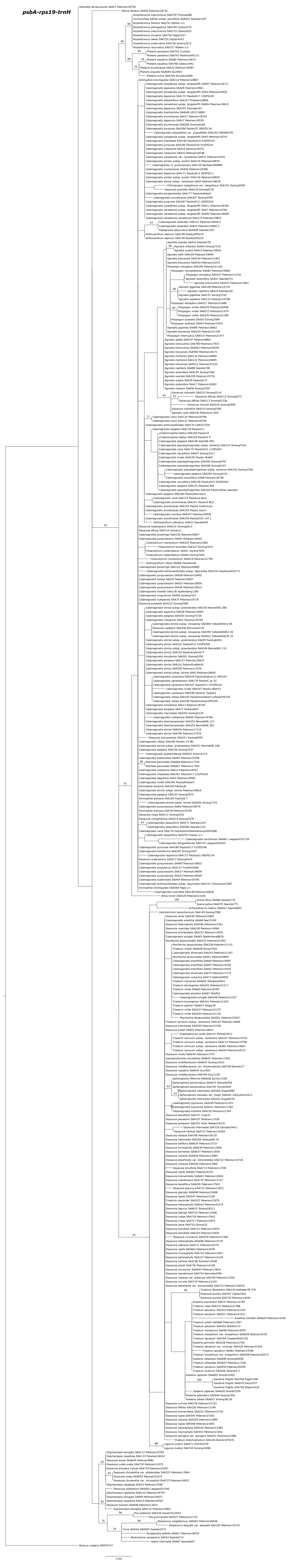

psbA-rps19-trnH

Vahlodea atropurpurea SAA21 Peterson18728
Holcus lanatus SAA26 Peterson18732
Amphibromus macrorhinus SAA759 Thomas586
Torreyochloa pallida subsp. pauciflora SAA622 Saarela1187
66
Amphibromus fluitans SAA752 Ashton s.n.
Amphibromus pithogastrus SAA769 Clarke2535
Amphibromus macrorhinus SAA753 Clarke2625
Amphibromus sinuatus SAA756 Paget2257
69
Amphibromus neesii SAA755 Stajsic4243
Amphibromus scabrivalvis SAA158 Soreng7013
Amphibromus recurvatus SAA757 Walker s.n.
95
Phalaris paradoxa SAA762 Curtis61
Phalaris paradoxa SAA763 McKenzie95131
68
59
Phalaris aquatica SAA80 Peterson19672
Phalaris aquatica SAA766 Jobson1942
70
Phalaris arundinacea SAA22 Peterson18383
Phalaris angusta SAA669 Scur654
Phalaris minor SAA749 Strudwick689
Ammophila breviligulata SAA123 Peterson20867
Calamagrostis canadensis subsp. langsdorffii SAA97 Peterson18711
Calamagrostis lapponica SAA29 Peterson18561
Calamagrostis canadensis subsp. langsdorffii SAA4 Peterson18455
Calamagrostis lapponica SAA172 PaszkoD17 15GPS249
Calamagrostis distantiflora SAA147 Probatova5806
Calamagrostis canadensis subsp. langsdorffii SAA94 Peterson18615
Calamagrostis lapponica SAA255 Soreng6163
Calamagrostis brachytricha SAA646 US3174890
Calamagrostis arundinacea SAA12 Peterson18747
Calamagrostis lapponica SAA27 Peterson18559
Calamagrostis arundinacea SAA206 Soreng5186
Calamagrostis purpurea SAA188 PaszkoD2 08GPS134
Calamagrostis angustifolia var. angustifolia SAA140 CAN408378
Calamagrostis canadensis subsp. langsdorffii SAA5 Peterson18743
Calamagrostis chalybaea SAA182 PaszkoD16 03GPS243
Calamagrostis purpurea SAA186 PaszkoD16 01GPS241
Calamagrostis rubescens SAA10 Peterson18741
Calamagrostis rubescens SAA32 Peterson18768
Calamagrostis canadensis var. canadensis SAA31 Peterson18761
Calamagrostis porteri subsp. porteri SAA129 Peterson20835
Calamagrostis cf. purpurascens SAA136 Nechaev560888
Calamagrostis montanensis SAA40 Peterson18398
Calamagrostis lapponica SAA171 PaszkoD12 05GPS211
Calamagrostis porteri subsp. porteri SAA126 Peterson20830
Calamagrostis stricta subsp. inexpansa SAA9 Peterson18618
Echinopogon caespitosus var. caespitosus SAA152 Soreng5900
Deyeuxia pulchella SAA218 Soreng5278
Calamagrostis phragmitoides SAA177 PaszkoKaliste4
Calamagrostis arundinacea SAA207 Soreng5599
Calamagrostis purpurea SAA187 PaszkoD13 10GPS226
Calamagrostis canadensis subsp. langsdorffii SAA11 Peterson18766
Calamagrostis canadensis subsp. langsdorffii SAA7 Peterson18765
