGTATCATATCTCACAA ATCCCATCAG	
CL5025Contig2	CACGGGAAAGCACGTTC AGTATCAT	AACCGTTCCGAATTGTTTA ATGTGG	
CL5079Contig1	GTCCAGGCAACAGGGA ACTTCAGTG	GTTTCAAGGGTCTTCACCT CAGCATG	
CL5905Contig1	CGATGCGGAGGTACAGA CACTGAGC	GCAATCTCGTACCTTGTAT CCCAATCG	
CL6551Contig1	CGATGCGGAGGTACAGA CACTGAGC	CTCGTATGCAACCGATCCC ACAAGC	
CL6623Contig2	GGCTTGGCTTACCTTCAC CATGATC	TGAATCTTTGCCTCCTCTG GCTTGT	
CL8229Contig1	GCTTTAGGTGCCTGGTG ATTGTTAC	GCGATTCATACAAGTGTTG GAACAG	
CL8764Contig1	ACAGTCACAAGCAACAG GGATGGTT	GAAGACTCGTTACTGGAG GATTGGATTT	

CL9160Contig1	ACAGTCACAAGCAACAG GGATGGTT	TAAGACTCGTTACTGGAG GATTGGATTT	
CL11186Contig1	GAGGCACTATGGGGTAT GAGGGAAT	CTGATGAGGACAAGGATG AAAATGG	F
CL13137Contig1	CGAACCCAGAAGATAGA CCCAGCAT	TCTGTTTTCAGCTTGGACT ACTCAATCG	
CL13232Contig1	AGATTGCTTAAACGGCT TGGTTGTG	TAAAGAGTGGGCAGAAAT GGATGGT	
CL14110Contig1	GAAAATCGCCGACTTGG GTTGTGCT	TCCGGTGCCATGTAAAGA GGCGTAC	
CL14564Contig1	CAAGGTACTCTAGCAGG CCATCACA	TGGGCAACATCTTCTCAGA ATCAGT	
CL15517Contig1	TTCTCCCGTTGCCAGTCC TACATTC	ATAGCACAGCCATCGAATA TCAAGC	
CL22563Contig1	GAACTTGGTCTCGGACC CTCTATCC	TGTTTGCATCCCTGTCTCG TTGAAT	F
gi|109871381|gb|DW500357.1|DW500357	GGGTGATACCTTGCAGA TTCTTCCT	AACAGACTTTTGTCCTGGT GGTGAG	
gi|13247730|gb|BF271971.2|BF271971	TGCTGCTAACGGATCTA GTCAAGTTG	CAAACGTGGATTTCTTCAG CTTAGTGT	
CL19658Contig1	AATTCAAGTGCAGTTTC CGGTAATG	AACCACCAATTCAGATTCT TAACCTTC	
CL4331Contig2	ATGCCATATCCCGATCTC AGCTTCT	TATCGCCTCAATCATCGAC ACCACT	
CL6058Contig1	TGTAGAGCCTCATGGCG AGGAATAC	ATGCGCTCACTTTATCCGA ATCAGT	F
CL6943Contig1	CCTGTTATTCCCAAAGA CTGTCCAC	AATTGCTCCAACACCTTCA CTATCTG	
CL9500Contig1	CTGTCGGAACTCGTGTT GGGATAGG	ATTGGGATGTCGAAGTCG GCTAAGA	
CL15603Contig1	GCTGCTTGTGAAGGTCA TGTTGAGG	TGACTGCCATTGGTGTCTT CCTGAT	
CL23435Contig1	GAGATGCTGGGTAGCCA CTCCTGAC	CCATTCACTGTTTCTGCCG TTTCCT	F
CL491Contig5	GGCTTTGACCACCAACT CTGGACTC	TAGATTGCACCTGCACGA GACGAAC	
CL2312Contig1	GAAAGAGAGGTTAGCAG CGAGGAAT	TTGCTTAGGATTGAGAGTG CTATGCT	F
CL2312Contig2	CAAGAACTCAAGGCACT GAAACTGG	AAATGAGGCTTTGAAGGC AATACTG	
CL4258Contig1	GGGAGTGAGGAACAGTA AAGGAGGA	AGGAGAAGCAGGAAACTG ATAAAGTGATT	F
CL7303Contig1	GTCTAAGGTTGTGCCAG TGGTGTCT	GAAGACGCATGAAGGAAG ATGTAAGAG	
CL10177Contig1	ATGAAAGAGCTGGAAGA	CCTTGTTGTGGTGCAACTT	F

	TCCAATGG	GAGTGT	
CL13397Contig1	GCGAAGCTGAACGGAG AAAGCGTAG	GGAAAAGGATGGCGTCAG CCACTCT	F
CL17875Contig1	TGGTCTTGACATGCTCG AAACAACC	TACGAAACATGTCGTCCCA TTGTCG	
CL963Contig2	AAGGCTCTGGAAATGGG TGCTGTAG	CAGCCTCCTGCTCCTTATT CAGGTG	
CL1335Contig1	TCAAAGACATAAAGCGG TACACTGGAG	GCCAGTAGAGCCAGAGGA TTGTCAT	
CL1763Contig2	TCAGTGAAATGCTGCTG AGGTGTTA	AAATTCCTATGGGATGGAG GTTGTC	
CL1796Contig1	CATAAAATGGAGCAGAT TCAGTTCG	CCTTTGTCGGACTCCTCTA TAATGC	F
CL3224Contig1	AGAGCGATTCAGATTCC TCGTCCTC	CTCAGCAGGCAACTGATT AAGATCAAAT	F
CL3667Contig2	TAAGCGACGAGCAGAGG CATTACAG	GCTTCAATGGCGGTATCAA AGGTTC	
CL6560Contig1	TTCCGATGAGGAAAGGA AGAGGAGC	CTTTGACCGATCCGTTGGC TTCTAC	
CL10178Contig1	GAGACCGGCTCAACTAC CGCCACAG	CGAATCGCAGTCGCTGTG ACAATCC	F
CL10243Contig1	GCACCTCCTTGGAGACT TCCCTTCG	GATTCGGCAATTCGGGTCA GATACG	F
CL14369Contig1	CGAGCCCAAAGATGAAT CAGCAGAG	CCTTTGCCTAACTCCACGG TAATGTCT	
CL15501Contig1	CGACAACACCTTCTCGG TGACTTTG	GATTTCAGGGAGTTGATGG CTTTGG	
gi|193218961|gb|EY 197233.1|EY197233	GCAGCGTCCGGTTTACT TCTTCGAT	CAAACACTCTACGCCGCA CTCCTCC	F
CL1Contig3306	TTGGGCACCGTCCGATA ACTCTAAG	ACGCCTCTGTAATGCTTCC CTTTGG	F
CL322Contig3	CTCGCTTACGACGGAGC AGCTAGGT	AACGGTGATGGTGATGAG GTGAAGC	
CL5067Contig1	CCCTCAACATAGTCGGT CGTAAGTT	CACGGACCAAGTCAGAAA CTACCAT	
CL6871Contig2	GCTCTTCGTCGTCAAAG CAATGGAT	CAGCTTCCAATCGACCACA TTTATGC	
CL10876Contig1	TCGGACCTGGTGGTAAT GACAACCT	CAATGATGTTGGGCTGTTG CTGTTC	
CL16071Contig1	CGTTCAACATTCATCCTC CACATTT	ATGATGCTGCACCATTTGT AAACAC	
CL20845Contig1	AAGGAGGAAGAGCAGC GGATTTTCG	TCTTCGGTAGCAAAAGTG CCCAGGT	
CL514Contig1	AGTCCGAGAAGGTAAGA TCCGACAA	CCTGAGGAAAAGACAGTG AAGGTGG	
CL514Contig4	TAGGGGTGTGAGACAGA	GTGCCAAGCCAAAGTCGT	

