

Additional file 1

Contrasting evolutionary origins of two mountain endemics: *Saxifraga wahlenbergii* (Western Carpathians) and *S. styriaca* (Eastern Alps)

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Table S1. Taxa included in the phylogenetic analysis. ENA/GenBank accession numbers are given for all ITS, *trnL-trnF* and *rpl32-trnL* Sanger sequences used in this study, followed by available ITS2 sequences obtained from NGS (without ENA/GenBank entry). They are denoted as “ITS2 variants A–D”. Missing sequence data are indicated by “NA” (not available). Voucher data (country and region, collector and collection number, herbarium code according to Thiers et al. [91]) are provided for newly generated sequences, which are in bold print. MR: herbarium of G. & S. Miede deposited at the Institute of Geography, University Marburg, Germany.

Taxon name	ITS	ITS2 variants	<i>trnL-trnF</i>	<i>rpl32</i>	Provenance, voucher information of the new sequenced samples
Grossulariaceae					
<i>Ribes amarum</i> McClatchie	KU524089		KU524330	NA	
<i>R. horridum</i> Rupr. ex Maxim.	KU524090		KU524333	NA	
Iteaceae					
<i>Choristylis rhamnoides</i> Harv.	KU524085		KU524323	NA	
<i>Itea virginica</i> L.	AY231368		AF374818	NA	
<i>I. yunnanensis</i> Franch.	JN102242		JN102291	NA	
<i>Pterostemon rotundifolius</i> Ramírez	AY231369		AF374817	NA	
Penthoraceae					
<i>Penthorum chinense</i> Pursch	KC988286		NC_023086	NC_023086	
Saxifragaceae					
<i>Astilbe microphylla</i> Knoll	FJ653634, FJ653651		AF374814	NA	
<i>Astilboides tabularis</i> (Hemsl.) Engl.	JQ895221		AF374793	NA	
<i>Bensoniella oregona</i> (Abrams & Bacig.) C.V.Morton	AF158953		NA	KT755705	
<i>Cascadia nuttallii</i> (Small) A.M.Johnson (1)	LM654340		LM654424	LT971015	
<i>C. nuttallii</i> (Small) A.M.Johnson (2)	LM654339		LM654423	LT971016	
<i>Chrysosplenium iowense</i> Rydb.	Alignment (Xiang et al. 2012 ¹)		AF374790	NA	
<i>Conimitella williamsii</i> (D.C.Eaton) Rydb.	AB292020		NA	KT755694	
<i>Darmera peltata</i> (Torr. ex Benth.) Voss	AB292041		AF374795	KT755657	
<i>Elmera racemosa</i> (S.Watson) Rydb.	AB248849		AF374804	KT755658	
<i>Heuchera micrantha</i> Douglas ex Lindl.	AB248853		AF374806	KT755702	
<i>Jepsonia parryi</i> (Torr.) Small	U51262		AF374808	NA	

<i>Leptarrhena pyrolifolia</i> (D.Don) R.Br. ex Ser.	Alignment (Xiang et al. 2012)	AF374812	NA	
<i>Lithophragma trifoliatum</i> Eastw.	AF158951	NA	NA	
<i>Micranthes brachypetala</i> (Malyshev) Gornall & H.Ohba	LM654344	LM654428	LT971017	
<i>Micranthes californica</i> (Greene) Small	LM654347	LM654431	LT971018	
<i>M. calycina</i> (Sternb.) Gornall & H.Ohba	LM654349	LM654433	LT971019	
<i>M. divaricata</i> (Engl. & Irmsch.) Losinsk.	LM654354	LM654438	LT971020	
<i>M. ferruginea</i> (Graham) Brouillet & Gornall	LM654357	LM654441	LT971021	
<i>M. integrifolia</i> (Hook.) Small	LM654365	LM654449	LT971022	
<i>M. lyallii</i> (Engl.) Small subsp. <i>lyallii</i>	LM654368	LM654452	LT971023	
<i>M. melanocentra</i> (Franch.) Losinsk.	LM654372	LM654456	LT971024	
<i>M. merkii</i> (Fisch. ex Sternb.) Elven & D.F.Murray subsp. <i>merkii</i>	LM654374	LM654457	LT971025	
<i>M. micranthidifolia</i> (Haw.) Small	LM654375	LM654459	LT971026	
<i>M. nelsoniana</i> (D.Don) Small	LM654379	LM654463	LT971027	
<i>M. nivalis</i> (L.) Small	LM654384	LM654468	LT971028	
<i>M. nudicaulis</i> (D.Don) Gornall & H.Ohba	LM654385	LM654469	LT971029	
<i>M. pensylvanica</i> (L.) Haw.	LM654391	LM654475	LT971030	
<i>M. razshivinii</i> (Zhmylev) Brouillet & Gornall	LM654398	LM654482	LT971031	
<i>M. redofskyi</i> (Adams) Elven & D.F.Murray	LM654399	LM654483	LT971032	
<i>M. reflexa</i> (Hook.) Small	LM654401	LM654485	LT971033	
<i>M. stellaris</i> (L.) Galasso, Banfi & Soldano	LM654407	LM654491	LT971034	
<i>M. tilingiana</i> (Regel & Til.) Kom.	LM654412	LM654496	LT971035	
<i>M. tolmiei</i> (Torr. & A.Gray) Brouillet & Gornall	LM654413	LM654497	LT971036	
<i>Mitella nuda</i> L.	AB163495	AB116715	NA	
<i>Mukdenia rossii</i> (Oliv.) Koidz.	Alignment (Xiang et al. 2012)	AF374794	NA	
<i>Oresitrophe rupifraga</i> Bunge	JN102231	JN102280	NA	
<i>Peltoboykinia tellimoides</i> (Maxim.) H.Hara	AB248847	AF374789	KT755740	
<i>Rodgersia pinnata</i> Franch.	U51264	AF374791	KT755741	
<i>Saniculiphyllum guangxiense</i> C.Y.Wu & T.C.Ku	JN102233	JN102282	NA	
<i>Saxifraga adscendens</i> L. (1)	LN812341	LN812575	LT971037	Romania, Jud. Hunedoara; M. Röser 9710 (HAL)

