

Appendix. Specimens of the genus *Fissidens* used for DNA studies of GenBank accession numbers. The expanded plastid sequences *trnS-F* are marked with asterisk (*).

Species	isolate	Locality	Voucher	ITS	trnL-F / L-S*
<i>F. arcticus</i>	OK354	Russia, Yakutia	Ignatov s.n., 17 Aug 2000 (MHA)	OR521046	--
<i>F. arnoldii</i>	OK469	Russia, Ryzan	Volosnova, 2010, #26 (MHA)	OR484263	OR478524*
<i>F. arnoldii</i>	OK470	Russia, Kaluga,	Ignatov, 18 June 1988 (MHA)	OR484264	OR478505
<i>F. arnoldii</i>	OK2919	Russia, Moscow	Ishchenko s.n., 2022 (MHA)	OR521040	OR478504
<i>F. bryoides</i>	OK948	Russia, Moscow	Donskov s.n., 31 May 2008 (MHA)	OR484265	--
<i>F. bryoides</i>	OK1668	Finland	K. Pihlaja & T. Marsh s.n., 23 Sept 2014 (TUR, MHA)	OR484266	OR478495
<i>F. bryoides</i>	OK329	Russia, Moscow	Ignatova s.n. 24 June 2009 (MW)	OR484267	OR478494
<i>F. bryoides</i>	OK344	Russia, Moscow	Ignatov s.n., 29 May 1987 (MHA)	OR521048	OR478496
<i>F. bryoides</i>	OK900	Russia, Kostroma	Donskov, s.n. 25 July 2008 (MHA)	OR484268	--
<i>F. crassipes</i>	OK3567	Ukraine, Mokolaiiv	Bryophytes Ukraine Exs. #8, Nyporko 28 Sept. 2003 (MHA9052893)	OR484270	--
<i>F. crassipes</i>	OK3568	Georgia, Abkhazia	Ignatov 1987 (MHA)	OR484271	--
<i>F. crassipes</i>	OK479	UK, Wales	Ignatov, s.n. 8 Sept 2004 (MHA)	OR484272	OR478518
<i>F. curvatus</i>	OK401	Russia, Primorsky	Malashkina, 22 Sept 2011 (MHA)	--	OR478492
<i>F. curvatus</i>	OK462	Russia, N. Caucasus,	Ignatov s.n., 23 Aug 1999 (MHA)	--	OR478493
<i>F. gracilifolius</i>	OK726	Russia, Moscow	Ignatov, s.n., Sept.2014 (MHA)	OR484257	OR478519*
<i>F. gracilifolius</i>	OK460	Russia, Dagestan	Ignatov, 11-123 (MHA)	OR484258	--
<i>F. gymnanthus</i>	OK332	Russia, Tatarstan	Ignatov & Ignatova s.n. 17.VIII.2003 (MW)	OR484273	--
<i>F. gymnanthus</i>	OK385	Russia, Kamchatka	Czernyadjeva, s.n. 9 Aug 2004 (LE, MHA)	OR484274	OR478510
<i>F. gymnanthus</i>	OK896	Russia, Ryazan	Volosnova s.n. 18 Nov 2002 (MW)	OR484275	OR478512
<i>F. gymnanthus</i>	OK899	Russia, Tatarstan	Ignatov & Ignatova s.n., 17 Aug 2003 (MHA)	--	OR478513
<i>F. gymnanthus</i>	OK965	Russia, Kostroma	Smirnova, s.n. 16 July 2003 (MW)	OR521039	OR478511
<i>F. lateralis</i>	OK3551	Russia, Primorsky	Fedosov et al. 14 Aug. 2022 (MW, MHA)	OR484276	OR478520*
<i>F. monguillonii</i>	OK3573	France, Allier	Hugonnot, s.n., 1 July 2022 (Hugonnot herbarium, dupl.MHA)	OR484277	OR478521*
<i>F. monguillonii</i>	OK3580	France, Sarthe, Chémiré en Charnie	Hugonnot, 31 Dec 2004 (Hugonnot herbarium, dupl. MHA)	OR484278	--
<i>F. mosquensis</i>	OK3511	Russia, Bashkortostan	Zolotov, 10-86 (MHA)	OR521036	OR478498
<i>F. mosquensis</i>	OK950	Russia, Kaluga	Ignatov, s.n. 20 May 2007 (MHA)	OR484279	OR478497
<i>F. mosquensis</i>	OK3555	Russia, Moscow	Ignatov & Ignatova 23-1	OR484280	OR478525*
