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Supplementary Table

Table 2. Molecular authentication of Indian medicinal plants using various molecular markers (modified and updated from 20, 21)

Sl. No.	Plant	Part	Method	Gene
1.	<i>Abrus precatorius</i> L.	Leaves	PCR sequencing	matK, trnK, psbA, rpoC1 (58)
2.	<i>Abutilon indicum</i> (L.) Sweet	Leaves	PCR sequencing	ITS1, ITS 2 (59)
3.	<i>Acacia nilotica</i> (L.) Delile	Leaves	RAPD	N/A (60)
4.	<i>Achyranthes aspera</i> L.	Leaves	PCR sequencing	psbA-trnH, matK, ycf5 (4)
5.	<i>Aconitum ferrox</i> Wall. ex Ser.	Leaves	AFLP	NA (61)
6.	<i>Aconitum heterophyllum</i> Wall. ex Royle	Leaves	AFLP	NA (61)
7.	<i>Acorus calamus</i> L.	Leaves	PCR sequencing	psbA-trnH, matK, rbcL, rpoC1, ycf5 (4)
8.	<i>Aegle marmelos</i> (L.) Correa	Leaves	RAPD	N/A (62)
9.	<i>Aerva lanata</i> (L.) Juss.	Leaves	PCR sequencing	rbcL (63)
10.	<i>Albizia lebbek</i> (L.) Benth.	Leaves	RAPD	N/A (64)
11.	<i>Allium sativum</i> L.	Leaves	RAPD	N/A (65)
12.	<i>Aloe vera</i> (L.) Burm. f.	Leaves	PCR sequencing	psbA-trnH, matK, rpoC1 (4)
13.	<i>Alpinia calcarata</i> (Haw.) Roscoe	Leaves	PCR sequencing	Mat K, ITS (66)
14.	<i>Alpinia galangal</i> (L.) Wild.	Leaves, Fruits	PCR sequencing	Mat K, ITS (66, 67)
15.	<i>Alstonia scholaris</i> (L.) R. Br	Leaves	PCR sequencing	ITS2, psbA-trnH, matK, rbcL, rpoC1, ycf5 (4)
16.	<i>Amaranthus tricolor</i> L.	Leaves	RAPD	N/A (68)
17.	<i>Amomum subulatum</i> Roxb.	Leaves	RFLP	N/A (69)
18.	<i>Andrographis paniculata</i> (Brum.f.) Nees	Leaves	PCR sequencing	psbA-trnH, rbcL, ycf5 (4)
19.	<i>Anethum sowa</i> Roxb. ex Flem.	Seed	RFLP, RFLP, RAPD	N/A (70)
20.	<i>Aquilaria malaccensis</i> Lam.	Leaves	PCR sequencing	trnL-trnF (71)
21.	<i>Aristolochia bracteolata</i> Lam.	Leaves	PCR sequencing	trnK, Mat K (72)
22.	<i>Artemisia annua</i> Pall.	Leaves	PCR sequencing	ITS2, psbA-trnH, rpoC1, ycf5 (4)
23.	<i>Asparagus racemosus</i> Willd.	Leaves	RAPD	N/A (73)
24.	<i>Azadirachta indica</i> A. Juss.	Leaves	AFLP, SAMPL	N/A (74)
25.	<i>Bacopa monnieri</i> (L.) Wettst.	Leaves	RAPD	N/A (75)
26.	<i>Barleria cristata</i> L.	Leaves	RAPD, PCR sequencing	rbcL, matK (76)
27.	<i>Barleria cuspidata</i> F. Heyne ex Nees	Leaves	RAPD, PCR sequencing	rbcL, matK (76)
28.	<i>Barleria prattaensis</i> Santapau	Leaves	RAPD, PCR sequencing	rbcL, matK (76)
29.	<i>Barleria prionitis</i> L.	Leaves	RAPD, PCR sequencing	rbcL, matK (76)
30.	<i>Benincasa hispida</i> (Thumb.) Cogn.	Leaves	PCR sequencing	ITS2, psbA-trnH, rpoC1,

				ycf5 (4)
31.	<i>Berberis aristata</i> DC.	Stem	PCR sequencing	ITS (2)