	GGCATTGG	GTTCG	
CL824Contig1	AAGTGAAAGCAAGTCCG TTGAGGTT	CAAGCAAAGACCCTAAGC CTAAGGT	
CL1335Contig1	TCAAAGACATAAAGCGG TACACTGGAG	GCCAGTAGAGCCAGAGGA TTGTCAT	F
CL1539Contig2	TGATAAAGGTGAAGATA CAGCCGAACC	CGAGGAGAATACAGCGAA AGTGGAG	
CL1763Contig2	TCAGTGAAATGCTGCTG AGGTGTTA	AAATTCCTATGGGATGGAG GTTGTC	F
CL1796Contig1	AATCTCGTTGCCGCATAA AATGGAG	GCCTTTGTCGGACTCCTCT ATAATGC	
CL2539Contig1	GTGGGATTGTGGAGCTT TTCAAATG	AGTTGAAGAAATCATCTTC GTCAAGGC	
CL2870Contig1	ATCAAGTCCAGCAAGCG GAGAGAAG	CCTCATCCTTATCCCTCTG AATGGTTT	
CL3224Contig1	TGTTTTTCGTTGATGTCT TTGCTTC	TCTCAGCAGGCAACTGATT AAGATC	
CL3667Contig2	GCAGAGGCATTACAGGG GTGTTAGG	CTTCAATGGCGGTATCAAA GGTTCC	F
CL5722Contig1	CGTGTACGGCTTTGGTTA GGCACCTATG	GCAGCGAAGAACGGAAGT CGGTGAG	
CL1Contig2018	AAGAACAAATCTGGAGC CTGGAATC	CGCCGTTGCTTATACTGAG TTACGA	
CL6085Contig1	GGTTGGAACGATCTTGG TGGTTTCG	CGTGTTGTTCTTCGGGTTT CACTGG	
CL6525Contig1	CGATCTTGGTGGTTTCGC AACTGAC	CGTGTTGTTCTTCGGGTTT CACTGG	
CL6560Contig1	TAACTTCCGATTATTTCC GATGAGG	ACCTTAGTTCTTTGACCGA TCCGTT	F
CL8001Contig2	GCAGGAGGTTGCTTCCA AGTCTACG	GTTCGGTTCTTGGGGAGTC TGATTT	
CL8846Contig2	TGCTAATCTTTGTTCGCA ATTTGTC	CCCTGTATCTCCTCCTTGG TTCTTC	
CL10178Contig1	CGGCTCAACTACCGCCA CAGAAGTC	CGAATCGCAGTCGCTGTG ACAATCC	
CL10243Contig1	GCACCTCCTTGGAGACT TCCCTTCG	GATTCGGCAATTCGGGTCA GATACG	
CL10357Contig1	CCTACCTTCCATCCCGAC GCCAAAC	CGCTCCTGCTTCGTATTCC CCGATAACT	
CL10885Contig1	TGCCGTTTCCTTTCTCAT CTTGTAT	TTTGAACCTTTGACTATTG CACGAC	
CL11822Contig1	AAAACTGTTGTTGAGTG CTCCTTGC	AGAACCCCAGCTCCTCATT CTTACA	
CL11847Contig1	ATCAAAGGAAATACAAG GGAGTGCG	TTGAATACGAGCCTAACCA AAGACG	
CL14369Contig1	CGAGCCCAAAGATGAAT	CCTTTGCCTAACTCCACGG	F

	CAGCAGAG	TAATGTCT	
CL15501Contig1	CGAGCCCAAAGATGAAT CAGCAGAG	CCTTTGCCTAACTCCACGG TAATGTCT	F
CL19861Contig1	GAAATGGGTGGCTGAAA TAAGGGAA	GAAATGGGTGGCTGAAAT AAGGGAA	
gi|193218961|gb|EY 197233.1|EY197233	TTCTCCGCCGCCACTTG ACCTTACT	CAAACACTCTACGCCGCA CTCCTCC	
gi|59800344|gb|AY7 81119.1|	CACCACCTTATCCTATGG GTCTTGG	ATGATTCCAGGCTCCAGAT TTGTTC	
CL1Contig3306	TTGGGCACCGTCCGATA ACTCTAAG	ACGCCTCTGTAATGCTTCC CTTTGG	
CL1Contig3370	GATTCCAAGGCTCCAGA TTTGTTCT	AGCTCTTACTCTGCTTCCT CCTGCT	
CL29Contig2	CATTTGCTTATGTGGACA CTGTTCCTG	TCCCTGGTCTGAGCCGAA ATACAAG	
CL29Contig4	AATGTTATGCCTGCCGAA GACAACTC	CAATAGTGGCGTCCCAGTT TCCTTC	
CL29Contig8	TCCGACTATGGCTGGGG AGAACAGG	CAAAGCCAACAGCTCGTC CGACAAG	
CL29Contig9	AGGTGAACTTCCCTGAT GAGATGCC	CTCTTCAACGAAACCCAC GGTATCA	
CL322Contig3	TCGCTTACGACGGAGCA GCTAGGTC	AAACGGTGATGGTGATGA GGTGAAGC	F
CL1714Contig2	GGGTGTACGCAGAAAAT GGTAGTCA	CCTCTGACAATGAGCAGT CCTCTTG	
CL1Contig339	AAATCCTCAGGGTTCAG CTCAAAGC	TCAGATCATCGTCATCGGC AAGTAA	
CL13083Contig1	CTGTTGCTCTCTCTCATG CGGCTAT	TCATGGTTCATTACAGCAA GGAAATC	
CL5641Contig1	AAGGTGGGACGGATAAA GGGATAGC	AAAAGGAGGATTGAGGGC GAGAGAT	
CL6228Contig1	CAAGGACGGTCAATGGT TTAGAATC	CCTTGTTTCTCAGCCATTA CACGAT	
CL6228Contig2	AAAGACGGTCAATGGTT TAGAATCC	TTCCCTTGTTTCTCAGCCA TTACAC	
CL14700Contig1	GAACTGGGGATTCTTTG AGCTGCTG	GATTCAGGGAGATGGCGT AAGAAGA	
CL26Contig1	AGGAGTTGTTGGATTTG TTTTGTGAGAAT	GGGGTCGGACATGGTGGA TAGTTG	
CL26Contig11	CGTAAACAGCCTCACTC TGAGAGTTCTT	TTCAACACCTCAAAGAAG CCCCAAT	
CL26Contig14	ACAGGAGTGTGGAGCAC CGTGTGAT	CATTCCTTCTTCTCTTCTGC TTCATTCT	
gi|164255880|gb|ES 843034.1|ES843034	GGCTTTAATGAAATGTTT GGGCTGTCG	GGGAACATTACTGGGACC CCAACCG	F
CL9140Contig1	CCTGGTTGGTTTAGGGTT	AAGGCTGCTTCGTCTGCAT	