Calamagrostis canadensis subsp. langsdorffii SAA92 Peterson18498
Calamagrostis canadensis canadensis SAA119 Peterson19822
63
Calamagrostis bolanderi SAA121 Peterson19694 4
Calamagrostis bolanderi SAA47 Peterson19694 2
Podagrostis aequivalvis SAA568 Saarela1307
Anthoxanthum alpinum SAA198 PaszkoGPS210
Anthoxanthum alpinum SAA199 PaszkoGPS225
Agrostis exarata SAA16 Saarela755
58
Agrostis imberbis SAA54 Soreng7218
Agrostis scabra SAA15 Peterson18491
Agrostis hallii SAA104 Peterson19699
Agrostis tolucensis SAA530 Peterson21487
Agrostis tolucensis SAA534 Peterson21670
Polypogon elongatus SAA240 Peterson21182
Polypogon monspeliensis SAA83 Peterson19669
Polypogon elongatus SAA247 Peterson21234
Agrostis stolonifera SAA41 Saarela751
Agrostis breviculmis SAA533 Peterson21841
58
Agrostis gigantea SAA108 Peterson19724
Agrostis capillaris SAA18 Saarela249
Agrostis gigantea SAA151 Soreng7550
Agrostis capillaris SAA115 Peterson19798
Polypogon elongatus SAA517 Peterson21688
60
Polypogon viridis SAA239 Peterson20996
Polypogon viridis SAA515 Peterson21470
Polypogon viridis SAA245 Peterson21309
Polypogon australis SAA50 Soreng7084
Polypogon australis SAA53 Peterson15551
Agrostis gigantea SAA96 Peterson18662
Agrostis tolucensis SAA235 Peterson21338
Polypogon interruptus SAA516 Peterson21477
Agrostis gelida SAA747 Peterson8862
Agrostis breviculmis SAA748 Peterson17933
Agrostis breviculmis SAA562 Peterson20294
Agrostis tolucensis SAA560 Peterson20271
Agrostis mertensii SAA134 Peterson20884
Agrostis mertensii SAA132 Peterson20895
Agrostis tolucensis SAA531 Peterson21523
Agrostis capillaris SAA88 Saarela748
Agrostis stolonifera SAA150 Soreng7582
Agrostis exarata SAA109 Peterson19730
Agrostis scabra SAA39 Saarela272
Agrostis stolonifera SAA17 Peterson18382
Agrostis meyenii SAA58 Soreng7209
Deyeuxia mazzettii SAA215 Soreng5314
63
63
Deyeuxia diffusa SAA212 Soreng5272
Deyeuxia diffusa SAA213 Soreng5233b
Deyeuxia nivicola SAA220 Soreng5648
Deyeuxia tripilifera SAA219 Soreng5385
Agrostis rosei SAA236 Peterson21269
71
Calamagrostis cainii SAA124 Peterson20796
Calamagrostis cainii SAA131 Peterson20795
Calamagrostis anthoxanthoides SAA135 CAN327539
Calamagrostis epigeios SAA178 PaszkoJ11
xCalammophila baltica SAA160 PaszkoJ7
xCalammophila baltica SAA159 PaszkoS 9
Calamagrostis epigeios SAA148 Aiken86 005
Calamagrostis pseudophragmites subsp. tartarica SAA153 Soreng7534
Calamagrostis varia SAA175 PaszkoD22 11GPS263
Calamagrostis xacutiflora SAA57 Soreng7411