32.	<i>Biophytum sensitivum</i> (L.) DC	Leaves	PCR sequencing	rbcL, matK (77)
33.	<i>Boerhavia diffusa</i> L.	Leaves	PCR sequencing	rbcL, matK (78)
34.	<i>Boswellia serrata</i> Roxb. ex. Colebr.	Leaves	RAPD	N/A (79)
35.	<i>Butea monosperma</i> (Lam.) Taub.	Leaves	RAPD, ISSR	N/A (80)
36.	<i>Cannabis sativa</i> L.	Leaves	STR	N/A (81)
37.	<i>Cardiospermum halicacabum</i> L.	Leaves	RAPD	N/A (82)
38.	<i>Carica papaya</i> L.	Leaves	PCR sequencing	rbcL (4)
39.	<i>Carthamus tinctorius</i> L.	Leaves	RAPD	N/A (83)
40.	<i>Cassia alata</i> L.	Leaves	PCR sequencing	ITS2, psbA-trnH, rbcL (4)
41.	<i>Cassia fistula</i> L.	Leaves	PCR sequencing	ITS2, psbA-trnH (4)
42.	<i>Cedrus deodara</i> (Roxb. ex D. Don) G. Don	Leaves	PCR sequencing	psbA-trnH, rpoC1, rbcL (4)
43.	<i>Celastrus paniculatus</i> Willd.	Leaves	RAPD	N/A (84)
44.	<i>Centella asiatica</i> (L.) Urb.	Leaves	PCR sequencing	ITS2, matK, rpoC1, psbA-trnH, rbcL, ycf5 (4)
45.	<i>Chenopodium ambrosioides</i> L.	Leaves	RAPD	N/A (85)
46.	<i>Chrysanthemum indicum</i> L.	Leaves	PCR sequencing	psbA-trnH (4)
47.	<i>Chrysopogon zizanioides</i> (L.) Roberty	Leaves	PCR sequencing	matK, rps12, rps19, rpl2, ndhA, psaC (86)
48.	<i>Cichorium intybus</i> L.	Leaves	PCR sequencing	ITS2, ycf5 (4)
49.	<i>Cinnamomum camphora</i> (L.) J. Presl	Leaves	PCR sequencing	ITS2, psbA-trnH (4)
50.	<i>Cinnamomum cassia</i> (L.) J. Presl	Leaves	PCR sequencing	matK, rpoC1, rbcL, ycf5 (4)
51.	<i>Cinnamomum verum</i> Presl	Leaves	PCR sequencing	psbA-trnH, rbcL, matK (87)
52.	<i>Cissus quadrangularis</i> L.	Leaves	PCR sequencing	rbcL, psbK-psbI (88)
53.	<i>Clerodendrum inerme</i> L. (Gaertn)	Leaves	PCR sequencing	rbcL, psbZ, trnG (89)
54.	<i>Citrullus colocynthis</i> (L.) Schrad.	Seedlings	SSR	N/A (90)
55.	<i>Clitoria ternatea</i> L.	Leaves	PCR sequencing	ITS 2, 5.8s rRNA (91)
56.	<i>Coccinia grandis</i> (L.) Voigt	Flower	SCAR	APETALA3 (92)
57.	<i>Coldenia procumbens</i> L.	Leaves	PCR sequencing	ndhF (93)
58.	<i>Coleus aromaticus</i> Benth.	Leaves	RAPD	N/A (94)
59.	<i>Coleus forskohlii</i> (Willd.) Briq.	Leaves	RAPD	N/A (94)
60.	<i>Coriandrum sativum</i> L.	Leaves	ISSR	N/A (95)
61.	<i>Costus speciosus</i> (J. Koenig) Sm. (<i>Cheilocostus speciosus</i> (J. Koenig) C.D. Specht)	Leaves	RAPD-PCR	N/A (96)
62.	<i>Crinum asiaticum</i> L.	Leaves	RAPD	N/A (97)
63.	<i>Crocus sativus</i> L.	Corms	RAPD	N/A (98)
64.	<i>Croton tiglium</i> L.	Leaves	PCR sequencing	ITS 1, ITS 2 (99)
65.	<i>Cucumis sativus</i> L.	Leaves	RAPD	N/A (100)
66.	<i>Cuminum cyminum</i> L.	Seeds	RAPD	N/A (101)
