

Supplementary Material

Tab. S1 - Accession numbers of sequences used in this study. Newly generated sequences are underlined. Only the sequences included in the alignments were considered in the grouping into haplotypes. The reference for each sequence was obtained from GenBank and updated with already published articles when possible.

haplotype	Species	Accession	Reference
<i>matK</i>			
halepensis	<i>P. halepensis</i>	AB081089	Geda Lopez G, Kamiya K and Harada K. Phylogeny of the North American Pines
	<i>P. halepensis</i>	JN854197	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
	<i>P. halepensis</i>	<u>MH981953</u>	This study
	<i>P. halepensis</i>	<u>MH981954</u>	This study
	<i>P. halepensis</i>	<u>MH981955</u>	This study
	<i>P. halepensis</i>	<u>MH981956</u>	This study
	<i>P. halepensis</i>	<u>MH981957</u>	This study
	<i>P. halepensis</i>	<u>MH981958</u>	This study
	<i>P. halepensis</i>	<u>MH981959</u>	This study
	<i>P. halepensis</i>	<u>MH981960</u>	This study
	<i>P. halepensis</i>	<u>MH981961</u>	This study
	<i>P. halepensis</i>	<u>MH981962</u>	This study
	<i>P. halepensis</i>	<u>MH981963</u>	This study
	<i>P. halepensis</i>	<u>MH981964</u>	This study
densiflora-sylvestris	<i>P. densiflora</i>	HQ849853	Ren G and Liu J. DNA barcoding in closely related <i>Pinus</i> species in China
	<i>P. densiflora</i>	JF955495	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JF955496	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JF955497	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646

haplotype	Species	Accession	Reference
	<i>P. densiflora</i>	JF955498	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JF955499	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. sylvestris</i> var. <i>mongolica</i>	JF955485	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
densiflora-mugo-uncinata-sylvestris-nigra-resinosa	<i>P. densiflora</i>	AB084497	Geada Lopez G, Kamiya K and Harada K. Phylogeny of <i>Diploxyylon Pinus</i>
	<i>P. densiflora</i>	DQ353715	Gernandt DS. Absolute age estimates for <i>Pinus</i> and Pinaceae
	<i>P. densiflora</i>	JN854210	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus L.</i> (Pinaceae). BMC Evol Biol: 12(1): 100
	<i>P. densiflora</i>	JQ512450	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	JQ512451	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	JQ512452	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	JQ512453	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	KP089192	Dong W, Xu C, Li C, Sun J, Zuo Y, Shi S, Cheng T, Guo J and Zhou S (2015) <i>ycfl</i> , the most promising plastid DNA barcode of land plants. Sci Rep 5: 8348
	<i>P. densiflora</i>	MF990371	Kim S-C, Lee J-W, Baek S-H, Ahn J-Y and Hong K-N (2018) Identification of DNA molecular markers by comparison of <i>Pinus densiflora</i> and <i>Pinus sylvestris</i> chloroplast genomes. PeerJ Preprints 6:e26506v1
	<i>P. densiflora</i>	MK285358	Shim D, Kang H-I, Lee HO, Park TS, Kim IS and Lee SW (2019) Complete chloroplast genome of (<i>Pinus densiflora</i>) Siebold & Zucc. And comparative analysis with five pine trees. Forests 10(7): 600
	<i>P. densiflora</i>	NC_042394	Shim D, Kang H-I, Lee HO, Park TS, Kim IS and Lee SW. Complete Chloroplast Genome of Korean Red Pine (<i>Pinus densiflora</i>) using Oxford Nanopore Technology and Illumina MiSeq
	<i>P. mugo</i>	AB063504	Geada López G, Kamiya K, Harada, K (2002) Phylogenetic relationships of <i>Diploxyylon</i> pines (Subgenus <i>Pinus</i>) based on plastid sequence data. Int J Plant Sci 163(5) : 737-747
	<i>P. mugo</i>	AB081087	Geada Lopez G, Kamiya K and Harada K. Phylogeny of the North American Pines

