

S1 Table. Taxa included in the *ycf4*, *matK* and *rpl32* analyses.

Species	DNA source (location, voucher)	GenBank accession no. <i>ycf4/matK/rpl32</i>
Fabeae		
<i>Lathyrus alamutensis</i> Mozaffarian et al.	Iran: Mozaffarian, Ahvazi & Charkhchian 88388 (TARI)	LC517983/LC518027/-
<i>L. annuus</i> L.	Iran: Hewan 3676 (TARI)	LC517984/LC518028/-
<i>L. armenus</i> (Boiss. &Huet) Celak.	Turkey: Aytac 8317 (GAZI)	LC517985/LC518029/-
<i>L. boissieri</i> Sirj.	Iran: Runemark & Mozaffarian 29308 (TARI)	LC517986/LC518030/LC518058
<i>L. brachypterus</i> Celak.	Turkey: Aytac & A. Duman 5441 (GAZI)	LC517987/LC518031/-
<i>L. chloranthus</i> Boiss.	Iran: Kazempour-Osaloo 2008-5 (TMUH)	LC517988/LC518032/-
<i>L. cirrhosus</i> Ser.	GenBank	HM029360 ^a /-/-
<i>L. clymenum</i> L.	GenBank	KJ850235 ^b
<i>L. cyaneus</i> (Steven) K.Koch.	Iran: Azerbaijan, Mozaffarian 70010 (TARI)	LC517989/LC518033/-
<i>L. davidii</i> Hance	GenBank	KJ806192 ^b
<i>L. digitatus</i> (M. Bieb) Fiori	Turkey: M. Vural 4033 (GAZI)	LC517990/LC518034/-
<i>L. graminifolius</i> (S.Watson) T.G.White	GenBank	KJ806193 ^b
<i>L. hirsutus</i> L.	Iran: Naqinezhad 27738 (TUH)	LC517991/AB935069 ^a /-
<i>L. japonicus</i> Willd.	GenBank	KJ806195 ^b
<i>L. karsianus</i> Davis	Turkey: G. Akgül 1700 (GAZI)	LC517992/LC518035/-
<i>L. latifolius</i> L.	GenBank	HM029359 ^a /AF522085 ^a /-
<i>L. littoralis</i> (Torr. &A.Gray) Walp.	GenBank	KJ806196 ^b
<i>L. ochroleucus</i> Hook.	GenBank	KJ806198 ^b
<i>L. ochrus</i> (L.) DC.	Turkey: H. Sagban 3137 (GAZI)	LC517993/AB935075 ^a /LC518059
<i>L. odoratus</i> L.	GenBank	KJ850237 ^b
<i>L. odoratus</i> L.	GenBank	HM029361 ^a /-/-
<i>L. palustris</i> L.	GenBank	KJ806199 ^b
<i>L. palustris</i> L.	GenBank	HM029362 ^a /-/-
<i>L. pratensis</i> L.	Iran: Heidari et al. 1803 (HWANRC)	LC517994/LC518036/-
<i>L. pseudocicera</i> Pamp.	Turkey: N. Adiguzel 2238 (GAZI)	LC517995/LC518037/LC518060
<i>L. pubescens</i> Hook. &Arn.	GenBank	KJ806200 ^b
<i>L. sativus</i> L.	GenBank	KJ806201 ^b
<i>L. sativus</i> L.	GenBank	HM029371 ^b
<i>L. tingitanus</i> L.	GenBank	KJ850238 ^b
<i>L. tukhtensis</i> Czeck.	Turkey: A. Güner 5798 (GAZI)	LC517996/LC518038/LC518061
<i>L. venosus</i> Willd.	GenBank	KJ806202 ^b
<i>Lens culinaris</i> Medik.	GenBank	KF186232 ^b
<i>L. orientalis</i> (Boiss.) Schmalh.	Iran: Emadzadeh, Memariani & Zangoeei 36153 (FUMH)	LC517997/-/LC518062
<i>Pisumfulvum</i> Sibth& Sm.	Turkey: Adiguzel & Aytac 1896 (GAZI)	LC518008/LC518039/LC518063
<i>P. sativum</i> L.	GenBank	KJ806203 ^b
<i>P. sativum</i> L.	GenBank	HM029370 ^b
<i>P. sativum</i> L.	GenBank	HG966676 ^b
<i>Vavilovia formosa</i> (Steven) Al.Fed.	Iran: Mozaffarian 88389 (TARI)	LC518014/LC518042/LC518066
<i>Vicia alpestris</i> Steven	Iran: Alizadeh et al. 8755 (HWANRC)	LC518015/LC518043/LC518067
<i>V. canescens</i> Labill.	Iran: Alizadeh et al. 5103 (HWANRC)	LC518016/LC518044/LC518068
<i>V. ervilia</i> (L.) Willd.	Iran: Emadzadeh, Memariani & Zangoeei 36169 (FUMH)	LC518017/LC518045/-
<i>V. faba</i> L.	GenBank	KF042344 ^b
<i>V. monantha</i> Retz.	Iran: Joharchi & Zangoeei 16078 (FUMH)	LC518018/LC518046/LC518069
<i>V. narbonensis</i> L.	Iran: Alizadeh et al. 8760 (HWANRC)	LC518019/LC518047/LC518070

