

Haplomitrium ensiformis mitochondrial RNA editing

numbers		average efficiencies	
1618	total sites		
1091	C to U (eU)	64%	
527	U to C (eC)	71%	
1165	codon changes		... of these also documented:
920	strongly expected	83%	386 in Lycophytes and
118	weakly expected	73%	73 in Eusporangiates 100
127	not predicted	53%	27 in angiosperms 103
254	silent	29%	1 unique in ferns
59	NESIs	44%	4 ancestral, backward adaptive
57	intron	43%	2 variable
21	5'-UTR	46%	
45	3'-UTR	27%	51 expected, but unedited

Chr	Pos	check dist	Edit	Effic.	Remarks	Edit known in	and in ...	17 EditFacts
8	193100	473	atp1eU1375L	99%	strong	Lycophytes		
8	193573	404	atp1eU610RC	99%	strong	Lycophytes		
8	193977		atp1eU1014S5	95%	silent			
8	156366	287	atp4eU21FF	5%	silent			
8	156653	88	atp4eC308T	96%	not predicted			
8	156741	36	atp4eU356AA	6%	silent			
8	156777	10	atp4eU432AA	80%	silent			
8	156787		atp4eU442HY	5%	not predicted			
7	185290	15	atp6eU7285L	96%	strong	Isoetes	Eusporangiates	
7			atp6eU716T1 missing					
7	185305	22	atp6eU713PL	59%	strong	Isoetes	Angiosperms	
7	185327	17	atp6eC691*Q	63%	strong	Isoetes		
7	185344	6	atp6eU6745L	97%	strong	Isoetes	Eusporangiates	
7	185350	6	atp6eU6685L	97%	strong	Isoetes	Angiosperms	
7	185356	3	atp6eU662T1	94%	unique	Eusporangiates		
7	185359	92	atp6eU6595L	96%	strong	Isoetes	Eusporangiates	
7			atp6eC631FL missing					
7	185451	38	atp6eU567VV	21%	silent			
7	185489	105	atp6eC529CR	97%	strong	Isoetes		
7	185594	18	atp6eU424LF	97%	strong	Selaginella		
7	185612	2	atp6eC406*Q	94%	strong	Isoetes		
7	185614	15	atp6eU4045F	96%	strong	Isoetes	Ophioglossum	
7	185629	24	atp6eU389T1	97%	strong			
7	185653	6	atp6eU365PL	98%	strong	Selaginella	Angiosperms	
7	185659	16	atp6eU3595L	95%	strong	Selaginella		
7	185675	36	atp6eC343YH	97%	strong			
7	185711	2	atp6eC307*Q	83%	strong			
7	185713	7	atp6eU3055L	84%	strong	Selaginella	Angiosperms	
7	185720	3	atp6eU298RC	96%	strong	Isoetes	Angiosperms	
7	185723	2	atp6eU2951F	94%	strong			
7	185725	21	atp6eU293PL	96%	strong	Isoetes		
7	185746	1	atp6eU272PF PL	96%	strong	Lycophytes	Angiosperms	
7	185747	18	atp6eU271PF P5	96%	strong	Isoetes		
7	185765	8	atp6eC253*Q	92%	strong			
7	185773	16	atp6eU2455F	6%	not predicted			
7	185789	16	atp6eC229*Q	96%	strong	Isoetes		
7	185805	1	atp6eU213PP_LL	67%	NESi			
7	185806	26	atp6eU212PL	98%	strong	Angiosperms	Eusporangiates	
7			atp6eU197T1 missing					
7	185832	8	atp6eU186LL	24%	silent			
7	185840	45	atp6eC178*Q	88%	strong			
7	185855	12	atp6eU133HY	8%	variable			
7	185897	10	atp6eU121LL	79%	silent			
7	185907	6	atp6eU112H	8%	silent			
7	185913	1	atp6eU105PP_LL	57%	NESi			
7	185914	9	atp6eU104PL	96%	strong	Isoetes	Eusporangiates	
7	185923	14	atp6eU955F	97%	silent	Angiosperms		
7	185937	1	atp6eU81H TT	7%	NESi			
7	185938	47	atp6eC80IT	97%	strong			
7	185985	16	atp6eU33II	17%	silent			
7	186001	15	atp6eU17PL	95%	strong	Isoetes	Ophioglossum	
7	186016		atp6eU2TM	82%	strong	Isoetes	Eusporangiates	
8	185213	19	atp8eC498*Q	40%	not predicted			
8	185232	14	atp8eC480SS	71%	silent			
8	185246	64	atp8eC466*Q	91%	not predicted			
8	185310	1	atp8eU402PP_LL	cDNA	NESi			
