

Supplemental file 9 Comparison morphological and cpSSR data for *S.*

tuberosum Andigenum Group triploids (=former *S. chaucha*). Twenty-six accessions took part in morphology phenetic analysis, 23 were analyzed with plastid SSRs)

№	Catalogue number	Plastid SSR haplotype	Morpho-type - cluster	Country	Long	Lat	Altitude	Morphology (Clusters 2 and 1)	
								Cluster 2	Cluster 1
1	24673	II	2	Peru	-75.38	-11.8	3730		
2	24677	II	2	Peru	-75.38	-11.8	3300		
3	24674	II	2	Peru	-75.38	-11.8	3700		
4	24684	II	2	Peru	-75.38	-11.8	3700		
5	24682	No data	2	Peru	-75.38	-11.8	3300		
6	24683	II	2	Peru	-75.38	-11.8	3300		
7	24676	II	2	Peru	-75.38	-11.8	3350		
8	24695	II	2	Peru	-75.62	-11.7	3750		
9	24697	No data	2	Peru	-75.88	-10.9	3600		
10	24679	cha 24679	2	Peru	-75.38	-11.8	3300		
11	24696	II	2	Peru	-74.57	-12.8	3100		
12	24685	I	2	Peru	-75.38	-11.8	3300		
13	24692	VII	2	Peru	-75.4	-11.5	3600		
14	24675	I	1	Peru	-75.38	-11.8	3800		
15	24686	I	1	Peru	-72	-13.5	3600		
16	24687	I	1	Peru	-75.8	-12.2	3600		
17	24678	cha 24678	1	Peru	-75.38	-11.8	3300		
18	24680	I	1	Peru	-75.38	-11.8	3300		
19	24681	I	1	Peru	-75.38	-11.8	3300		
20	24690	I	1	Peru	-76.48	-10.5	3800		
21	24689	I	1	Peru	-75.8	-12.2	3550		
22	24698	I	1	Peru	-74.27	-12.9	3880		
23	24688	I	1	Peru	-75.8	-12.2	2600		
24	24693	No data	1	Bolivia	-68.12	-16.5	3800		
25	25000	I	1	Ecuador	-78.98	-1.65	3330		
26	24691	I	unique	Peru	-72.25	-13.4	3400		