67.	<i>Curculigo orchioideis</i> Gaertn.	Leaves	PCR sequencing	psbA-trnH,

				ycf5 (4)
68.	<i>Curcuma aromatica</i> Salisb.	Leaves	PCR sequencing	ITS2, rbcL (4)
69.	<i>Curcuma longa</i> L.	Dried, crude drug	PCR sequencing	5S gene spacer (67)
70.	<i>Curcuma zedoaria</i> (Christm.) Roscoe	Rhizome	RAPD	N/A (102)
71.	<i>Cuscuta reflexa</i> Roxb.	Dried stem, seeds	RAPD	N/A (29)
72.	<i>Cyamopsis tetragonoloba</i> (L.) Taub.	Leaves	RAPD	N/A (103)
73.	<i>Cynanchum viminalis</i> (L.) L.	Leaves	RAPD	N/A (104)
74.	<i>Cynodon dactylon</i> (L.) Pers.	Leaves	RFLP, RAPD	N/A (105)
75.	<i>Cyperus rotundus</i> L.	Leaves	PCR sequencing	rbcL, rpoC1 (4)
76.	<i>Dalbergia sissoo</i> DC.	Leaves	RAPD, ISSR	N/A (106)
77.	<i>Datura metel</i> L.	Leaves	PCR sequencing, microarray (silicon)	5S gene spacer (67)
78.	<i>Dendrophthoe falcata</i> (L. f.) Ettingsh.	Leaves	RAPD, RFLP	N/A (107)
79.	<i>Derris indica</i> (Lam.) Bennet	Leaves	RAPD	N/A (108)
80.	<i>Desmodium gangeticum</i> (L.) DC.	Leaves	RAPD	N/A (109)
81.	<i>Digitalis purpurea</i> L.	Leaves	RAPD	N/A (110)
82.	<i>Dioscorea bulbifera</i> L.	Leaves	RAPD	N/A (111)
83.	<i>Dolichos purpureus</i> (L.) Sweet	Leaves	PCR sequencing	psbA-trnH, rbcL, rpoC1, ycf5 (4)
84.	<i>Drimys indica</i> (Roxb.) Jessop.	Leaves	RAPD, SRAP	N/A (112)
85.	<i>Eclipta prostrata</i> (L.) L.	Leaves	PCR, sequencing	5.8S rRNA, ITS2, 28S rRNA (113)
86.	<i>Embelia ribes</i> Burm. f.	Leaves	PCR sequencing	Whole genome sequenced (114)
87.	<i>Emilia sonchifolia</i> (L.) DC. ex DC.	Leaves	PCR sequencing	ITS2, psbA-trnH, matK, rbcL, ycf5 (4)
88.	<i>Ephedra gerardiana</i> Wall. ex Stapf	Stem	PCR sequencing	ITS, trnL, trnL-trnF (67)
89.	<i>Eucalyptus globulus</i> Labill.	Leaves	PCR sequencing	Ycf2, rps19, rpl16, rpl14 (115)
90.	<i>Euphorbia hirta</i> L.	Leaves	PCR sequencing	psbA-trnH, matK, rbcL (4)
91.	<i>Ficus benghalensis</i> L.	Leaves	RAPD	N/A (116)
92.	<i>Ficus benjamina</i> L.	Leaves	RAPD	N/A (116)
93.	<i>Ficus elastica</i> Roxb. ex Hornem.	Leaves	RAPD	N/A (116)
94.	<i>Ficus microcarpa</i> L. f.	Leaves	RAPD	N/A (116)
95.	<i>Ficus racemosa</i> L.	Leaves, stem	PCR sequencing	ITS1, ITS2, 5.8S rRNA (117)
96.	<i>Ficus religiosa</i> L.	Leaves	RAPD	N/A (116)
97.	<i>Foeniculum vulgare</i> Mill.	Leaves	PCR sequencing	ITS2, matK, rpoC1, psbA-trnH, ycf5 (4)
98.	<i>Gisekia pharnaceoides</i> L.	Leaves	PCR sequencing	5.8 S rRNA, ITS2 (118)
99.	<i>Gnetum gnemon</i> L.	Aerial parts	PCR sequencing	PsbA, trnH (67)
100.	<i>Glinus lotoides</i> L.	Leaves	PCR sequencing	ITS 1, ITS 2, 5.8 S & 26S rRNAs (119)
101.	<i>Gloriosa superba</i> L.	Leaves	RAPD	N/A (79)