Calamagrostis rivalis SAA195 Paszko Wald5
Calamagrostis pseudophragmites SAA209 Soreng5455
Calamagrostis pseudophragmites SAA208 Soreng5107
Calamagrostis pseudophragmites subsp. tartarica SAA154 Soreng7556
Calamagrostis epigeios SAA200 Soreng5161
Calamagrostis xacutiflora SAA8 Peterson18748
Calamagrostis xacutiflora SAA190 PaszkoD23 03GPS264
Calamagrostis epigeios SAA125 Saarela1368
Calamagrostis pseudophragmites SAA164 PaszkoOblaz pseudo2
Calamagrostis epigeios SAA180 PaszkoGermany1
Calamagrostis varia SAA174 Paszkova Bocz
Calamagrostis arundinacea SAA191 PaszkoA BG3
Calamagrostis arundinacea SAA193 Paszko Svetnov2a
Calamagrostis arundinacea SAA192 Paszko Szyn1
Calamagrostis muriana SAA257 Peterson20930
Calamagrostis arundinacea SAA194 PaszkoD20 124 1
Anthoxanthum odoratum SAA23 Saarela459
63
Deyeuxia scabrescens SAA216 Soreng5613
Deyeuxia effusa SAA714 Gomez21
Calamagrostis pickeringii SAA130 Peterson20857
Calamagrostis purpurascens SAA93 Peterson18545
Chascolytrum monandrum SAA525 Peterson21861
Chascolytrum brizoides SAA157 Soreng7014
Chascolytrum subaristatum SAA51 Soreng7005
Chascolytrum subaristatum SAA49 Soreng7020
Chascolytrum monandrum SAA518 Peterson21704
Anthoxanthum nitens SAA84 Saarela164
Calamagrostis pickeringii SAA122 Peterson20899
Calamagrostis anthoxanthoides subsp. laguroides SAA139 Vassilczenko4771
Calamagrostis purpurascens SAA38 Peterson18492
Calamagrostis foliosa SAA76 Peterson19697
Calamagrostis purpurascens SAA35 Peterson18500
Calamagrostis purpurascens SAA36 Peterson18415
Calamagrostis howellii SAA138 Spellenberg1189
Calamagrostis scopulorum SAA56 Soreng7423
Calamagrostis nutkaensis SAA75 Peterson19718
Deyeuxia pulchella SAA210 Soreng5586
Calamagrostis stricta subsp. groenlandica SAA250 Bennett06 208
Calamagrostis lapponica SAA28 Peterson18587
Calamagrostis epigeios SAA203 Soreng7573b
Calamagrostis rubescens SAA1 Peterson18769
Calamagrostis stricta subsp. inexpansa SAA400 TalbotAIK010 06
Deyeuxia rupestris SAA708 Renvoize4176
Calamagrostis stricta subsp. inexpansa SAA399 TalbotADA052 20
Calamagrostis stricta subsp. inexpansa SAA401 TalbotADA030 25
Calamagrostis stricta subsp. groenlandica SAA59 Soreng6204
Calamagrostis stricta SAA161 PaszkoD12 01GPS206
Calamagrostis stricta subsp. groenlandica SAA249 Bennett06 132
Calamagrostis stricta SAA163 PaszkoIceland2 5
Calamagrostis emodensis SAA201 Soreng5350
Calamagrostis perplexa SAA127 Peterson20925
Calamagrostis stricta SAA162 PaszkoSvalbard2
Calamagrostis stricta SAA256 Peterson17076