8	185311	45	atp8eU401PL	cDNA	not predicted			
8	185356	7	atp8eU356PL	39%	weak	Psilotum		
8	185363	2	atp8eC349*R	cDNA	strong			
8	185365	4	atp8eC347LS	cDNA	strong			
8	185369	27	atp8eU343LF	88%	not predicted			
8	185396	17	atp8eU316HY	3%	ancestral			
8	185413	30	atp8eC299LP	10%	not predicted			
8	185443	75	atp8eC269MT	92%	not predicted			
8	185518	13	atp8eU134PL	24%	weak	Angiosperms		
8	185531	57	atp8eC181*R	cDNA	strong			
8	185588	42	atp8eC124*R	17%	strong	Ophioglossum		
8	185630	2	atp8eU82HY	cDNA	ancestral			
8	185632	5	atp8eU805L	cDNA	ancestral	Selaginella		
8	185637	5	atp8eU75VV	7%	silent			
8	185642	5	atp8eU70HY	cDNA	strong	Isoetes		
8	185647	7	atp8eU65T1	cDNA	not predicted			
8	185654	9	atp8eU58HY	11%	ancestral	Lycophytes		
8	185663	6	atp8eU49RC	cDNA	strong	Lycophytes		
8	185669	9	atp8eU43RW	cDNA	strong	Lycophytes	Psilotum	
8	185678	4	atp8eC34*Q	19%	strong			
8	185682	6	atp8eU31LL	cDNA	silent			
8	185688	1	atp8eU240L TT	cDNA	NESi			
8	185689	12	atp8eC23IT	cDNA	strong			
8	185701	4	atp8eU115L	cDNA	strong	Lycophytes	Eusporangiates	
8	185705	1	atp8eC7*Q	cDNA	strong			
8	185706	4	atp8eU6PP	cDNA	NESi, 5'			
8	185710		atp8eU2TM	cDNA	strong	Lycophytes	Ophioglossum	
8	14315	15	atp9eU221SF	99%	strong	Lycophytes		
8	14330	12	atp9eU2065L	99%	strong	Lycophytes	Ophioglossum	
8	14342	9	atp9eU194TM	99%	strong	Lycophytes		
8	14351	36	atp9eU1855F	99%	strong	Selaginella	Ophioglossum	
8	14387	3	atp9eU149T1	99%	strong	Selaginella		
8	14390	16	atp9eC146VA	99%	strong	Isoetes		
8	14406	14	atp9eC130*Q	90%	strong			
8	14420	7	atp9eC116LP	94%	strong			
8	14427	9	atp9eC109*R	89%	strong	Isoetes		
8	14436	5	atp9eU100PS	99%	strong	Selaginella	Psilotum	
8	14441	3	atp9eU95T1	98%	strong			
8	14444	4	atp9eU925L	99%	strong	Lycophytes	Physcomitrium	
8	14448	5	atp9eU88PS	95%	strong	Lycophytes		
8	14453	18	atp9eU835F	100%	strong	Lycophytes	Ophioglossum	
8	14471		atp9eU65AV	92%	weak	Selaginella		
8	165581	40	cobeU-1	25%	5'-UTR			
8	165621	34	cobeC40YH	72%	not predicted			
8			cobeC44IT missing					
8	165655	283	cobeC74IT	98%	strong			
8			cobeU281T1 missing					
8	165938	132	cobeU357H	43%	silent			
8	166070	602	cobeU489H	39%	silent			
8	166673	11	cobeU1092H	14%	silent			
8	166684	265	cobeU1103AV	9%				
8	166949		cobeU1368AA	82%	silent			
3	23393	16	cox1eU-121	90%	5'-UTR			
3	23409	10	cox1eU-104	85%	5'-UTR			
3	23419	69	cox1eU-94	7%	5'-UTR			
3	23488	24	cox1eU-25	41%	5'-UTR			
3	23512	49	cox1eU-1	31%	5'-UTR			
3	23561	9	cox1eC49*Q	91%				
3	23570	45	cox1eC58*Q	85%				
3	23615	45	cox1eU103HY	98%	strong	Lycophytes	Ophioglossum	

3	23660	1	cox1eU148LS LL	93%	strong	Isoetes	
3	23661	6	cox1eC149LS LP	95%	strong		
3	23667	15	cox1eU155SL	89%	strong	Lycophytes	
3	23682	5	cox1eU170SL	96%	strong	Lycophytes	
3	23687	19	cox1eC175*Q	92%	strong		
3	23706	33	cox1eU154PL	98%	strong	Lycophytes	Eusporangiates
3	23739	3	cox1eU227TI	96%	strong	Selaginella	
3	23742	5	cox1eC230IT	92%	strong		
3	23747	10	cox1eC235YH	93%	strong		
3	23757	6	cox1eU245SL	84%	strong	Lycophytes	Pilotum
3	23763	3	cox1eU251TI	92%	strong	Selaginella	
3	23766	2	cox1eU254SF	92%	strong	Lycophytes	Pilotum
3	23768	3	cox1eU256LF	77%	strong	Selaginella	