haplotype	Species	Accession	Reference
	<i>P. mugo</i>	JN854181	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). <i>BMC Evol Biol</i> : 12(1): 100
	<i>P. mugo</i>	MF193353	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. <i>C R Biol</i> 340(6-7): 339-348
	<i>P. mugo</i>	MF193354	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. <i>C R Biol</i> 340(6-7): 339-348
	<i>P. mugo</i>	MF193355	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. <i>C R Biol</i> 340(6-7): 339-348
	<i>P. mugo</i>	MF193359	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. <i>C R Biol</i> 340(6-7): 339-348
	<i>P. mugo</i>	MF193360	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. <i>C R Biol</i> 340(6-7): 339-348
	<i>P. mugo</i>	MF193361	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. <i>C R Biol</i> 340(6-7): 339-348
	<i>P. mugo</i> var. <i>rotundata</i>	KX833097	Celiński K, Kijak H, Barylski J, Grabsztunowicz M, Wojnicka-Półtorak A and Chudzińska E (2017) Characterization of the complete chloroplast genome of <i>Pinus uliginosa</i> (Neumann) from the <i>Pinus mugo</i> complex. <i>Cons Gen Resour</i> 9: 209-212
	<i>P. uncinata</i>	<u>MK046739</u>	This study
	<i>P. uncinata</i>	<u>MK046740</u>	This study
	<i>P. uncinata</i>	<u>MK046741</u>	This study
	<i>P. sylvestris</i>	AB019846	Wang XR, Tsumura Y, Yoshimaru H, Nagasaka K and Szmidt AE (1999) Phylogenetic relationships of Eurasian pines (<i>Pinus</i> , Pinaceae) based on chloroplast rbcL, MATK, RPL20-RPS18 spacer, and TRNV intron sequences. <i>Am J Bot</i> 86 (12): 1742-1753
	<i>P. sylvestris</i>	AB084492	Geada Lopez G, Kamiya K and Harada K. Phylogeny of <i>Diploxyylon Pinus</i>

haplotype	Species	Accession	Reference
	<i>P. sylvestris</i>	KR476379	Wu Z, Arvestad L and Thompson SL. Five gymnosperm plastomes reveal rampant rearrangements in Cupressophytes and the retention of <i>ndh</i> pseudogenes in <i>Abies sibirica</i> and <i>Pinus sylvestris</i>
	<i>P. sylvestris</i>	MK036238	This study
	<i>P. sylvestris</i>	MK036239	This study
	<i>P. sylvestris</i>	MK036241	This study
	<i>P. sylvestris</i>	MK036242	This study
	<i>P. sylvestris</i>	MK036243	This study
	<i>P. sylvestris</i>	MK036244	This study
	<i>P. sylvestris</i>	MT787466	Leerhoei F. DNAmark Project
	<i>P. sylvestris</i>	KP089957	Dong W, Xu C, Li C, Sun J, Zuo Y, Shi S, Cheng T, Guo J and Zhou S (2015) <i>ycf1</i> , the most promising plastid DNA barcode of land plants. <i>Sci Rep</i> 5: 8348
	<i>P. sylvestris</i>	KX229946	Dyer RJ, Tosh J and Hopkins D. Is DNA barcoding child's play? Science education and the utility of DNA barcoding for the discrimination of UK tree species
	<i>P. nigra</i>	AB019854	Wang XR, Tsumura Y, Yoshimaru H, Nagasaka K and Szmidt AE (1999) Phylogenetic relationships of Eurasian pines (<i>Pinus</i> , Pinaceae) based on chloroplast <i>rbcL</i> , <i>MATK</i> , <i>RPL20-RPS18</i> spacer, and <i>TRNV</i> intron sequences. <i>Am J Bot</i> 86 (12): 1742-1753
	<i>P. nigra</i>	AB084498	Geada Lopez G, Kamiya K and Harada K. Phylogeny of <i>Diploxyylon</i> <i>Pinus</i>
	<i>P. nigra</i>	DQ353717	Gernandt DS. Absolute age estimates for <i>Pinus</i> and Pinaceae
	<i>P. nigra</i>	JQ512469	Shi HW and Kim KJ. Unpublished
	<i>P. nigra</i>	MK028114	This study
	<i>P. nigra</i>	MK028115	This study
	<i>P. nigra</i>	MK028116	This study
	<i>P. nigra</i>	MK028117	This study
	<i>P. nigra</i>	MK028118	This study
	<i>P. nigra</i>	MK028119	This study
	<i>P. nigra</i>	MK028120	This study
	<i>P. nigra</i>	MK028121	This study
	<i>P. nigra</i>	MK028122	This study
	<i>P. nigra</i>	MK028123	This study
	<i>P. nigra</i>	MK028124	This study
	<i>P. nigra</i>	MK028125	This study
	<i>P. nigra</i>	MK028126	This study
	<i>P. nigra</i>	MK028127	This study
	<i>P. nigra</i>	MK028128	This study
	<i>P. resinosa</i>	AB063516	Geada López G, Kamiya K, Harada, K (2002) Phylogenetic relationships of <i>Diploxyylon</i> pines (Subgenus <i>Pinus</i>) based on plastid sequence data. <i>Int J Plant Sci</i> 163(5) : 737-747
	<i>P. resinosa</i>	AB080945	Geada Lopez G, Kamiya K and Harada K. Phylogeny of the North American Pines