102.	<i>Glycine max</i> (L.) Merr.	Leaves	PCR sequencing	ITS2, psbA-trnH, rbcL, ycf5 (4)
103.	<i>Glycyrrhiza glabra</i> L.	Leaves	PCR sequencing	rpoC1, rbcL, trnH-trnK, matK (120)
104.	<i>Gossypium herbaceum</i> L.	Leaves	RAPD	N/A (121)
105.	<i>Gymnema sylvestre</i> (Retz.) R. Br. ex Sm.	Leaves	RAPD	N/A (79)
106.	<i>Helicanthes elasticus</i> (Desv.) Danser	Leaves	RAPD	N/A (122)
107.	<i>Hyoscyamus niger</i> L.	leaves	PCR sequencing	rps3, rps4, nad5 (123)
108.	<i>Illicium verum</i> Hook. f.	Leaves	PCR, sequencing	psaJ, rps7, atpA, petN, psbA (124)
109.	<i>Indigofera tinctoria</i> L.	Leaves	PCR sequencing	rpoC1, ycf5 (4)
110.	<i>Ixora coccinea</i> L.	Leaves	RAPD	N/A (125)
111.	<i>Jatropha curcas</i> L.	Leaves	ISSR, RAPD	N/A (126)
112.	<i>Justicia adhatoda</i> L.	Leaves	PCR sequencing	trnS-trnG (127)
113.	<i>Kaempferia galanga</i> L.	Leaves	PCR sequencing	psbA-trnH, petA-psbJ (128)
114.	<i>Lawsonia inermis</i> L.	Leaves	PCR sequencing	ITS2, psbA-trnH, ycf5 (4)
115.	<i>Lepidium sativum</i> L.	Leaves	RAPD ISSR	N/A (129)
116.	<i>Leucas aspera</i> (Willd.) Link		PCR, sequencing	matK, trnL-trnF (130)
117.	<i>Linum usitatissimum</i> L.	Leaves	RAPD, RFLP	N/A (131)
118.	<i>Madhuca longifolia</i> (J. Koenig ex L.) J. F. Macbr.	Leaves	RAPD, RFLP	N/A (132)
119.	<i>Mangifera indica</i> L.	Leaves	PCR sequencing	psbA-trnH, rbcL (4)
120.	<i>Maranta arundinacea</i> L.	Leaves	PCR sequencing	trnK, matK (133)
121.	<i>Marsdenia tenacissima</i> (Roxb.)	Leaves	PCR sequencing	ITS2, psbA-trnH, rbcL (4)
122.	<i>Medicago sativa</i> L.	Leaves, dried ground material	PCR sequencing, RFLP	ITS (67)
123.	<i>Melia azedarach</i> L.	Leaves	PCR, sequencing	ITS1, ITS2, 5.8S rRNA (134)
124.	<i>Mentha arvensis</i> L.	Leaves	PCR, sequencing	Rpl32, ITS1, ETS, ycf (135)
125.	<i>Mesua ferrea</i> L.	Leaves	PCR, sequencing	ITS2, psbA-trnH, rbcL, ycf5 (4)
126.	<i>Mirabilis jalapa</i> L.	Root	PCR, sequencing	ITS 1, ITS2, 5.8S rRN (136)
127.	<i>Moringa oleifera</i> Lam.	Leaves	RAPD, AFLP, ISSR	N/A (137, 138)
128.	<i>Mucuna pruriens</i> (L.) DC.		AFLP, RAPD	N/A (139, 140)
129.	<i>Murraya koenigii</i> (L.) Spreng	Leaves	PCR sequencing	rbcL (141)
130.	<i>Musa paradisiaca</i> L.	Leaves	RAPD	N/A (142)
131.	<i>Myrica esculenta</i> Buch.-Ham. ex D. Don	Leaves	PCR sequencing	ITS, rbcL, 5.8S rRNA (143)
132.	<i>Myristica fragrans</i> Houtt.	Leaves	PCR sequencing	matK (144)
133.	<i>Nardostachys jatamansi</i> (D. Don) DC.	Leaves	RAPD	N/A (145)
134.	<i>Nervilia aragoana</i> Gaudich. (<i>Nervilia concolor</i> (Blume) Schltr.)	Leaves	RAPD	N/A (79)
