

Table S8 PCR primers used for amplification of the candidate barcode regions

Primer number	FORWARD PRIMER2 (5'-3')	REVERSE PRIMER2 (5'-3')	start (bp)	end (bp)	Length	Gene or Intergenic	loci	SNP	Indel
ZDJ01	GCGAACGACGGGAATTGAAC	TCAGGAAGGCGTTATTGTTCC	2	399	397	<i>trnH-GUG_psbA</i>	131snp/209snp	2	0
ZDJ02	CCATAGGCTTTTCGCTTTCGC	AAACCAGTCTGGGCCGATTT	1484	2396	912	<i>psbA-trnK-UUU/trnK-UUU</i>	1573snp/2126snp/2197snp	3	0
ZDJ03	TGCTTGCGGAGAAAAACGAA	ATCTCAGCAACACGACTTCG	2878	3516	638	<i>matK</i>	2970snp/3085snp/3311snp	3	0
ZDJ04	ACACATCCACCTCCATTCCA	TTAGTGCCTGTTGCGGGAAA	3828	3930	102	<i>trnK-UUU</i>	3901snp	1	0
ZDJ05	CCGTTGAGTTAGCAACCCGA	TGCTCCCATAGAGTCCCATG	4302	4984	682	<i>trnK-UUU_rps16</i>	4413indel/4440snp/4798indel/4818indel	1	3
ZDJ06	TTTCTCCTCGTACGGCTCGA	AACGTGCGACTTGAAGGACA	5366	6174	808	<i>rps16_rps16</i>	5514indel/5894snp	1	1
ZDJ14	GTCGGCTCGAATGGTTACCA	AGGGCGGTTAATCAAGTCCG	12536	12768	232	<i>atpA_atpF</i>	12592indel	0	1
ZDJ15	TCGGACTTGATTAACCGCCC	GGTTCGGGAAGGGATCATGG	12748	13082	334	<i>atpF</i>	12955snp	1	0
ZDJ25	ATTGCCGATTCTAGTCCGCT	GTGAAAGGTGAGACAGGGGG	30954	31962	1008	<i>psbM/psbM_trnD-GUC</i>	31081snp/31750snp/31823snp	3	0
ZDJ39	CTCCCCGTGCTCTGATTCAT	AGGTGCCAAACAGAACCCAT	53684	53972	288	<i>trnV-UAC</i>	53711snp	1	0
ZDJ40	TTTCGTGCTCTTGTACGGT	TGGGTTTCGGTTGGATGGTAC	55219	56639	1420	<i>atpB</i>	55447snp/56183snp/56534snp	3	0
ZDJ41	TCCAACCGAACCCAATTCCA	CCCTCTTGACAGTGGTATATG TTGT	56626	56975	349	<i>atpB_rbcL</i>	56836snp-56889indel	1	1
ZDJ42	TGTAGTTTCCGTGGATCGAGC	TCTTGCCCCCTATTGTCATGA	58926	59251	325	<i>rbcL_accD</i>	59107indel	0	1
ZDJ43	GGATAGTAATGGGGGCGGTT	TAGGATCCCAAGTGCCTGGA	59510	60093	583	<i>accD</i>	59625snp/59681snp/59840snp/59989snp	4	0
ZDJ44	AGGTTCACAAAGCAGCCGAAT	GAGGCTTCCGGATTACTAATC AGT	60611	60939	328	<i>accD_psaI</i>	60891indel	0	1
ZDJ45	TATGGAAATCCGAGGCCAGG	CACCTCATTCGCCGACTCTA	62441	63446	1005	<i>ycf4_cemA</i>	62688snp/62845snp/63272indel	2	1
ZDJ46	TGTACCGCACACATTCTCTGG	AGGAATCACTCGATTTCTCTGG A	65512	66129	617	<i>petA_psbJ</i>	65588indel/66012snp/66100indel	1	2
ZDJ47	TGGTCTGAGCAAGATACGACT	AGGTCCAACCTGATCACCACG	68540	68859	319	<i>petL_petG</i>	68593snp	1	0