Calamagrostis stricta subsp. stricta SAA3 Peterson18604
Calamagrostis canescens SAA169 PaszkoSvetnov1c GPS107
Calamagrostis xgracilescens SAA170 PaszkoC gr XZ
Calamagrostis canescens SAA167 PaszkoD17 07GPS247
Calamagrostis rivalis SAA197 Paszko Welch3
Calamagrostis canescens SAA168 PaszkoC Zbijow3
Calamagrostis villosa SAA183 PaszkoHundstein1villosaGPS278
Calamagrostis villosa SAA185 PaszkoCikhaj1GPS109
Calamagrostis emodensis SAA13 Peterson18749
Calamagrostis perplexa SAA77 Howard465
Calamagrostis macrolepis SAA202 Soreng5120
Calamagrostis nutkaensis SAA46 Peterson19706
Calamagrostis deschampsioides SAA253 Bennett06 123
Calamagrostis deschampsioides SAA252 Bennett06 381
Calamagrostis stricta SAA636 Peterson17119
Calamagrostis stricta SAA706 Peterson17076
Deyeuxia sichuanensis SAA221 Soreng5659
Calamagrostis villosa SAA184 Paszko vi3 BG
Calamagrostis stricta subsp. groenlandica SAA251 Bennett06 246
Calamagrostis epigeios SAA156 Soreng7637
Calamagrostis guatemalensis SAA632 Koninck143
Calamagrostis koeleriodes SAA45 Peterson19786
86
Relchela panicoides SAA668 Peterson17334
Relchela panicoides SAA667 Peterson17364
Calamagrostis rubescens SAA14 Peterson18767
Calamagrostis chalybaea SAA181 PaszkoD17 31GPS256
Calamagrostis lapponica SAA2 Peterson18585
Calamagrostis rivalis SAA196 PaszkoKloster4
61
Ammophila arenaria SAA166 PaszkoJ6
Calamagrostis stricta subsp. stricta Peterson18616
Calamagrostis epigeios SAA155 Soreng7674
Ammophila arenaria SAA165 PaszkoS 7
Calamagrostis stricta subsp. stricta SAA204 Soreng7722
Calamagrostis purpurascens SAA6 Peterson18474
Ammophila arenaria SAA78 Peterson19705
Deyeuxia rosea SAA211 Soreng5542
Deyeuxia nyingchiensis SAA214 Soreng5578
63
Calamagrostis sesquiflora SAA571 Saarela1229
Calamagrostis sesquiflora SAA566 Saarela1223
Calamagrostis varia SAA176 PaszkoSchmittenhohevar4GPS288
Calamagrostis sesquiflora SAA259 Cheney s.n.
Calamagrostis carchiensis SAA661 Laegaard101730
Calamagrostis llanganatensis SAA732 Laegaard55455
Calamagrostis purpurea SAA189 PaszkoD17 01GPS246
Calamagrostis holciformis SAA205 Soreng7697
Calamagrostis lapponica SAA173 PaszkoD2 09GPS134
Deyeuxia scabrescens SAA217 Soreng5424
Calamagrostis purpurascens SAA95 Peterson18652
Calamagrostis scopulorum SAA137 Franklin5569
Calamagrostis purpurascens SAA37 Peterson18609
Calamagrostis purpurascens SAA33 Peterson18569
Calamagrostis koeleriodes SAA44 Peterson19795
Calamagrostis anthoxanthoides subsp. laguroides SAA143 Tolmacheva7087
Ammophila breviligulata SAA564 Page s.n.
