Supplemental file 5a Aligned sequences obtained with primer pairs STCP2 on the DNA of *S. candolleanum* (syn. *S. multidissectum*, PI 498304, PI 210055, PI 473352), *S. brevicaule* (syn. *S. gourlayi*, PI 558062) and *S. tuberosum* (k-3446)

```
tbr, k-3446     1   AGTTCCCCTC TCGACATCAT TATTCCAAGA AAATTTGATA GTTAAAAATA ACTTTTGATC   60
mlt, PI 498304  1   AGTTCCCCTC TCGACATCAT TATTCCAAGA AAATTTGATA GTTAAAAATA ACTTTTGATC   60
mlt, PI 210055  1   AGTTCCCCTC TCGACATCAT TATTCCAAGA AAATTTGATA GTTAAAAATA ACTTTTGATC   60
mlt, PI 473352  1   AGTTCCCCTC TCGACATCAT TATTCCAAGA AAATTTGATA GTTAAAAATA ACTTTTGATC   60
grl, PI 558062  1   AGTTCCCCTC TCGACATCAT TATTCCAAGA AAATTTGATA GTTAAAAATA ACTTTTGATC   60

tbr, k-3446     61  ATCTTAGGAA AAAAGATAAG TCTTTTTTTT TTTTTCATCT GATTGATAAA ATCCAAAGAA   120
mlt, PI 498304  61  ATC------- ---------- ---------- ---------T GATTGATAAA ATCCAAAGAA   84
mlt, PI 210055  61  ATC------- ---------- ---------- ---------T GATTGATAAA ATCCAAAGAA   84
mlt, PI 473352  61  ATC------- ---------- ---------- ---------T GATTGATAAA ATCCAAAGAA   84
grl, PI 558062  61  ATC------- ---AGATAAG TCTTTTTTTT TTT--CATCT GATTGATAAA ATCCAAAGAA   108

tbr, k-3446     121 TGGGG  125
mlt, PI 498304  85  TGGGG  89
mlt, PI 210055  85  TGGGG  89
mlt, PI 473352  85  TGGGG  89
grl, PI 558062  109 TGGGG  113
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Supplemental file 5b Aligned sequences obtained with primer pairs STCP11 on the DNA of *S. brevicaule* (syn. *S. spegazzinii*, PI 472988) and *S. tuberosum* (k-3446)

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tbr, k-3446     1   ATTGAATTAT AGGAAAGAAA GAATAAAAAC AAAAAAAGAA AAAAGGAAGA AAAAAAAAAG   60
spg, PI 472988  1   ATTGAATTAT AGGAAAGAAA GAATAAAAAC AAAAAAAGA- ---------- ----------   39

tbr, k-3446     61  ACATCCCTCC TTTTTGCTTT TGCAATTAGA TTCTTTTCTT TCTATTTCGA TTTTTTTATT   120
spg, PI 472988  39  -CATCCCTCC TTTTTGCTTT TGCAATTAGA TTCTTTTCTT TCTATTTCTA TTTTTTTATT   98

tbr, k-3446     121 TCATTCCTAT TCTCCT 136
spg, PI 472988  99  TCATTCCTAT TCTCCT 114
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