

Supplementary Table 1

Abreviations: nucleotide composition of acceptor stem (AA), donor (DA), T-loop (DL), anticodon loop (ACA), anticodon loop (ACL), variable loop (VL), pseudouridine arm (PA) and pseudourine loop (PL) of chloroplast rRNA.

Gene	Sequence (FRN)	Begin	End	Intron	Direction	Type	Anticodon	Length	AA	DA	DL	ACA	ACL	VL	PA	PL
<i>S. corydalis</i> ₁₆₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	261	334	0	reverse	Lys	GUG	74	7	3	11	5	7	5	7	
<i>S. corydalis</i> ₂₈₉	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1839	4431	1	reverse	Lys	UUU	72	7	4	7	4	7	6	5	
<i>S. corydalis</i> ₈₈₄	TGGGGTACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	7209	7289	0	reverse	Gln	UUG	72	7	4	7	4	7	6	5	
<i>S. corydalis</i> ₉₇₈	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	12180	12260	0	reverse	Lys	GUG	72	7	3	11	5	7	5		
<i>S. corydalis</i> ₇₂₃₉	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	9728	10489	1	forward	Gly	UCC	70	7	4	7	4	7	5		
<i>S. corydalis</i> ₁₀₆₆₈	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	10668	10739	0	forward	Arg	UCU	72	7	4	8	5	7	4		
<i>S. corydalis</i> ₂₈₈₃₄	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	28834	28904	0	forward	Cys	GCA	71	7	3	9	5	7	4		
<i>S. corydalis</i> ₃₁₈₇₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	31844	31647	0	reverse	Asp	GUC	74	7	4	9	5	7	5		
<i>S. corydalis</i> ₃₁₇₂₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	31825	31889	0	forward	Lys	GUG	72	7	4	8	5	7	5		
<i>S. corydalis</i> ₃₁₈₇₄	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	31871	31643	0	reverse	Gly	UUC	73	7	4	9	5	7	4		
<i>S. corydalis</i> ₃₂₆₆₈	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	32668	32739	0	forward	Thr	GGU	72	7	4	7	5	7	5		
<i>S. corydalis</i> ₃₆₈₁₇	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	36817	36909	0	reverse	Ser	UGA	93	7	4	9	5	7	24		
<i>S. corydalis</i> ₃₇₇₇₆	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	37776	37846	0	reverse	Gly	GCC	71	7	2	11	5	7	4		
<i>S. corydalis</i> ₄₀₂₇₅	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	38189	38091	0	reverse	Met	CAU	74	6	4	9	5	7	5		
<i>S. corydalis</i> ₄₇₄₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	46275	46285	0	forward	Ser	GGA	87	7	3	11	5	7	18		
<i>S. corydalis</i> ₄₇₄₃₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	47633	47505	0	reverse	Thr	UGU	73	7	4	8	5	7	5		
<i>S. corydalis</i> ₄₈₃₀₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	48473	49062	1	forward	Lys	UAA	87	7	3	11	5	9	16		
<i>S. corydalis</i> ₄₉₅₅₉	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	49559	49631	0	forward	Phe	GAA	73	7	4	8	5	7	5		
<i>S. corydalis</i> ₅₃₂₅₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	53253	53302	1	reverse	Val	UAC	75	7	4	8	4	9	6		
<i>S. corydalis</i> ₅₄₀₉₅	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	54095	54166	0	reverse	Met	CAU	76	4	4	8	5	7	5		
<i>S. corydalis</i> ₆₈₂₅₈	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	68258	68331	0	reverse	Trp	CCA	74	7	4	9	5	7	5		
<i>S. corydalis</i> ₆₈₄₉₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	68493	68566	0	reverse	Pro	UGG	74	7	4	9	5	7	5		
<i>S. corydalis</i> ₈₈₄₄₇	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	88447	88520	0	reverse	Ile	CAU	74	7	3	10	5	7	5		
<i>S. corydalis</i> ₉₆₂₂₈	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	96228	96308	0	reverse	Lys	GAA	81	7	3	10	5	7	13		
<i>S. corydalis</i> ₁₀₃₈₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	10383	10389	0	forward	Arg	UCU	72	7	4	9	5	7	5		
<i>S. corydalis</i> ₁₀₄₅₅₈	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	104558	105574	1	forward	Ile	GAU	77	4	7	5	12	5			
<i>S. corydalis</i> ₁₀₅₆₃₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	105633	106520	1	forward	Ala	UGC	73	7	4	8	5	7	5		
<i>S. corydalis</i> ₁₁₀₂₈₉	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	110289	110362	0	reverse	Arg	ACG	74	7	4	9	5	7	5		
<i>S. corydalis</i> ₁₁₀₆₆₇	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	110667	111038	0	reverse	Asn	GUU	72	7	4	7	5	7	5		
<i>S. corydalis</i> ₁₁₆₇₃₈	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	116738	116817	0	reverse	Lys	UAG	80	7	3	11	5	7	11		
<i>S. corydalis</i> ₁₃₂₄₆₇	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	132467	132588	0	reverse	Arg	UCU	72	7	4	9	5	7	5		
<i>S. corydalis</i> ₁₃₃₁₄₃	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	133143	133216	0	forward	Arg	ACG	74	7	4	9	5	7	5		
<i>S. corydalis</i> ₁₃₆₉₈₅	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	136985	137872	1	reverse	Ala	UGC	73	7	4	8	5	7	5		
<i>S. corydalis</i> ₁₃₇₉₃₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	137931	138497	1	reverse	Ile	GAU	77	4	7	5	12	5			
<i>S. corydalis</i> ₁₄₀₉₅₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	140951	141028	0	reverse	Val	GAC	72	7	4	7	5	7			
<i>S. corydalis</i> ₁₄₁₇₉₇	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	141797	142177	0	reverse	Met	CAU	74	6	4	9	5	7			
<i>S. corydalis</i> ₁₅₄₉₈₅	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	154985	155058	0	forward	Ile	CAU	74	7	3	10	5	7			
<i>S. corydalis</i> ₁₅₆₂₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	156241	156314	0	reverse	Ala	UGC	73	7	4	8	5	7			
<i>S. corydalis</i> ₁₅₆₂₄₂	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	156242	156315	0	reverse	Lys	UUG	74	7	3	11	5	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAATTCGGGTCTGGCC	1841	4433	1	reverse	Lys	UUU	72	7	4	7	4	7			
<i>S. corydalis</i> ₁₈₄₁	GGGATGACACCAAGGATGAAAGGACGGATTTGATGACCAAGCTTCGGGGTCAAT															