Calamagrostis coarctata SAA128 Peterson20818
Briza minor SAA529 Peterson21636
100
Avena fatua SAA89 Saarela779
Avena sativa SAA570 Saarela775
Arrhenatherum elatius SAA567 Saarela903
Helictotrichon tianschanicum SAA149 Soreng7580
Deyeuxia recta SAA540 Peterson21865
Calamagrostis eriantha SAA68 Nee33190
Deyeuxia heterophylla SAA546 Peterson21561
Deyeuxia coarctata SAA228 Peterson14064
Deyeuxia breviaristata SAA223 Peterson12825
Calamagrostis pringlei SAA65 Spellenberg8878
Peyritschia deyeuxioides SAA232 Peterson21403
Peyritschia deyeuxioides SAA238 Peterson21110
Trisetum virletii SAA658 Nunez7926
Calamagrostis divaricata SAA243 Peterson21267
Peyritschia deyeuxiodes SAA61 Peterson9809
Calamagrostis erectifolia SAA64 Peterson19097
Calamagrostis erectifolia SAA63 Peterson19106
Calamagrostis erectifolia SAA62 Peterson19105
Calamagrostis divaricata SAA74 Peterson17774
Calamagrostis vulcanica SAA73 Gallardo9092
Trisetum irazuense SAA655 Stergios20561
Trisetum durangense SAA242 Peterson21217
Trisetum viride SAA60 Peterson18783
Calamagrostis eriantha SAA67 Iltis952
Calamagrostis pringlei SAA248 Peterson21257
Trisetum durangense SAA241 Peterson21245
Trisetum palmeri SAA657 Hoge220
Trisetum viride SAA237 Peterson21275
Trisetum viride SAA244 Peterson21134
Peyritschia deyeuxioides SAA561 Peterson20367
Trisetum cernuum subsp. canescens SAA103 Peterson19686
Deyeuxia intermedia SAA539 Peterson21599
Deyeuxia preslii SAA55 Peterson18047
Graphephorum wolfii SAA142 Porsild22911
Trisetum cernuum subsp. canescens SAA107 Peterson19720
Trisetum cernuum subsp. canescens SAA114 Peterson19790
Trisetum cernuum subsp. canescens SAA82 Peterson19667
Trisetum cernuum subsp. canescens SAA20 Peterson18723
Deyeuxia viridis SAA645 Peterson17371
Leptophyllochloa micrathera SAA652 Peterson17403
Deyeuxia viridiflavescens SAA633 Soreng15032
Deyeuxia viridiflavescens var. montevidensis SAA709 Barreto17
Deyeuxia rupestris SAA634 Scur920
Deyeuxia viridiflavescens SAA704 Scur1150
Sphenopholis filiformis SAA628 Sorrie11538
Sphenopholis pensylvanica SAA673 Sharp40056
63
Sphenopholis pensylvanica SAA745 Terrell3644
55
Sphenopholis intermedia SAA260 Dugal4080
63
Sphenopholis obtusata var. major SAA261 Darbyshire3412
Sphenopholis intermedia SAA262 Dugal4234
Calamagrostis tolucensis SAA246 Peterson21343
55
Calamagrostis tolucensis SAA231 Peterson21395
Calamagrostis eriantha SAA230 Peterson21344
Deyeuxia densiflora SAA721 Cook22
Deyeuxia jamesonii SAA707 Peterson13195
Deyeuxia jamesonii SAA701 Holm Nielsen24232
Deyeuxia intermedia SAA729 Davidse29411
Deyeuxia nitidula SAA737 Peterson14204
Deyeuxia nitidula SAA746 Peterson18120
Deyeuxia intermedia SAA700 Sklenar86 19
Deyeuxia setiflora SAA635 Peterson15727
Deyeuxia trichodonta SAA638 Peterson12960
Deyeuxia tarmensis SAA637 Peterson13929
Deyeuxia velutina SAA639 Peterson15484
Deyeuxia deserticola var. breviaristata SAA722 Peterson15726
Deyeuxia violacea SAA644 Peterson12965
Deyeuxia brevifolia SAA713 Peterson12708
Deyeuxia rigida SAA663 Peterson9143
Deyeuxia breviaristata SAA641 Peterson12842
Deyeuxia mandoniana SAA735 Peterson13197
Deyeuxia densiflora SAA630 Peterson17943
Deyeuxia lagurus SAA731 Peterson13031
Deyeuxia glacialis SAA698 Peterson12608
Deyeuxia rigida SAA547 Peterson21528
Trisetum macbridei SAA522 Peterson21679
Deyeuxia heterophylla SAA542 Peterson21674
Deyeuxia lagurus SAA631 Soreng18311
Deyeuxia fiebrigii SAA725 Peterson12966
