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| **Supplemental data S2.** Reference vouchers and Genbank accession numbers for the amplified loci |
| **Species** | **Collection** | **matK** | **rpoC1** | **psbA** | **ITS** |
| *Acacia gummifera* Willd. | *Aparaicio, Rowe & Silvestre* s.n. |   | HE603096 | HE602486 | HE602459 |
| *Acacia tortilis* subsp. *raddiana* (Savi) Brenan | *S.L. Jury* 19064 |   | HE603088 | HE602480 |
| *Ammoides pusilla* Breistr. | *M. Ait Lafkih & al*. 245 |   | HE603090 | HE602482 | HE602454 |
| *Anacyclus clavatus* (Desf.) Pers. | *J.M. Montserrat.*2043/94 |   | EU531594 | HE602384 |
| *Anacyclus homogamus* (Maire) Humphries | *S.L. Jury & R. Shkw*a 20904 |   | EU531595 | EU531693 | HE602385 |
| *Anacyclus pyrethrum* L. | *S.L. Jury* 17869 |   | EU531592 | EU531691 | HE602382 |
| *Anacyclus radiatus* Loisel. | *S.L. Jury* 18550 |   | EU531593 | EU531692 | HE602383 |
| *Anethum foeniculoides* Maire & Wilczek | *S.L. Jury & T.M. Upson* 20571 |   | HE603091 | HE602483 | HE602455 |
| *Aristolochia baetica* L. | *J.M. Montserrat & B. Valdés* 2002 | EU531669 | EU531588 | HE659552 |
| *Aristolochia fontanesii* Boiss. & Reut. | *Davis* 51947 | EU531668 | EU531587 | HE659551 |
| *Aristolochia paucinervis* Pomel | *M. Ait Lafkih & al.* 242 | EU531670 | EU531589 | HE659553 |
| *Aristolochia pistolochia* L. | *S.L. Jury* 16506 | EU531671 | EU531590 | HE659554 |
| *Armeria atlantica* Pomel | *S.L. Jury* 18964 |   | HE659534 | EU531718 | HE602421 |
| *Armeria choulettiana* Pomel | *S.L. Jury & R. Shkwa* 20912 |   | HE659535 | HE659572 | HE602422 |
| *Armeria simplex* Pomel | *E. Bayón, C. Oberprieler, R. Vogt* s.n. |   |   |   | HE602461 |
| *Arundo donax* L. | *S.L. Jury* 17806 |   |   | EU531719 | HE602423 |
| *Arundo plinii* Turra | *Husain* 158 |   |   | EU531720 | HE602424 |
| *Asparagus acutifolius* L. | *OPTIMA ITER V.* 1250 |   |   | HE659566 |
| *Asparagus albus* L. | *S.L. Jury* 12557 |   | HE659530 | EU531712 |
| *Asparagus altissimus* Munby | *S.L. Jury & T.M. Upson* 20506 | EU531679 | EU531623 | HE602411 |
| *Asparagus aphyllus* L. | *OPTIMA ITER V* 14 |   | HE659529 | HE659565 | HE602412 |
| *Asphodelus macrocarpus* ssp. *rubescens* Z. Díaz & Valdés | *M.A. Mateos & J.M. Montserrat* 5869/2 |   |   |   |   |
| *Astragalus armatus* Willd. | *A. Romo*  R-8883/5 |   | EU531616 | HE659563 | HE602405 |
| *Bryonia dioica* Jacq. | *S.L. Jury & T.M. Upson* 20437 |   | HE659527 | EU531705 | HE602401 |
| *Bunium alpinum* ssp. *atlanticum* Maire | *OPTIMA ITER V* 1064 |   | HE603083 | HE602474 | HE602447 |
| *Bunium bulbocastanum* L. | *J.M. Montserrat & B. Valdés* s.n. |   | HE603101 | HE602489 | HE602464 |
| *Bunium incrassatum* (Boiss.) Amo | *Davis* 52337 |   | HE603100 | HE602488 | HE602463 |
| *Bunium pachypodum* P.W. Ball | *M.A. Mateos & J.M. Montserrat* 5835/3 |   | HE603099 | HE602487 | HE602462 |
| *Carlina brachylepis* (Batt.) Meusel & Kästner | *A.J.K. Griffiths* 18069 | EU531677 | EU531608 | EU531703 | HE602398 |
| *Carlina gummifera* (L.) Less. | *S.L. Jury* 12348 |   | EU531591 | HE659555 | HE602381 |
