**Supplementary File 6. Predicted hybridization and specificity of *CrLFY* *in situ* hybridization probes.** Alignment (prepared using Clustal Omega) of full length *CrLFY1* and *CrLFY2* transcript sequences, with nucleotide identity between the two paralogs denoted by a subtending asterisk. The coding sequence (CDS) for each gene copy is highlighted in bold. Predicted sites of hybridization for the two probes are highlighted in blue (*CrLFY1*) and yellow (*CrLFY2*) respectively, with PCR primer sites underlined. The *in situ* probes span the complete CDS and 5’UTR of each gene copy. The *CrLFY1* probe sequence shows 79% nucleotide identity to the *CrLFY2* transcript (BLAST2n, discontiguous megablast for highly similar sequences). The *CrLFY2* probe shows 79% nucleotide identity to the *CrLFY1* transcript (BLAST2n, discontiguous megablast for highly similar sequences).

*CrLFY1* GTGCGAGGCATACACACACGCAGTCCTGGTGTGCCTTTCCTGTTCTAGTACTCATACAAA 60

*CrLFY2* ------------------------------------------------------------ 0

*CrLFY1* TACGACGTGCGCTTCCTTTTCTTCCTACCTTTGCTTTCAAATTGACGCATCTTCTGGTCT 120

*CrLFY2* --------------------------------------------------------AGCT 4

\*\*

*CrLFY1* TCACTGCTTGTGAAGCAGGTTGTCACAAAAAGTTCCTGCTGCTTAT----GTTTACTCCA 176

*CrLFY2* CGCGAGAAGCAAGGGCTGGTTGTTACGGATAGCGGGCACAATTTAGGGTTGCACGCAGCA 64

\* \*\* \*\*\*\*\*\* \*\* \* \*\* \* \*\*\* \* \* \*\*

*CrLFY1* GCGGTTCTTGTAATTGTGTCACCACAGCTGCTACCCGGAGTTACTCTGCAGTATCGACGC 236

*CrLFY2* GGTGATTCTGAATTTGTATCATCATCGTTGGAGTGCGGATTCACTGTGCAATAGTAGATT 124

\* \* \* \*\* \* \*\*\*\* \*\*\* \*\* \* \*\* \*\*\*\* \* \*\*\* \*\*\*\* \*\*

*CrLFY1* AATTCTCCTT--------CTACGTAGCAGAAGCAGTGCATGACCTTCGATATTGTTCGTT 288

*CrLFY2* CTCCCTCCTTTACAGGTTTCCTGGAACGACAACGGATCATAACCATCGGGTTCTTTCGGT 184

\*\*\*\*\*\* \* \* \* \* \* \* \*\*\* \*\*\* \*\*\* \* \*\*\*\* \*

*CrLFY1* TACACAGGTGAAGTTTGGCCTTCTCGGAAATTACAGACTATCTCCTCGTTCTCAAATGAA 348

*CrLFY2* T---------------------------------------------------------AA 187

\* \*\*

*CrLFY1* AAGCGGAGTTTTATCACT---TCACTGAAGTCGGGCATTGTCCGTGAAAGTCTCACCGAC 405

*CrLFY2* CGAAGGAATTTGGTCGGAAGCTCTGTATCAGACATCCTAGTCACTGTTCTCATCCCTCTT 247

\*\*\* \*\*\* \*\* \*\* \* \* \* \*\*\* \*\* \*\* \*

*CrLFY1* CGAAAGAAGTCGATCATTTCTTGTACTGCTCTCTATCACTTCAAGCTGGATCCTGAACAG 465

*CrLFY2* TGGTCTTCCTCCTCCACTAAAGGTGCTGCTATCAACCAGATCAAGCTGGATCCTGAGCAC 307

\* \*\* \*\* \* \*\* \*\*\*\*\* \*\* \* \*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*