<i>F. mosquensis</i>	OK952	Russia, Smolensk	Ignatov, s.n. 16 July 2004 (MHA)	OR521038	OR478499
<i>F. pusillus</i>	OK1671	Finland	T.Häyha, s.n. 11 July 2000 (TUR, MHA)	OR521037	--
<i>F. pusillus</i>	OK928	Russia, Murmansk	Kozhin, s.n. 19 Aug 2014 (MHA)	OR484281	OR478523*
<i>F. rivularis</i>	OK3575	France, Auvergne	Hugonnot, s.n., 2 Dec 2006 (Hugonnot herbarium, dupl.MHA)	OR484282	--
<i>F. rivularis</i>	OK3577	France, Aveyron	Hugonnot, s.n., 7 March 2017 (Hugonnot herbarium, dupl.MHA)	OR484283	--
<i>F. rivularis</i>	OK3513	Georgia, Adjaria	Zundorf 26174 (MHA)	OR484284	OR478526*
<i>F. rivularis</i>	OK495	Russia, Krasnodar	Ignatov & Ignatova 12-138 (MHA)	OR484285	OR478517
<i>F. viridulus</i> 'caucasicus'	OK962	Russia, Dagestan	Ignatov, 09-5099 (MHA)	OR484296	OR478502
<i>F. viridulus</i> 'caucasicus'	OK498	Russia, Kabardino- Balkarian Rep.,	Ignatov et al., 05-1931 (MHA)	OR521047	--
<i>F. viridulus</i> 'caucasicus'	OK499	Russia, Dagestan	Ignatov, 11-419 (MHA)	OR484295	OR478503
<i>F. viridulus</i> 'kamchaticus'	OK357	Russia, Sakhalin	Pisarenko, op03146 (NSK2003146, MHA)	OR521041	--
<i>F. viridulus</i> 'kamchaticus'	OK386	Russia, Kamchatka	Czernyadjeva, s.n. 22 July 2003 (LE)	OR484286	OR478522*
<i>F. viridulus</i> 'kamchaticus'	OK481	Russia, Sakhalin	Pisarenko, 03147 (NSK, dupl. MHA)	--	OR478501
<i>F. viridulus</i> 'kamchaticus'	OK464	Russia, Sakhalin	Ignatov & Teleganova 06-872 (MHA)	OR484287	OR478500
<i>F. viridulus</i> 'orientalis'	OK480	Russia, Altai,	Ignatov, 7/99 (MHA)	OR484290	--
<i>F. viridulus</i> 'orientalis'	OK904	Russia, Primorsky	Malashkina, 31 Aug 2013 (MHA)	OR521042	--
<i>F. viridulus</i> 'orientalis'	OK754	Russia, Khabarovk	Ignatov & Ignatova 13-719 (MHA)	OR484288	OR478514
<i>F. viridulus</i> 'orientalis'	OK3505	Russia, Bashkortostan	Ignatova 11/175 (MHA)	OR484289	OR478515
<i>F. viridulus</i> 'orientalis'	OK750	Russia, Zabaikalsky	Afonina, 17 July 2005, #1505 (LE, MHA)	OR484291	OR478516
<i>F. viridulus</i> 'sibiricus'	OK485	Russia, Primorskiy	Ignatov, 07-466 (MHA)	OR484292	OR478509
<i>F. viridulus</i> 'sibiricus'	OK766	Russia, Novosibirsk	Pisarenko, 01951 (NSK, dupl. MHA)	OR484293	OR478508
<i>F. viridulus</i> 'sibiricus'	OK914	Russia, Vologda Prov.	Ignatov, s.n, 16 Aug 2001 (MHA)	OR484294	--
<i>F. viridulus</i> 'sibiricus'	OK468	Russia, Yakutia	Ignatov & Ignatova, 11-3131 (MHA)	OR484260	--
<i>F. viridulus</i> 'sibiricus'	OK484	Russia, Krasnoyarsk	Fedosov, 08-262 (MHA)	OR484261	--
<i>F. viridulus</i> 'sibiricus'	OK352	Russia, Nizhny Novgorod	Ignatov, 11 Sept 1999 (MHA)	OR521044	--
<i>F. viridulus</i> 'sibiricus'	OK1672	Finland	Huttunen s.n., 31 Aug 2016 (TUR, MHA)	OR484259	--
<i>F. viridulus</i> 'sibiricus'	OK3510	Russia, Khabarovsk	Ignatov & Ignatova 13-171 (MHA9021960)	OR521043	OR478507
<i>F. viridulus</i> 'sibiricus'	OK490	Russia, Yakutia	Ignatov, 11-3814 (MHA)	OR484262	OR478506