<i>S. adscendens</i> L. (2)	LT970992	A	LT970892	LT971038	Romania, Jud. Hunedoara; M. Röser 9825 (HAL)
<i>S. afghanica</i> L.	LN812342		LN812576	NA	
<i>S. aizoides</i> L.	LN812343		LN812577	LT971039	Russia, cult. Polar-Alpine Botanical Garden-Institute (PABGI): Kirovsk; N. Tkach (HAL)
<i>S. alberti</i> Regel & Schmalh.	LN812344		LN812578	NA	
<i>S. aleutica</i> Hultén	LN812345		LN812579	LT971040	USA, Alaska; S. Talbot & S.L. Talbot 489 (NY)
<i>S. alpigena</i> Harry Sm.	LN812346		LN812580	LT971041	Germany, cult. Brockengarten Harz (11-B-0080); N. Tkach 225 & M. Röser (HAL)
<i>S. anadyrensis</i> Losinsk. (1)	LN812347		LN812581	NA	
<i>S. anadyrensis</i> Losinsk. (2)	LN812348		LN812582	LT971042	Russia, Chukotka; A.A. Korobkov & N.A. Sekretareva (LE)
<i>S. andersonii</i> Engl.	LN812349		LN812583	LT971043	Germany, cult. Brockengarten Harz (09-B-0011); N. Tkach 228 & M. Röser (HAL)
<i>S. androsacea</i> L. (1)	LT970993	A	NA	LT971044	Russia, Sayan Mountains; I. Kasnoborov & V. Osadczy 4980 (LE)
<i>S. androsacea</i> L. (2)	NA	A, B	NA	NA	Slovakia, Carpathians, Western Tatras; M. Ronikier & A. Ronikier (KRAM)
<i>S. androsacea</i> L. (3)	NA	A, B, C, D	NA	NA	Spain, Lleida, Aiguestortes; B. Frajman, P. Schönschwetter (W)
<i>S. angustata</i> Harry Sm.	LN812351		LN812585	LT971045	China, NW Sichuan; G. & S. Miehe & U. Wuendisch 94-404-14 (Germany: Marburg)
<i>S. aphylla</i> Sternb. (1)	LN812352		LN812586	LT971046	Switzerland, Canton of Grisons; M. Röser 7045 (HAL)
<i>S. aphylla</i> Sternb. (2)	LT970994	A	LT970893	LT971047	Germany, Eastern Alps, Wetterstein mountains; H. Meusel (HAL0075075)
<i>S. aquatica</i> Lapeyr.	AF261161		KU524334	NA	
<i>S. arachnoidea</i> Sternb.	LN812353		LN812587	LT971048	Italy, Prov. Brescia; M. Röser 10259 (HAL)
<i>S. aretioides</i> Lapeyr.	LN812354		LN812588	LT971049	Germany, cult. Arctic-Alpine Garden Chemnitz (s.n.); N. Tkach 209 & M. Röser (HAL)
<i>S. aristulata</i> Hook.f. & Thomson	LN812355		LN812589	LT971050	China, Xizang; G. & S. Miehe 99-134-20 (Germany: Marburg)
<i>S. aspera</i> L.	LN812356		LN812590	LT971051	Austria, Vorarlberg; M. Röser 5839 (HAL)
<i>S. aurantiaca</i> Franch.	LN812357		LN812591	LT971052	China, Xizang; G. & S. Miehe & U. Wuendisch 94-339-12c (Germany: Marburg)
<i>S. babiana</i> T.E.Díaz & Fern.Prieto	LN812358		LN812592	LT971053	Germany, cult. Arctic-Alpine Garden Chemnitz (s.n.); N. Tkach 210 & M. Röser (HAL)
<i>S. bergenioides</i> C.Marquand	LN812359		LN812593	LT971054	Bhutan, Gasa; G. & S. Miehe 00-357-03 (Germany: Marburg)
<i>S. berica</i> (Bég.) D.A.Webb	LN812360		LN812594	LT971055	Italy, Monti Berici; H. Meltesics (LE)
<i>S. bicuspidata</i> Hook.f.	AF374819, AF374820		AF374776	NA	
<i>S. biflora</i> All.	LN812361		LN812595	NA	
<i>S. biternata</i> Boiss.	LN812362		LN812596	LT971056	Germany, cult. Botanical Garden Muenchen-Nymphenburg (ES-0-M-2006/1581); N. Tkach 260 & M. Röser (HAL)
<i>S. blepharophylla</i> A.Kern. ex Hayek	AF504545		NA	NA	

<i>S. bourgaeana</i> Boiss. & Reut.	LN812364	LN812598	LT971057	Spain, Malaga; M. Röser 4682 (HAL)
<i>S. brachypoda</i> D.Don	LN812365	LN812599	LT971058	Bhutan, Gasa; G. & S. Miede 00-385-10 (Germany: Marburg)
<i>S. bracteata</i> D.Don (1)	LN812366	NA	NA	
<i>S. bracteata</i> D.Don (2)	LN812367	LN812601	LT971059	USA, Alaska; T. Kelso, J. Flock & M. Colson 235 (NY)
<i>S. bronchialis</i> L. subsp. <i>bronchialis</i>	LN812369	LN812603	NA	
<i>S. bronchialis</i> L. subsp. <i>austromontana</i> (Wiegand) Piper	LN812368	LN812602	LT971060	Germany, cult. Botanical Garden Muenchen-Nymphenburg (US-0-M-2006/0173); N. Tkach 259 & M. Röser (HAL)
<i>S. brunonis</i> Wall. ex Ser. (1)	JN102236	NA	NA	
<i>S. brunonis</i> Wall. ex Ser. (2)	LN812370	LN812604	LT971061	Bhutan, Gasa; G. & S. Miede 00-293-01 (Germany: Marburg)
<i>S. bryoides</i> L.	LN812371	LN812605	LT971062	Romania, Jud. Hunedoara; M. Röser 9602 (HAL)
<i>S. bulbifera</i> L.	LN812372	LN812606	LT971063	Austria, Lower Austria; M. Röser 9124 (HAL)
<i>S. caesia</i> L.	LN812373	LN812607	LT971064	Italy, Prov. Brescia; M. Röser 10264 (HAL)
<i>S. callosa</i> Sm. ex Dicks.	LN812374	LN812608	NA	
<i>S. callosa</i> Sm. ex Dicks. subsp. <i>catalaunica</i> (Boiss. & Reut.) D.A.Webb	LN812380	LN812614	LT971074	Germany, cult. Arctic-Alpine Garden Chemnitz (AC1547); N. Tkach 212 & M. Röser (HAL)
<i>S. camposii</i> Boiss. & Reut. var. <i>leptophylla</i> Willk.	LN812375	LN812609	LT971065	Spain, Pena Lucas. Almeria; A. Segura Zubizarreta (LE)
<i>S. canaliculata</i> Boiss. & Reut. ex Engl.	LN812376	LN812610	LT971066	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1313); N. Tkach 211 & M. Röser (HAL)
<i>S. carpatica</i> Rchb.	LN812377	LN812611	LT971067	Romania, Jud. Hunedoara; M. Röser 9676 (HAL)
<i>S. carpetana</i> Boiss. & Reut.	AF261168	NA	NA	
<i>S. cartilaginea</i> Willd.	LN812378	LN812612	NA	
<i>S. caspica</i> Sipliv.	LN812379	LN812613	LT971068	Russia, E Caucasus; V. Prima, A. Syunyakov (LE)
<i>S. caucasica</i> Sommier & Levier	LN812381	LN812615	LT971069	Russia, Caucasus; G.L. Kudryashova (LE)
<i>S. caulescens</i> Sipliv.	KF196325	KF196375	NA	
<i>S. caveana</i> W.W.Sm.	LN812382	LN812616	LT971070	Bhutan, Gasa; G. & S. Miede 00-303-12 (Germany: Marburg)
<i>S. cebennensis</i> Rouy & E.G.Camus	LN812383	LN812617	LT971071	Germany, cult. Botanical Garden Muenchen-Nymphenburg (FR-0-M-2003/1261); N. Tkach 261 & M. Röser (HAL)
<i>S. cernua</i> L. (1)	EU158861	AF374779	NA	
<i>S. cernua</i> L. (2)	LN812384	LN812618	NA	
<i>S. cespitosa</i> L. subsp. <i>cespitosa</i>	LN812385	LN812619	LT971072	Russia, Taymyr; Yu.P. Kozhevnikov (LE)
<i>S. cespitosa</i> L. subsp. <i>monticola</i> (Small) A.E.Porsild	LN812386	LN812620	LT971073	Russia, Wrangel Island; V.V. Petrovsky & P.G. Zhukova (LE)
<i>S. charadzeae</i> Otsch.	LN812387	LN812621	LT971076	Russia, Caucasus; T.N. Popova & G.L. Kudryashova (LE)
<i>S. cherlerioides</i> D.Don var. <i>cherlerioides</i>	LN812389	LN812623	NA	
<i>S. cherlerioides</i> D.Don var. <i>rebunshirensis</i> Hara	LN812388	LN812622	LT971077	Germany, cult. Botanical Garden Tuebingen (AC 691); N. Tkach 252 & M. Röser (HAL)
<i>S. chrysantha</i> A.Gray	LN812390	LN812624	LT971078	USA, Colorado; G.N. Jones (LE)