*CrLFY1* TTTGCTAGTTCTTTGTTCCGGTGGGAACAAAGGGCTATCCCACGTAAAGAAGTGCCTCCA 525

*CrLFY2* TTTCCTGGTCCC**ATGTTCCGATGGGAACAAAGGGTAATACATCGTAAGGAGGTCCCCTCT** 367

\*\*\* \*\* \*\* \* \*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\* \*\* \* \*\*\*\*\* \*\* \*\* \*\* \*

*CrLFY1* **ATGGATGTCTCTTTATTGCCACCAACCACCACCA------------------------TC** 561

*CrLFY2* **ATGGAGGCTTCCATACTTCCTCCAACCACCACCACCACCACTGCTGCTACCTCTGTGACA** 427

\*\*\*\*\* \* \*\* \*\* \* \*\* \*\*\*\*\*\*\*\*\*\*\*\*\*

*CrLFY1* **GCTGGTACTGCAGATCCGAAACAACTGAAACTTCTTGAAGATCTCTTTAAAGACTATGGA** 621

*CrLFY2* **ACTGTTGGGACGTATCCAAAACAGCTTAAACTCCTTGAAGATCTCTTCAAGGACTATGGT** 487

\*\*\* \* \* \*\*\*\* \*\*\*\*\* \*\* \*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\* \*\*\*\*\*\*\*\*

*CrLFY1* **GTACGAAGCACCACAATAATTAAGGTCATGGAGATGGGTTTCACTGTGAATACTTTGGTG** 681

*CrLFY2* **GTACGGAGCACTACCATAGTGAAGGTTATGGAAATGGGTTTCACTGTTAGTACTCTAGTG** 547

\*\*\*\*\* \*\*\*\*\* \*\* \*\*\* \* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\* \* \*\*\*\* \* \*\*\*

*CrLFY1* **AATATGATGGAGCAAGAGATTGATGACCTAATCAAGACCATGACAGAAAGCTACCATATG** 741

*CrLFY2* **AACATGATGGAGCAAGAGATTGATGATGTTATCAAGACAATGATAGAGGGTTATCATATG** 607

\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \* \*\*\*\*\*\*\*\* \*\*\*\* \*\*\* \* \*\* \*\*\*\*\*\*

*CrLFY1* **GAGTTGTTGGTCGGAGAGAAGTATGGCTTGAAGTCCGCTATTCGTGCAGAGAAGAAGCGG** 801

*CrLFY2* **GAACTTCTGGTTGGTGAAAAATATGGTTTGAAATCTGCAGTCCGGGCTGAGAGAAAACGC** 667

\*\* \* \*\*\*\* \*\* \*\* \*\* \*\*\*\*\* \*\*\*\*\* \*\* \*\* \* \*\* \*\* \*\*\*\* \*\* \*\*

*CrLFY1* **CAAGAAGAGGATATGGAACGCCAACGATTACAACTGCTAGCAACAAGTAGCAAAAAACAT** 861

*CrLFY2* **CAAGAAGAGGAGATGGAACGTCAACGACTGCAGTTATTGGTAAAAAACAGCAAAAAGCTC** 727

\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* \*\*\*\*\*\* \* \*\* \* \* \* \*\* \*\* \*\*\*\*\*\*\*\* \*

*CrLFY1* **AAGTCAGATGAAAGCGGCATGGTTGTAACTTCACTTGAAGGCACAAGGGAACAAAGAGGA** 921

*CrLFY2* **AAGTCAGATGATAGTGGCATGATAGCAGTGTCTGTAGAAGGCACCAGGGAACAAAGAGGA** 787

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*CrLFY1* **GATAATGTTATGATGTTTCCAGAGGCTGTTGCACCCAATGCCCCCTTGAATTTGAACTCG** 981

*CrLFY2* **GACAATGGTATGATGTTTCCAGATACTGCTGCTCAGAATGGTCCCTTGAATCTGAACTCA** 847

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*CrLFY1* **AAAGATCATGTCCAACAAGAGCATAGCCATGCACAAATAGGGCCACCTGGACTCCTGGCT** 1041