haplotype	Species	Accession	Reference
	<i>P. nigra</i>	KP089195	Dong W, Xu C, Li C, Sun J, Zuo Y, Shi S, Cheng T, Guo J and Zhou S (2015). <i>ycf1</i> , the most promising plastid DNA barcode of land plants. <i>Sci Rep</i> 5: 8348
	<i>P. nigra</i>	MT247330	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247331	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247332	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247333	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247334	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247335	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247336	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247337	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247338	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247339	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247340	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247341	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247342	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247343	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89
	<i>P. nigra</i>	MT247344	Monnet AC, Cilleros K, Leriche A, et al (2021). WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 89

haplotype	Species	Accession	Reference
nigra_1	<i>P. nigra</i>	JN854179	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
resinosa_1	<i>P. resinosa</i>	AY497288	Gernandt DS, Geda LopezG, Ortiz Garcia S and Liston A (2005). Phylogeny and classification of <i>Pinus</i> . Taxon 54: 29-42
	<i>P. resinosa</i>	FJ899556	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
	<i>P. resinosa</i>	KP210411	Elliott TL and Davies JT (2014) Challenges to barcoding an entire flora. Mol Ecol Resour 14(5): 883-891
sylvestris_1	<i>P. sylvestris</i>	JN854158	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
sylvestris_2	<i>P. sylvestris</i>	MK036240	This study
uncinata_1	<i>P. uncinata</i>	AB097778	Geda Lopez G, Kamiya K and Harada K. Evolutionary Relationships in Pines

psbA-trnH

Halepensis_1	<i>P. halepensis</i>	EU531714	Kruger AE, de Boer H and Kool A. DNA-Barcoding identification of medicinal roots from Morocco
	<i>P. halepensis</i>	FR832529	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. Eur J Forest Res 131: 1337–1353
	<i>P. halepensis</i>	LR590634	This study
	<i>P. halepensis</i>	LR590635	This study
	<i>P. halepensis</i>	LR590636	This study
	<i>P. halepensis</i>	LR590637	This study
	<i>P. halepensis</i>	LR590638	This study
	<i>P. halepensis</i>	LR590639	This study
	<i>P. halepensis</i>	LR590640	This study
	<i>P. halepensis</i>	LR590641	This study
	<i>P. halepensis</i>	LR590642	This study
	<i>P. halepensis</i>	LR590643	This study
	<i>P. halepensis</i>	LR590644	This study
	<i>P. halepensis</i>	LR590645	This study
	<i>P. halepensis</i>	MT311780	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 89
	<i>P. halepensis</i>	MT311781	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 90

haplotype	Species	Accession	Reference
	<i>P. halepensis</i>	MT311782	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 91
	<i>P. halepensis</i>	MT311783	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. halepensis</i>	MT311784	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 93
	<i>P. halepensis</i>	MT311785	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 94
	<i>P. halepensis</i>	MT311786	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 95
	<i>P. halepensis</i>	MT311787	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 96
	<i>P. halepensis</i>	MT311788	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 97
	<i>P. halepensis</i>	MT311789	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 98
	<i>P. halepensis</i>	MT311790	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 99
halepensis_2	<i>P. halepensis</i>	JN854197	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
halepensis_3	<i>P. halepensis</i>	FN689388	Piredda R, Attimonelli M, Bellarosa R, Schirone B and Simeone MC (2010) Prospects of barcoding the Italian wild dendroflora: lights and shadows
densiflora_1	<i>P. densiflora</i>	JQ512332	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	MK285358	Shim D, Kang H-I, Lee HO, Park TS, Kim IS and Lee SW (2019) Complete chloroplast genome of (<i>Pinus densiflora</i>) Siebold & Zucc. And comparative analysis with five pine trees. Forests 10(7): 600
	<i>P. densiflora</i>	NC_042394	Shim D, Kang H-I, Lee HO, Park TS, Kim IS and Lee SW. Complete Chloroplast Genome of Korean Red Pine (<i>Pinus densiflora</i>) using Oxford Nanopore Technology and Illumina MiSeq
densiflora-sylvestris	<i>P. densiflora</i>	HQ849861	Ren G and Liu J. DNA barcoding in closely related <i>Pinus</i> species in China
	<i>P. densiflora</i>	HQ849862	Ren G and Liu J. DNA barcoding in closely related <i>Pinus</i> species in China