| *Carlina involucrata* Poir. | *P. Kennedy* s.n. |   | HE603097 |   |
| *Carlina lanata* L. | *S.L. Jury* 15064 |   | HE603081 | HE602472 | HE602446 |
| *Carlina macrophylla* (Desf.) DC. | *S.L. Jury* 11909 | EU531678 | EU531609 | EU531704 | HE602399 |
| *Carthamus pinnatus* Desf. | *A. Kool* 1018 (UPS) |   | HE603107 | HE602494 | HE602470 |
| *Catananche arenaria* L. | *S.L. Jury & T.M. Upson* 20689 | EU531674 | EU531598 | EU531695 | HE602388 |
| *Catananche caerulea* L. | *S.L. Jury* 11396 | EU531675 | HE659524 | EU531696 | HE602389 |
| *Catananche caespitosa* Desf. | *S.L. Jury* 18111 | EU531672 | EU531596 | HE659556 | HE602386 |
| *Catananche lutea* L. | *R. Vogt* 12348 | EU531673 | EU531597 | EU531694 | HE602387 |
| *Catananche montana* Coss. & Durieu | *M.A. Mateos* 7039/95 | EU531676 | HE659525 | HE659557 |
| *Ceratolimon feei* (Girard) M.B.Crespo & Lledó | *S.L. Jury* 19168 | EU531681 | EU531637 | EU531717 |
| *Corrigiola litoralis* subsp. *litoralis* L. | *Källsten* s.n. (UPS) |   | EU531661 |   |
| *Corrigiola litoralis* subsp. *litoralis* L. | *S.L. Jury* 18530 |   | HE603087 | HE602479 | HE602452 |
| *Corrigiola litoralis* subsp. *telephiifolia* Pourr. | *S.L. Jury* 19483 |   | HE603089 | HE602481 | HE602453 |
| *Cynara baetica* (Spreng.) Pau | *S.L. Jury* 11233 |   | EU531601 | EU531698 | HE602391 |
| *Cynara humilis* L. | *S.L. Jury* 19316 |   | EU531602 | EU531699 | HE602392 |
| *Cynodon dactylon* (L.) Pers. | *M.A. Mateos, A. Ortega & F.J. Pina* 7291 |   | HE659536 | EU531721 | HE602425 |
| *Cyperus longus* L. | *S.L. Jury* 11493 |   | EU531611 |   |
| *Cyperus rotundus* L. | *S.L. Jury* 12712 |   | EU531612 |   |
| *Daucus aureus* Desf. | *Reading Univ./B. M. Exped.* 1076 |   | EU531584 | EU531688 | HE602378 |
| *Daucus carota* L. | *Jury, S.L.* 17848 |   | EU531582 | EU531686 | HE602376 |
| *Daucus crinitus* Desf. | *M. Ait Lafkih & al.* 70 |   | EU531580 | EU531684 | HE602443 |
| *Daucus durieua* Lange | *M.J. Díez* 3482/94 |   | EU531583 | EU531687 | HE602377 |
| *Daucus muricatus* (L.) L. | *S.L. Jury* 16748 |   | EU531585 | EU531689 | HE602379 |
| *Daucus setifolius* Desf. | *S.L. Jury* 17514 |   | EU531581 | EU531685 | HE602375 |
| *Dioscorea communis* (L.) Caddick & Willkin.  | *C. Harrouni, S.L. Jury & T.M. Upson* 20616 |   | HE603093 |   |
| *Drimia fugax* (Moris) Stearn |  |   | EU531659 |   |
| *Drimia maritima* (L.) Stearn | *S.L. Jury* 12554 |   | EU531628 |   |
| *Drimia maura* (Maire) J.C.Manning & Goldblatt | *S.L. Jury* 9030 |   | EU531630 | HE659568 | HE602414 |
| *Drimia undata* Stearn | *S.L. Jury* 13275 |   | EU531629 | HE659567 | HE602413 |
| *Echinops fontqueri* Pau | *J. Lambinon & G. van den Sande* 94/Ma/454 |   | HE603098 |   |
| *Echinops spinosissimus* Turra | *S.L. Jury* 18328 |   | EU531606 | HE659559 | HE602460 |
| *Elaeoselinum meoides* W.D.J.Koch ex DC. | *S.L. Jury & T.M. Upson* 20572 |   | HE603092 | HE602484 | HE602456 |
| *Elymus repens* (L.) Gould | *S.L. Jury* 17625 |   |   | EU531722 | HE602426 |