	TGTTTTG	AACTTG	
CL9140Contig2	CGGTTTGGTTTGCTAATA TGGAGGA	AAAGGGAACGGGATAAGC TGAGTTT	
CL9160Contig1	ACAGTCACAAGCAACAG GGATGGTT	GTAAGACTCGTTACTGGA GGATTGGATTT	
CL5Contig1	GATGCTGATGGAAATGG GACCATTG	CATGGCGAAGCTCAGCAG CAGATAT	
CL5Contig3	AGGAGTTGGGAACTGTG ATGCGATC	CTTGTCAAACACCCTGAAT GCCTCTT	
CL5Contig9	TCATCAGTTTCCTTCCGC TACCTTC	CATCACAGTTCCCAACTCC TTGGTAGT	
CL5Contig15	TGTTCAGTAGTCCGGGT TGTCAGTG	CGATTCTTGGAAATTGTTC GAGGTT	
CL19667Contig1	CATGGGAGAGTTGGCAG CAGTGATC	TGAAATCGATGGTCGTCCC ATTTCC	
CL9646Contig1	TCATCTTCAGGTTTCCAG GATTTCT	TCTTCAAGCTGTCGAAAGT AATGACC	
CL5513Contig1	GCAGGAAACTGATGCAG AAGAGGAG	CTTCATAGTTGACTTGACC ATCACCGT	
CL9160Contig1	ACAGTCACAAGCAACAG GGATGGTT	GTAAGACTCGTTACTGGA GGATTGGATTT	F
CL3197Contig2	ATCATCTATTTGCTGCCT TCTCCTACTT	TAATCAATGCGTCCGTCAT TATCCT	F
CL3711Contig1	TTCTTAATGCTATGGGAT TGCTTGC	ATTGAAATTACTCGATTGC CCTCCT	F
CL4384Contig2	AGGCTGGTACGGATTGG AGAAAAGC	TGTTGGGTCATCTGGGCTC ATTGTT	
CL10447Contig1	GCGTGGGCTGTAGGAGT TACCTTGT	TGAGTTTATGTCGTTCGGC AGGATT	
CL11186Contig1	CTTTTGGAGGCACTATG GGGTATGA	TCTGATGAGGACAAGGAT GAAAATGG	F
CL11333Contig2	CTGCCATCATGCACGATG TAGACAC	TATAGGATTATCGGGCGAC AGCAAT	
CL22563Contig1	GAACTTGGTCTCGGACC CTCTATCC	GTTTGCATCCCTGTCTCGT TGAATC	
CL1Contig3979	GTTTGCGAAGATACGGC TCTACCTT	TGGTCCCACTATTATCGAC ATCAGC	
CL5311Contig1	GAAACGACACCGCATGA TAAAGCAC	AAGGGAGAAGGGCTCTAA GCCTGTT	
CL7787Contig1	ACAAGCAGCAGCTTCCA TACAACAG	ACAGGCACTAAACATAGC CCACGAC	
CL18916Contig1	GACCCAGCAGAAGGAC CTAAACAAGAT	GTCCAGAAATCCACAGGC GACTCAT	
CL2138Contig2	GTGAAACAGGGGAGTG GGACTGAAT	CGGCTTTGGTGACTGGTAT TGGTTA	
CL2410Contig1	ATGCCATTACCTATATCA	TTTGCCCATTGTTTATCATC	

	CCGACCT	TCCTT	
CL4555Contig1	GGCATAGCCAATACCAC TTCTCAAC	TGCTCTGTAAATCATCCTC CCAAAT	
gi|11203333|gb|BF272338.1|BF272338	TCTGCTCGTGCTGCTTAC TCACCGT	GCTCCTCTTCATGGCAATC CATCCT	
CL2771Contig1	TTTACCTCGTGCGATTCC TGCCACT	TGATGTATTGTATCTTGAG GGCGAACGG	
CL6159Contig2	TCACAACAAAACAATCA AACGAAACAG	AAGGTTATGTGAGGACAT GCTGTGG	
CL1497Contig2	CGGCAACTCCCATTCTC CTATCTCC	AATCCGGCGATGTAACATT CGTGTC	
CL2985Contig2	TAAAACCGCAAGATTCG GCTGTTAG	AACCACTGAAGGAAATCC CGACAGT	
CL3429Contig3	ATCAAGTTCACAACCCA ACGCTTCG	CGTCGTACCCGCTTATGTC TTCCAC	
CL3611Contig2	TGGTAGTTGAGGCAGAT TCTGTATGTTG	TGCAGTAAATACCATTGGC ATGTGAT	
CL2629Contig2	GAGTCGTGGGGAAGTAC AGTGTGTG	CATGATCGGAGGAAGGAG TTGTAGC	
CL1672Contig2	TCCTCCGAGCAGCGTGT CAACCTAC	GAATCACTTTGTGCCCCTG AAGAATGG	
CL5620Contig1	TGGATTCAATCCAAGTC CCTGAGCT	ATAAATTGCTGTCACCGTC ACCCAC	
CL6391Contig1	CATTGAGGAAGGTTGTA CCCGACAC	CAACTGTGCAAAGCCTTA ACCAGAC	
CL8210Contig1	AGGCCAAGCCACCATAT TTGTGAAG	TTTCCCTCCAACCTCCATA CTCTTCTTC	
CL1784Contig2	TGCTGGTAGTCTCCTTCC ATCTGTT	TGTTAGGCAACTCAGGGA CACTGTT	
CL6198Contig1	CTCAACTCTATCATCAAA CGAAGCATTTAG	GGTTTCACTTGACCCTCGG TATCCT	
gi|164326605|gb|ES818723.1|ES818723	TCGCTCATGGCGTGTTTG AGTGTTG	TGCTGCGGTAAGACCCGT AGTTGCT	
CL1875Contig2	TTGAGGACAACGATGTA CGCTAAGC	TCCGACCAACTCCGATACC CAC	
CL243Contig3	GTTCGGGAGATTTGGATT ACGTTGG	ATAAAGGCGGTGAATCGG AAGGTG	
CL11215Contig1	TTCTAGCGATGGTCTTGG GTGGAGC	TCAGGTTGCTGGTTCTGTG GGTGCT	
CL2312Contig1	GAAAGAGAGGTTAGCAG CGAGGAAT	TTTCTTCCTTGCATTAACA CCGTCT	
CL4258Contig1	GGGAGTGAGGAACAGTA AAGGAGGA	GATTGAATCTCATGCAGGA CGAAAC	
CL10177Contig1	ATGAAAGAGCTGGAAGA TCCAATGG	CCTTGTTGTGGTGCAACTT GAGTGT	F
CL13397Contig1	CGAAGCTGAACGGAGA	TGGCTCGGATGAAGTGGT	F

	AAGCGTAGG	CAAAGAAG	
gi|109877738|gb|DW506711.1|DW506711	CCCAAACTCCGAACTGCCATCAAGG	CTACCTCGGCCTCGACTTCGTCCAT	
gi|31406542|gb|CD485577.1|CD485577	CCATTACCAGGCTCAAAGCATCCAC	TGTCCTCGTTAGTGCCAGCATTTCC	
CL2572Contig1	ACTTCCCACCATTCTATCCATTTTCA	CTGCTGTTGGCTTCACCACTTCA	
CL872Contig2	AGGGACTGGGTCTCGTTCTTCTGAT	CCACTTGAGTCGGTGTTCGGGTAG	
CL8924Contig1	AAACAGGCGAAACAGCTTAAATGCG	TGCGTAGGTAGTGGTGGTGGAGGAG	
gi|164284962|gb|ES796995.1|ES796995	CGAGGCTGATAGTAGCAGAGTTGTGG	ATCTTTGATACGTTAGGAACTACGGCAC	
CL1Contig3361	ACGGAACTCATCACGCAAAGCTCAG	TCGACTCCAGCATGTGGGTCACTAAT	
CL2920Contig2	TCTTCTGGGGGATGCTATTTCGTAT	TAGTAATTTGTGGGACGAGGTGAGG	
CL4565Contig2	TGATGAGGTTGCCCGTAAGATTGAG	GAACAGGAAAGGTGCGGAAAGACAC	
CL8126Contig1	GCCGTCTTGCGTACATTATTTATTCC	AATGGGTCTCTAAGAAGCAACGAATG	
CL9160Contig1	ATTGGTGGTTATCAGTCGTTGGAGC	AACCGATTTGTCGTAACTGGCAGAG	F
CL2460Contig2	CGGATAAACTGTCTTGCTTGGTCTC	TAGATGCAGGCTTGTCAACCTCATA	
CL10138Contig1	AAGCTCCTTGAAATCCAATCTGACG	TCTACAATTCCAGCCAAGAATAGAGAGTT	
CL8872Contig1	AACCGTACATCTACCGGCTCCCTCT	TCACACAATGCTCGGATTCCTCAAC	
CL10924Contig2	ATAAACCGAGCGAACAATCGAATGG	GCTCATTTGACCCACTTTCAGGACC	
CL14352Contig1	CAGAAGAGACAGAGAGAACCGAGATTC	TGGTGGTGCAACGATAATAACTCCT	
CL15725Contig1	CATTAGGGTTTATGGAGTTGTTGGG	AGGAAGAGTAAGGTGTAGCAGGCAG	
CL20464Contig1	TTACTCGGTGATATTGTGCCTCCTG	GGCTGCCCTTATGTTTATACCCATC	
CL23838Contig1	TCTGCTTCTTTGCCTTATGGTGTTG	AGCTTTGGCCCGACTGTATTTTAAC	
CL11304Contig1	AGAGGATCAATGAACGGCATTATCA	CGGGGTGTTCTTATTATCTTCTCGG	
CL10036Contig1	AATATGGGTTACCGTGAAGGGATGG	TTAGGAGGAAGGACTTTAACTGAGATTGG	
CL13863Contig1	AAAATCAGAGCGTCAAGGCATAAACT	AACAGGCACTTTCTATCTCATTGAACC	