3	23771	1	cox1eU259PL P5	18%	secondary silent		
3	23772	6	cox1eU260PL PL	73%	not predicted		
3	23778	9	cox1eU266TM	78%	strong	Lycophytes	
3	23787	13	cox1eU275TM	76%	strong		
3	23800	7	cox1eU288FF	8%	silent		
3	23807	10	cox1eU295RW	95%	strong	Lycophytes	
3	23817	9	cox1eC305LP	92%	strong		
3	23826	26	cox1eU314TI	90%	strong		
3	23852	14	cox1eC340*R	91%	strong	Isoetes	Pilotum
3	23866	1	cox1eU354HI	35%	NESt		
3	23867	1	cox1eU355LS LL	96%	strong	Lycophytes	Pilotum
3	23868	5	cox1eC356LS LP	89%	strong		
3	23873	7	cox1eU361RW	92%	strong	Lycophytes	Pilotum
3	23880	21	cox1eU368SL	96%	strong	Selaginella	
3	23901	9	cox1eU389PL	94%	strong	Lycophytes	
3	23910	521	cox1eC398LS	93%	strong		
3	24431	89	cox1i395g1eU481	24%	intron		
3	24520	100	cox1i395g1eC570	55%	intron		
3	24620	5	cox1eC466YH	94%	strong		
3	24625	27	cox1eU471SS	7%	silent		
3	24652	5	cox1eU498FF	96%	silent		
3	24657	2	cox1eU503PL	98%	strong	Lycophytes	Angiosperms
3	24659	16	cox1eC505YH	99%	strong		
3	24675	3	cox1eC521LS	97%	strong	Isoetes	
3	24678	10	cox1eC524FS	96%	strong		
3	24688	1	cox1eU534GG	90%	NESt		
3	24689	1	cox1eU535LS LF	96%	weak		
3	24690	18	cox1eC536LS LP	94%	weak		
3	24708	12	cox1eC554IT	95%	strong		
3					cox1eU559LF missing		
3	24720	23	cox1eU566TM	93%	strong		
3	24743	10	cox1eC589YH	94%	strong		
3	24753	15	cox1eC599LP	97%	strong		
3	24768	6	cox1eC614FS	95%	strong		
3	24774	24	cox1eU620SL	89%	strong	Lycophytes	Angiosperms
3	24798	6	cox1eU644PL	96%	strong	Selaginella	
3	24804	3	cox1eU650PL	95%	strong		
3	24807	6	cox1eC653LP	93%	strong		
3	24813	12	cox1eU659PL	94%	strong	Selaginella	
3	24825	9	cox1eU671TI	94%	strong		
3	24834	3	cox1eU680SL	96%	strong	Lycophytes	
3	24837	8	cox1eU683SL	96%	strong	Isoetes	
3	24845	7	cox1eC691*R	76%	strong		
3	24852	6	cox1eU698SF	91%	strong		
3	24858	6	cox1eC704IT	92%	strong		
3	24864	4	cox1eU710SF	89%	strong		
3	24868	34	cox1eU714FF	64%	silent		
3	24902	7	cox1eC748*Q	84%	strong	Isoetes	
3	24909	2	cox1eU755PL	90%	strong	Selaginella	Eusporangiates
3	24911	1	cox1eU757PF P5	91%	strong	Selaginella	
3	24912	7	cox1eU758PF PL	91%	strong	Selaginella	Eusporangiates
3	24919	2	cox1eU765FF	96%	silent		
3	24921	5	cox1eU767SF	96%	strong	Selaginella	Pilotum
3	24926	4	cox1eC772YH	92%	strong		
3	24930	8	cox1eC776LP	94%	strong		
3	24938	4	cox1eU764HY	96%	strong	Selaginella	Pilotum
3	24942	3	cox1eU788TI	95%	strong	Selaginella	
3	24945	8	cox1eU791PL	94%	strong	Lycophytes	Angiosperms
3	24953	21	cox1eC799SP	96%	strong		
3	24974	19	cox1eC820YH	97%	strong		
3	24993	24	cox1eC839FS	96%	strong		
3	25017	37	cox1eU863SL	98%	strong		
3	25054	8	cox1eU900LL	91%	silent		
3	25062	11	cox1eU908TI	99%	weak	Selaginella	
3	25073	3	cox1eC919YH	98%	strong		
3	25076	4	cox1eC929YH	95%	strong		
3	25080	2	cox1eU926TM	97%	strong	Selaginella	
3	25082	2	cox1eU928LF	97%	strong	Selaginella	
3	25084	31	cox1eU930FF	91%	silent		
3	25115	16	cox1eU961HY	97%	strong	Selaginella	
3	25131	6	cox1eC977TI	98%	strong		
3	25137	12	cox1eU983TI	97%	strong	Selaginella	
3	25149	17	cox1eC995LP	95%	strong		
3	25166	1	cox1eU1012PF P5	96%	strong	Selaginella	
3	25167	5	cox1eU1013PF PL	98%	strong	Selaginella	