| *Erophaca baetica* subsp. *baetica* (L.) Boiss. | *S.L. Jury & R. Shkwa* 20966 |   | EU531615 | HE602404 |
| *Eryngium campestre* L. | *S.L. Jury* 17523 |   | HE603086 | HE602478 | HE602451 |
| *Eryngium ilicifolium* Lam. | *M.A. Mateos & B. Valdés* 641/93 |   | HE603103 | HE602466 |
| *Eryngium tricuspidatum* L. | *S.L. Jury & R. Shkwa* 20881 |   | HE603094 | HE602485 | HE602457 |
| *Eryngium triquetum* Vahl | *J.A. Mejías & S. Silvestre* 308 |   | HE603095 | HE602458 |
| *Ferula communis* L. | *S.L. Jury* 16346 |   | HE603085 | HE602477 | HE602450 |
| *Foeniculum vulgare* Miller | *S.L. Jury* 17822 | EU531667 | EU531579 | HE659550 | HE602374 |
| *Fraxinus angustifolia* Vahl | *S.L. Jury* 15547 |   | EU531631 | HE659569 | HE602415 |
| *Glycyrrhiza foetida* L. | *S.L. Jury* 14940 |   | EU531614 | EU531706 | HE602403 |
| *Glycyrrhiza glabra* L. | *J. Pedrol* 4493 |   | EU531613 | HE659562 | HE602402 |
| *Haplophyllum broussonetianum* Coss. | *S.L. Jury* 14466 |   | EU531658 | HE659547 | HE602442 |
| *Inula montana* L. | *R.K. Brummitt* 18721 |   | EU531607 | HE659560 | HE602397 |
| *Juglans regia* L. | *M.A. Mateos,* 7147/95 |   | EU531621 | HE659564 | HE602409 |
| *Juncus fontanesii* Gay | *S.L. Jury* 18967 |   | EU531622 | HE602410 |
| *Kundmannia sicula* (L.) DC. | *J.M. Montserrat 3604/5* |   | HE603102 | HE602490 | HE602465 |
| *Launaea arborescens* (Batt.) Murb. | *S.L. Jury* 12745 |   | EU531600 | HE659558 |
| *Limoniastrum* *guyonianum* Durieu ex Boiss. | *J. Lambinon 99/Tu/114* |   | HE659532 | HE659570 | HE602418 |
| *Limoniastrum monopetalum* (L.)Boiss. | *M.A. Mateos* 4825/95 |   | HE659533 | HE659571 | HE602419 |
| *Magydaris panacifolia* Lange | *H.J.M. Bowen* 8412 |   | HE603084 | HE602475 | HE602448 |
| *Mandragora officinarum* L. | *S.L. Jury* 12238 |   |   | HE659544 |
| *Nerium oleander* L. | *M.A. Mateos* 7113 |   | EU531586 | EU531690 | HE602380 |
| *Ononis natrix* L. | *S.L. Jury & T.M. Upson* 20696 |   | EU531617 | EU531707 | HE602406 |
| *Ornithogalum narbonense* L. | *S.L. Jury* 19343 |   |   |   |   |
| *Peganum harmala* L. | *OPTIMA ITER V* 124 |   | EU531656 |   |
| *Pinus halepensis* Mill. | *A.J. Carus, M.A. Mateos & F.J. Pina* 5266 |   | HE659531 | EU531714 |
| *Pinus nigra* W.Arnold | *S.L. Jury* 12487 |   |   | EU531715 | HE602416 |
| *Plumbago europaea* L. | *OPTIMA ITER V* 1026 | EU531680 | EU531635 | EU531716 | HE602417 |
| *Populus alba* L. | *Ait Lafkih, M.* 713 |   | EU531647 | HE659540 | HE602432 |
| *Populus euphratica* Olver | *S.L. Jury* 17803 |   | EU531648 | HE602434 |
| *Populus nigra* L. | *S.L. Jury* 18124 |   | EU531662 | HE602433 |
| *Pulicaria mauritanica* Coss. | *S.L. Jury & T.M. Upson* 20667 |   | EU531604 | EU531702 | HE602395 |
| *Pulicaria odora* (L.) Rchb. | *M. Ait Lafkih & al.* 110 |   | HE659526 | EU531700 | HE602393 |
| *Pulicaria paludosa* Link | *S.L. Jury* 17773 |   | EU531603 | EU531701 | HE602394 |
| *Pulicaria undulata* (L.) C.A.Mey. | *S.L. Jury* 19074 |   | EU531605 | HE602396 |
| *Quercus rotundifolia* Lam. | *A. Achhal, F. Bombardó & Romo* 6761/4 |   |   |   | HE602467 |
