Table S2. *matK* primers used to amplify the native and archaeophyte flowering plants and conifers of Wales.

 \* denotes primers designed for use in this study.

|  |  |  |  |
| --- | --- | --- | --- |
| **Primer** | **F/R** | **Sequence 5' - 3'** | **Reference** |
| matK2.1a | F | ATCCATCTGGAAATCTTAGTTC | [1] |
| matK2.1F | F | CCTATCCATCTGGAAATCTTAG | [1] |
| matK\_1R\_kim | F | ACCCAGTCCATCTGGAAATCTTGGTCC | K. J. Kim, unpub. |
| MatK\_390f | F | CGATCTATTCATTCAATATTTC | [2] |
| MatK\_Xf  | F | TAATTTACGATCAATTCATTC | [1] |
| F389 | F | GGAAATCCATTCTGGCTTCAAAAGG | \* |
| F461asterales | F | TAGATATACTAATACCTTACCCAGC | \* |
| F1010asterales | F | ATTCCCTTGACTTTCTGGGTTATCG | \* |
| F2brassicales | F | CATTTCCCTAAGATTAGGATCCTCT | \* |
| F2caryophyllales | F | TGCCCATCTAGAAATCTTGGTTCAA | \* |
| F428fabales | F | CTTATAAAAATTTGCGATCAATTCATTC | \* |
| F2lamiales | F | CCCCAATTTGCGATCAATTCATTCA | \* |
| F318poales | F | TTCTGAGTTTTATTCTCAGATT | \* |
| F875poales | F | TTATGGATCCTCTTATGCATTATGT | \* |
| F2ranunculales | F | AAAACCTCCGTTGTTGGATACAAGA | \* |
| F458rosales | F | CATTTAAATTATGCATCAGATGTACTA | \* |
| MatK-3FKIM-r | R | CGTACAGTACTTTTGTGTTTACGAG | K.J. Kim, unpub  |
| MatK\_1326r | R | TCTAGCACACGAAAGTCGAAGT | [2] |
| MatK\_5r | R | GTTCTAGCACAAGAAAGTCG | [1] |
| matK3.2 | R | CTTCCTCTGTAAAGAATTC | [1] |
| R692 | R | TACAAAATTGCGCTTTAGCCAATGATC | \* |
| R1498asterales | R | CATTATTGGCCAAATCATTGATACA | \* |
| R978asterales | R | CAGAAAGTCAAGGGAATGATTGGAT | \* |
| R2brassicales | R | CCAAATACCAAATTCGCACTCGATA | \* |
| R2caryophyllales | R | TGTGTTTACGAGCCAAAGTTCTAGC | \* |
| R1438fabales | R | CTCTTCTTCCTCTGTAAAGAATTCT | \* |
| R2lamiales | R | CAGTACTTTTGTGTTTCCGAGCCAA | \* |
| R1460poales | R | AGGGTTGTTTTGGTGAACATCAAAG | \* |
| R854poales | R | ATCGAACATAATGCATAAGAGGATC | \* |
| R1020ranunculales | R | ATGAAGCCTATCCGGCTGAGACCAA | \* |
| R2ranunculales | R | CCCCAGAAAGAACCTGTTCTTCCTC | \* |
| R1414rosales | R | TCTGTTCTTCTTCCGTAAAGAATTC | \* |

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2. Cuenoud P, Savolainen V, Chatrou LW, Powell M, Grayer RJ, et al. (2002) Molecular phylogenetics of Caryophyllales based on nuclear 18S rDNA and plastid *rbcL*, *atpB*, and *matK* DNA sequences. American Journal of Botany 89: 132-144.