<i>S. cintrana</i> Kuzinsky ex Willk.	AF261171		NA	NA	
<i>S. cochlearis</i> Rchb.	LN812391		LN812625	LT971079	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1372); N. Tkach 213 & M. Röser (HAL)
<i>S. colchica</i> Albov	LN812392		LN812626	NA	
<i>S. columnaris</i> Schmalh.	LN812393		LN812627	LT971080	Russia, Caucasus; S. Shkhagansoev (LE)
<i>S. conifera</i> Coss. & Durieu (1)	AJ233865		NA	NA	
<i>S. conifera</i> Coss. & Durieu (2)	LN812394		LN812628	NA	
<i>S. consanguinea</i> W.W.Sm.	LN812395		LN812629	LT971081	China, Xizang; G. & S. Miede & U. Wuendisch 94-344-12 (Germany: Marburg)
<i>S. continentalis</i> D.A.Webb	LN812396		LN812630	LT971082	Spain, Moncayo; A. Segura Zubizarreta (LE)
<i>S. contraria</i> Harry Sm. f. <i>rubella</i> Harry Sm.	LN812397		LN812631	LT971083	Bhutan, Gasa; G. & S. Miede 00-322-02 (Germany: Marburg)
<i>S. coriifolia</i> Grossh.	LN812398		LN812632	LT971084	Georgia, Abkhazia; E. Mordakh (LE)
<i>S. corsica</i> Gren. & Godron	LN812399		LN812633	LT971085	Italy, Sardinia; M. Röser 10171 (HAL)
<i>S. cortusifolia</i> Siebold & Zucc.	NA		LN812634	LT971086	Russia, Far East: Ostrov Falshivyy; E. Pobedimova & G. Konovalova (LE)
<i>S. corymbosa</i> Luce	LN812400		LN812635	LT971087	Romania, Jud. Hunedoara; M. Röser 9855 (HAL)
<i>S. cossoniana</i> (Boiss. & Reut.) D.A.Webb	AF261172		NA	NA	
<i>S. cotyledon</i> L.	LN812401		LN812636	LT971088	Spain, Prov. Huesca; M. Röser 10572 (HAL)
<i>S. crustata</i> Vest.	LN812402		LN812637	LT971089	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 79 (HAL)
<i>S. cuneata</i> Willd.	LN812403		LN812638	LT971090	Germany, cult. Brockengarten Harz (11-B-0134); N. Tkach 230 & M. Röser (HAL)
<i>S. cuneifolia</i> L.	LN812404		LN812639	LT971091	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 71 (HAL)
<i>S. cymbalaria</i> L.	LN812405		LN812640	LT971092	Russia, Krasnodarskiy kray; T.N. Popova & S.V. Bondarenko (LE)
<i>S. depressa</i> Sternb. (1)	AF261173		NA	NA	
<i>S. depressa</i> Sternb. (2)	NA	A, B	NA	NA	Italy, Belluno, Dolomites; G. Schneeweiss & P. Schönschwetter 5247 (WU)
<i>S. derbekii</i> Sipliv.	LN812406		LN812641	LT971093	Russia, Magadanskaya obl.; A.T. Reutt (LE)
<i>S. desoulavyi</i> Oett.	LN812407		LN812642	LT971094	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1353); N. Tkach 214 & M. Röser (HAL)
<i>S. diapiensoides</i> Bell.	LN812408		LN812643	LT971095	Germany, cult. Brockengarten Harz (2000-B-08); N. Tkach 231 & M. Röser (HAL)
<i>S. dichotoma</i> Willd. ex Sternb.	LN812409		LN812644	LT971096	Spain, Sierra de Pela; Rivas Goday (HAL0051497)
<i>S. dingqingensis</i> J.T.Pan	EU158857		NA	NA	
<i>S. dinnikii</i> Schmalh. ex Akinf.	LN812410		LN812645	NA	
<i>S. discolor</i> Velen.	LN812411	A	NA	LT971097	Bulgaria, Pirin; W. Hilbig (HAL0065463)
<i>S. diversifolia</i> Wall. ex Ser. var. <i>diversifolia</i>	LN812412		LN812646	LT971098	China, Sichuan; G. & S. Miede & U. Wuendisch 94-510-29 (Germany: Marburg)