ZDJ48	ACCGAGCACCTGTGTGTTAC	ATTGGATCGGGGGTAAACGC	70491	70753	262	<i>rps18</i>	70702indel	0	1
ZDJ49	GAGCCCCTCGAAAGCTTGAT	TCATGGGCTGGGACAAAACA	71516	72363	847	<i>rpl20_rps12</i>	71616snp/72331snp	2	0
ZDJ50	TGTGACGCTGAACTGGACTC	ACGTCTAGCATTCCCTCACG	73243	73492	249	<i>clpP</i>	73443indel/73457indel	0	2
ZDJ51	TAATGGGTGTCGCAATGGCT	CGCGGTGCAACTACAAAAC	77313	77504	191	<i>psbH_petB</i>	77467snp/77478snp	2	0
ZDJ52	ATCGCCACAAAGGAAGAGCT	TCGCCTGAATTCGAGACGT	78120	78359	239	<i>petB</i>	78152indel	0	1
ZDJ53	GCAGATCCATTTGCAACCCC	CGACTGGACGACGAAATGGA	80089	80278	189	<i>petD</i>	80211snp	1	0

ZDJ54	CGCCTACGGATTAGTCGACA	ATGATTCAACCAGAGGGCGT	82241	82474	233	<i>rpl36_infA</i>	82378snp/82438snp	2	0
ZDJ55	GATTCGTAGACCCGGTCGAC	ATGGGTAGGGGACTGTTC	82909	83178	269	<i>rps8</i>	83038snp	1	0
ZDJ56	CAGCAACAGTGTCCCTACCC	CACGTATGGGTTCGGGGAAA	83157	84020	863	<i>rps8_rpl14/rpl14_rpl16</i>	83260indel/83261indel/83785indel	0	3
ZDJ57	TTCCCGAACCCATACGTG	TGCACGTGTGAATGGATCA	84001	85554	1553	<i>rpl16</i>	84098snp/84752snp/85243indel	2	1
ZDJ58	ACAATTCCTCGATGCCAGAG	AACCTGTAGACCATCCCCA	85891	87070	1179	<i>rps3/rps19/rpl2</i>	85984snp/86747snp/86969snp	3	0
ZDJ59	TGGTTGGTAAACAAGGATCGG T	GATACACCAGATCCGGCTCG	90093	90921	828	<i>yef2</i>	90171snp/90807snp	2	0
ZDJ60	GACTGGGTGGTCGAGTCATG	GGGATTGGCGACTTACCCAT	95967	96307	340	<i>yef15</i>	96162indel	0	1
ZDJ61	TCTCCCTCCAAGCCGTACAT	CCCTGACTTTGTCCGTGTCA	100472	100765	293	<i>rps7_trnV-GAC</i>	100517snp	1	0
ZDJ62	CGGAACCGGGGAAAGGATAC	AGGACTCACTAAGCCGGGAT	102104	102203	99	<i>rps8_trnV-GAC</i>	102148indel	0	1
ZDJ63	TACTGTAGGGGAGGTCCTGC	TCTGCTATTCTGCCAAAGCC	110580	111187	607	<i>rrn5_trnR-ACG/trnR-ACG_t rnN-GUU</i>	110680indel/111065indel	0	2
ZDJ64	TGGTATTAGTCTGGATACGGC A	GGTGGGCGCATCTCTCTTA	112487	113142	655	<i>yef1</i>	112645snp/112883indel/112961snp/112 978snp	3	1
ZDJ65	AGGATCCGGACAAAATCGATG A	GGTGGGCGCATCTCTCTTA	112796	113142	346	<i>yef1_ndhF</i>	112997indel	0	1
ZDJ66	TTTTCGAATAGGCTTTACCCC A	ACTTCGTCGTATGTGGGCTT	113844	115195	1351	<i>ndhF</i>	113888snp/114035snp/114634snp/1150 46snp	4	0
ZDJ67	TCACGAAGTCACAATTGGTCA A	TCCGGTTGAAAGAGATTTCCC T	115470	116105	635	<i>ndhF_rpl32</i>	115567snp/115710indel/115713indel/11 5860snp	2	2