CL21776Contig1	CAAAGATTAGTGGCATTGGCTGAGG	GTGGGGTGATTTTGGACTAAATCCTGT	
CL3321Contig1	TCTACAGAGGAACCGTTTGGGACAC	TCGTTTCATCCACCATACAATGCTCT	
CL667Contig1	GCTCATACAATACCAAGCTGACACGT	CAGGAAACTGAGAAGTGCGAAATAAAC	
CL8429Contig1	AGACCTTCTTCAAATGCCCTACTGG	TCACGCCATCTGTAAACTTACGCTT	
CL10780Contig1	CCAACAACCCTTCAGCCGCAACAGT	GCCGGGCGTAAACTCCGACAGACAT	
CL14766Contig1	AACTGCAAGACACCGCAATCTTCCT	GTTCACGTTTCCAATACGCTCACCC	
CL1Contig3332	TGTTTCTAGTCACGGTGTCTCCATTT	GAGTCTCCCTCTACCATAACAACTGCT	F
CL2517Contig1	TCAACCTACCGACCCGAACAACGAC	CCCATAAAGAACAAAGCGGAAATCAAGAC	
CL306Contig2	GCCAATGCCGGAAGAGTACCATAAC	CCACTCTAAGCCACTTCAGCCTCGT	
CL5553Contig2	CTGTGGGTAAATGGGATGAGATACG	GCTCAGTAAGGCAAATAACGCAGTC	
CL5919Contig2	TGCTGCATCCTTTACTAGGTCTCAAT	CTAATCTGTTCCTCGCACTTCTTTGA	
CL7354Contig2	TTCCGCTCATCTTTTCTACTCATTGCTC	TTGGTTTGACTCTATGTGCCGCCTT	
CL9420Contig1	GTTAGGACTCGGAGGTCAAACAGTAGTT	AACAGGAGCATTCAAATCGTTAGGTAT	F
CL224Contig8	TGCTGTCGGATTCTGAGAACTATGC	TGCAGCTGAAACCGATAACTTGATCT	
CL2240Contig3	GAGGGAGTCTTCTCCTGGTTTTGAT	TCATTGACATTCCTTCCCTCATGTC	
CL1347Contig1	TTTTTGTGGGATCCATAGGTACCCT	AGAGGATTAGCTTTGGCGATTTGTT	
CL6697Contig1	AGCATCGTTTCGAGGTGGAGATTAC	AGTCCTTTTCGCTGCATTTGTTAGG	F
CL745Contig2	GTCGTCCGATAGCCTGACCGATAAG	AAACTGATATGGACACCGAGACTCCG	F
CL23796Contig1	GTATGGGTGTTGATTGTGGGATTTG	GCCTTATGAGGGCATTGATAGCATT	
CL2655Contig2	GTGTGGGAGAAAGTGATAGGGATGC	GAATGGGAAGATGATGGCTAAGAACC	
CL10685Contig1	CACCCTTATATGGGCGTGATACTGT	GGAAACCTATTAGAATCCGCAAAGC	
CL1354Contig1	CATCAGGGCAGGCTAAGGTAATAGG	ACAAGGAAAGGACCCAGGAAGAAGT	
CL4345Contig2	GGCTCTGCGCTTGAAAGGACCTGTT	TCATTGCCACATTCAGCCATCTCTTCTT	

gi|109835989	CATCAACATCGGAAATA CTGAACCC	TTCACTTGGAAATATGGCA ATACACC	
CL6569Contig1	AGTCAAGAACAAGAGA GAAACGATGG	GCCTCATACATCCAAACCC TAACTT	
CL1Contig486	GCTCCGTGTTCTCCTTCT GGGTCTA	ATCCAAAGCACTCATCACA ATCCAATC	
CL76Contig5	TCACAACCACCCCACCC TTGTCCAC	CTGGATTGAACACGCTCCT CCACACGT	
CL217Contig3	TGAGAGTAGAAGGGACG GGAGTTTG	TTAATCTTCCCACTCGCCG CTAAAT	
CL15247Contig1	GGTCATCGAATCTCCTTT GGCTCTA	CAGCCTATGTCCAAATAAG CGTCAG	F
CL1Contig585	GTGTTGGATTGGAGCAC AAGGAAGA	AACCACTGCCTCGCAATAA TCATCC	F
CL2857Contig3	TGGTTCCATCAGTGCTCC TGTCACC	GGAACGATCTGACGACCA GGGCTAG	
CL8458Contig1	GATGACCTGTCAAAGCC CCAAGACC	TCAGCAGTGAATTTATGCT CCTCAAACC	
CL7067Contig1	TAGGTTGGGTTATACCAC CAGGTCC	GTGTAACATTGGCAGGGCT ATTCGT	
CL19000Contig1	ATCGCCACTGCAATTCC GACTCTAG	CATGCTTGAAGGAGTTCTT CCGTGC	
CL8228Contig1	TTCCCTCATTGCTCAGAA GTGCTCG	AAACTCGGCCTTGTCCTTC TTAAATGC	
CL9665Contig1	AGTTCTTCACATAGCTGC AATGCGA	TTATTCGTTTCCTTCCCTTG CTCTG	
CL10612Contig1	TATGAAGGCTTTGGACTT GGAGATG	TTTCTCCCCCAATCCATAA CTATCG	
CL12916Contig1	CCTCACAACCAAACAAG AACCGAAT	CTCACACATTTCTGGCTGA ATCGTT	
CL23499Contig1	GATACTTGAAATGATGGC TGATGGGT	GTTGAACATTAGGGCATGG TGGGTA	
gi|164327463|gb|ES 826231.1|ES826231	CGTTTCTCCGTTGTATGA AGGCTTT	CCATAACTATCAATTAGCA TTAACCAGAT	F
gi|45774313|gb|AY5 60549.1|AY560549	TCTCCTTCTTCCTTTTGC TTTGTGG	ACCTTCAACTGGAATGGC GAATGCT	
gi|21092682|gb|BQ4 04995.1|BQ404995	CTTGAATGGAACGAGCA GTAATGTG	TGTCATCACCTGTAAGGAA TCACCA	
gi|21101348|gb|BQ4 13661.1|BQ413661	AAAAGAGTATTGGTCTG GTGGGACTG	GAATGGAACGAGCCAGTA ATGTGAT	
CL28Contig11	CGGAGTCAATGTGCTTT GCTGGGTC	TTTCTCTAGCAGCCTTCGC CATTCC	
CL28Contig12	TTCCAGTCATTCAATTCC GTTCATC	CAATGGGACCTCAACCAG TTCTTTC	
CL138Contig2	AATAAAGGCTATCCCAA CTCACCAT	TAATTTGTCTTTGCCATCA CTACCTCTT	