135.	<i>Nigella sativa</i> L.	Seeds	RAPD	N/A (146)
136.	<i>Ocimum basilicum</i> L.	Leaves	PCR sequencing	rps2, rps12, rps7, ndhA, ndhE, ndhG (147)

137.	<i>Ocimum tenuiflorum</i> L.	Leaves	RAPD, AFLP	N/A (148)
138.	<i>Operculina turpethum</i> (L.) Silva Manso	Leaves	PCR sequencing	psbE, psbF, psbL, psbJ (149)
139.	<i>Origanum majorana</i> L.	Leaves	RAPD	N/A (79)
140.	<i>Oroxylum indicum</i> (L.) Kurz	Leaves	PCR, sequencing	ITS2, psbA-trnH, matK (4)
141.	<i>Phoenix dactylifera</i> L.	Leaves	PCR sequencing	rpl16, psbI, ndhH, rpoB, rps7, psbB, ycf2 (167)
142.	<i>Pistacia lentiscus</i> L.	Leaves	RAPD	N/A (150)
143.	<i>Phyllanthus amarus</i> Schumach. & Thonn.	Leaves	PCR, sequencing; multiplex PCR	ITS; atpB; rbcL (67)
144.	<i>Phyllanthus emblica</i> L.	Leaves	RAPD, SCAR	N/A (67)
145.	<i>Phyllanthus niruri</i> L.	Leaves	RAPD, sequencing SCAR	N/A (67)
146.	<i>Physalis angulata</i> L.	Leaves	PCR sequencing	matK (151)
147.	<i>Piper betle</i> L.	Leaves	RAPD	N/A (152)
148.	<i>Piper longum</i> L.	Leaves	PCR sequencing	ITS2, psbA-trnH, ycf5 (4)
149.	<i>Piper nigrum</i> L.	Seeds	RAPD	N/A (153)
150.	<i>Pistacia chinensis</i> Bunge	Leaves	RAPD	N/A (150)
151.	<i>Pistia stratiotes</i> L.	Leaves	PCR, sequencing	rbcL (4)
152.	<i>Plectranthus amboinicus</i> (Lour.) Spreng.	Whole plant	RAPD	N/A (154)
153.	<i>Plumbago zeylanica</i> L.	leaves	PCR, sequencing	18S & 5.8S rRNA, ITS1, ITS2, 28S rRNA (155)
154.	<i>Pongamia pinnata</i> (L.) Pierre	Seeds	RAPD, PCR, sequencing	N/A (156)
155.	<i>Prosopis cineraria</i> (L.) Druce	Leaves	RAPD, ISSR, SPAR	N/A (157, 158)
156.	<i>Psidium guajava</i> L.	Leaves	PCR, sequencing	psbA-trnH (4)
157.	<i>Psoralea corylifolia</i> L. (<i>Cullen corylifolium</i> (L.) Medik.)	Leaves	PCR, sequencing	ITS2, psbA-trnH, rpoC1 (4)
158.	<i>Pterocarpus santalinus</i> L. f.	Leaves	RAPD, SCAR	N/A (159)
159.	<i>Punica granatum</i> L.	Leaves	PCR, sequencing	psbA-trnH, rbcL, rpoC1 (4)
160.	<i>Raphanus raphanistrum</i> subsp. <i>sativus</i> (L.) Domin	Leaves	RAPD, ISSR	N/A (160)
161.	<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Leaves	RAPD	N/A (161)
162.	<i>Ricinus communis</i> L.	Leaves	AFLP, SSR	N/A (162)
163.	<i>Rubia cordifolia</i> L.	Leaves	PCR, sequencing	psbA-trnH, rbcL (4)
164.	<i>Ruta graveolens</i> L.	Leaves	RAPD	N/A (163)
165.	<i>Ruta chalepensis</i> L.	Leaves	RAPD	N/A (164)
166.	<i>Saccharum officinarum</i> L.	Leaves	PCR sequencing	Complete chloroplast genome (165)
167.	<i>Santalum album</i> L.	Leaves	PCR sequencing	ITS2 ,matK, psbA-trnH, ycf5 (4)
168.	<i>Sapindus mukorossi</i> Gaertn.	Leaves	RAPD	N/A (166)
