

Table S1. Reference DNA sequences selected for the study of CMM.

CMM	Plant species	Sequence source	Major ITS2 haplotype	Amplicon (bp)	Variation sites	Reference
Herba Potentillae Chinensis	<i>Potentilla chinensis</i> Ser.	17 CMM collected from 6 locality, 2 plant specimens from 2 locality, 1 NIFDC reference material, 3 counterchecking specimens	CACGTCGTTGCCCCTCCCAACCC CTTCGGGAGTTGGCTGGGACGG ATGATGGCCTCCCGTGTGCTCCG CCGCGCGGTTGGCATAAATAAC GAGTCATCGGCGGCCAACGCCG CGACAATCGGTGGTTGTCAAAC CTCGGTGTCCTGTGCGCGCGCGC GTCGTCTCGGCTCTTCCGATCT AATGCGCGTCGGTTCGCCGGCG CTTTCAACG	212	22 sites: T26C, T62C, T184C, T195C, A49G, A182G, C64G, C165G, C66T, C69T, C152T, C163T, C171T, C175T, C198T, G91A, G177A, G201A, A96C, C156A, T164G, G193M, in/del 169, 174	[1]
Herba Potentillae Discoloris	<i>Potentilla discolor</i> Bunge	7 CMM from 2 locality, 1 plant specimen, 1 NIFDC reference	CACGTCGTTGCCCCTCCCAACCC CTCCGGGAGTTGGGTGGGACGG ATGATGGCCTCCCGTGCCTCCG TCGCGCGGTTGGCATAAATAACA AGTCCTCGGCGGCCAACGCCG GACAATCGGTGGTTGTCAAACC	210	3 sites: C37G, G93T, T163C	[1]

		material, 2 counterchecki ng specimens	TCGGTGTCTGTGTCGCGTGCGAG TCGTCCGGGGCTTTTCCAATCTG ATGCGCGTCGATTCTGTCGGCGCT TTCAACG			
-	<i>Potentilla kleiniana</i> Wight et Arn.	Plant specimens	CACGTCGTTGCCCCCTCCCAACCC CTTCGGGAGTTGGCTGGGACGG ATGGTGGCCTCCCGTGTGCTCCG TCGCGCGGTTGGCATAAATAACA AGTCCTCGGCGGCCAACGCCGC GACAATCGGTGGTTGTCAAACC TCGGTGTCTGTGTCGCGCGCGCG TCGTCCGGGGCTTTTTTTCAATC TAACGCGCGTCGCTCCGTCGAC GCTTTCAACG	212	-	[1]
Radix Pulsatillae	<i>Pulsatilla chinensis</i> (Bge.) Regel	13 CMM collected from 4 locality, 14 plant specimen collected from 3 locality, 1 NIFDC reference	CACACAGCGTCGCCCCACCAA AGCATTTGGATGGGGGCGGAAA TTGGCCCCCGAGCCCCCGGG CACGGTCGGCACAAATGTTGGC CCTCGGCGGCGAGCGTCGCGGT CAGCGGTGGTTGTACTCTCATCC TCCAAAGACAAAATGACGCGTC CGCCTCGTCGCCCCGCTGGGCGA	219	8 sites: C17T, C61T, C63T, C112T, C126G, G170A, G193T, A201T, in/del 64	[1,2]

		material, 2 counterchecki ng specimens, Accession no. GU732650	AGATGACCCAAGGAGTCTCCCC AACCGGAGACTTCCACCTG			
Radix Pulsatillae Cernuae	<i>Pulsatilla cernua</i> (Thunb.) Bercht.et Opiz.	Accession JN811070 & HQ829820	ACAGCGTCGCCCCACCAAAGC ATTGGATGGGGGCGGAAATTG GCCCCCGAGCCCCCGGGGCA CGGTCGGCACAAATGTTGGCCC TCGGCGGCGAGCGTCGCGGTTA GCGGTGGTTGTACTCTCATCCTC CAAAGACAAAATGACGCGTCCG CCTCGTCGCCCCTGGGCAAAG ATGACCCAAGGAGTCTCCCCTA CCGGAGACTTCCACCTG	216	-	[1]
-	<i>Pulsatilla turczanino vii Kryl. Et Serg.</i>	Accession GU732649	CACACAGCGTCGCCCCACCAA AGCATTTGGATGAGGGCGGAAA TTGGCCCCCGAGCCCTCCGGG GCACGGTCGGCACAAATGTTGG CCCTCGGCGGCGAGCGTCGCGG TCAGCGGTGGTTGTACTCTCATC CTCCAAAGACAAAATGACGCGT	219	-	[1]

			CCGCCTCGTCGCCCCGCTGGGCG AAGATGACCCAAGGAGTCTCCC CTACCGGAGACTTCCACCTG			
Radix Arnebiae	<i>Arnebia euchroma</i> (Royle) Johnst	11 CMM collected from 6 locality, 1 plant specimen, 1 NIFDC reference material, 1 counterchecki ng specimen, Accession no. EF199848, EF199860	CACATCGCGTCACCCCATCCAAA ATAATGTTGGATGTGGTGGATTG TGACCTCCTGTGTCTTGAGATGC AGTTGGTCGAAATTCGAGTCCG GAGCTTAGGACTTCACGACAAG TGGTGGTTGGATAACAACCTCGC GTCATGTCGTGTGCCAAGCCTCC GTGTCTCCGTAGACCCTAAGGC GCGTGCTTTCCAACCTCGTTCGTT GGGAAACCGTGCTACGACCG	223	5 sites: A27C, A109G, C143T, G153A, T189C	[1]
Radix Arnebiae	<i>Arnebia guttata</i> Bunge	Accession JX976805	CGCATCGCGTCACCCCATCCCAT GTAACATGGATGTGGTGGATTG TGACCTCCTGTGTCTTGAGATGC AGTTGGTCAAAATTTGAGTCTG GAGCTGAGGACTTCACGTCAAG TGGTGGTTGGATAACAACCTCGC	221	-	[1,3]

			GTCCTGTCGTGTGCCAAACCTCC ATTCCTCTGTGGACCCTAAGGCG TGTTTTTTTCCAACCTCTGTGTT GGGAAATCTTGCTACGA			
Radix Lithosper mi	<i>Lithosper mum erythrorhiz on</i> Sieb. Et Zucc	Plant specimens	CGCATCGCGTCACCCATCCCCAA CTCTCGTGGATGTGGTGGATTGT GACCTCCTGTGCCTTGCGGTGC AGTTGGTCGAAATTCGAGTTCG GAGTTAAGGACTTCACGACAAG TGGTGGTTGGACGACCAACTCG CGTCATGTCGTGTGCCAAACCTT CGTGGCTCTCAAGACCCTAAGG CACGTGCTACCCGACTCTTGGGT CGGAAAACCTCGTGCTACGACCG	224	-	[1]

References

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3. Huang, J.F.; Zhang, M.L.; Cohen, J.I. Phylogenetic analysis of *Lappula Moench* (Boraginaceae) based on molecular and morphological data. *Plant. Syst. Evol.* **2013**, *299*, 913–926.