CL4890Contig2	TCGTTACTGCTTTCGTACTCAACCC	TGCCTTTGGATAAAGACAATTCCTG	
CL702Contig2	CCAGTGATGGTCTATGGGATGTAATG	TCTGGAGTCAGTGTAGCACCGTTCT	
CL1264Contig2	TGGAGAGCATGGGATTAGGGTGAAC	GACGCAAGAAACACCACAGCATCAG	F
CL1467Contig2	GAGTTTGGTTCCGATAAGAAGGCAG	CACAGCCTGAAGAAGTTGTCCATCT	
CL2477Contig1	ATTGGAGCCTGAAGATTTTGCACAT	ACCCTCCATCCAGTGGTAAGTTGAC	
CL1Contig1080	ATTGGAGCCTGAAGATTTTGCACAT	CAAAGAGTGAAGCAGAGGACTTGGTG	
CL6421Contig2	CTCAAGTTCCGGCTTTGGGAGTAAG	TCTATGAATTTGGAGCAACTGGTATTCG	
CL9584Contig1	TGAAAGGCATAGTGGAATGGACCGT	AGGATGTTCTGGTTGGAGTTGGAGG	
CL10060Contig1	TTGGTGAGGAGACGGTGAGGTTATT	CTAACCTTGTCTAGGCCGATGGATG	
CL1Contig2783	TGGATGGCAAGGTGGCACTGATAAC	GCAAACAGAGTCGCCCAATTCGTCT	
gi|31073227|gb|CA993506.1|CA993506	GGGACGTAATAAGCAACGAGGAAGC	CACCCCTTTGTGCAGGTAATTGATC	
CL8845Contig2	AAAGGGTAGAGATGTTTGAGATTGAGC	TGTAAAGCATGGATTCTTGGATTGC	
CL15011Contig1	ACAAGGCGGAAAGCATCTTCAAACT	CCATTACGAGCTTCGAGGAGGTTTT	
gi|109841587|gb|DW240147.1|DW240147	GCCTCAAAAAGGAAGACCTCAAACTTG	GCGAAAGGATAGGATCACCGCAAAA	
CL3422Contig1	ACCCTTCGACAACCTGGTTCCTCTG	ATCCGATCCAGCCAATGAAACACTC	
CL3601Contig2	AGCAGCAATAAATCCAAGTCCAGTG	CTCATCTGACGCATAGTTCTCACCG	
CL7Contig20	AGCTAGAGCCGAGCACATTAAGCAG	CTATTACCACAGTTGGCAGACTACACCC	
CL850Contig5	TCCATCACCGCATCCACCAACAATG	TTCTTTCCCTCCGCAACCGTTCAGC	
CL8888Contig1	GAGAAACCAACTCCGTGTCCCAAAC	CGACTGCTGCACAGACTCCACTT	
CL12490Contig1	AAGGTTGCTTCGGATTCATCGGCTC	CCCATCGGATTTCTCATCGTCTTCG	
CL272Contig1	GAAGGCTGCTAAGGCTGTAAAATCG	AAGTCCTTGGCCGATGAAAGGTAAC	
CL335Contig1	GTTTCGGATTACTTGTTACAGGAGACC	ATTCCATTCATTTCTGTCATGGCTC	
CL6627Contig2	GGTTTCAACATGGGCTT	CAGCCATTAGATTCTTTGA	

	GTTTGTAG	GGGTTG	
CL8648Contig1	CAACCCTTCCTATCATCG TTTACCAG	GACTGTCCTTTACCACCAT CATCACC	
CL9351Contig1	GCTGAGGAGGCATTACA GAAGTTGA	CAAAGCATAGCCGTAACCA TCGTAG	F
CL1Contig474	GCACGAGAAAACACAA ACGTAGAAC	ACCGAACTTATCGAGTCCT GTCTTG	F
CL18473Contig1	CGTTGCTTTCGCCTGGCT CTAT	TGTCCTTACATTTGAAACG CCCAGT	
CL1288Contig1	GAAGATGTGGACATGGC TATTCGTG	CTTCAAAGCGCACTGCATT ATTCAC	
CL1014Contig3	ATCATTTAACCCTCCGAA GACCTGTACT	GGAGCTTGATTACTACCAG CCTGAGC	
CL18395Contig1	TGAGTCGGATCATATACC AGTCCACAC	TCTAAGGTCGTCCAAATTG TCAACG	
CL2983Contig1	GCAACATGATAGGTGAG CGAGGCAG	GCCATGTGTCCTCTTCCAC CACAGT	
CL5234Contig1	AATGCCCCTTCAAGTTC AGAACCAG	TGAACCGAGCATGACCAG TTCTAGG	
CL7303Contig1	GAGTCTAAGGTTGTGCC AGTGGTGTCT	CCCTTGCTCAAGTTGTCTT CCTCATC	F
CL9861Contig1	AAGTTGTTGGAGGAAGT GTTGTCGG	GGCAGTCTTTCATAAGTTG CGTTGG	
gi|84156557	CGTTGGTGTATTACCGTG GAAGTGC	TCAGCATCTTGTGCAGTCA ATGTGG	F
CL11984Contig1	GACGGTGTCAGGGTATT GGAAGGCT	CCCTTTGGTGGCTTGCCCT TGT	
CL1234Contig1	GTGGGATTTGCCTCATTT GTCTGCT	AATAACCCGCCTCGGTAGC CCTATT	
CL14720Contig1	CGTTGGTGTATTACCGTG GAAGTGC	CTTCAGCATCTTGTGCAGT CAATGTG	
CL1544Contig2	TTGTTCCAAATCACCTG GCAAGTCC	CCTGGGTTCCGCTTCCATC CTAC	
CL1776Contig2	TATGTCAGCACAATGCC GCCTACAC	TTATCAGCTCGCTGAGTTC TGAGTCCA	F
CL19642Contig1	CAGAGTTCGGTGAAAAT GAATGGTAT	TTTATCCGTACCAGTAGCC TTCCAG	F
CL1Contig3933	CAAAGCGAGCCGCAATG GAAGGACT	GGGCAGGAAACCCGTTAT CAACAGTGG	
CL23294Contig1	AATAATGACACGGATGA CCACGAAG	GCTCCATGTCCCACTTTTT AACCTC	
CL362Contig5	GGGAATTTAGATTGGGC GAGTCTTGC	GGTTAGCGTAGGCGGCATC GTG	
CL4334Contig2	AAACAATGGGGCTAAGC AAGACAAG	CAGAAGCAGGACCCGTAG GTATGATT	
CL5075Contig1	CCGATAGAAGACCGTAA	TGATTTGGTTGGTGGTGTA	

	AGCAGTGG	GGAAGC	
CL7259Contig1	AAGATATGCACCTTGTTA TCCCAGTCC	TAAAGTAAAACCATTGCTC CACGTCTC	
CL8550Contig2	ATGATGAGAAAGAAGGA TTGGCTGTT	TTGAATTACCGGAACTCGA AGAAGAT	
CL921Contig2	ACCAACTGGATTATGCA CGAGTATCG	CGACATAACACCCAATCAT CAAGCC	
CL21669Contig1	ATCTCCTCTTCGCCGTTT CTCCTCC	TCGGAACCGATTGACCAA ACTCCTG	
CL3434Contig1	AGAGCTTTGGCTGTAGC GGCTAAAG	CTCCTTCCTAAACTTCAGC TTAACACGG	
CL8229Contig1	GCTTTAGGTGCCTGGTG ATTGTTAC	GCGATTCATACAAGTGTTG GAACAG	F
CL8292Contig1	AGAGGGCAGAACAAGC ACGGACAGT	CATTTGGGAACCATCCTCT TCTAATCTTTG	
CL247Contig6	ATGAACCATTGAATGAA GATGACGAT	CATCGGCTCTTTGTACGTG TTACCT	
CL14551Contig1	CGTCGTTTTCGTGCTTCT AACTTTC	AACTGAATTTGATTCCAAC CCTCATC	
CL10910Contig1	CAAAGACATAAGGCGTT ATTACTGCG	CGTCCGTATGATGAGTGAG AATGTG	
CL1Contig2526	TGTGATCTCTAATATTCC CCGTGTCTG	CTTAAGACATAAGGTCTCG TGAGCTGC	
CL265Contig2	TCAAAACTAAAAGCTGG CCGAACTG	GCGTACCCTCTTGGGACAT TTCTCT	
CL265Contig9	GGTTGAGCAACTAGACC CTGAGAACTC	TCCTCTCTCTTCACAGTCC GACGAT	
CL6137Contig1	CCTGCTGAGGATTGGAC TAGGACAT	TTCTAAGCGTACCCTCTTG GGACCT	
CL318Contig1	TGCACTACTCAGCTCAG AAGAGGAGG	AAACCGCTACCAGAGGAT TTCAGAGT	
CL3537Contig1	AGGTTCCTCCCTTATGTG TCACTACTGT	TCGGGTAAGAGTGACATG CGGATT	
CL2712Contig1	ATCGGATGCGCGTTGTTT ACAGTCT	CCATACCAGAATCGAACG GTCACAC	
CL4089Contig1	GAAAAAAGCGGTATGAA GGTTGGAT	CGTAGCTGGTGTCGCTTGA AGAGTT	F
gi|164246440|gb|ES 851920.1|ES851920	CTGGGTTATCTTTGTTTT CAGGAAATG	CTATTTTGCCAATTTGTCTT TTCACC	
gi|164247134|gb|ES 810196.1|ES810196	TGGATGAGATGAGGAAG AAATCAAG	AAAGAAGAAGATAAAACT GCAAGCC	
CL1Contig1522	ATTGGAACTCCCTTTTTT GGATTGC	CTTGTGGCTCGTAGCTTCT CTGGCT	
CL19841Contig1	GATTTCATTGGTAGGCAG AACCGCT	TCACACGATGGTACTCCAG ATATGC	
CL16532Contig1	TAGTTCTCTTTGGTACGA	GTTTTTCTCCTTTGCTGGA	