haplotype	Species	Accession	Reference
	<i>P. densiflora</i>	JN046325	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JN046326	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JN046327	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JN046328	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JN046329	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. Proc Natl Acad Sci USA 108 (49): 19641-19646
	<i>P. densiflora</i>	JN854210	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
	<i>P. densiflora</i>	JQ512329	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	JQ512330	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	JQ512331	Shin HW and Kim KJ. Unpublished
	<i>P. densiflora</i>	KJ661365	Hong JK, Yang JC, Lee YM and Kim JH (2014) Molecular phylogenetic study of <i>Pinus</i> in Korea based on chloroplast DNA <i>psbA-trnH</i> and <i>atpF-H</i> sequences data. Sigmul Bunryu Hag-hoeji 44 (2): 111-118
	<i>P. densiflora</i>	KJ661373	Hong JK, Yang JC, Lee YM and Kim JH (2014) Molecular phylogenetic study of <i>Pinus</i> in Korea based on chloroplast DNA <i>psbA-trnH</i> and <i>atpF-H</i> sequences data. Sigmul Bunryu Hag-hoeji 44 (2): 111-118
	<i>P. densiflora</i>	KJ661374	Hong JK, Yang JC, Lee YM and Kim JH (2014) Molecular phylogenetic study of <i>Pinus</i> in Korea based on chloroplast DNA <i>psbA-trnH</i> and <i>atpF-H</i> sequences data. Sigmul Bunryu Hag-hoeji 44 (2): 111-118
	<i>P. densiflora</i>	KJ661375	Hong JK, Yang JC, Lee YM and Kim JH (2014) Molecular phylogenetic study of <i>Pinus</i> in Korea based on chloroplast DNA <i>psbA-trnH</i> and <i>atpF-H</i> sequences data. Sigmul Bunryu Hag-hoeji 44 (2): 111-118

haplotype	Species	Accession	Reference
	<i>P. densiflora</i>	MF990371	Kim S-C, Lee J-W, Baek S-H, Ahn J-Y and Hong K-N (2018) Identification of DNA molecular markers by comparison of <i>Pinus densiflora</i> and <i>Pinus sylvestris</i> chloroplast genomes. PeerJ Preprints 6:e26506v1
	<i>P. sylvestris</i>	EU750632	Fazekas AJ, Burgess KS, Kesanakurti PR, Graham SW, Newmaster SG, Husband BC, Percy DM, Hajibabaei M and Barrett SC (2008) Multiple multilocus DNA barcodes from the plastid genome discriminate plant species equally well. PLoS ONE 3 (7): E2802
	<i>P. sylvestris</i>	FR832541	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. Eur J Forest Res 131: 1337–1353
	<i>P. sylvestris</i>	JN854158	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
	<i>P. sylvestris</i>	KR476379	Wu Z, Arvestad L and Thompson SL. Five gymnosperm plastomes reveal rampant rearrangements in Cupressophytes and the retention of <i>ndh</i> pseudogenes in <i>Abies sibirica</i> and <i>Pinus sylvestris</i>
	<i>P. sylvestris</i>	<u>LR590657</u>	This study
	<i>P. sylvestris</i>	<u>LR590658</u>	This study
	<i>P. sylvestris</i>	<u>LR590659</u>	This study
	<i>P. sylvestris</i>	<u>LR590660</u>	This study
	<i>P. sylvestris</i>	<u>LR590661</u>	This study
	<i>P. sylvestris</i>	MT311822	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. sylvestris</i>	MT311823	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. sylvestris</i>	MT311824	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. sylvestris</i>	MT311825	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. sylvestris</i>	MT311826	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
mugo_1	<i>P. mugo</i>	JN854181	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
mugo-sylvestris-uncinata	<i>P. mugo</i>	FR832532	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. Eur J Forest Res 131: 1337–1353

haplotype	Species	Accession	Reference
	<i>P. mugo</i>	MF193380	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. C R Biol 340(6-7): 339-348
	<i>P. mugo</i>	MF193381	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. C R Biol 340(6-7): 339-348
	<i>P. mugo</i>	MF193382	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. C R Biol 340(6-7): 339-348
	<i>P. mugo</i>	MT311793	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. mugo</i> <i>subsp.</i> <i>uncinata</i>	KX833097	Celiński, K., Kijak, H., Barylski, J., Grabsztunowicz M, Wojnicka-Półtorak A, Chudzińska E (2017) Characterization of the complete chloroplast genome of <i>Pinus uliginosa</i> (Neumann) from the <i>Pinus mugo</i> complex
	<i>P. mugo</i> <i>subsp.</i> <i>uncinata</i>	MF193386	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. C R Biol 340(6-7): 339-348
	<i>P. mugo</i> <i>subsp.</i> <i>uncinata</i>	MF193387	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. C R Biol 340(6-7): 339-348
	<i>P. mugo</i> <i>subsp.</i> <i>uncinata</i>	MF193388	Celiński K, Kijak H, Wojnicka-Półtorak A, Buczkowska-Chmielewska K, Sokołowska J, Chudzińska E (2017) Effectiveness of the DNA barcoding approach for closely related conifers discrimination: A case study of the <i>Pinus mugo</i> complex. C R Biol 340(6-7): 339-348
	<i>P. mugo</i> <i>subsp.</i> <i>uncinata</i>	MT311827	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. sylvestris</i>	FJ493296	Ferri G, Alu M and Corradini B (2009) Forensic Botany: species identification of botanical trace evidence by using a multigene barcoding approach Int J Legal Med 123(5): 395-401
	<i>P. uncinata</i>	LR590662	This study
	<i>P. uncinata</i>	LR590663	This study
nigra_1	<i>P. nigra</i>	FN689385	Piredda R, Attimonelli M, Bellarosa R, Schirone B and Simeone MC (2010) Prospects of barcoding the Italian wild dendroflora: lights and shadows