<i>V. peregrina</i> L.	Iran: Wendelbo & Assadi 11971 (TARI)	LC518020/LC518048/LC518071
<i>V. sativa</i> L.	GenBank	KJ850242 ^b
<i>V. sepium</i> L.	GenBank	MG682352 ^b
<i>V. tetrasperma</i> (L.) Schreb.	Iran: Pabot 7523 (TARI)	LC518021/-/LC518072
Trifolieae		
<i>Medicago falcata</i> L.	GenBank	KX831887 ^b
<i>M. hybrida</i> (Pourr.) Trautv.	GenBank	KJ850240 ^b
<i>M. papillosa</i> Boiss.	GenBank	KJ850241 ^b
<i>M. sativa</i> L.	GenBank	KU321683 ^b
<i>M. sativa</i> L.	GenBank	KU321071 ^b
<i>M. sativa</i> L.	Iran: Kazempour-Osaloo 2017-1 (TMUH)	LC517999/-/
<i>M. truncatula</i> Gaertn.	GenBank	AC093544 ^b
<i>M. truncatula</i> Gaertn.	GenBank	KF241982 ^b
<i>Melilotus albus</i> Medik.	GenBank	MH191352 ^b
<i>Trifolium aureum</i> Pollich	GenBank	KC894708 ^b
<i>T. boissieri</i> Guss.	GenBank	KJ788284 ^b
<i>T. glanduliferum</i> Boiss.	GenBank	KJ788285 ^b
<i>T. hybridum</i> L.	GenBank	KJ788286 ^b
<i>T. lupinaster</i> L.	GenBank	KJ788287 ^b
<i>T. meduseum</i> Blanche ex Boiss.	GenBank	KJ476730 ^b
<i>T. occidentale</i> Coombe	GenBank	KJ788289 ^b
<i>T. pratense</i> L.	GenBank	KJ788290 ^b
<i>T. repens</i> L.	GenBank	KC894706 ^b
<i>T. semipilosum</i> Fresen.	GenBank	KJ788291 ^b
<i>T. strictum</i> L.	GenBank	KJ788292 ^b
<i>T. subterraneum</i> L.	GenBank	EU849487 ^b
<i>Trigonella foenum-graecum</i> L.	GenBank	MK460508 ^b
Galegeae		
<i>Galega officinalis</i> L.	Georgia: Merello 2443 (MO)	LC517975/AB854574 ^a /-
Cicereae		
<i>Cicer arietinum</i> L.	GenBank	EU835853 ^b
<i>C. chorassanicum</i> (Bunge) Popov	Iran: Rafei & Zangoeei 30566 (FUMH)	LC517967/AB198879 ^a /-
<i>C. oxyodon</i> Boiss. & Hohen.	Iran: Kazempour-Osaloo 2009 (TMUH)	LC517968/AB198889 ^a /-