	AATTGGC	TTTGTC
CL14456Contig1	AGAAGAATTTGCAGCTT CTTCCGGT	CGAACTCGAAGAAGTGTT GCCGAA
CL1Contig1522	ATTGGAACTCCCTTTTTT GGATTGC	CTTGTGGCTCGTAGCTTCT CTGGCT
CL714Contig5	CGGGTTTGGGAGATCTA GGAAAAAG	CGCCGCGATGACAACTAC AAGAG
CL4420Contig1	AAAAACCGAAATTTCAC CAAACACC	CCAAGAATCAAACCACAA GCAGCAG
CL2463Contig3	AACCATGTGCAAAGTGC TGAACAAC	AGGCAACCCAAGAAAAGT GAAAGAC
CL1Contig2677	CCGTGGACCATGAATAT GTTTTCTC	TTTGGAAGATTGAAGTGCT AGCGTT
CL1Contig4241	GGAGCACAGTGAAGAA CACCGTGAG	CAGCTTTTGCATCAACGGG TAGGTA
CL18193Contig1	GAGCATGGATGAGGTTT ATGGATTG	CAGAGGAGGCTTCTTAGG TGTGGAG
CL9434Contig1	TAAACTAAATGATACGCC CCGGCT	AACATTATTCAAGTTTCTT CTCCCCTT
CL4874Contig2	TCTCTCTTTCCTCCATCA ACCTGGG	CCTCCATTCTTGGTTCCCC AAAAGT
CL932Contig2	CGATTGCTCCGATTGTGC CGCCTAT	TCATCCCGTACCCCTGCCC GAAGT
CL932Contig1	CAAACTCGGGCAGGGGT ACGGTAT	GGGAAGAACCAGTGTCGG GATCAAC
CL23Contig4	GGCCATCCCTCTACTAGT CCCACAC	CCTTCGATTCCTCCTCGAA AAACCT
CL23Contig5	GCGTTGTGTGTGTTGTG TTGTGTGT	AAGAGTGGAATGGAGTGG TGGAGTC
CL1Contig4168	CGGAGCTGGTGAACCAC CCTGAAAT	GCCTGAAGGTAGGGGAGT TTGTGGG
CL1Contig487	CACTTGGATGATCTCTGC ATGTCTC	GGGTATTTTTCTCTTAGCAT TTTGGC
CL1Contig951	CTTAAGCCTGGGCAACG TCTACAGC	TCAGCAAACCCGATAAAC AAAACCG
CL4592Contig1	TGAGGGTACCATAATCA AGACACCC	GAGAGCAGCAAAGTCATA GAGCAGC
gi|164263375|gb|ES 818411.1|ES818411	GGTGAAAGAGGAGATCC TGGAGAAG	GTTCCTATTTGCAGAAGGG AGAGTG
gi|84155298|gb|DN8 04653.1|DN804653	TGGGATGTTGACAAATG GATACAAG	CTAATAGAATGCGTCTATT GTCGCTC
CL12975Contig1	GCTTCTACATGACTCGG AGCAAACC	CAGGATTGCACTGGTAATG AACTTGG
CL1Contig3117	CAAAGCATCCACAGATT AGGGGCAT	TCAAGCATCTATCATCGCC CCAATC
CL9890Contig2	TACGAACAAAGGCAAAG	TGACAGATTGAACAGCAT

	AAAGGACC	GAATGGG	
CL3178Contig2	AAAAGAGAGGCGGGAA GAAGAATGG	ATGCTCTCAGGGGTAAAC CTCAATG	
gi|164343485|gb|ES 810478.1|ES810478	TAAGAGGTTCTTGCCGT CGGAGTTT	AATGATCCAAGGGTGGAA TGACCTC	
CL1Contig4329	TTCTTCCTACATTGTCGC AGCCAGG	GAGTCTTGTTCGCTGTTCT GGGGTC	
CL178Contig3	GAGGTTTGTACCGTCGG AATTTGGT	CAAGGGGTGGTAGAACAT CTGCTGG	
CL1Contig29	ATTGCTGGTTGTGACCTT GTCTTCC	CTCGTTTAACTGTTTTTGC TTTGGC	
gi|164269430|gb|ES 833056.1|ES833056	AAGTCCCTACCGATTTTG GAGATTT	CCCTTAGACCTCAAATATT CCACGG	
gi|164322571|gb|EX 172320.1|EX172320	GCTGCTCAAGTGAAGCG CTCTGAC	AAATGCATGCTTCATTGAA GGACAT	
CL13889Contig1	GGTCCGAAGTCCTCAAC TCCCTCTC	ACCGAAGAACCTGGTACT CACATCG	
CL12709Contig1	GAAGTTAAACAAGAATA CGCCAACG	TCCTCAAATGAACAGGCA AATAATG	
CL8953Contig1	AAATGGGTTCTTATCAAT CCCCTTC	CTTTGTTGTTCACCACAGC TCTGTG	
CL22885Contig1	AGTCATATCGTCCTTGAG TTGTGCG	CTGTTGTTGTTGGGTTCTT CTTCGT	
CL1Contig2504	GGGAGCCTGAACCCATG AAAGAGCT	GCCGTGGCTAAAAGAGAG TAGCCAG	
gi|84151785|gb|DN8 01140.1|DN801140	TAAGCCCACTCAAAGGG AACAAAGC	TGCGCAACTGATCCATACC ATAACG	
CL546Contig1	ACAACTCCCAATCGCTT GCTTCCG	GCTAACGCCCATGCTGTCT TCTCTG	
CL823Contig4	ATCTCTATTGGCATCCAT TTGGAGG	CAGGGCAGACAGTAACCA GGTTTAC	
CL732Contig2	TCCAGTCATGTGGTGCTT GTTATGG	GTAGTTTGAAGGGTTCGG AGGGTTC	
CL1935Contig2	GGAGAAAATGGTGAACG ATGTGATG	CCAAATTGTTAGAAGAAG ACCCACC	
CL1Contig603	TGCTAAACGACCGCAAC AAGCCAAT	TTTTCTCCGATCTCCACCG ACAACT	
CL6372Contig1	ACCTGCCCACTTTTCTTC GGTTTCC	CACGCCTTTTGCTTCCTTT CCTTCC	
CL11902Contig1	AGCAAGGAGTGGTGAA GGGATAAGC	GGAGTTGGAGAGGAAGAC AGTGGTA	
CL17341Contig1	AAGGGGTTGCTTGAAAC TGGGGGTC	TGGGGGGGAAAAAACTTG CACTTGT	F
CL1278Contig1	GACAGGCCAATTGAGCT TCCTTCTT	GCTTGGTTGATTTTATCTG GCTTGA	
CL1102Contig1	TTGTCTCTCCTCAAGTCT	TTCATTGGCGTATTGGATA	

	GCTGGTG	GGGATT	
CL451Contig3	CCCCTCTTCAGTTTGTTT CCCCTAT	ATCGTTCTTCTCCAGCCTC TCCATT	
DQ116441	GTCAACTCTCCACCTCG TCCTCCGT	CTGGGGGGATGCCTTCCTT GTCTT	
CL5659Contig1	GAAATAGTGGCGTGGGA GTTAGGAT	ACCATGAGAGACTGAGTT GTGTGAGG	F

Table S2 List of primers used for RT-PCR.