3	25172	7	cox1eU1018RW	98%	strong	Lycophytes	
3	25179	3	cox1eC1025VA	94%	strong		
3	25182	20	cox1eC1028IT	88%	strong		
3	25202	13	cox1eC1048*Q	24%	strong		
3	25215	6	cox1eC1061LP	83%	strong		
3	25221	20	cox1eU1067SL	90%	strong	Selaginella	
3	25241	4	cox1eU1087LF	95%	strong	Selaginella	
3	25245	18	cox1eU1091SL	97%	strong	Selaginella	
3	25263	15	cox1eU1109PL	96%	strong	Lycophytes	Angiosperms
3	25278	29	cox1eU1124SL	97%	strong	Selaginella	
3	25307	11	cox1eC1153YH	96%	strong	Isoetes	
3	25318	13	cox1eU1164YY	11%	silent		
3	25331	6	cox1eC1177YH	96%	strong	Isoetes	
3	25337	3	cox1eC1183YH	89%	strong	Isoetes	
3	25340	6	cox1eU1186HY	94%	strong	Lycophytes	
3	25346	3	cox1eC1192PL	62%	strong	Isoetes	
3	25349	1	cox1eU1195LS LF	66%	strong		
3	25350	20	cox1eC1196LS LP	70%	strong	Isoetes	
3	25370	7	cox1eU1216LI	95%	silent		
3	25377	8	cox1eC1223VA	89%	strong		
3	25385	6	cox1eU1231HY	90%	strong	Lycophytes	Angiosperms
3	25391	15	cox1eU1237RW	88%	strong	Lycophytes	Angiosperms
3	25406	9	cox1eU1252PS	54%	weak	Selaginella	
3	25415	7	cox1eC1261*Q	52%	strong		
3	25422	14	cox1eC1268LP	66%	strong		
3	25436	9	cox1eC1282*Q	40%	strong		
3	25445	3	cox1eU1291LF	28%	strong	Selaginella	
3	25448	10	cox1eU1294RW	32%	strong		
3	25458	9	cox1eU1304SF	80%	strong	Selaginella	Angiosperms
3	25467	6	cox1eU1313AV	83%	strong	Selaginella	
3	25473	9	cox1eU1319PL	93%	weak	Isoetes	Angiosperms
3	25482	3	cox1eU1328SF	93%	strong		
3	25485	3	cox1eC1331LP	94%	strong		
3	25488	15	cox1eU1334TM	95%	strong	Selaginella	
3	25503	14	cox1eU1349PL	95%	strong	Isoetes	Ophioglossum
3	25517	60	cox1eC1363CR	96%	strong	Isoetes	
3					eC1394VA missing		
3	25577	1	cox1eU1423LS LF	96%	strong	Isoetes	Angiosperms
3	25578	8	cox1eC1424LS LP	96%	strong	Isoetes	
3	25586	1	cox1eC1432LS LF	96%	weak	Isoetes	
3	25587	6	cox1eC1433LS LP	91%	strong		
3	25593	11	cox1eU1439SL	97%	not predicted		
3	25604	72	cox1eU1450RC	96%	weak	Pilotum	Angiosperms
3	25676	13	cox1eC1522*Q	95%	strong		

3	25689	2	cox1eC1535IT	98%	strong		
3	25691	6	cox1eC1537FL	96%	strong	Isoetes	
3	25697	9	cox1eU1543RW	95%	strong		
3	25706	36	cox1eC1552*Q	94%	strong		
3	25742	61	cox1eC15885P	84%	strong		
3	25803	38	cox1eU+26	22%	3'-UTR		
3	25841		cox1eU+64	65%	3'-UTR		
2	19622	52	cox2eU766Q*	96%			
2	19570	20	cox2eU714VV	33%	silent		
2	19550	12	cox2eC694YH	97%	strong		
2	19538	12	cox2eU682RC	96%	weak	Selaginella	
2	19526	3	cox2eU670RC	97%	strong	Selaginella	
2	19523	6	cox2eC667*Q	95%	strong	Isoetes	
2	19517	15	cox2eU661HY	88%	strong	Selaginella	
2	19502	5	cox2eC646*R	96%	strong		
2	19497	25	cox2eU641TI	95%	variable		
2	19472	18	cox2eC616CR	97%	strong		
2	19454	5	cox2eU598RC	99%	strong	Selaginella	
2	19449	6	cox2eU593AV	98%	strong		
2	19443	1	cox2eU5875L SF	96%	strong	Lycophytes	
2	19442	21	cox2eC5865L SP	6%			
2	19421	14	cox2eC565YH	92%	strong		
2	19407	1	cox2eC551L5 LP	95%	strong		
2	19406	15	cox2eU550L5 LL	96%	strong	Lycophytes	Angiosperms
2	19391	44	cox2eC535CR	98%	strong		
2	19347	9	cox2eU491PL	96%	strong	Selaginella	Pilotum
2	19338	4	cox2eU4825L	97%	strong	Lycophytes	Pilotum
2	19334	24	cox2eC478*Q	92%	strong		
2	19310	5	cox2eC4545P	94%	strong		