haplotype	Species	Accession	Reference
	<i>P. nigra</i>	FR832549	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. Eur J Forest Res 131: 1337–1353
	<i>P. nigra</i>	HE966738	Bruni I, De Mattia F, Martellos S, Galimberti A, Savadori P, Casiraghi M, Nimis PL and Labra M (2012) DNA barcoding as an effective tool in improving a digital plant identification system: a case study for the area of Mt. Valerio, Trieste (NE Italy). PLoS ONE 7 (9): E43256
	<i>P. nigra</i>	JN854179	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). BMC Evol Biol: 12(1): 100
	<i>P. nigra</i>	JQ512348	Shin HW and Kim KJ. Unpublished
	<i>P. nigra</i>	<u>LR590646</u>	This study
	<i>P. nigra</i>	<u>LR590647</u>	This study
	<i>P. nigra</i>	<u>LR590648</u>	This study
	<i>P. nigra</i>	<u>LR590649</u>	This study
	<i>P. nigra</i>	<u>LR590650</u>	This study
	<i>P. nigra</i>	<u>LR590651</u>	This study
	<i>P. nigra</i>	<u>LR590652</u>	This study
	<i>P. nigra</i>	<u>LR590653</u>	This study
	<i>P. nigra</i>	<u>LR590654</u>	This study
	<i>P. nigra</i>	<u>LR590655</u>	This study
	<i>P. nigra</i>	<u>LR590656</u>	This study
	<i>P. nigra</i>	MT311794	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 92
	<i>P. nigra</i>	MT311795	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 93
	<i>P. nigra</i>	MT311796	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 94
	<i>P. nigra</i>	MT311797	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 95
	<i>P. nigra</i>	MT311798	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 96
	<i>P. nigra</i>	MT311799	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 97
	<i>P. nigra</i>	MT311800	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 98

haplotype	Species	Accession	Reference
	<i>P. nigra</i>	MT311801	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 99
	<i>P. nigra</i>	MT311802	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 100
	<i>P. nigra</i>	MT311803	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 101
	<i>P. nigra</i>	MT311804	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 102
nigra_2	<i>P. nigra</i>	FJ493295	Ferri G, Alu M and Corradini B (2009) Forensic Botany: species identification of botanical trace evidence by using a multigene barcoding approach Int J Legal Med 123(5): 395-401
nigra_3	<i>P. nigra</i>	FR832546	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. Eur J Forest Res 131: 1337–1353
nigra_4	<i>P. nigra</i>	EU531715	Kruger AE, de Boer H and Kool A. DNA-Barcoding identification of medicinal roots from Morocco
resinosa_1	<i>P. resinosa</i>	HQ596790	Burgess KS, Fazekas AJ, Kesanakurti PR et al (2011) Discriminating plant species in a local temperate flora using the rbcL+matK DNA barcode. Methods Ecol Evol 2(4): 333-340
resinosa_2	<i>P. resinosa</i>	KC157208	Hernandez-Leon S, Gernandt DS, Perez de la Rosa JA and Jardon-Barbolla L (2013) Phylogenetic relationships and species delimitation in <i>Pinus</i> section <i>Trifoliae</i> inferred from plastid DNA. PLoS ONE 8 (7): E70501
sylvestris_1	<i>P. sylvestris</i>	FR832543	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. Eur J Forest Res 131: 1337–1353
	<i>P. sylvestris</i>	MT311822	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 100
	<i>P. sylvestris</i>	MT311823	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 100
	<i>P. sylvestris</i>	MT311824	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 100
	<i>P. sylvestris</i>	MT311825	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 100
	<i>P. sylvestris</i>	MT311826	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. Sci Data 8(1): 100