	Gene ID	Forward primer	Reverse primer
CHS-1	gi|164247134|gb|ES810196.1|ES810196	TGAGATGAGGAAGAAATCAAGGGAA	ACTCCTTTCTTATAGGGGCGGAAGT
CHS-4	CL1Contig1522	AAGGTGCTCGTGTACTTGTTGTGTG	CGTAGCTTCTCTGGCTTCAGTGCTA
CHS-5	CL14456Contig1	GTGTGCCTGAAGCAATGCATTACCT	GTCATTTGCCCCACAATGTGTCCTA
CHS-6	CL16532Contig1	AGGAGAACCTTCAGTTCCAGCGTAG	TTGTTAGAGAGCAGTATTGCAGCCC
PAL-2	CL2463Contig3	CAAAAGAGGGTTTGGCTATGGTTAA	CAATCAAGGGATTGTCGTTCACTGA
PAL-3	CL1Contig2677	TATGTCCTCCACATACTTGGTGGCG	GCATTCCGTGATCTTGTTTGGGATT
PAL-1	CL1Contig4241	CAATGGACAATGCTCGTTTGGCTAT	CACGGTGTTCTTCACTGTGCTCCTC
4CL-1	CL18193Contig1	CGTAAATACCTGGAGCATAGGGAGA	CGGAAAGTTGAATTCTATCAGAGGA
4CL-2	CL9434Contig1	CAGTGCTGCTTTACTCTTCGGGGAC	CACTCCTCCATCAACTCTTTTCCCA
4CL-3	CL4874Contig2	GAGAGGTTCCAGTTGCTTTCGTTGT	TGGTTTTTTTTTTCGAGTTTGTTCAC
4CL-4	CL932Contig2	ACGGCTGCCAATCCTTTTTTCACT	TTCAGGGCGTAAATATGGAACATGG
4CL-5	CL932Contig1	AATTGTTGATCCCGACACTGGTTCT	ATTATTTCAAACTTCCAGGGCAGGC
C4H-1	CL23Contig4	ATCCAGAGATCCAGCAGAAACTCCG	GACAGCTCCTCCTTCCAACACCAAA
C4H-2	CL23Contig5	GGGTTGTGTGGCTGTATTGTTGTGG	GGCTAAGTCTGTGAGGTTGCGGTGG
C4H-3	CL1Contig4168	TGGATGCTCAACAGAAGGGGGAA	GCAACTTCTTCTCCCCACGCCA
CCoAOMT-1	CL1Contig2504	TAGTGGCAAATGGCAACCAACAAAA	ATCTTCCCATCATCGGGGACAGC
CCoAOMT-2	gi|84151785|gb|DN801140.1|DN801140	GGGAACAAAGCTGGAGCTCCACCGC	CATGATAGCACCTCATTATTAAACA
CCR-1	CL546Contig1	GAGCAGCACATAATGTGGTAGAGGC	CGGAGAATAAGGTGTAAGCAAACGG
CCR-2	CL823Contig4	TTGGATGAAAGCAAAGGAGCTAAAA	TTTCAAGTTTTACAAGGCAAGCGTT
CAD-1	CL1278Contig1	GTAACCGTCATCAGCACTTCTCCGT	TTTCTTGCGTCTCTTTCATACCCCC
CAD-2	CL1102Contig1	CGCTATAACATGAACCAACCTGGCA	GGGAACCCAACGAGGGCATAAACAC

CAD-3	CL451Contig3	CGATGTTCGATACAGATT CGTCGTG	GTGGTTTTCCAAAAGGGG GAGATAT
ubiquitin	DQ116441	ACCAAAATCCAAGATAA GGAAGGCAT	ACGCAAACGAAGGACAA GGTGGAG

Fig. S1. The representative symptoms of diseased cotton seedlings in the field (A) and anatomy analysis of the diseased cotton stem (B).

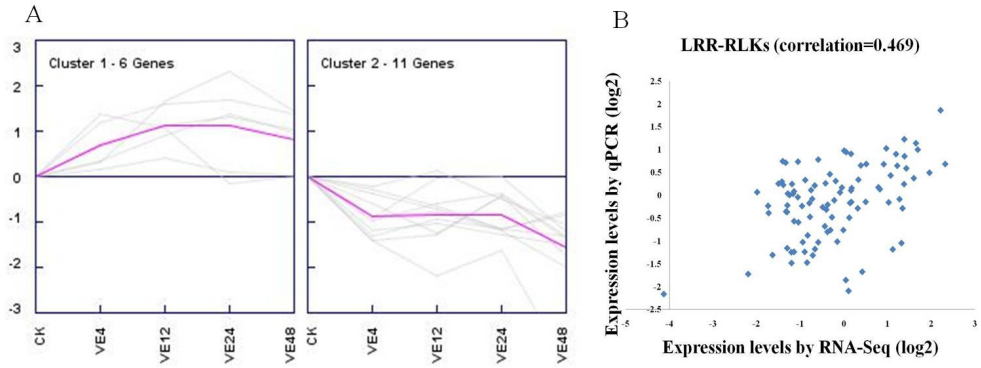

Fig. S2. Expression of LRR-RLKs identified by RNA-Seq (A) and validation by qPCR (B). CK refers to the mock control and VE4, VE12, VE24, and VE48 refer to 4, 12, 24, and 48 h after inoculation with *V. dahliae*.

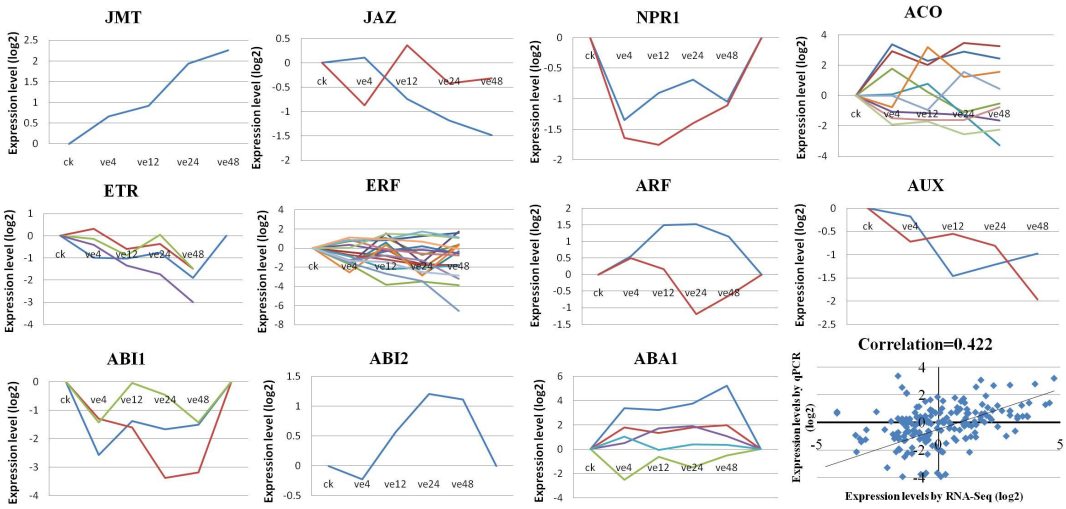

Fig. S3. Detailed expression patterns of defense-responsive genes identified in different phytohormone signaling pathways and data validation by qPCR. CK refers to the mock control and VE4, VE12, VE24, and VE48 refer to 4, 12, 24, and 48 h after *V. dahliae* inoculation. JAZ, jasmonate ZIM-domain; NPR1, non-expressor of pathogenesis-related protein 1; ACO, 1-aminocyclopropane-1-carboxylate oxidase; ETR, ethylene receptor; ERF, ethylene response factor; ARF, auxin response factor; ABA, ABA-deficient gene; ABI, ABA-insensitive gene.