Deyeuxia crispa SAA718 Peterson12942
Deyeuxia crispa SAA717 Peterson12875
Deyeuxia recta SAA710 Gomez32
Deyeuxia brevifolia SAA712 Peterson15459
91
Deyeuxia brevifolia SAA224 Peterson15459
Deyeuxia vicunarum SAA550 Peterson21580
Deyeuxia heterophylla SAA696 Peterson15735
Deyeuxia cabrerae SAA711 Peterson15574
Deyeuxia rigida SAA664 Peterson12678
Deyeuxia chrysophylla SAA716 Peterson13027
Deyeuxia heterophylla SAA227 Peterson14129
Deyeuxia nitidula SAA738 Solomon13638
Deyeuxia preslii SAA736 Peterson14100
Deyeuxia vicunarum SAA643 Peterson13824
Deyeuxia mandoniana SAA734 Renvoize4784
Deyeuxia violacea var. puberula SAA705 Peterson13202
Deyeuxia curvula SAA719 Peterson13194
Deyeuxia deserticola var. breviaristata SAA723 Peterson13007A
99
Trisetum flavescens SAA145 Kalheber78 379
Rostraria pumila SAA767 Clarke3442
Rostraria pumila SAA730 Peterson14444
Koeleria macrantha SAA79 Peterson19783
Trisetum rosei SAA233 Peterson21388
Trisetum spicatum SAA524 Peterson21542
Trisetum spicatum SAA521 Peterson21527
Avellinia michellii SAA629 Peterson14246
Trisetum preslii SAA660 Peterson11467
Trisetum spicatum SAA765 Walsh6731
Trisetum montanum SAA90 Peterson18397
Trisetum oreophilum var. oreophilum SAA659 Peterson9239
Trisetum spicatum SAA764 Chesterfield3126
Koeleria permollis SAA528 Peterson21705
Trisetum spicatum var. cumingii SAA520 Peterson21934
Trisetum spicatum SAA81 Peterson19768
Trisetum oreophilum var. oreophilum SAA558 Peterson20273
Koeleria vallesiana SAA648 Soreng4005b
Trisetum phleoides SAA653 Peterson17256
Trisetum spicatum SAA559 Peterson20299
Trisetum andinum SAA656 Sklenar9 3
Koeleria capensis SAA665 Smook10302
100
Gaudinia fragilis SAA768 Paget1558
Gaudinia fragilis SAA670 Seijo2557
Gaudinia fragilis SAA758 Stajsic4229
Koeleria capensis SAA650 Smook2559
Koeleria splendens SAA649 Soreng7491
Koeleria lobata SAA651 Soreng3813b
Deyeuxia curvula SAA720 Peterson14733
Deyeuxia filifolia SAA226 Peterson13196
Deyeuxia breviaristata SAA222 Peterson15720
Deyeuxia rigida SAA545 Peterson21502
Deyeuxia velutina SAA229 Peterson15489
Deyeuxia rigida SAA548 Peterson21843
Deyeuxia heterophylla SAA544 Peterson21483
Deyeuxia macrophylla SAA543 Peterson21642
Deyeuxia spicigera var. spicigera SAA541 Peterson21588
Trisetum distichophyllum SAA146 Buhrer207676
88
Lagurus ovatus SAA671 US3343370
Lagurus ovatus SAA744 Soreng14484
Deschampsia elongata SAA112 Peterson19760
Deschampsia cespitosa SAA133 Peterson18410
Deyeuxia aurea SAA640 Peterson9081
62
Deyeuxia ovata ovata SAA739 Peterson14579
Deyeuxia eminens inclusa SAA724 Peterson19307
63
Deyeuxia chrysantha var. phalaroides SAA225 Peterson13064
Deyeuxia ovata SAA554 Peterson21675
Deyeuxia chrysantha var. chrysantha SAA715 Peterson14822
Deschampsia cespitosa SAA52 Peterson15587
Deyeuxia podophora SAA666 Laegaard21546
Deschampsia cespitosa SAA110 Peterson19754
Deschampsia elongata SAA99 Peterson19657
62
Deschampsia cespitosa SAA19 Peterson18367
Deyeuxia hackelii SAA699 Peterson13032
Deschampsia elongata SAA116 Peterson19801
96
Poa pratensis SAA144 Goodrich22955
Poa gymnantha SAA527 Peterson21733
75
99
Alopecurus magellanicus SAA563 Peterson20626
Alopecurus aequalis var. aequalis SAA105 Peterson19710
79
Cinna latifolia SAA565 Saarela1073
Arctagrostis latifolia SAA91 Peterson18459
Beckmannia syzigachne SAA24 Saarela712
Apera interrupta SAA87 Saarela647
Bromus vulgaris KM974737
0.006