ZDJ68	GGGAAATCTCTTTCAACCGGA	TCGCCATCATGCCCTTTTCT	116085	117380	1295	<i>rpl32_trnL-UAG/trnL-UAG_ ccsA</i>	116325snp/116386snp/116394indel/117 236indel	2	2
ZDJ69	TTCGGGAGCAGTATGGGCTA	AATTGTTCTGTTTACAATGCA AAA	117949	118404	455	<i>ccsA/ccsA_ndhD</i>	118076snp/118240snp/118333snp	3	0
ZDJ70	CGGGTGGCCCTATTTCTC	GAATCTGCCTGTCCAACGGA	119857	120166	309	<i>ndhD</i>	119907snp	1	0
ZDJ72	GCTACAGCGATTGCACCTAT	CTGGTCAGGTCAACAAAGTCA	121109	121691	582	<i>ndhG</i>	121282snp/121611snp	2	0
ZDJ73	TGACTTTGTTGACCTGACCAG T	GGGGCCGAATCCACTTTGAA	121671	122371	700	<i>ndhG_ndhI/ndhI</i>	121724indel/122272snp	1	1
ZDJ74	GCTCCTCGAGGGTCACAAAT	ATCATGGCTGAAGCGGGTT	123237	124014	777	<i>ndhA</i>	123334snp/123634indel/123934indel	1	2
ZDJ75	GGTGGCAGCTTCGAATAGGT	CGCCTGCTCGCTTATTTGTC	125551	126179	628	<i>ndhH</i>	125618snp/125696snp/125979snp/1260	4	0

ZDJ76	ACCATGCATTGATGGGTGGT	GGCAGTCGTTTCAGCATGTT	125926	126801	875	<i>ndhH_rps15/rps15_ycf1</i>	02snp 126086indel/126583snp/126676snp	2	1
ZDJ77	TTGACCTTGTTCCCATGCA	ACAACACACATAAACATAAG GGCA	126938	128237	1299	<i>ycf1</i>	127238snp/127582snp/127930indel/128 136snp	3	1
ZDJ78	TGACCTCTTAACCAGTTTTTC A	TGGATTATCAAGGGCATTCCG T	128555	129429	874	<i>ycf1</i>	128638snp/128650snp/128653snp/1288 48snp/128849snp/129175snp/129305ind el/129370snp/129374snp	8	1
ZDJ79	TCTGCTACTTCTATCCGCGC	AGTCCCTCGATGGTCATACA	129980	130498	518	<i>ycf1</i>	130158snp/130472snp	2	0
ZDJ80	CGGAATCCATTCTTCCTTGTT TG	TGGTATTAGTCTGGATACGGC A	130596	131798	1202	<i>ycf1</i>	130646snp/131326snp/131642snp	3	0
ZDJ81	TCTGCTATTCTGCCAAGCC	TACTGTAGGGGAGGTCCTGC	133098	133705	607	<i>trnN-GUU_trnR-ACG/trnR- ACG_rrn5</i>	133217indel/133617indel	0	2
ZDJ82	AGGACTCACTAAGCCGGGAT	CGGAACCGGGGAAAGGATAC	142082	142181	99	<i>trnV-GAC_rps7</i>	142133indel	0	1
ZDJ83	CCCTGACTTTGTCCGTGCA	TCTCCCTCCAAGCCGTACAT	143520	143813	293	<i>trnV-GAC_rps7</i>	143770snp	1	0
ZDJ84	GGGATTGGCGACTTACCCAT	GACTGGGTGGTCGAGTCATG	147978	148318	340	<i>trnL-CAA_ycf15</i>	148122indel	0	1
ZDJ85	GATACACCAGATCCGGCTCG	TGGTTGGTAAACAAGGATCGG T	153364	154192	828	<i>ycf2</i>	153480snp/154116snp	2	0
ZDJ86	AACCCTGTAGACCATCCCCA	ACGGATTCGCTACAAAAGGGT	157215	157473	258	<i>rpl2</i>	157318snp	1	0