<i>S. duthiei</i> Gand.	LN812413	LN812647	LT971099	Germany, cult. Brockengarten Harz (06-B-0111); N. Tkach 223 & M. Röser (HAL)
<i>S. egregia</i> Engl.	EU158836	NA	NA	
<i>S. engleriana</i> Harry Sm.	LN812414	LN812648	LT971100	China, Xizang; G. & S. Miehe 9541/03 (Germany: Marburg)
<i>S. erioblasta</i> Boiss. & Reut.	LN812415	LN812649	LT971101	Spain, Granada; M. Röser 3251 (HAL)
<i>S. eschscholtzii</i> Sternb. (1)	LN812416	LN812650	LT971102	Russia, Chukotka; P. Zhmylev, E.Yu. Norkina & T.V. Plieva (LE)
<i>S. eschscholtzii</i> Sternb. (2)	NA	LN812651	LT971103	USA, Alaska; M.H. Hoffmann 11/55 (HAL)
<i>S. exarata</i> Vill.	LN812417	LN812652	LT971104	Italy, Piemont; M. Röser 6547 (HAL)
<i>S. facchinii</i> W.D.J. Koch	LT970995	LT970894	LT971105	Italy, Belluno, Dolomites; C. Argenti (FIPF)
<i>S. federici-augusti</i> Biasoletti subsp.	LN812443	LN812678	LT971106	Germany, cult. Arctic-Alpine Garden Chemnitz (WR9905); N. Tkach 216 & M. Röser (HAL)
<i>grisebachii</i> (Degen & Dörf.) D.A. Webb				
<i>S. felineri</i> P.Vargas	LN812419	LN812654	LT971107	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1317); N. Tkach 207 & M. Röser (HAL)
<i>S. ferdinandi-coburgi</i> Kellerer & Sund.	LN812420	LN812655	LT971108	Germany, cult. Brockengarten Harz (05-B-0111); N. Tkach 232 & M. Röser (HAL)
<i>S. filicaulis</i> Wall. ex Ser.	LN812421	LN812656	LT971109	China, Xizang; Miehe 97-064-10, Huang, Otsu & Tunsu (Germany: Marburg)
<i>S. finitima</i> W.W.Sm.	LN812422	LN812657	LT971110	China, Xizang; G. Miehe & U. Wuendisch 94-118-03 (Germany: Marburg)
<i>S. firma</i> Litv. ex Losinsk. (1)	LN812423	NA	NA	
<i>S. firma</i> Litv. ex Losinsk. (2)	LN812424	LN812659	LT971111	Russia, Yakutia; Yu.P. Kozhevnikov & M.D. Andreeva (498) (LE)
<i>S. flagellaris</i> Willd. subsp. <i>crandallii</i> (Gand.) Hultén	LN812425	LN812660	LT971112	USA, Colorado; R.E. Brooks 20451 (NY)
<i>S. flagellaris</i> Willd. subsp. <i>crassiflagellata</i> Hultén	LN812426	LN812661	LT971113	Pakistan, Shinghai Gah to Pahot Gali; G. & S. Miehe 1008 (Germany: Marburg)
<i>S. flagellaris</i> Willd. subsp. <i>stenophylla</i> (Royle) Hultén	LN812427	NA	LT971114	Pakistan, Hunza Valley; G. & S. Miehe 6420 (Germany: Marburg)
<i>S. flexuosa</i> Sternb.	LN812516	LN812751	LT971115	Russia, Kamchatka; E. Hulten (LE)
<i>S. florulenta</i> Moretti	AF087621, AF087591	NA	NA	
<i>S. fortunei</i> Hook. var. <i>fortunei</i>	NA	LN812663	LT971116	Russia, Kunashir; E. Egorova & L. Kolchanova (LE)
<i>S. fortunei</i> Hook. var. <i>incisolobata</i> (Engl. & Irmisch.) Nakai.	LN812428	LN812662	LT971117	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1422); N. Tkach 215 & M. Röser (HAL)
<i>S. fragilis</i> Schrank (1)	LN812429	LN812664	NA	
<i>S. fragilis</i> Schrank (2)	AF261176	NA	NA	
<i>S. fragosoi</i> Sennen	LN812430	LN812665	LT971118	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1847); N. Tkach 206 & M. Röser (HAL)
<i>S. funstonii</i> (Small) Fedde (1)	LN812431	LN812666	LT971119	Russia, Sakhalin; A. Taran (LE)
<i>S. funstonii</i> (Small) Fedde (2)	LN812432	LN812667	LT971120	Russia, Chukotka; M.P. Andreev, E.Yu. Norkina & V.V. Petrovsky

<i>S. gemmiger</i> Engl. var. <i>gemmuligera</i> (Engl.) & Gornall	LN812433	LN812668	LT971121	(LE) China, Sichuan; G. & S. Miede & U. Wuendisch 94-390-09 (Germany: Marburg)
<i>S. gemmipara</i> Franch.	EU158859	NA	NA	
<i>S. gemmulosa</i> Boiss.	LN812434	LN812669	LT971122	Spain, Malaga; M. Röser 4738 (HAL)
<i>S. genesiana</i> P.Vargas	AF261178	NA	NA	
<i>S. georgei</i> J.Anthony	LN812435	LN812670	LT971123	Germany, cult. Brockengarten Harz (10-B-0080); N. Tkach 233 & M. Röser (HAL)
<i>S. geranioides</i> L.	LN812436	LN812671	LT971124	France, Pyrenees-Orient; M. Röser 10531 (HAL)
<i>S. globulifera</i> Desf. (1)	LN812437	LN812672	LT971125	Spain, Cadiz; M. Röser 4622 (HAL)
<i>S. globulifera</i> Desf. (2)	LN812438	LN812673	LT971126	Algeria, Chellala; V.P. Botschantzev (LE)
<i>S. gouldii</i> C.E.C.Fisch.	LN812439	LN812674	LT971127	Bhutan, Paro; G. & S. Miede 00-160-35 (Germany: Marburg)
<i>S. graeca</i> Boiss.	LN812440	LN812675	NA	
<i>S. granulata</i> L.	LN812441	LN812676	LT971128	Austria, Lower Austria; M. Röser 7437 (HAL)
<i>S. granulifera</i> Harry Sm.	LN812442	LN812677	LT971129	Bhutan, Paro; G. & S. Miede 00-160-14 (Germany: Marburg)
<i>S. haenseleri</i> Boiss. & Reut.	AF261180	NA	NA	
<i>S. hariotii</i> Luizet & Soulie	AF261181	NA	NA	
<i>S. hederacea</i> L. (1)	AF261182	NA	NA	
<i>S. hederacea</i> L. (2)	LN812444	LN812679	NA	
<i>S. heleonastes</i> Harry Sm.	LN812445	LN812680	LT971130	China, Xizang; G. & S. Miede 03-094-26 (Germany: Marburg)
<i>S. heterotricha</i> C.Marquand & Airy Shaw	LN812446	LN812681	LT971131	China, Xizang; G. Miede & U. Wuendisch 94-150-20 (Germany: Marburg)
<i>S. hirculoides</i> Decne. (2)	LN812574	LN812725	LT971075	Nepal, Dolpo; G. & S. Miede 99-046-09 (Germany: Marburg)
<i>S. hirculoides</i> Decne. (1)	LN812447	LN812682	LT971132	Pakistan, Upper Kaghan Valley; G. & S. Miede 570 (Germany: Marburg)
<i>S. hirculus</i> L. var. <i>hirculus</i> (1)	LN812449	LN812684	NA	
<i>S. hirculus</i> L. var. <i>hirculus</i> (2)	LN812450	LN812685	LT971133	Russia, Altai; M.H. Hoffmann (M36) (HAL)
<i>S. hirculus</i> L. var. <i>alpina</i> Engl.	LN812448	LN812683	LT971134	China, Xinjiang; G. & S. Miede 5780 (Germany: Marburg)
<i>S. hirsuta</i> L.	LM654415	LM654499	NA	
<i>S. hispidula</i> D.Don (1)	JN102237	NA	NA	
<i>S. hispidula</i> D.Don (2)	LN812451	LN812686	LT971135	Bhutan, Thimphu; G. & S. Miede 00-205-18 (Germany: Marburg)
<i>S. hookeri</i> Engl. & Irmsch.	EU158840	NA	NA	
<i>S. hostii</i> Tausch	LN812452	LN812687	LT971136	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 70 (HAL)
<i>S. hyperborea</i> R.Br.	LN812453	LN812688	LT971137	Russia, Chukotka; A.A. Korobkov (LE)
<i>S. hypnoides</i> L. (1)	LN812454	LN812689	LT971138	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 65 (HAL)
<i>S. hypnoides</i> L. (2)	LT970996	LT970895	LT971139	France, Pyrenees-Orient; M. Röser 10494 (HAL)