2	19305	25	cox2eC449MT	7%	not predicted		
2	19280	900	cox2eC424*Q	94%	strong		
2	18330	47	cox2i373g2eU81	77%	intron		
2	18283	46	cox2i373g2eU34	6%	intron		
2	18237	89	cox2eC376*Q	66%	strong		
2	18148	79	cox2eU2875L	96%	strong	Angiosperms	
2			cox2eU271LF missing				
2	18069	7	cox2eC208*R	96%	strong		
2	18062	2	cox2eU201LL	6%	silent		
2	18060	62	cox2eU199LF	98%	strong	Isoetes	
2	17998	15	cox2eU137PL	99%	not predicted		
2	17983	16	cox2eU1225L	98%	strong	Selaginella	
2	17967	5	cox2eC106*Q	96%	strong		
2	17962	6	cox2eU101TM	95%	strong		
2	17956	2	cox2eC95T	97%	strong		
2	17954	11	cox2eU93AA	49%	silent		
2	17943	12	cox2eC82*Q	96%	strong	Isoetes	
2	17931	16	cox2eC70*Q	91%	strong	Isoetes	
2	17915	5	cox2eU54DD	32%	silent		
2	17910	3	cox2eU49RC	93%	strong	Isoetes	Pilotum
2	17907	8	cox2eU46LF	92%	weak		
2	17899	31	cox2eC38LP	97%	weak		
2	17868		cox2eU7LF	28%	not predicted		
1	28792	98	cox3eU16LL	93%	silent		
1	28890	223	cox3eU114AA	68%	silent		
1	29113	29	cox3eC337CR	94%	strong		
1	29142	10	cox3eU366TT	31%	silent		
1	29152	17	cox3eC376*Q	88%	strong		
1	29169	14	cox3eU392YY	6%	silent		
1	29183	1	cox3eU4075F	93%	strong	Lycophytes	
1	29184	23	cox3eU4085S_FF	40%	NESI		
1	29207	2	cox3eU4315F	97%	strong	Lycophytes	
1	29209	21	cox3eU433LL	63%	silent		
1	29230	13	cox3eU454LF	96%	strong	Selaginella	
1	29243	128	cox3eU4675L	94%	strong		
1			cox3eU565L5 LF missing			Isoetes	Ophioglossum
1			cox3eC566L5 LP missing				
1	29371	24	cox3eC595VH	98%	strong		
1	29395	12	cox3eC619*Q	93%	strong		
1	19407	48	cox3eU631HY	91%	strong		
1	19455	25	cox3eC679*Q	98%	strong	Isoetes	
1	19480	6	cox3eC704LP	97%	strong		
1	19486	24	cox3eC710IT	93%	strong		
1	19510	6	cox3eC734FS	90%	strong		
1	19516	62	cox3eU740SF	94%	strong		
1	19578	12	cox3eU802RC	94%	strong	Lycophytes	
1	19590	54	cox3eC814*Q	94%	strong	Ophioglossum	
1	19644	6	cox3eU868RW	99%	strong	Selaginella	
1	19650	3	cox3eU874RW	95%	strong	Lycophytes	Physcomitrium
1	19653	4	cox3eC877YH	96%	strong		
1	19657	1	cox3eU8815F	96%	strong	Lycophytes	Ophioglossum
1	19658	13	cox3eU882FF	45%	NESI		
1	19671	10	cox3eU895RW	98%	strong	Lycophytes	Angiosperms
1	19681		cox3eU9055L	97%	strong	Lycophytes	Angiosperms
9	64029	3	nad1eC+91	15%	3'-UTR		
9	64032	122	nad1eU+88	4%	3'-UTR		
9	64154	16	nad1eC983FS	97%	strong		
9	64170	17	nad1eU967RW	95%	strong	Selaginella	Angiosperms
9	64187	1	nad1eU950PL PL	94%	strong	Selaginella	
9	64188	12	nad1eU949PL PS	5%	secondary silent		
9	64200	5	nad1eU937RW	85%	strong	Selaginella	Angiosperms
9	64205	6	nad1eU932PL	87%	strong	Selaginella	Angiosperms
9	64211	3	nad1eU926TM	84%	strong		
9	64214	4	nad1eU933PL	84%	strong	Selaginella	Angiosperms
9	64218	12	nad1eC919*Q	87%	strong	Ophioglossum	
9	64230	3	nad1eU907HY	89%	strong		
9	64233	2	nad1eC904*R	87%	strong	Isoetes	
9	64235	13	nad1eC902LP	87%	strong		
9	64248	20	nad1eC889CR	94%	strong		
9	64268	1	nad1eU869PL PL	92%	strong	Angiosperms	
9	64269	3	nad1eU868PL PS	6%	secondary silent		
9	64272	89	nad1eU865LF	83%	strong		
9	64361	3	nad1eU776PL	76%	strong	Selaginella	
9	64364	3852	nad1eU773PL	73%	strong	Angiosperms	
9	64992	67470	nad1i773g2eU93194	12%	intron		
9	65294	75	matReU2345PL	19%	strong		