| *Retama monosperma* (L.) Boiss. | *S.L. Jury & T.M. Upson* 20671 |   | EU531618 | EU531708 | HE602407 |
| *Retama raetam* (Forssk.) Webb & Berth. | *S.L.Jury* 15876 |   | EU531619 | EU531709 |
| *Rhaponticum acaule* DC. | *S.L. Jury* 15826 |   |   | HE602476 | HE602449 |
| *Rubia peregrina* L.  | *S.L. Jury* 14983 |   | EU531644 | HE602427 |
| *Rubia tinctorum* L. | *S.L. Jury* 19809 | EU531682 | EU531723 | HE602444 |
| *Ruta angustifolia* Pers. | *S.L. Jury* 17639 |   | HE659538 | HE659575 | HE602430 |
| *Ruta angustifolia* Pers. | *S.L. Jury & R. Shkwa* 20963 |   | EU531646 | HE659539 | HE602431 |
| *Ruta chalepensis* L. | *Davis* 49757 |   | EU531645 | HE659574 | HE602429 |
| *Ruta montana* | *S.L. Jury* 17505 |   | HE659537 | HE659573 | HE602428 |
| *Saponaria glutinosa* M.Bieb. | *S.L. Jury* 17900 |   | EU531610 | HE659561 | HE602400 |
| *Scolymus hispanicus* L. | *S.L. Jury* 11671 |   | HE603080 | HE602471 | HE602445 |
| *Scorzonera caespitosa* Pomel. | *M. Ait Lafkih & al*. 26 |   | EU531599 | EU531697 | HE602390 |
| *Sesamum indicum* L. | *R.M. Nesbitt* 1939 |   | EU531633 | EU531713 |
| *Silene filipetala* Litard. & Maire | *Reading Univ./BM. Exped.* 547 |   | HE603106 | HE602493 | HE602469 |
| *Silene portensis* L. | *M.A. Mateos & J.M. Montserra*t 5651/4 |   | HE603105 | HE602492 |
| *Silene vulgaris* L. | *M.A. Mateos, E. Ramos & J. Villarreal* 5726/95 | HE603104 | HE602491 | HE602468 |
| *Smilax aspera* L. | *S.L. Jury* 15315 |   | EU531650 | HE659543 |
| *Tamarix africana* Poir. | *S.L. Jury* 16673 |   | EU531652 | HE602438 |
| *Tamarix amplexicaulis* Ehrenb. | *S.L. Jury* 19081 |   | EU531655 | EU531725 | HE602440 |
| *Tamarix aphylla* | *S.L. Jury* 19079 |   | HE659523 | HE659545 | HE602437 |
| *Tamarix canariensis* Willd. | *OPTIMA ITER V* 1765 |   | EU531654 | EU531724 |
| *Tamarix gallica* L. | *M.A. Mateos* 4301/94 |   | EU531653 | HE659546 | HE602439 |
| *Tetraena fontanesii* (Webb & Berthel.) Beier & Thulin  | *S.L Jury & T.M Upson* 20493 |   | EU531657 | HE602441 |
| *Thapsia garganica* L. | *P. Kennedy* s.n. |   | HE603079 |   |
| *Thapsia platycarpa* Pomel | *S.L. Jury* 15837 | EU531666 | EU531578 | HE659549 | HE602373 |
| *Thapsia transtagana* Brot. | *S.L. Jury* 16325 | EU531665 | EU531577 | HE659548 | HE602372 |
| *Thapsia villosa* L. | *J. Lambinon* 94/Ma/350 | EU531664 | EU531576 | EU531683 | HE602371 |
| *Trigonella foenum-graecum* L. | *S.L. Jury* 13715 |   | EU531620 | EU531710 |
| *Trigonella gladiata* M.Bieb. | *OPTIMA ITER V* 459 |   | HE659528 | EU531711 | HE602408 |
| *Verbascum dentifolium* Delile | *M. Ait Lafkih & al.* 104 |   | EU531649 | HE659542 | HE602436 |
| *Verbascum sinuatum* L. | *OPTIMA ITER V.* 1796 |   | HE659522 | HE659541 | HE602435 |
| *Withania frutescens* (L.) Pauquy | *A. Kool* 50 (UPS) |   | EU531660 |   |
| *Ziziphus lotus* Lam. | *S.L. Jury* 15149 |   | HE603082 | HE602473 |
| Unless indicated, all material is stored at RNG. Herbarium abbreviations are according to Holmgren et al, 1990. |