**Table S3:**

**Qiagen extraction test. Genbank accession numbers for the studied specimens.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Locality** | **KRAM B** | ***5,8SR******ITS-2*** | ***phy2******gene*** | ***psbAF******trnHR2*** | ***atpI******atpH*** | ***trnL******trnF*** | ***rps4******gene*** | ***atpB1******rbcL1*** | ***psbB******clpP*** |
| ***Blindia magellanica***Subantarctica,Prince Edward Islands, Marion Island | 611/99 | MN179594 | — | MN239130 | MN239140 | MN239141 | MN239154 | MN239165 | — |
| ***Brachythecium subplicatum***Subantarctica,Prince Edward Islands, Marion Island | 614/99 | MN179595 | — | MN239129 | MN239139 | MN239142 | MN239155 | MN239166 | in preparation |
| ***Breutelia integrifolia***Subantarctica,Îles Crozet,Île de la Possesion | 124/06 | MN179596 | — | MN239128 | MN239138 | MN239143 | MN239156 | MN239167 | — |
| ***Bucklandiella heterostichoides***Subantarctica,Îles Kerguelen | 695575 | MN179597 | — | MN239127 | — | — | — | — | — |
| ***Cratoneuropsis chilensis***Subantarctica,Prince Edward Islands, Marion Island | 403/99 | MN179598 | — | MN239126 | MN239137 | MN239144 | MN239157 | MN239168 | — |
| ***Distichium capillaceum***Subantarctica,Îles Kerguelen | 1198/06 | MN179599 | MN239177 | MN239125 | MN239136 | MN239145 | MN239158 | MN239169 | in preparation |
| ***Ditrichum strictum***Subantarctica,Îles Crozet,Île de la Possesion | 194/06 | MN179600 | MN239178 | MN239124 | MN239135 | MN239146 | MN239159 | MN239170 | — |
| ***Hymenoloma antarcticum***Maritime Antarctic,South Shetland Islands,King George Island | 2662/80 | — | — | MN239122 | — | — | — | — | — |
| ***Hymenoloma antarcticum***Maritime Antarctic,South Shetland Islands, King George Island | 110401 | — | — | MN239123 | — | MN239147 | — | MN239171 | — |
| ***Racomitrium lanuginosum***Subantarctica,Îles Crozet,Île de la Possesion | 43266 | — | — | MN239121 | MN239134 | MN239148 | MN239160 | MN239172 | — |
| ***Sanionia uncinata***Subantarctica,Îles Crozet,Île de la Possesion | 2/06 | MN179602 | — | MN239119 | MN239132 | MN239150 | MN239162 | MN239174 | in preparation |
| ***Sanionia georgicouncinata***Maritime Antarctic,South Shetland Islands, King George Island | 454/80 | MN179601 | — | MN239120 | MN239133 | MN239149 | MN239161 | MN239173 | — |
| ***Schistidium falcatum***South America, Isla Grande de Tierra del Fuego | 408/95 | MN179603 | — | MN239117 | — | — | — | — | — |
| ***Schistidium falcatum***Maritime Antarctic,South Shetland Islands,King George Island | 437/80 | — | — | MN239116 | — | — | MN239163 | — | — |
| ***Schistidium falcatum***Subantarctica,Prince Edward Islands,Marion Island | 1447/99 | — | — | MN239118 | — | MN239151 | — | — | — |
| ***Schistidium halinae***Maritime Antarctic,South Shetland Islands,King George Island | 2711/80 | MN179604 | — | MN239115 | — | MN239152 | — | MN239175 | — |
| ***Warnstorfia fontinaliopsis***Maritime Antarctic,South Shetland Islands,King George Island | 1193/80 | MN179605 | — | MN239114 | MN239131 | MN239153 | MN239164 | MN239176 | — |