9	65369	13	matReU2870PL	21%	strong	Angiosperms	
9	65382	15	matReC2857*R	16%	strong		
9	65397	63	matReC2842YH	14%	strong		
9	65460	15	matReC2779*Q	13%	strong		
9	65475	21	matReU2764RC	19%	strong	Angiosperms	
9	65496	90	matReC2743FL	19%	strong		
9	65586	15	matReC2653*Q	92%	strong		
9	65601	15	matReC2638*R	15%	strong		
9	65616	17	matReC2623*Q	16%	strong		
9	65633	30	matReC2606LP	97%	strong		
9	65663	85	matReC2576LP	16%	not predicted		
9	65748	24	matReU24916RW	22%	not predicted		
9	65772	39	matReC2467*R	17%	weak		
9	65811	5	matReU2428RW	18%	not predicted		
9	65816	1	matReU2423PL PL	17%	not predicted		
9	65817	8	matReU2422PL PS	15%	secondary silent		
9	65825	19	matReU24145L	98%	not predicted		
9	65844	5	matReC2395*Q	10%	strong		
9	65849	2	matReU2390TI	8%	strong		
9	65851	32	matReU2388DD	9%	silent		
9	65883	39	matReC2356*Q	10%	strong		
9	65922	47	matReC2317*Q	15%	strong		
9	65969	4	matReU2270PL	14%	strong		
9	65973	3	matReC2266*Q	14%	strong		
9	65976	5	matReC2263WR	15%	not predicted		
9	65981	15	matReU2258PL	69%	weak		
9	65996	9	matReU2243PL	7%	strong		

9	66005	5	matReU2234SL	7%	weak		
9	66010	26	matReU2229SS	10%	silent		
9	66036	92	matReU2203PS	16%	not predicted		
9	66128	5	matReU2111TM	24%	not predicted		
9	66133	1	matReU2106LL	17%	NESI		
9	66134	9	matReU2105PL	20%	strong	Angiosperms	
9	66143	39	matReC2096IT	8%	not predicted		
9	66182	6	matReU2057TI	11%	not predicted		
9	66188	16	matReU2051PL	13%	strong		
9	66204	2	matReC2035*Q	6%	strong		
9	66206	3	matReU2033PL	13%	strong		
9	66209	6	matReU2030SF	14%	strong		
9	66215	13	matReU2024TI	10%	not predicted		
9	66228	23	matReC2011WR	8%	not predicted		
9	66251	8	matReC1988LP	8%	weak		
9	66259	11	matReU1980II	7%	silent		
9	66270	1	matReC1969*R	7%	strong		
9	66271	14	matReU1968FF	12%	NESI		
9	66285	3	matReU1954HY	16%	strong		
9	66288	180	matReC1951*R	11%	strong		
9	66468	48	matReC1771*R	13%	weak		
9	66516	21	matReC1723*Q	17%	weak		
9	66537	225	matReC1702*Q	15%	strong		
9	66762	78	matReC1477*R	13%	strong		
9	66840	63	matReC1399*Q	10%	strong		
9	66903	31	matReU1336HY	9%	strong	Angiosperms	
9	66934	1	matReU1305LL	12%	NESI		
9	66935	9	matReU1304PL	15%	strong		
9	66944	129	matReU1295SL	13%	strong	Angiosperms	
9	67073	9	matReU1166PL	13%	weak		
9	67082	55	matReU1157TM	14%	not predicted		
9	67137	86	matReC1102*R	6%	strong		
9	67223	62	matReU1016SL	16%	strong	Angiosperms	
9	67285	13	matReU954YY	8%	silent		
9	67298	72	matReU941PL	13%	strong	Angiosperms	
9	67370	18	matReU869TM	11%	not predicted		
9	67388	266	matReU851TM	25%	not predicted		
9	67654	131	matReU585RR	8%	silent		
9	67785	190	matReC454*R	3%	strong		
9	67975	110	matReU264II	7%	silent		
9	68085		matReC154*R	20%	weak		
9	68216	4	nad1eU728SL	83%	strong	Selaginella	Eusporangiates
9	68220	5	nad1eU724LF	92%	strong		
9	68225	15	nad1eU719PL	87%	strong		
9	68240	1	nad1eC704LS LP	81%	strong		
9	68241	1	nad1eU709LS UL	93%	strong	Selaginella	
9	68242	1	nad1eU702LL_SS	15%	NESI		
9	68243	1	nad1eC701LS LP	91%	strong		
9	68244	8	nad1eU700LS LF	95%	strong		
9	68252	12	nad1eU692AV	91%	strong	Ophioglossum	
9	68264	6	nad1eC680VA	92%	strong		