Hedysareae		
<i>Alhagi maurorum</i> Medik.	Iran: Kazempour-Osaloo 2008-1 (TMUH)	LC517962/LC518022/LC518049
<i>Corethrodedendron scoparium</i> (Fisch. & C.A.Mey.) Fisch. & Basiner	China: Xu et al. 86862 (MSB)	LC517971/AB854566 ^a /LC137101 ^a
<i>Eversmannia subspinosa</i> (DC.) B. Fedtsch.	Iran: Freitag & Mozaffarian 28397 (TARI)	LC517974/AB854573 ^a /LC137102 ^a
<i>Greuteria membranacea</i> (Coss. & Bal.) Amirahm. & Kaz. Osaloo (= <i>H. membranaceum</i> Coss. & Bal.)	Morocco: Podlech 49070 (MSB)	LC517976/AB854576 ^a /LC137103 ^a
<i>Hedysarum formosum</i> Fisch. & C.A.Mey. ex Basin.	Iran: Ghahreman & Mozaffarian 9778 (TUH)	LC517979/AB854585 ^a /LC518055
<i>H. minjanense</i> Rech.f.	Tajikistan: Dickore 18281 (MSB)	LC517980/-/
<i>H. singarense</i> Boiss. & Hausskn.	Iran: Babakhanlou 19984 (TARI)	LC517981/-/LC518056
<i>H. varium</i> Willd.	Turkey: Birden 1133 (GAZI)	LC517982/-/LC518057
<i>Onobrychis aucheri subsp. teheranica</i> (Bornm.) Rech.f.	Iran: Ahangarian & Kazempour-Osaloo 2005-1 (TMUH)	LC518001/AB854602 ^a /LC137148 ^a
<i>O. bungei</i> Boiss.	Iran: Rechingner 43484 (MSB)	LC518002/-/LC137113 ^a
<i>O. cornuta</i> (L.) Desv.	Iran: Kazempour-Osaloo 2009-1 (TMUH)	LC518003/JQ669622 ^a /LC137115 ^a
<i>O. michauxii</i> DC.	Iran: Assadi 86612 (TARI)	LC518004/JQ669628 ^a /LC137129 ^a
<i>Taverniera cuneifolia</i> (Roth) Arn.	Iran: Basiri & Norouzi 1531 (TUH)	LC518012/LC518040/LC518064
<i>T. diffusa</i> (Cambess.) Thulin	Pakistan: Lamond 1405 (MSB)	LC518013/LC518041/LC518065
Caraganeae		
<i>Caragana korshinskii</i> Kom.	GenBank	KX289923 ^b
<i>C. kozlowii</i> Kom.	GenBank	KX349219 ^b
<i>C. microphylla</i> Lam.	GenBank	KX289922 ^b