<i>S. implicans</i> Harry Sm.	LN812455		LN812690	LT971140	China, Xizang; G. & S. Mieke 10-27-02 (Germany: Marburg)
<i>S. insolens</i> Irmsch.	EU158841		NA	NA	
<i>S. intricata</i> Lapeyr.	AJ133030		NA	KJ774295	
<i>S. iranica</i> Bornm.	LN812456		LN812691	NA	
<i>S. irrigua</i> M.Bieb.	LN812457		LN812692	NA	
<i>S. isophylla</i> Harry Sm.	LN812458		LN812693	LT971141	China, Xizang; G. Mieke & U. Wuendisch 94-182-12 (Germany: Marburg)
<i>S. italica</i> D.A.Webb	LN812459	A	LN812694	NA	Italy, Gran Sasso; s. coll. (NEU346061)
<i>S. Jacquemontiana</i> Decne.	LN812460		LN812695	LT971142	Bhutan, Gasa; G. & S. Mieke 00-367-09 (Germany: Marburg)
<i>S. juniperifolia</i> Adams	LM654416		LM654500	LT971143	
<i>S. kingdonii</i> C.Marquand	LN812461		LN812696	LT971144	China, Xizang; G. Mieke & U. Wuendisch 94-173-10 (Germany: Marburg)
<i>S. kingiana</i> Engl. & Irmsch.	EU158851		NA	NA	
<i>S. kolenatiana</i> Regel	LN812462		LN812697	LT971145	Georgia, Caucasus; Z. Klochkova (LE)
<i>S. komarovii</i> Losinsk.	LN812463		LN812698	LT971146	Tajikistan, Pamir; N.N. Tzvelev (LE)
<i>S. korshinskii</i> Kom.	LM654417		LM654501	LT971147	
<i>S. kotschyi</i> Boiss.	LN812464		LN812699	LT971148	Germany, cult. Brockengarten Harz (10-B-0014); N. Tkach 235 & M. Röser (HAL)
<i>S. kruhsiana</i> Fisch. ex Ser.	LN812465		LN812700	LT971149	Russia, Chukotka; A.A. Korobkov & N.A. Sekretareva (LE)
<i>S. lactea</i> Turcz.	LN812466		LN812701	LT971150	Russia, Yakutia; V.V. Petrovsky (LE)
<i>S. latepetiolata</i> Willk. (1)	LN812467		LN812702	NA	
<i>S. latepetiolata</i> Willk. (2)	AF261183		NA	NA	
<i>S. latiflora</i> Hook.f. & Thomson	LN812468		LN812703	LT971151	Bhutan, Wangdue-Phodrang; G. & S. Mieke 00-421-04 (Germany: Marburg)
<i>S. lilacina</i> Duthie	LN812469		LN812704	LT971152	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 80 (HAL)
<i>S. lingulata</i> Bellardi	LN812470		LN812705	LT971153	Italy, Piemont; M. Röser 6664 (HAL)
<i>S. litangensis</i> Engl.	LN812471		LN812706	LT971154	China, Xizang; G. Mieke & U. Wuendisch 94-136-32 (Germany: Marburg)
<i>S. luteoviridis</i> Schott & Kotschy	LN812472		LN812707	LT971155	Germany, cult. Brockengarten Harz (11-B-0335); N. Tkach 236 & M. Röser (HAL)
<i>S. lychnitis</i> Hook.f. & Thomson	LN812473		LN812708	LT971156	Bhutan, Gasa; G. & S. Mieke 00-373-04 (Germany: Marburg)
<i>S. macrocalyx</i> Tolm.	LN812474		LN812709	LT971157	Russia, Altai; R.V. Kamelin et al. (LE)
<i>S. maderensis</i> D.Don	LN812475		NA	LT971158	Portugal, Madeira; K. Werner (HAL0079197)
<i>S. magellanica</i> Poir.	LN812476		LN812710	LT971159	Germany, cult. Botanical Garden Tuebingen (5539); N. Tkach 254 & M. Röser (HAL)
<i>S. marginata</i> Sternb. (1)	LN812478		LN812712	LT971160	Romania, Jud. Hunedoara; M. Röser 9695 (HAL)
<i>S. marginata</i> Sternb. (2)	LN812363		LN812597	LT971161	Germany, cult. Brockengarten Harz (98-B-2036); N. Tkach 229 & M.

<i>S. marginata</i> Sternb. var. <i>bubakii</i> (Rohlena) Horný	LN812477		LN812711	LT971162	Röser (HAL) Germany, cult. Arctic-Alpine Garden Chemnitz (s.n.); N. Tkach 217 & M. Röser (HAL)
<i>S. matta-florida</i> Harry Sm.	LN812479		LN812713	LT971163	Germany, cult. Brockengarten Harz (08-B-0111); N. Tkach 237 & M. Röser (HAL)
<i>S. mertensiana</i> Bong.	LM654418		LM654502	LT971164	
<i>S. moncayensis</i> D.A.Webb	LN812480		LN812714	LT971165	Germany, cult. Brockengarten Harz (02-B-0158); N. Tkach 238 & M. Röser (HAL)
<i>S. moorcroftiana</i> (Ser.) Wall. ex Sternb.	LN812482		LN812716	LT971166	Bhutan, Paro; G. & S. Miehe 00-177-02 (Germany: Marburg)
<i>S. moschata</i> Wulfen	LN812483		LN812717	LT971167	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 82 (HAL)
<i>S. mucronulata</i> Royle	LN812484		LN812718	LT971168	China, Xizang; G. Miehe & U. Wuendisch 94-251-15 (Germany: Marburg)
<i>S. mucronulatoides</i> J.T.Pan	LN812485		LN812719	LT971169	Bhutan, Gasa; G. & S. Miehe 00-320-04 (Germany: Marburg)
<i>S. mutata</i> L.	LN812486		LN812720	LT971170	Italy, Lombardia; M. Röser 10412 (HAL)
<i>S. nanella</i> Engl. & Irmsch.	LN812487		LN812721	LT971171	China, Qinghai; G. & S. Miehe 9388/17 (Germany: Marburg)
<i>S. nangxianensis</i> J.T.Pan	EU158850		NA	NA	
<i>S. nevadensis</i> Boiss.	LN812488		LN812722	LT971172	Spain, Granada; M. Röser 3313 (HAL)
<i>S. nigroglandulifera</i> N.P.Balacr.	NA		LN812723	NA	
<i>S. nipponica</i> Makino	LN812489		LN812724	LT971173	Japan, Honshu; M. Togasi 1707 (LE)
<i>S. nishidae</i> Miyabe & Kudô	KF196324		KF196383	NA	
<i>S. omolajensis</i> A.P.Khokhr. (1)	LN812490		LN812726	LT971174	Russia, Magadanskaya obl.; A.T. Reutt (LE)
<i>S. omolajensis</i> A.P.Khokhr. (2)	LN812491		NA	NA	
<i>S. oppositifolia</i> L. (1)	AY354299		AF374782	NA	
<i>S. oppositifolia</i> L. (2)	LM654419		LM654503	LT971175	
<i>S. oppositifolia</i> L. subsp. <i>oppositifolia</i>	NA		LN812727	NA	
<i>S. oppositifolia</i> L. subsp. <i>asiatica</i> (Hayek) Engl. & Irmsch. (1)	LN812492		LN812728	NA	
<i>S. oppositifolia</i> L. subsp. <i>asiatica</i> (Hayek) Engl. & Irmsch. (2)	NA		LN812729	NA	
<i>S. oppositifolia</i> L. subsp. <i>smalliana</i> (Engl. & Irmsch.) Hultén	AF504544		NA	NA	
<i>S. osloensis</i> Knaben (1)	LN812493	A	LN812730	NA	Germany, cult. Botanical Garden Berlin; Schwerdtfeger 12431 (B100550421)
<i>S. osloensis</i> Knaben (2)	AF087638, AF087608		AF374788	NA	
<i>S. paniculata</i> Mill.	LN812494		LN812731	LT971176	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 66 (HAL)
<i>S. paradoxa</i> Sternb.	LN812495		LN812732	LT971177	Austria, Carinthia; R. Freiherr von Benz 3095 (HAL0021485)

