

Supplementary Table

Table S1. Classification of parental lines, SHs and BC clones by morphological appearance after moderate drought stress. *S. tub* = *S. tuberosum* cv. Delikat, *S.chc* = *S. chacoense*. Ploidy level is indicated in parenthesis.

Group I	Group II	Group III
De.C7 (4-5x)	<i>S. tub</i> (4x)	<i>S. chc</i> 1G (2x)
1913/6 (5x)	<i>S. chc</i> HL (2x)	De.C4 (6x)
1552/1 (5x)	1552/1/4 (5x)	1913/10 (4-5x)
1552/1/1 (4-5x)	1552/1/7 (4x)	1552/1/3 (4-5x)
1552/1/2 (4-5x)	1552/1/7/1 (4x)	1552/1/7/2 (4-5x)
DeDN11.5 (4x)	1552/1/18 (4x)	DeDN5.5 (4x)
DkDN5.3 (6x)	1553/1/7 (3-4x)	DkDN5.6 (4x)
DkDN11.5 (6x)	DeDN11.29 (4x)	DkDN5.17 (6x)
DkDN11.24 (6x)	DkS10.5 (4x)	DkDN5.25 (4-6x)
DkDN11.34 (4-5x)	DkS10.35 (4-5x)	DkDN11.26 (5-6x)
DkS10.13 (4x)	DkS10.47 (4x)	DkS10.11 (4x)
DkS10.40 (4x)	DkS10.61 (4x)	DkS10.20 (4-6x)
DkS10.43 (4x)		DkS10.51 (4x)

Table S2. Classification of parental lines, SHs and BC clones by morphological appearance after severe drought stress. *S. tub* = *S. tuberosum* cv. Delikat, *S.chc* = *S. chacoense*. Ploidy level is indicated in parenthesis.

Group 2	Group 3
De.C7 (4-5x)	<i>S. tub</i> (4x) DeDN5.5 (4x)
1913/6 (5x)	<i>S.chc</i> HL (2x) DeDN11.5 (4x)
1552/1 (5x)	<i>S. chc</i> 1G (2x) DeDN11.29 (4x)
1552/1/2 (4-5x)	De.C4 (6x) DkDN5.6 (4x)
DkDN5.3 (6x)	1913/10 (4-5x) DkDN5.17 (6x)
DkDN5.11 (6x)	1552/1/1 (4-5x) DkDN5.25 (4-6x)
DkDN11.24 (6x)	1552/1/3 (4-5x) DkDN11.26 (5-6x)
DkDN11.34 (4-5x)	1552/1/4 (5x) DkS10.5 (4x)
DkS10.13 (4x)	1552/1/7 (4x) DkS10.11 (4x)
DkS10.40 (4x)	1552/1/7/1 (4x) DkS10.20 (4-6x)
DkS10.43 (4x)	1552/1/7/2 (4-5x) DkS10.35 (4-5x)
	1552/1/18 (4x) DkS10.47 (4x)
	1553/1/7 (3-4x) DkS10.51 (4x)
	DkS10.61 (4x)