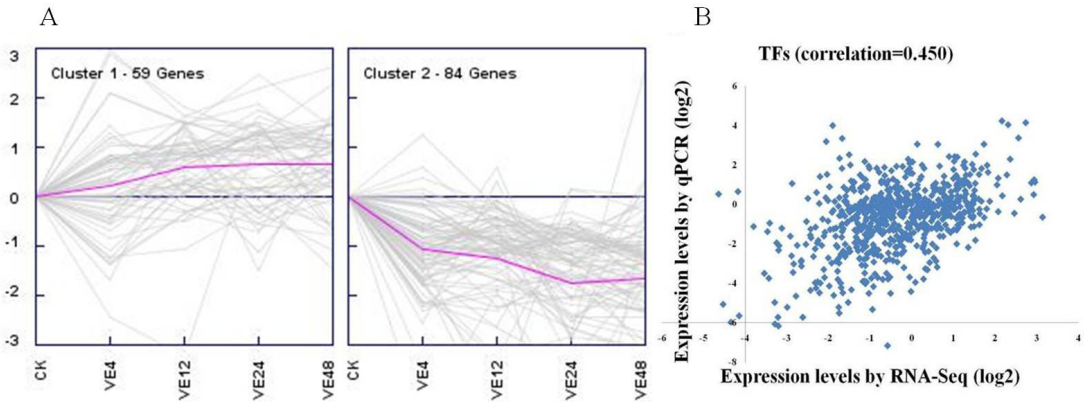

Fig. S4. Expression of TFs identified by RNA-Seq (A) and validation by qPCR (B). CK refers to the mock control and VE4, VE12, VE24, and VE48 refer to 4, 12, 24, and 48 h after inoculation with *V. dahliae*.

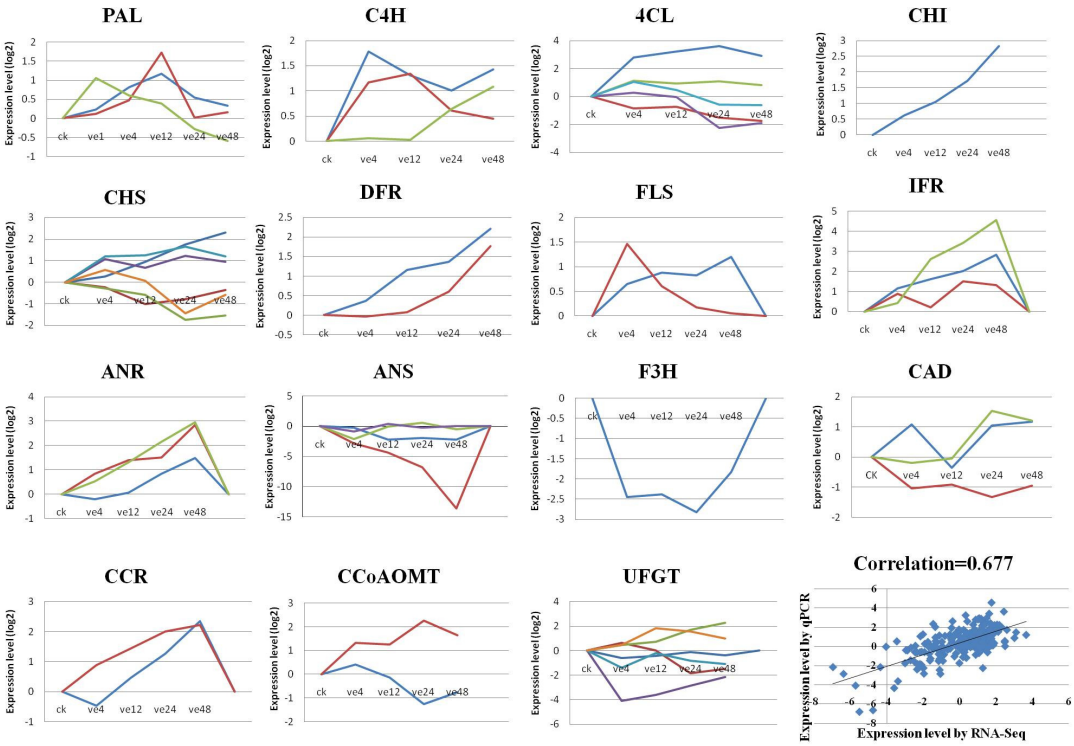

Fig. S5. Detailed expression patterns of defense-responsive genes identified in phenylpropanoid pathway and data validation by qPCR. CK refers to the mock control and VE4, VE12, VE24, and VE48 refer to 4, 12, 24, and 48 h after inoculation with *V. dahliae*. PAL, phenylalanine ammonia-lyase; C4H, cinnamate 4-hydroxylase; 4CL, 4-coumarate: CoA ligase; CHS, chalcone synthase; CHI, chalcone isomerase; IFR, isoflavone reductase; FS, flavone synthases; F3H, flavanone 3-hydroxylase; FLS, flavonol synthases; DFR, dihydroflavonol-4-reductase; ANS, anthocyanidin synthase; ANR, anthocyanidin reductase; UFGT, UDP-flavonoid glucosyltransferase; CCR, cinnamoyl CoA reductase; CCoAOMT, caffeoyl-CoA O-methyltransferase.

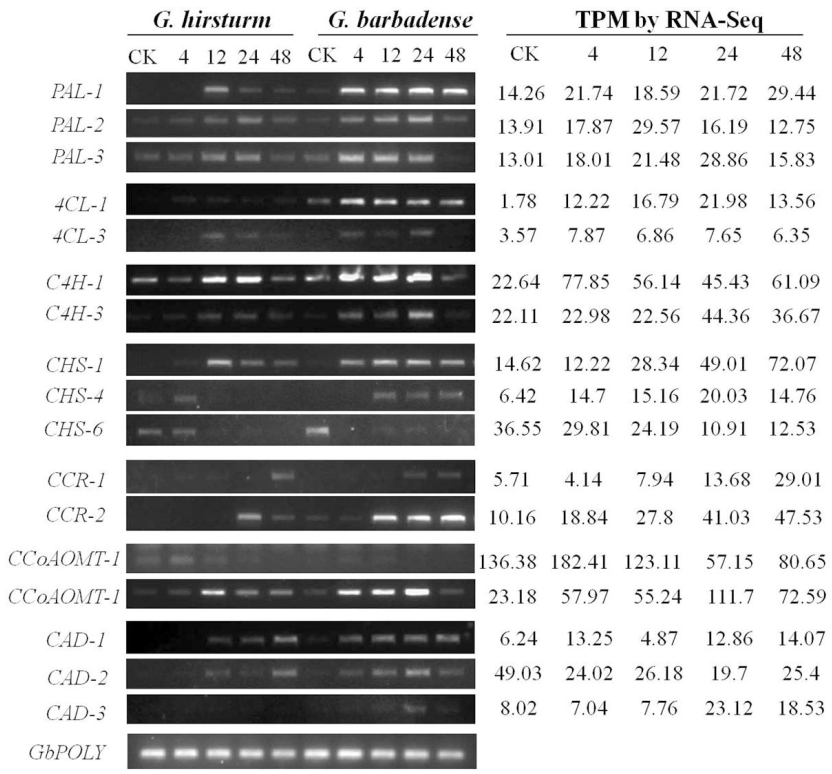

Fig. S6. Detailed expression profiles of genes in major lignin biosynthetic pathway. The absolute genes expression level were obtained by RT-PCR result and the original TPM of RNA-Seq. CK was referred to the mock control and 4, 12, 24, and 48 were referred to 4, 12, 24, and 48 h after *V. dahliae* inoculation. PAL, phenylalanine ammonia-lyase; 4CL, 4-coumarate: CoA ligase; C4H, cinnamate 4-hydroxylase; CHS, chalcone synthase; CCR, cynnamoyl CoA reductase; CCoAOMT, caffeoyl-CoA O-methyltransferase; CAD, cynnamyl alcohol dehydrogenase.