*CrLFY2* **AAAGATCATGCTCAGCATGAGCATAGCCATGGCCTGTTTGGACCACCTGGACTCCTTGCT** 907

\*\*\*\*\*\*\*\*\*\* \*\* \*\* \*\*\*\*\*\*\*\*\*\*\*\*\* \* \* \*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*

*CrLFY1* **CTACCAGAACCAAGCAGTGACAATGAGGGTCACAAATTACCAAGAAAAAAGCCGAAACGG** 1101

*CrLFY2* **CTACCTGAACCTAGCAGTGACAATGAAGGACGCCAAATACCAAGGAAAAAGCAAAAACGA** 967

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*CrLFY1* **AGGCTGTTGCGAGAACCTGGTGAGGACGGTGATGACAGAACAAGAGAGCATCCATTCATT** 1161

*CrLFY2* **AGGTTATCGCGTGAGCCTGGTGAGGACGGGGATGACAGGACCAGAGAACACCCATTTATA** 1027

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*CrLFY1*  **GTGACAGAGCCAGGTGAAGTGGCAAGGGGAAAGAAGAATGGTTTAGACTACTTGTTTGAT** 1221

*CrLFY2* **GTGACAGAGCCTGGTGAAGTTGCAAGGGGAAAGAAAAATGGCTTAGATTATTTGTTTGAC** 1087

\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\* \*\*\*\*\*\*\*\*

*CrLFY1* **TTATACGAACAATGTGCACGCTTTTTAGATGAAGTGCAACAGATGGCCAGAGAAAGAGGG** 1281

*CrLFY2* **CTGTATGAGCAGTGTGCACGATTCTTAGATGAAGTACAACAGATGGCAAGGGAAAGGGGG** 1147

\* \*\* \*\* \*\* \*\*\*\*\*\*\*\* \*\* \*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\* \*\* \*\*\*\*\* \*\*\*

*CrLFY1* **GAGAAGTGTCCTACGAAGGTAACAAATCAAGTATTCCGGCATGCCAAGTTGAAAGGTGCG** 1341

*CrLFY2* **GAGAAATGTCCTACAAAGGTAACAAACCAAGTGTTTCGACATGCCAAGCTCAAAGGTGCA** 1207

\*\*\*\*\* \*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\* \*\* \*\* \*\*\*\*\*\*\*\*\* \* \*\*\*\*\*\*\*\*

*CrLFY1* **AGCTATATTAACAAGCCAAAGATGAGACACTATGTACACTGCTATGCACTGCATTGTCTG** 1401

*CrLFY2* **AGTTATATCAACAAACCAAAGATGAGGCACTATGTTCACTGCTATGCCCTACATTGTCTG** 1267

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*CrLFY1* **GACAAAGAGAAATCAAACTTTTTGAGAAAACAGTTCAAAGAGAGGGGAGAAAATGTGGGT** 1461

*CrLFY2* **GATAAAGATAAATCAAACTTCTTAAGGAAACAGTTTAAAGAAAGAGGAGAGAATGTGGGT** 1327

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*CrLFY1* **GCATGGCGACAAGCATGCTATTATCCATTGGTGGATATGGCTCGAGATAACGGCTGGGAT** 1521

*CrLFY2* **GCATGGAGACAAGCTTGCTACTTCCCTCTGGTTGACATGGCTAGAGACAATGGTTGGGAT** 1387

\*\*\*\*\*\* \*\*\*\*\*\*\* \*\*\*\*\* \* \*\* \*\*\*\* \*\* \*\*\*\*\*\* \*\*\*\* \*\* \*\* \*\*\*\*\*\*