9	68270	18	nad1eU674SL	97%	strong	Lycophytes	Eusporangiates
9	68288	9	nad1eC656LP	90%	strong		
9	68297	3	nad1eU6475F	96%	strong	Ophioglossum	Angiosperms
9	68300	21	nad1eC644LP	88%	strong		
9	68321	1	nad1eU639PL PL	97%	strong	Selaginella	Ophioglossum
9	68322	3	nad1eU632PL PS	35%	secondary silent		
9	68325	1	nad1eU619RC	95%	strong	Lycophytes	Angiosperms
9	68326	13	nad1eU618SS	96%	NESI		
9	68339	12	nad1eU605PL	95%	not predicted		
9	68351	6	nad1eC593LP	77%	strong		
9	68357	2	nad1eU587SL	95%	strong	Selaginella	
9	68359	1	nad1eU585LL_PP	15%	NESI		
9	68360	7	nad1eC584LP	82%	strong		
9	68367	12	nad1eU577RC	93%	not predicted		
9	68379	6	nad1eC565*Q	90%	strong	Ophioglossum	
9	68385	27	nad1eC559*Q	86%	strong	Eusporangiates	
9	68412	3	nad1eU532RC	93%	strong	Selaginella	Angiosperms
9	68415	9	nad1eU529PS	94%	strong	Lycophytes	Angiosperms
9	68424	1	nad1eU520RC	93%	strong		
9	68425	1	nad1eU519II	91%	NESI		
9	68426	3	nad1eU518TI	86%	weak		
9	68429	29	nad1eU515PL	94%	weak		
9	68458	6	nad1eU486VV	46%	silent		
9	68464	4	nad1eU480YY	87%	silent		
9	68468	12	nad1eC476LS	74%	strong		
9	68480	6	nad1eC464VA	77%	strong		
9	68486	4	nad1eC458FS	73%	strong		
9	68490	5	nad1eC454*R	72%	strong	Ophioglossum	
9	68495		nad1eC449VA	66%	strong		
9	68501	241	nad1eU443SL	86%	strong	Isoetes	Ophioglossum
9	68744	1076	nad1I394g2eU1193	6%	intron		
9	69820	173	nad1I394g2eU117	6%	intron		
9	69993	4	nad1eU368PL	90%	strong	Selaginella	Eusporangiates
9	69997	3	nad1eU364HY	94%	strong	Lycophytes	Ophioglossum
9	70000	14	nad1eC361FL	93%	strong		
9	70014	26	nad1eU347PL	82%	weak	Angiosperms	
9	70040	1	nad1eU321FF	69%	NESI		
9	70041	6	nad1eU320SF	87%	strong	Selaginella	
9	70047	10	nad1eU314TI	91%	strong		
9	70057	43	nad1eU304RW	73%	strong	Lycophytes	Angiosperms
9	70100	39	nad1I258g2eU979	76%	intron		
9	70139	761	nad1I258g2eU760	44%	intron		
9	70900	3	nad1eU287TM	92%	strong		
9	70903	12	nad1eU284SF	86%	strong	Lycophytes	
9	70915	15	nad1eC272LP	61%	strong	Isoetes	
9	70930	19	nad1eU257PL	70%	weak	Lycophytes	
9	70949	5	nad1eU238PS	84%	strong	Ophioglossum	
9	70954	1	nad1eU233PL PL	78%	strong	Selaginella	
9	70955	20	nad1eU232PL PS	78%	secondary silent		
9	70975	25	nad1eU212SL	85%	strong	Lycophytes	Pilotum
9	71000	13	nad1eC187*Q	78%	strong	Isoetes	
9	71013	16	nad1eU174FF	76%	silent		
9	71029	10	nad1eC158LP	89%	strong	Pilotum	
9	71039	6	nad1eC148*R	81%	strong		
9	71045	21	nad1eC142*Q	86%	strong	Isoetes	
9	71066	8	nad1eC121CR	93%	strong	Isoetes	
9					nad1eC116VA missing		
9	71074	21	nad1eU113SL	98%	strong	Lycophytes	Ophioglossum
9	71095	7	nad1eU92PL	98%	strong	Lycophytes	
9	71102	3	nad1eC85FL	92%	strong		
9	71105	4	nad1eC825P	95%	strong		
9	71109	3	nad1eU78II	11%	silent		
9	71112	21	nad1eU75II	12%	silent		
9					nad1eU67FL missing		
9					nad1eU65TI missing		
9	71133	90	nad1eU54LL	46%	silent		
9	71223		nad1eU-37	35%	5'-UTR		
5	132462	64	nad2eU+12	93%	3'-UTR		
5	132526	6	nad2eC1418LP	95%	strong		
5	132532	7	nad2eU1412SL	96%	strong	Lycophytes	Angiosperms
5	132539	11	nad2eU1405LF	95%	strong		
5	132550	18	nad2eU1394PL	94%	weak		
5	132568	9	nad2eU1376PL	97%	strong	Selaginella	Ophioglossum
5	132577	8	nad2eC1367LS	93%	strong		