<i>S. parnassifolia</i> D.Don	LN812496	LN812733	LT971178	Bhutan, Thimphu; G. & S. Miehe 00-223-28 (Germany: Marburg)
<i>S. pedemontana</i> All. subsp. <i>cymosa</i> Engl.	LN812497	LN812734	LT971179	Romania, Jud. Hunedoara; M. Röser 9674 (HAL)
<i>S. pentadactylis</i> Lapeyr. (1)	LN812498	LN812735	LT971180	France, Pyrenees-Orient; M. Röser 10552 (HAL)
<i>S. pentadactylis</i> Lapeyr. (2)	LN812499	LN812736	LT971181	Spain, Pico de San Lorenz; A. Segura Zubizarreta (LE)
<i>S. pentadactylis</i> Lapeyr. subsp. <i>willkommiana</i> Rivas Mart.	AY354308	NA	NA	
<i>S. peplidifolia</i> Franch.	EU158843	NA	NA	
<i>S. perpusilla</i> Hook.f. & Thomson	LN812500	LN812737	LT971182	Bhutan, Gasa; G. & S. Miehe 00-364-01 (Germany: Marburg)
<i>S. petraea</i> L.	LN812501	LN812738	LT971183	Italy, Verona; M. Röser 10236 (HAL)
<i>S. pilifera</i> Hook.f. & Thomson	LN812502	LN812739	LT971184	China, Xizang; G. Miehe & U. Wuendisch 94-105-28 (Germany: Marburg)
<i>S. platysepala</i> (Trautv.) Tolm.	LN812503	LN812740	LT971185	Russia, Wrangel Island; V.V. Petrovsky (LE)
<i>S. pontica</i> Albov	LN812504	NA	NA	
<i>S. porophylla</i> Bertol.	LN812505	LN812741	LT971186	Germany, cult. Brockengarten Harz (99-B-2078); N. Tkach 239 & M. Röser (HAL)
<i>S. portosanctana</i> Boiss.	AJ233883	NA	NA	
<i>S. praetermissa</i> D.A.Webb (1)	LN812506	LN812742	LT971187	Spain, Prov. Huesca; M. Röser 10584 (HAL)
<i>S. praetermissa</i> D.A.Webb (2)	LT970997	A	LT970896	LT971188 France, Pyrenees-Orient; M. Röser 10612 (HAL)
<i>S. presolanensis</i> Engl.	LN812507	LN812743	NA	
<i>S. przewalskii</i> Engl.	LN812508	LN812744	NA	
<i>S. pseudohirculus</i> Engl.	LN812509	LN812745	LT971189	China, Xizang; G. & S. Miehe & U. Wuendisch 94-332-05 (Germany: Marburg)
<i>S. pseudolaervis</i> Oett.	LN812510	NA	NA	
<i>S. pubescens</i> Pourr. subsp. <i>iratiana</i> (F.W.Schultz) Engl. & Irmsch.	LN812511	LN812746	LT971190	Germany, cult. Brockengarten Harz (04-B-213); N. Tkach 240 & M. Röser (HAL)
<i>S. pulvinaria</i> Harry Sm.	LN812512	LN812747	NA	
<i>S. punctulata</i> Engl.	LM654420	LM654504	LT971191	
<i>S. radiata</i> Small (1)	LN812513	LN812748	LT971192	USA, Alaska; E. Hulten (LE)
<i>S. radiata</i> Small (2)	LN812418	LN812653	LT971193	Russia, Yakutia; V.V. Petrovsky, T.M. Koroleva & M.P. Andreev (LE)
<i>S. retusa</i> Gouan subsp. <i>augustana</i> (Vacc.) F.Fournier	LN812514	LN812749	LT971194	Germany, cult. Brockengarten Harz (11-B-0145); N. Tkach 241 & M. Röser (HAL)
<i>S. reuteriana</i> Boiss.	AJ233877	NA	NA	
<i>S. rigoi</i> Freyn ex Porta.	AJ233878	NA	NA	
<i>S. rivularis</i> L. subsp. <i>rivularis</i>	LN812517	LN812752	LT971195	Russia, Chukotka; V.A. Gavriljuk & P.K. Gagarin (LE)
<i>S. rivularis</i> L. subsp. <i>arctolitoralis</i> (Jurtzev & V.V.Petrovsky) H.Jørg. & Elven	LN812515	LN812750	LT971196	Russia, Yakutia; T.M. Zaslavskaya, I.M. Litvinov & T.V. Plieva (LE)
<i>S. rosacea</i> Moench	LN812518	LN812753	LT971197	Germany, Bavaria; M. Röser 1115 (HAL)
<i>S. rotundifolia</i> L.	LN812519	LN812754	LT971198	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 68