169.	<i>Saraca asoca</i> (Roxb.) Willd	Leaves	RAPD	N/A (79)
170.	<i>Semecarpus anacardium</i> L.	Leaves	PCR sequencing	ETS (167)
171.	<i>Sesamum indicum</i> L.	Leaves	PCR, sequencing	FAD2, psbA, psbI, rps16,

				mat K, ycf2, ndhA, ndhH (168)
172.	<i>Sesbania grandiflora</i> (L.) Pers.	Leaves	PCR sequencing	ITS1, ITS2, 5.8S rRNA (169)
173.	<i>Sida cordata</i> (Burm.f.) Borss. Waalk.	Leaves	PCR sequencing	matK (170)
174.	<i>Solanum americanum</i> Mill.	Leaves	PCR sequencing	psbA, psbA-trnH (171)
175.	<i>Solanum capsicoides</i> All.	Leaves	PCR sequencing	trnS-trnG (172)
176.	<i>Solanum elaeagnifolium</i> Cav.	Leaves	PCR sequencing	Rpl32-trnL (173)
177.	<i>Solanum melongena</i> L.	Whole plant	SSR	EST (67)
178.	<i>Solanum torvum</i> Sw.	Leaves	PCR sequencing	matK (174)
179.	<i>Strychnos nux-vomica</i> L.	Leaves	PCR sequencing	ITS2, matK, rpoC1, psbA-trnH, ycf5 (4)
180.	<i>Swertia angustifolia</i> Buch.- Ham. ex D. Don.	Whole plant	PCR, sequencing; allele-specific diagnostic PCR	rpl16, ITS (67)
181.	<i>Swertia chirayita</i> (Roxb.) Buch.-Ham. ex C. B. Clarke	Whole plant	PCR, sequencing; allele-specific diagnostic PCR	rpl16, ITS (67)
182.	<i>Tamarindus indica</i> L.		PCR, sequencing	ITS1, ITS2, 5.8S & 26S rRNA (175)
183.	<i>Taxus wallichiana</i> Zucc.	Leaves	RAPD	N/A (176)
184.	<i>Tecomella undulata</i> (Sm.) Seem.	Leaves	AFLP	N/A (177)
185.	<i>Tephrosia purpurea</i> (L.) Pers.	Leaves	RAPD	N/A (178)
186.	<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Leaves	AFLP, RAPD, ISSR	N/A (179)
187.	<i>Terminalia bellerica</i> Gaertn. Roxb.	Leaves	AFLP, RAPD, ISSR	N/A (179)
188.	<i>Terminalia chebula</i> Retz.	Leaves	AFLP, RAPD, ISSR	N/A (179)
189.	<i>Tinospora cordifolia</i> (Willd.) Miers	Dried stem	RAPD	N/A (180)
190.	<i>Trachyspermum ammi</i> (L.) Sprague	Leaves	RFLP, RAPD, AFLP, SSR	N/A (181)
191.	<i>Tribulus terrestris</i> (L.) Schott	Fruit	AFLP, SAMPL, ISSR, RAPD	N/A (182)
192.	<i>Trichosanthes dioica</i> Roxb.	Leaves	RAPD	N/A (183)
193.	<i>Trigonella foenum-graecum</i> L.		PCR, sequencing	ITS 2, 5.8S & 28S rRNA (184)
194.	<i>Typhonium trilobatum</i> (L.) Schott	Leaves	RAPD	N/A (185)
195.	<i>Vitis vinifera</i> L.	Whole plant	SSR	EST (4)
196.	<i>Vitex pubescens</i> Vahl.	Leaves	RAPD	N/A (79)
197.	<i>Withania somnifera</i> (L.) Dunal	Leaves	RAPD	N/A (79)
198.	<i>Woodfordia fruticosa</i> (L.) Kurz	Leaves	PCR, sequencing	psbA-trnH rbcl (4)
199.	<i>Zingiber officinale</i> Roscoe	Leaves	PCR, sequencing	ITS2 ,psbA-trnH, matK (4)
200.	<i>Ziziphus jujuba</i> Mill.	Leaves	PCR sequencing	ITS2 ,matK, rpoC1, psbA-trnH, ycf5 (4)