<i>C. rosea</i> Maxim.	GenBank	MF593790 ^b
<i>Gueldenstaedtia verna</i> (Georgi) Boriss.	USSR: Ulanova & Bassargin 39025(MSB)	LC517977/-/-
<i>Halimodendron halodendron</i> (Pall.) Voss	Iran: Maassoumi et al. 86046 (TARI)	LC517978/JQ619947 ^a /LC518054
<i>Tibetia liangshanensis</i> P.C.Li	GenBank	MF193597 ^b
Coluteae		
<i>Carmichaelia australis</i> R.Br.	GenBank	MF597719 ^b
<i>Colutea persica</i> Boiss.	Iran: Manucheri et al. 277(TARI)	LC517969/LC164595 ^a /LC164615 ^a
<i>C. triphylla</i> Bunge ex Boiss.	Iran: Assadi & Mozaffarian 33325 (TARI)	LC517970/LC085323 ^a /LC164617 ^a
<i>Eremosparton flaccidum</i> Litw.	Turkmanistan: Beljanina et al. 9353 (MSB)	LC517972/LC164597 ^a /LC164619 ^a
<i>Lessertia frutescens</i> (L.) Goldblatt & J.C.Manning	South Africa: Mummenhoff 851 (TMUH)	LC517998/LC164604 ^a /LC164631 ^a
<i>Podlechiella vogelii</i> (Webb) Maassoumi & Kaz. Osaloo	Algeria: Podlech 36700 (TARI)	LC518009/LC164600 ^a /LC164627 ^a
<i>Smirnowia turkestanica</i> Bunge	Iran: Maddah & Moradi 3981 (TARI)	LC518010/LC164601 ^a /LC164628 ^a
<i>Sphaerophysa salsula</i> (Pall.) DC.	Iran: Azimi & Talaii 3687 (TMUH)	LC518011/LC164603 ^a /LC164630 ^a
Wisterieae		
<i>Wisteria floribunda</i> (Willd.) DC.	GenBank	KM103376 ^b
<i>W. sinensis</i> (Sims) Sweet	GenBank	KT200359 ^b
Astragalus/Oxytropis/Erophaca		
<i>Astragalus denudatus</i> Steven	Iran: Kazempour-Osaloo 2016-1 (TMUH)	LC517963/LC518023/LC518050
<i>A. iranicus</i> Bunge	Iran: Kazempour-Osaloo 2016-2 (TMUH)	LC517964/LC518024/LC518051
<i>A. macropelmatus</i> Bunge	Iran: Kazempour-Osaloo 2016-3 (TMUH)	LC517965/LC518025/LC518052
<i>A. membranaceus</i> (Fisch.) Bunge	GenBank	KX255662 ^b
<i>A. mongholicus</i> Bunge	GenBank	KU666554 ^b
<i>A. nakaianus</i> Y.N. Lee	GenBank	KR296789 ^b
<i>A. odoratus</i> Lam.	Iran: Kazempour-Osaloo 2016-4 (TMUH)	LC517966/LC518026/LC518053
<i>Erophaca baetica</i> (L.) Boiss.	Turkey: Nydeyyer 40164 (MSB)	LC517973/JQ619937 ^a /-
<i>Oxytropis iranica</i> Vassilcz.	Iran: Behboudi & Aellen 1948, 5598E (IRAN)	LC518005/-/-
<i>O. kotschyana</i> Boiss. & Hohen.	Iran: Shahi Shavvon & Kazempour-Osaloo 2014s50/2 (TMUH)	LC518006/-/-
<i>O. szovitsii</i> Boiss. & Buhse	Iran: Termeh et al. 33756E (IRAN)	LC518007/-/LC164624 ^a
Glycyrrhiza/Meristotropis		
<i>Glycyrrhiza glabra</i> L.	GenBank	KF201590 ^b
<i>G. lepidota</i> Pursh	GenBank	KY038482 ^b
<i>G. uralensis</i> Fisch.	GenBank	KU862308 ^b
<i>Meristotropis xanthioides</i> Vassilcz.	Iran: Ghahreman et al. 27652 (TUH)	LC518000/-/-
Outgroups		
<i>Robinia pseudoacacia</i> L.	GenBank	KJ468102 ^b
<i>Lotus japonicas</i> (Regel) K.Larsen	GenBank	AP002983 ^b

(-) not available in GenBank

Abbreviations used in plant accession information: FUMH, Ferdowsi University of Mashhad Herbarium, Mashhad, Iran; GAZI, Gazi Universitesi Herbarium, Ankara, Turkey; IRAN, Iranian Research Institute of Plant Protection, Tehran, Iran; MO, Missouri Botanical Garden Herbarium, St Louis, USA; MSB, Herbarium of Ludwig-Maximilians-Universitat, Munchen, Germany; TARI, Herbarium of the Research Institute of Forests and Rangelands, Tehran, Iran; TMUH, Tarbiat Modares University Herbarium, Tehran, Iran; TUH, Tehran University Herbarium, Tehran, Iran; HWANRC, Herbarium of West Azarbayjan Natural Resources Research Center, Urmia, Iran.

^aSequences from GenBank

^bWhole plastid genome