*CrLFY1* **ATAGAGGGTGTCTTTGCGAGGAATGAGAAGCTCCGTATCTGGTATGTTCCTACAAGGCTT** 1581

*CrLFY2* **ATAGAAGGTGTCTTTGTCAGAAATGAGAAGCTTCGGATTTGGTATGTCCCAACCAAACTT** 1447

\*\*\*\*\* \*\*\*\*\*\*\*\*\*\* \*\* \*\*\*\*\*\*\*\*\*\*\* \*\* \*\* \*\*\*\*\*\*\*\* \*\* \*\* \* \*\*\*

*CrLFY1* **CGACAGCTCTGTCATTTAGAGAAGAGCAAGGACAGTGATAGCTGCATCTATGATTGA**AAT 1641

*CrLFY2* **CGCCAACTTTGTCATTTTGAAAAGAGCAAGGACAGTGACAGCTGCAGCTATGAATAA**GTA 1507

\*\* \*\* \*\* \*\*\*\*\*\*\*\* \*\* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\* \*\*\*\*\*\* \* \*

*CrLFY1* TGGCTTCATTACT-GCACTTTGTAATATGTGGATCAAGCACACGACTGCATCATGATATC 1700

*CrLFY2* CATACCTGAGGTGTTGTTTTTGTAATTTATCAATTCAATGCACG----TTTCACCACAGG 1563

\*\*\*\*\*\*\*\* \* \* \*\* \* \*\*\*\* \*\*\* \* \*

*CrLFY1* CCCGTATCATGATAATGCCTATGATGGTAGGAGCTATCTTTCT-TACTATGTAAATAACA 1759

*CrLFY2*  GATCTTTTGTGGTAATCCAATTGCCAGTAGTGGCTTTGTTTTAAAGCCATGTACATACTA 1623

\* \* \*\* \*\*\*\* \* \*\* \*\*\*\* \*\*\* \* \*\*\* \* \*\*\*\*\* \*\*\* \*

*CrLFY1* GTTGAACAGTCAAATGTTGAATGGCAATTCGTAAACGAATGTATAGGAT-GCATTTCGAG 1818

*CrLFY2* GTGAAGTGGGCTAATTGGTCGGAGCAAGCAATGAGAATGTTTATGGCATTGGCAGTCAAG 1683

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*CrLFY1* GTCCTTTTCTTGCTAATGATGGCATGATCA-AGGCAGAACTTCGTGTCCTTTGTAGGTTT 1877

*CrLFY2* GTGCCA---TTGCTAGCAAGGTTATAGCTTAAGTTAAATCTCGGTGTCCT-TGTTGATGA 1739

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*CrLFY1* GTTTATCTGGGAATTAGCAGAAACATTGAGAGGTTC--------ATATTTCCTAACCGAG 1929

*CrLFY2* CATTTTTTGCTTAGGAGTGCACCTGTTGGAATGTTGTTGGTGTCTCATTGCTAGCCAGAT 1799

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*CrLFY1* CAAATAGCAATCCTTAGTTTCTTACTGTGCATAAGTACATAATCTGATAGGTAGGATA-- 1987

*CrLFY2* TATAGCTTAAGTTAAATCTCGGTGTCCTCCCTGATGACATTTTTTGCTTAGGAGTGCACC 1859

\* \* \*\* \* \* \* \* \* \* \* \*\*\*\* \* \*\* \* \* \*\* \*

*CrLFY1* ---------TGAGATAACCTTACCTATGTGATAACCTGACTTTGGGTGT----------- 2027

*CrLFY2* TGTTGGAATGTTGTCTCATTTACCTTTGTATTCAGTTGCCTATAGGTTTTAGTTTCAAAG 1919

\* \*\*\*\*\*\* \*\*\* \* \* \*\* \*\* \* \*\*\* \*

*CrLFY1* ----ATGGAGAGTATGTGTATCATTTTCAAGTTTGTTTGAAA------------ 2065

*CrLFY2* CAGTGTGCAGGATGTATGAATGATCTCCGATTCTGTGATTCATAGTGGATCCAA 1973

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