

**Supplemental file 5** Factor loadings for first two principal components of the Principal Components Analysis

Number of character	Character	Factor 1	Factor 2
2	Stem diameter at base	0.790	-0.025
3	Plant height	0.640	-0.146
11	Length of leaf	0.896	0.092
15	Length of petiolule	0.503	0.284
16	Number of lateral leaflet pairs	0.563	0.086
17	Number of interjected leaflets	0.689	-0.196
18	Number of secondary lateral leaflets	0.503	-0.219
20	Length of terminal leaflet	0.771	-0.163
25	Length of terminal leaflet petiolule	0.510	-0.098
26	Length of most distal lateral leaflet petiolule	0.664	-0.285
29	Width of most distal lateral leaflet	0.647	-0.132
34	Length from widest part of most distal lateral leaflet to apex	0.757	-0.149
39	Length of peduncle	0.558	-0.105
53	Ratio: width of corolla lobe at base of junction of corolla lobes/lobe length from base to tip of corolla lobe	0.015	0.452
56_7	Frequency of intense purple color of adaxial interpetolar tissue	0.101	0.502
59_7	Frequency of intense purple color of abaxial corolla ray	0.025	0.623
60_7	Frequency of intense purple color of adaxial corolla acumen	0.061	0.611
61_7	Frequency of intense purple color of abaxial corolla acumen	-0.046	0.605