

Title: **Plastid super-barcodes as a tool for species discrimination in feather grasses (Poaceae: *Stipa*)**

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Supplementary Information

Supplementary Table S1. Specimens used in the study, sequence length and GenBank accession numbers.

Taxon	Section	Country	Voucher	Sequence length [bp]	GB accession number
<i>Stipa</i> × <i>alaica</i> Pazij	<i>Smirnovia</i>	Kyrgyzstan	40 km W of Sary-Tash, 2942 m, 3 Jul 2015, <i>M. Nobis</i> , <i>A. Nowak</i> (KRA); S/7/10	137 850	MG052614
<i>S. arabica</i> Trin. & Rupr.	<i>Barbatae</i>	Kyrgyzstan	Toktogul, 5 July 2013, <i>M. Nobis</i> & <i>A. Nowak</i> (KRA); S/61/4	137 757	MG052596
<i>S. borysthena</i> Klok.	<i>Stipa</i>	Poland	Gryfino, Dolna Odra, <i>A. Popiela</i> (SZUB); S/74/3	137 825	MG052597
<i>S.</i> × <i>brevicallosa</i> M. Nobis	<i>Smirnovia</i>	Tajikistan	Zeravshan Mts, Mogien settl., 25 May 2015, <i>M. Nobis</i> , <i>A. Nowak</i> (KRA); S/15/4	137 850	MG052615
<i>S. capillata</i> L.	<i>Leiostipa</i>	Russia	Tyva Resp., 9 Jul 2007, <i>P. Shavrova</i> (KRA); S/4/2	137 830	MG052598
<i>S. capillata</i> L.	<i>Leiostipa</i>	Georgia	10 km N of Akhalkalaki (on road to Bakyriani), 27 Jul 1982, <i>Rusanovich</i> (KRA); S/4/3	137 835	MG052599
<i>S. caucasica</i> Schmalh.	<i>Smirnovia</i>	Kazakhstan	150 km W of Almaty, 18 May 2014, <i>M. Nobis</i> , <i>P. Gudkova</i> (KRA); S/53/1	137 798	MG052600
<i>S. caucasica</i> Schmalh.	<i>Smirnovia</i>	Kyrgyzstan	Dzhel-Aryk, 16 Jun 2013, <i>M. Nobis</i> , <i>A.</i>	137 800	MG052601

			<i>Nowak</i> (KRA); S/53/4		
<i>S. glareosa</i> P.A. Smirn.	<i>Smirnovia</i>	Russia	Baical, 21 Jul 2013, <i>A.L. Ebel</i> (KRA); S/49/9	137 602	MG052602
<i>S. hohenackeriana</i> Trin. & Rupr.	<i>Barbatae</i>	Tajikistan	Zeravshan Mts, Mogien, 27 May 2015, <i>M. Nobis</i> , <i>A.</i> <i>Nowak</i> (KRA); S/13/2	137 753	MG052603
<i>S. jagnobica</i> Ovcz. & Czuk.	<i>Leiostipa</i>	Tajikistan	0.5 km E of Serimadarun Lake, 2320 m, 30 May 2015, <i>M. Nobis</i> ; (KRA); S/9/4	137 827	MG052604
<i>S. lessingiana</i> Trin. & Rupr.	<i>Subbarbatae</i>	Kazakhstan	40 km NW of Almaty, 690 m a.s.l., 22 May 2014, <i>M.</i> <i>Nobis</i> , <i>P. Gudkova</i> (KRA); 460167	137 829	MG052605
<i>S. magnifica</i> A. Junge	<i>Smirnovia</i>	Kyrgyzstan	Tian-Shan Mts, Tashkumyr, 650 m, 11 May 2011, <i>M.</i> <i>Nobis</i> , <i>A. Nowak</i> (KRA); S/21/1	137 848	MG052606
<i>S. narynica</i> M. Nobis	<i>Smirnovia</i>	Kyrgyzstan	E of Tashkumyr, 11 May 2011, <i>M.</i> <i>Nobis</i> , <i>A. Nowak</i> (KRA); S/74/1	137 854	MG052607
<i>S. orientalis</i> Trin.	<i>Barbatae</i>	Tajikistan	Zeravshan Mts, near Iskanderkul Lake, 2300 m, 15 June 2011, <i>M. Nobis</i> (KRA); S/24/2	137 823	MG052608
<i>S. ovczinnikovii</i> Roshev.	<i>Smirnovia</i>	Tajikistan	Zeravshan Mts, Vashan River valley, 1 Jun 2015, <i>M.</i> <i>Nobis</i> (KRA); S/17/7	137 874	MG052609
<i>S. pennata</i> subsp. <i>ceynowae</i> Klichowska & M. Nobis	<i>Stipa</i>	Poland	Folusz settl., May 2015, <i>E. Klichowska</i> (KRA); S/72/1	137 825	MG052611
<i>S. pennata</i> L. subsp. <i>pennata</i>	<i>Stipa</i>	Poland	Skarpy Ślesieńskie near Slesin, May 2015, <i>E. Klichowska</i> (KRA); S/42/16	137 818	MG052610

<i>S. richteriana</i> Kar. & Kir. subsp. <i>richteriana</i>	<i>Leiostipa</i>	Kazakhstan	Balkhash, 22 May 2014, <i>M. Nobis</i> (KRA); S/70/1	137 831	MG052612
<i>S. tianschanica</i> Roshev. subsp. <i>gobica</i> (Roshev.) D.F. Cui	<i>Smirnovia</i>	Mongolia	Iche Bogdo, 27 Jul 1974, <i>A. Pacyna</i> (KRA); S/78/2	137 847	MG052613
<i>S. zaleskii</i> Wlenskii	<i>Stipa</i>	Kyrgyzstan	12 km NW of Sassumyr, 7 Jul 2015, <i>M. Nobis</i> , <i>A. Nowak</i> (KRA); S/83/1	137 836	MG052616

Supplementary Table S2. Species delimited from set of analyzed individuals by PtP simple heuristic search.

Species delimited by PtP analysis	Posterior delimitation probability
<i>Stipa</i> × <i>alaica</i>	0.880
<i>S. arabica</i>	0.998
<i>S. borysthenica</i>	0.247
<i>S.</i> × <i>brevicallosa</i>	0.375
<i>S. capillata</i>	0.296
<i>S. caucasica</i>	0.194
<i>S. caucasica</i> (Kazakhstan)	0.194
<i>S. caucasica</i> (Kyrgyzstan)	0.194
<i>S. glareosa</i>	0.640
<i>S. hohenackeriana</i>	0.996
<i>S. jagnobica</i>	0.336
<i>S. lessingiana</i>	0.336
<i>S. magnifica</i>	0.795
<i>S. narynica</i>	0.629
<i>S. orientalis</i>	0.329
<i>S. ovczinnikovii</i>	0.711
<i>S. pennata</i> subsp. <i>ceynowae</i>	0.247

<i>S. pennata</i> subsp. <i>pennata</i>	0.730
<i>S. richteriana</i> subsp. <i>richteriana</i>	0.656
<i>S. tianschanica</i> subsp. <i>gobica</i>	0.329
<i>S. zalesskii</i>	0.483