<i>S. roylei</i> Harry Sm.	LN812520		LN812755	LT971199	(HAL) Germany, cult. Brockengarten Harz (02-B-0041); N. Tkach 227 & M. Röser (HAL)
<i>S. rufescens</i> Balf.f.	LN812521		LN812756	NA	
<i>S. ruprechtiana</i> Manden.	NA		LN812757	LT971200	Russia, Dagestan; N.N. Tzvelev & et al. (LE)
<i>S. saginoides</i> Hook.f. & Thomson	LN812522		LN812758	LT971201	Bhutan, Gasa; G. & S. Miehe 00-361-11 (Germany: Marburg)
<i>S. sancta</i> Griseb.	LN812523		LN812759	LT971202	Greece, Nomos Kavalas; M. Röser 2700 (HAL)
<i>S. sanguinea</i> Franch.	EU158849		NA	NA	
<i>S. scardica</i> Griseb.	LN812524		LN812760	LT971203	Germany, cult. Brockengarten Harz (11-B-0144); N. Tkach 242 & M. Röser (HAL)
<i>S. scleropoda</i> Sommier & Levier	LN812525		NA	NA	
<i>S. sediformis</i> Engl. & Irmsch.	LN812526		NA	LT971204	China, Yunnan; J. F. Rock 9833 (LE)
<i>S. sedoides</i> L. subsp. <i>hohenwartii</i> (Vest & Sternb.) P.Schwarz	LN812527		LN812761	LT971205	Italy, Lombardia; M. Röser 10442 (HAL)
<i>S. seguieri</i> Spreng. (1)	LN812528		LN812762	LT971206	Switzerland, Wallis; M. Röser 1469 (HAL)
<i>S. seguieri</i> Spreng. (2)	LN812350		LN812584	LT971207	Italy, Lombardia; M. Röser 6935 (HAL)
<i>S. seguieri</i> Spreng. (3)	NA	A, B	NA	NA	Austria, North Tyrol; L. Schratt (WU0002766)
<i>S. sempervivum</i> C.Koch	LN812529		LN812763	LT971208	Germany, cult. Botanical Garden Tuebingen; N. Tkach 255 & M. Röser (HAL)
<i>S. serpyllifolia</i> Pursh subsp. <i>glutinosa</i> (Sipliv.) Kozhevnik.	LN812530		LN812764	LT971209	Russia, Taymyr; Yu.P. Kozhevnikov (LE)
<i>S. serpyllifolia</i> Pursh subsp. <i>serpyllifolia</i> Pursh	LN812531		LN812765	LT971210	Russia, Chukotka; B.A. Jurtzev (LE)
<i>S. setigera</i> Pursh	LM654421		LM654505	LT971211	
<i>S. sibirica</i> L.	LN812532		LN812766	LT971212	Russia, Altai; M. Mikhailova (LE)
<i>S. sibthorpii</i> Boiss.	LN812533		LN812767	NA	
<i>S. sieversiana</i> Sternb.	LM654422		LM654506	NA	
<i>S. signatella</i> C.Marquand	LN812534		LN812768	LT971213	China, Xizang; G. Miehe & U. Wuendisch 94-167-11 (Germany: Marburg)
<i>S. sinomontana</i> J.T.Pan & Gornall (1)	LN812480		LN812715	LT971214	Bhutan, Gasa; G. & S. Miehe 00-329-02 (Germany: Marburg)
<i>S. sinomontana</i> J.T.Pan & Gornall (2)	LN812535		LN812769	LT971215	China, Xizang; G. & S. Miehe & U. Wuendisch 94-300-35 (Germany: Marburg)
<i>S. spathularis</i> Brot. (1)	AF087626, AF087596		NA	NA	
<i>S. spathularis</i> Brot. (2)	LN812536		LN812770	LT971216	Portugal, Beira Alta; M. Röser 9430 (HAL)
<i>S. spinulosa</i> Adams	LN812537		LN812771	NA	
<i>S. spruneri</i> Boiss.	LN812538		LN812772	LT971217	Germany, cult. Brockengarten Harz (94-B-917A); N. Tkach 243 & M. Röser (HAL)
<i>S. squarrosa</i> Sieber	AF087617,		NA	NA	

	AF08758				
<i>S. stella-aurea</i> Hook.f. & Thomson var. <i>polyadena</i> Harry Sm.	LN812539		LN812773	LT971218	China, Qinghai; G. & S. Miehe 9436/05 (Germany: Marburg)
<i>S. stelleriana</i> Merk ex Ser.	KF196359		KF196388	NA	
<i>S. stolitzkae</i> Duthie ex Engl. & Irmsch.	LN812540		LN812774	LT971219	Germany, cult. Brockengarten Harz (92-B-214A); N. Tkach 244 & M. Röser (HAL)
<i>S. stolonifera</i> Meerb.	LN812541		LN812775	LT971220	Germany, cult. Botanical Garden Tuebingen; N. Tkach 256 & M. Röser (HAL)
<i>S. stribnyi</i> Podp.	LN812542		LN812776	LT971221	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1388); N. Tkach 218 & M. Röser (HAL)
<i>S. strigosa</i> Wall. et Ser. var. <i>ramosa</i> (Engl. & Irmsch.) H.Chuang	JN102240		JN102289	NA	
<i>S. styriaca</i> Köckinger (1)	LT971388	A, B	LT970867	LT969525	Austria, Eastern Alps, Styria, Lower Tauern; N.N. Sst_2.1 (KRAM)
<i>S. styriaca</i> Köckinger (2)	LT971389	A, B	LT970868	LT969526	Austria, Eastern Alps, Styria, Lower Tauern; N.N. Sst_2.3 (KRAM)
<i>S. styriaca</i> Köckinger (3)	LT970998	A, B, C	LT970897	LT969527	Austria, Eastern Alps, Styria, Lower Tauern; S. Ertl Sst_G31.1 (KRAM0636267)
<i>S. styriaca</i> Köckinger (4)	LT970999	A, B, C	LT970898	LT969528	Austria, Eastern Alps, Styria, Lower Tauern; S. Ertl Sst_G31.4 (KRAM0636267)
<i>S. substrigosa</i> J.T.Pan	NA		LN812778	LT971222	China, Xizang; G. Miehe & U. Wuendisch 94-177-23 (Germany: Marburg)
<i>S. subverticillata</i> Boiss.	LN812543		LN812777	LT971223	Germany, cult. Botanical Garden Muenchen-Nymphenburg (GE-0-M-2009/2412); N. Tkach 262 & M. Röser (HAL)
<i>S. tangutica</i> Engl.	LN812544		LN812779	LT971224	China, Xizang; G. Miehe & U. Wuendisch 94-099-20 (Germany: Marburg)
<i>S. tatsienluensis</i> Engl.	EU158845		NA	NA	
<i>S. taygetea</i> Boiss. & Heldr.	LN812545		LN812780	NA	
<i>S. taylorii</i> Calder & Savile	LN812546		LN812781	LT971225	Canada, British Columbia; J.A. Calder, D.B.O. Savile & R.L. Taylor 23085 (NY)
<i>S. tenella</i> Wulfen (1)	LN812548		LN812783	LT971226	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 69 (HAL)
<i>S. tenella</i> Wulfen (2)	LN812547		LN812782	LT971227	Germany, cult. Botanical Garden Tuebingen; N. Tkach 257 & M. Röser (HAL)
<i>S. terektensis</i> Bunge	LN812549		LN812784	LT971228	Russia, Sayan Mountains; A. Kuminova, N. Peshkova & S. Linde (LE)
<i>S. thessalica</i> Schott, Nym. & Kotschy	LN812550		LN812785	LT971229	Germany, cult. Brockengarten Harz (95-B-1154A); N. Tkach 245 & M. Röser (HAL)
<i>S. tibetica</i> Losinsk.	LN812551		LN812786	LT971230	China, Qinghai; G. & S. Miehe 9378/06 (Germany: Marburg)
<i>S. tombeanensis</i> Boiss. ex Engl.	LN812552		LN812787	NA	
<i>S. trabutiana</i> Engl. & Irmsch.	LN812553		NA	NA	
<i>S. tricuspidata</i> Rottb. (1)	LN812554		LN812788	LT971231	Germany, cult. Rennsteiggarten (3/85/338); N. Tkach 205 & M. Röser (HAL)