haplotype	Species	Accession	Reference
sylvestris_2	<i>P. sylvestris</i>	KM224618	Schneider S, Steeves RAD, Newmaster SG and Macdougall AS (2017) Selective plant foraging and the top-down suppression of native diversity in a restored prairie. <i>J Appl Ecol</i> 54(5): 1496-1504
<i>rbcL</i>			
<i>P. halepensis</i>	JN854197		Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). <i>BMC Evol Biol</i> : 12(1): 100
<i>P. halepensis</i>	MK073122		This study
<i>P. halepensis</i>	<u>MK073123</u>		This study
<i>P. halepensis</i>	<u>MK073124</u>		This study
<i>P. halepensis</i>	<u>MK073125</u>		This study
<i>P. halepensis</i>	<u>MK073126</u>		This study
<i>P. halepensis</i>	<u>MK073127</u>		This study
<i>P. halepensis</i>	<u>MK073128</u>		This study
<i>P. halepensis</i>	<u>MK073129</u>		This study
<i>P. halepensis</i>	<u>MK073130</u>		This study
<i>P. halepensis</i>	<u>MK073131</u>		This study
<i>P. halepensis</i>	<u>MK073132</u>		This study
<i>P. halepensis</i>	<u>MK073133</u>		This study
<i>P. halepensis</i>	<u>MK073134</u>		This study
<i>P. resinosa</i>	AY497252		Gernandt DS, Geada LopezG, Ortiz Garcia S and Liston A (2005) Phylogeny and classification of <i>Pinus</i> . <i>Taxon</i> 54: 29-42
<i>P. resinosa</i>	FJ899556		Parks M, Cronn R and Liston A (2009) Increasing phylogenetic resolution at low taxonomic levels using massively parallel sequencing of chloroplast genomes. <i>BMC Biol</i> 7: 84
<i>P. resinosa</i>	KC156711		Hernandez-Leon S, Gernandt DS, Perez de la Rosa JA and Jardon-Barbolla L (2013) Phylogenetic relationships and species delimitation in <i>Pinus</i> section Trifoliae inferred from plastid DNA. <i>PLoS ONE</i> 8 (7): E70501
<i>P. resinosa</i>	KJ593610		Wolf A, Howe R, Parker J, Erickson D and Kress J. Differential distributions of community phylogenetic diversity among life history forms in tropical and temperate plant species
<i>P. resinosa</i>	KJ593611		Wolf A, Howe R, Parker J, Erickson D and Kress J. Differential distributions of community phylogenetic diversity among life history forms in tropical and temperate plant species
<i>P. resinosa</i>	KJ841472		Elliott TL and Davies JT (2014) Challenges to barcoding an entire flora. <i>Mol Ecol Resour</i> 14(5): 883-891
<i>P. densiflora</i>	AB019814		Wang XR, Tsumura Y, Yoshimaru H, Nagasaka K and Szmidt AE (1999) Phylogenetic relationships of Eurasian pines (<i>Pinus</i> , Pinaceae) based on chloroplast <i>rbcL</i> , MATK, RPL20-RPS18 spacer, and TRNV intron sequences. <i>Am J Bot</i> 86 (12): 1742-1753
<i>P. densiflora</i>	DQ353731		Gernandt DS. Absolute age estimates for <i>Pinus</i> and Pinaceae
<i>P. densiflora</i>	HQ849861		Ren G and Liu J. DNA barcoding in closely related <i>Pinus</i> species in China
<i>P. densiflora</i>	JF701590		Ren GP, Abbott RJ, Zhou YF, Zhang LR, Peng YL and Liu JQ (2012) Genetic divergence, range expansion and possible homoploid hybrid speciation among pine species in Northeast China. <i>Heredity</i> 108(5): 552-562