<i>S. tricuspidata</i> Rottb. (2)	LN812555		LN812789	LT971232	USA, Alaska; M.H. Hoffmann 11/22 (HAL)
<i>S. tridactylites</i> L. (1)	LN812556	A	LN812790	LT971233	Germany, Baden-Wuerthemberg; M. Röser 9927 (HAL)
<i>S. tridactylites</i> L. (2)	LT971000	A, B	LT970899	LT971234	Turkmenistan, Kopet-Dag; V.V. Nikitin & M. Batyrova (LE)
<i>S. trifurcata</i> Schrad.	LN812557		LN812791	LT971235	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1309); N. Tkach 220 & M. Röser (HAL)
<i>S. umbellulata</i> Hook.f. & Thomson var. <i>umbellulata</i>	LN812559		LN812793	LT971236	China, Xizang; G. Mieke & U. Wuendisch 94-156-26 (Germany: Marburg)
<i>S. umbellulata</i> Hook.f. & Thomson var. <i>muricola</i> (C.Marquand & Airy Shaw) J.T.Pan	LN812558		LN812792	LT971237	China, Xizang; G. Mieke & U. Wuendisch 94-055-20 (Germany: Marburg)
<i>S. umbellulata</i> Hook.f. & Thomson var. <i>pectinata</i> (C.Marquand & Airy Shaw) J.T.Pan	EU158832		NA	NA	
<i>S. umbrosa</i> L.	LN812560		LN812794	LT971238	Germany, cult. Botanical Garden MLU Halle-Wittenberg; N. Tkach 72 (HAL)
<i>S. unguiculata</i> Engl.	LN812561		LN812795	LT971239	China, Xizang; G. & S. Mieke 9497/17 (Germany: Marburg)
<i>S. unguipetala</i> Engl. & Irmsch.	LN812562		LN812796	NA	
<i>S. valdensis</i> DC. (1)	LN812563		LN812797	NA	
<i>S. valdensis</i> DC. (2)	AF087612, AF087582		NA	NA	
<i>S. vandellii</i> Sternb.	LN812564		LN812798	LT971240	Germany, cult. Brockengarten Harz (07-B-0031); N. Tkach 247 & M. Röser (HAL)
<i>S. vayredana</i> Luizet	LN812565		LN812799	LT971241	Germany, cult. Botanical Garden Muenchen-Nymphenburg (XX-0-MG/0019); N. Tkach 248 & M. Röser (HAL)
<i>S. veitchiana</i> Balf.f.	LN812566		LN812800	LT971242	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1366); N. Tkach 221 & M. Röser (HAL)
<i>S. vespertina</i> (Small) Fedde	KF196350		KF196392	NA	
<i>S. viscidula</i> Hook.f. & Thomson	LN812567		LN812801	NA	
<i>S. wahlenbergii</i> Ball (1)	LN812568		LN812802	NA	
<i>S. wahlenbergii</i> Ball (2)	LT971003	A, B, C	LT970902	LT969537	Poland, Carpathians, Western Tatras; R.Letz, P. Mraz (KRAM0636268) SWA_747.2
<i>S. wahlenbergii</i> Ball (3)	LT971002	A, B	LT970901	LT969536	Poland, Carpathians, High Tatras; M. Ronikier (KRAM0636266) SWA_648.1
<i>S. wahlenbergii</i> Ball (4)	NA	A, B	NA	LT969536	Poland, Carpathians, High Tatras; M. Ronikier (KRAM) SWA_648.2
<i>S. wahlenbergii</i> Ball (5)	LT971006	A, B, C	LT970904	LT969529	Poland, Carpathians, High Tatras; A. Delimat (KRAM) SWA_K1
<i>S. wahlenbergii</i> Ball (6)	LT971008	A	LT970906	LT969531	Poland, Carpathians, Western Tatras; A. Delimat (KRAM) SWA_P1
<i>S. wahlenbergii</i> Ball (7)	LT971009		LT970907	LT969532	Slovakia, Carpathians, Little Fatra; M. Ronikier (KRAM) SWA_R1
<i>S. wahlenbergii</i> Ball (8)	LT971010	A	LT970908	LT969533	Slovakia, Carpathians, Little Fatra; M. Ronikier (KRAM) SWA_R5
<i>S. wahlenbergii</i> Ball (9)	LT971004	A, B	LT970903	LT969538	Slovakia, Carpathians, Lower Tatras; R. Letz, P. Turis

<i>S. wahlenbergii</i> Ball (10)	LT971007	A, B	LT970905	LT969530	(KRAM0636261) SWA_846.2 Poland, Carpathians, High Tatras; A. Delimat (KRAM) SWA_M1
<i>S. wahlenbergii</i> Ball (11)	LT971001	A	LT970900	LT969535	Slovakia, Carpathians, Choč Mountains; M. Ronikier (KRAM) SWA_V10
<i>S. wahlenbergii</i> Ball (12)	LT971005		NA	LT971243	Slovakia, Carpathians, Belianske Tatras; M. Deyl (HAL0010087)
<i>S. wahlenbergii</i> Ball (13)	LT971011	A, B	LT970909	LT969534	Slovakia, Carpathians, Choč Mountains; M. Ronikier (KRAM) SWA_V9
<i>S. wahlenbergii</i> Ball (14)	LT971390	A, B, C	LT970866	LT969524	Slovakia, Carpathians, High Tatras; M. Ronikier (KRAM) SWA_H1
<i>S. wallichiana</i> Sternb.	LN812569		LN812803	LT971244	Bhutan, Thimphu; G. & S. Miehe 00-228-31 (Germany: Marburg)
<i>S. wardii</i> W.W.Sm.	LN812570		LN812804	LT971245	China, Xizang; G. Miehe & U. Wuendisch 94-173-07 (Germany: Marburg)
<i>S. wendelboi</i> Schönb.-Tem.	LN812571		LN812805	LT971246	Germany, cult. Arctic-Alpine Garden Chemnitz (AC-1524); N. Tkach 222 & M. Röser (HAL)
<i>S. xiaozhongdianensis</i> J.T.Pan	EU158835		NA	NA	
<i>S. yarlungzangboensis</i> J.T.Pan	LN812572		LN812806	LT971247	China, Xizang; G. Miehe & U. Wuendisch 94-166-06 (Germany: Marburg)
<i>S. zhidoensis</i> J.T.Pan	EU158862		NA	NA	
<i>S. zimmermannii</i> Baehni	LN812573		LN812807	LT971248	Nepal, Langtang Valley; U. Wuendisch 278 (Germany: Marburg)
<i>Saxifragodes albowiana</i> (Kurtz ex Albov) D.M.Moore	AF374825, AF374826		NA	NA	
<i>Saxifragopsis fragarioides</i> (Greene) Small	JQ895204		AF374815	NA	
<i>Suksdorfia violacea</i> A.Gray	U51257		NA	NA	
<i>Sullivantia oregana</i> S.Watson	U51258		AF374811	NA	
<i>Tanakaea radicans</i> Franchet & Savatier	U51263		AF374813	NA	
<i>Telesonix heucheriformis</i> (Rydb.) Rydb.	U51260		AF374807	NA	
<i>Tellima grandiflora</i> (Pursh) Douglas ex Lindl.	AF158952		AF374805	KT755743	
<i>Tiarella polyphylla</i> D.Don	AB163608, AB163671		AB116717	NA	
<i>Tolmiea menziesii</i> (Pursh) Torr. & A.Gray	AB248857		AF374803	KT755744	

¹ Xiang C-L, Gitzendanner MA, Soltis DE, Peng H, Lei L.G. Phylogenetic placement of the enigmatic and critically endangered genus *Saniculiphyllum* (Saxifragaceae) inferred from combined analysis of plastid and nuclear DNA sequences. *Molec Phylogen Evol.* 2012;64: 357-367. doi:10.1016/j.ympev.2012.04.010