haplotype	Species	Accession	Reference
<i>P. densiflora</i>	JF701591	Ren GP, Abbott RJ, Zhou YF, Zhang LR, Peng YL and Liu JQ (2012) Genetic divergence, range expansion and possible homoploid hybrid speciation among pine species in Northeast China. <i>Heredity</i> 108(5): 552-562	
<i>P. densiflora</i>	JF943400	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. <i>Proc Natl Acad Sci USA</i> 108 (49): 19641-19646	
<i>P. densiflora</i>	JF943401	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. <i>Proc Natl Acad Sci USA</i> 108 (49): 19641-19646	
<i>P. densiflora</i>	JF943402	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. <i>Proc Natl Acad Sci USA</i> 108 (49): 19641-19646	
<i>P. densiflora</i>	JF943403	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. <i>Proc Natl Acad Sci USA</i> 108 (49): 19641-19646	
<i>P. densiflora</i>	JF943404	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. <i>Proc Natl Acad Sci USA</i> 108 (49): 19641-19646	
<i>P. densiflora</i>	JN854210	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). <i>BMC Evol Biol</i> : 12(1): 100	
<i>P. densiflora</i>	KP088732	Dong W, Xu C, Li C, Sun J, Zuo Y, Shi S, Cheng T, Guo J and Zhou S (2015) <i>ycf1</i> , the most promising plastid DNA barcode of land plants. <i>Sci Rep</i> 5: 8348	
<i>P. densiflora</i>	MF990371	Kim S-C, Lee J-W, Baek S-H, Ahn J-Y and Hong K-N (2018) Identification of DNA molecular markers by comparison of <i>Pinus densiflora</i> and <i>Pinus sylvestris</i> chloroplast genomes. <i>PeerJ Preprints</i> 6:e26506v1	
<i>P. densiflora</i>	MF990371	Kim S-C, Lee J-W, Baek S-H, Ahn J-Y and Hong K-N (2018) Identification of DNA molecular markers by comparison of <i>Pinus densiflora</i> and <i>Pinus sylvestris</i> chloroplast genomes. <i>PeerJ Preprints</i> 6:e26506v1	
<i>P. densiflora</i>	MK285358	Shim D, Kang H-I, Lee HO, Park TS, Kim IS and Lee SW (2019) Complete chloroplast genome of (<i>Pinus densiflora</i>) Siebold & Zucc. And comparative analysis with five pine trees. <i>Forests</i> 10(7): 600	
<i>P. densiflora</i>	NC_042394	Shim D, Kang H-I, Lee HO, Park TS, Kim IS and Lee SW. Complete Chloroplast Genome of Korean Red Pine (<i>Pinus densiflora</i>) using Oxford Nanopore Technology and Illumina MiSeq	
<i>P. nigra</i>	AB019817	Wang XR, Tsumura Y, Yoshimaru H, Nagasaka K and Szmidt AE (1999) Phylogenetic relationships of Eurasian pines (<i>Pinus</i> , Pinaceae) based on chloroplast rbcL, MATK, RPL20-RPS18 spacer, and TRNV intron sequences. <i>Am J Bot</i> 86 (12): 1742-1753	
<i>P. nigra</i>	DQ353733	Gernandt DS. Absolute age estimates for <i>Pinus</i> and Pinaceae	
<i>P. nigra</i>	FN689380	Piredda R, Attimonelli M, Bellarosa R, Schirone B and Simeone MC (2010) Prospects of barcoding the Italian wild dendroflora: lights and shadows	

haplotype	Species	Accession	Reference
<i>P. nigra</i>	JN854179	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). <i>BMC Evol Biol</i> : 12(1): 100	
<i>P. resinosa</i>	AB063384	Geada López G, Kamiya K, Harada, K (2002) Phylogenetic relationships of <i>Diploxylon</i> pines (Subgenus <i>Pinus</i>) based on plastid sequence data. <i>Int J Plant Sci</i> 163(5) : 737-747	
<i>P. sylvestris</i>	AB097775	Geada Lopez G and Harada K. Evolutionary Relationships in Pines	
<i>P. sylvestris</i>	AB019809	Wang XR, Tsumura Y, Yoshimaru H, Nagasaka K and Szmidt AE (1999) Phylogenetic relationships of Eurasian pines (<i>Pinus</i> , Pinaceae) based on chloroplast rbcL, MATK, RPL20-RPS18 spacer, and TRNV intron sequences. <i>Am J Bot</i> 86 (12):1742-1753	
<i>P. sylvestris</i>	EU677091	Fazekas AJ, Burgess KS, Kesanakurti PR, Graham SW, Newmaster SG, Husband BC, Percy DM, Hajibabaei M and Barrett SC (2008) Multiple multilocus DNA barcodes from the plastid genome discriminate plant species equally well. <i>PLoS ONE</i> 3 (7): E2802	
<i>P. sylvestris</i>	EU750632	Fazekas AJ, Burgess KS, Kesanakurti PR, Graham SW, Newmaster SG, Husband BC, Percy DM, Hajibabaei M and Barrett SC (2008) Multiple multilocus DNA barcodes from the plastid genome discriminate plant species equally well. <i>PLoS ONE</i> 3 (7): E2802	
<i>P. sylvestris</i>	FR831916	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. <i>Eur J Forest Res</i> 131: 1337–1353	
<i>P. sylvestris</i>	FR832541	Armenise L, Simeone MC, Piredda R and Schirone B (2012) Validation of DNA barcoding as an efficient tool for taxon identification and detection of species diversity in Italian conifers. <i>Eur J Forest Res</i> 131: 1337–1353	
<i>P. sylvestris</i>	HQ849870	Ren G and Liu J. DNA barcoding in closely related <i>Pinus</i> species in China	
<i>P. sylvestris</i>	JF701588	Ren GP, Abbott RJ, Zhou YF, Zhang LR, Peng YL and Liu JQ (2012) Genetic divergence, range expansion and possible homoploid hybrid speciation among pine species in Northeast China. <i>Heredity</i> 108(5): 552-562	
<i>P. sylvestris</i>	JF701589	Ren GP, Abbott RJ, Zhou YF, Zhang LR, Peng YL and Liu JQ (2012) Genetic divergence, range expansion and possible homoploid hybrid speciation among pine species in Northeast China. <i>Heredity</i> 108(5): 552-562	
<i>P. sylvestris</i>	JN854158	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus</i> L. (Pinaceae). <i>BMC Evol Biol</i> : 12(1): 100	
<i>P. sylvestris</i>	KR476379	Wu Z, Arvestad L and Thompson SL. Five gymnosperm plastomes reveal rampant rearrangements in Cupressophytes and the retention of ndh pseudogenes in <i>Abies sibirica</i> and <i>Pinus sylvestris</i>	
<i>P. sylvestris</i>	MT311822	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 99	
<i>P. sylvestris</i>	MT311823	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 99	
<i>P. sylvestris</i>	MT311824	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 99	

haplotype	Species	Accession	Reference
<i>P. sylvestris</i>	MT311825	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 99	
<i>P. sylvestris</i>	MT311826	Monnet AC, Cilleros K, Leriche A, et al (2021) WOODIV, a database of occurrences, functional traits, and phylogenetic data for all Euro-Mediterranean trees. <i>Sci Data</i> 8(1): 99	
<i>P. sylvestris</i>	MT787466	Leerhoei F. DNAmark Project	
<i>P. sylvestris</i> var. <i>mongolica</i>	JF943390	China Plant BOL Group, Li DZ, Gao LM, Li HT et al. CPBOL Group (2011) Comparative analysis of a large dataset indicates that internal transcribed spacer (ITS) should be incorporated into the core barcode for seed plants. <i>Proc Natl Acad Sci USA</i> 108 (49): 19641-19646	
<i>P. densiflora</i>	JQ512574	Shin HW and Kim KJ. Unpublished	
<i>P. densiflora</i>	JQ512575	Shin HW and Kim KJ. Unpublished	
<i>P. densiflora</i>	JQ512576	Shin HW and Kim KJ. Unpublished	
<i>P. densiflora</i>	JQ512577	Shin HW and Kim KJ. Unpublished	
<i>P. nigra</i>	JQ512593	Shin HW and Kim KJ. Unpublished	
<i>P. mugo</i>	JN854181	Parks M, Cronn R and Liston A (2012) Separating the wheat from the chaff: mitigating the effects of noise in a plastome phylogenomic data set from <i>Pinus L.</i> (Pinaceae). <i>BMC Evol Biol</i> : 12(1): 100	
<i>P. mugo</i> subsp. <i>rotundata</i>	KX833097	Celiński K, Kijak H, Barylski J, Grabsztunowicz M, Wojnicka-Półtorak A and Chudzińska E (2017). Characterization of the complete chloroplast genome of <i>Pinus uliginosa</i> (Neumann) from the <i>Pinus mugo</i> complex. <i>Cons Gen Resour</i> 9: 209-212	
<i>P. nigra</i>	<u>MK092816</u>	This study	
<i>P. nigra</i>	<u>MK092817</u>	This study	
<i>P. nigra</i>	<u>MK092818</u>	This study	
<i>P. nigra</i>	<u>MK092819</u>	This study	
<i>P. nigra</i>	<u>MK092821</u>	This study	
<i>P. nigra</i>	<u>MK092822</u>	This study	
<i>P. nigra</i>	<u>MK092823</u>	This study	
<i>P. nigra</i>	<u>MK092824</u>	This study	
<i>P. nigra</i>	<u>MK092825</u>	This study	
<i>P. nigra</i>	<u>MK092826</u>	This study	
<i>P. nigra</i>	<u>MK092827</u>	This study	
<i>P. nigra</i>	<u>MK092828</u>	This study	
<i>P. nigra</i>	<u>MK092829</u>	This study	
<i>P. nigra</i>	<u>MK092830</u>	This study	
<i>P. nigra</i>	<u>MK092831</u>	This study	
<i>P. nigra</i>	<u>MK092832</u>	This study	
<i>P. nigra</i>	<u>MK092833</u>	This study	
<i>P. nigra</i>	<u>MK092834</u>	This study	
<i>P. nigra</i>	<u>MK092835</u>	This study	
<i>P. nigra</i>	<u>MK092820</u>	This study	
<i>P. sylvestris</i>	<u>LR590619</u>	This study	

haplotype	Species	Accession	Reference
<i>P. sylvestris</i>	LR590620	This study	
<i>P. sylvestris</i>	LR590621	This study	
<i>P. sylvestris</i>	LR590622	This study	
<i>P. uncinata</i>	LR590623	This study	
<i>P. uncinata</i>	LR590624	This study	