5	132585	42	nad2eU1359PP	25%	silent		
5	132627	24	nad2eU1317FF	7%	silent		
5	132651	3	nad2eU1293II	8%	silent		
5	132654	16	nad2eU1290YY	0%	silent		
5	132704	126	nad2II282g2eU1323	69%	intron		
5	134030	87	nad2eU1279RC	91%	strong	Lycophytes	Angiosperms
5	134117	15	nad2eU1192RC	89%	strong	Lycophytes	Angiosperms

5	134132	20	nad2eC11775P	94%	strong		
5	134152	17	nad2eU11575F	96%	strong	Selaginella	
5					nad2eU1105L missing	Isoetes	Angiosperms
5	134169	36	nad2eU1140TT	10%	silent		
5	134205	32	nad2eU1104GG	6%	silent		
5					nad2eC1078RC missing		
5	134237	11	nad2eC1072*Q	89%	strong		
5	134248	6	nad2eU10615L	96%	strong	Angiosperms	
5	134254	36	nad2eU1055TI	96%	strong		
5					nad2eU10315L missing	Eusporangiates	Angiosperms
5	134290	22	nad2eU10195F	95%	strong		
5	134312	21	nad2eC997*Q	95%	strong	Isoetes	
5	134333	14	nad2eU976RC	95%	strong		
5	134347	29	nad2eU962PL	96%	strong	Ophioglossum	
5	134376	7	nad2eC933YY	92%	silent		
5	134383	22	nad2eU9265L	93%	strong		
5	134405	23	nad2eC904*Q	84%	strong		
5	134428	9	nad2eU881PL	83%	strong	Selaginella	Psilotum
5	134437	5	nad2eC872FS	84%	strong		
5	134442	8	nad2eU867H	5%	silent		
5	134450	6	nad2eU859RC	93%	strong	Isoetes	Ophioglossum
5	134456	12	nad2eU853UF	91%	strong	Selaginella	Ophioglossum
5	134468	8	nad2eC841*Q	91%	strong		
5	134476	7	nad2eC833LP	97%	weak		
5	134483	10	nad2eU826HY	96%	strong		
5	134493	11	nad2eU816FF	5%	silent		
5	134504	14	nad2eC805CR	93%	strong		
5	134518	1	nad2eU791PF PL	91%	strong	Lycophytes	
5	134519	1	nad2eU790PF PS	93%	strong	Lycophytes	
5	134520	23	nad2eU789H	20%	NEI		
5	134543	26	nad2eU766PS	95%	strong	Lycophytes	
5	134569	35	nad2eC740LS	95%	strong		
5	134604	4	nad2I709g2eU1133	49%	intron		
5	134608	122	nad2I709g2eU1129	70%	intron		
5	134730	1	nad2I709g2eU1007	16%	intron		
5	134731	613	nad2I709g2eU1006	16%	intron		
5	135344	399	nad2I709g2eU393	78%	intron		
5	135743	10	nad2eC703SP	84%	strong	Isoetes	
5	135753	31	nad2eU693H	14%	silent		
5	135784	63	nad2eU6625L	92%	strong	Selaginella	
5	135847	9	nad2eU599TI	87%	strong		
5	135856	8	nad2eU5905L	81%	strong	Lycophytes	
5	135864	38	nad2eU5822FF	35%	silent		
5	135902	35	nad2eU544RC	71%	strong	Lycophytes	Psilotum
5	135957	14	nad2I542g2eU2387	13%	intron		
5	135971	697	nad2I542g2eU2273	76%	intron		
5	136668	222	nad2I542g2eU1576	5%	intron		
5	136890	23	nad2I542g2eU1354	93%	intron		
5	136913	1331	nad2I542g2eU1331	7%	intron		
5	138244	31	nad2eU540FF	72%	silent		
5	138275	5	nad2eU5095L	73%	strong	Selaginella	Eusporangiates
5	138280	1	nad2eU504FF	40%	NEI		
5	138281	53	nad2eU5035F	91%	strong	Lycophytes	Eusporangiates
5	138334	8	nad2eU450H	6%	silent		
5	138342	8	nad2eU442HY	90%	strong	Lycophytes	Ophioglossum
5	138350	7	nad2eU4345L	92%	strong	Lycophytes	
5	138357	2	nad2eC427*Q	85%	strong	Ophioglossum	
5	138359	5	nad2eU425PL	91%	strong	Lycophytes	Angiosperms
5	138364	22	nad2eU420H	10%	silent		
5	138386	8	nad2eU3985L	91%	strong	Lycophytes	Angiosperms
5					nad2eC386LS missing		
5	138394	24	nad2eU390AA	8%	silent		
5	138418	2	nad2eU366RR	10%	silent		
5	138420	8	nad2eU364RC	92%	strong	Isoetes	Angiosperms
5	138428	6	nad2eU356PL	93%	strong	Selaginella	
5	138434	57	nad2eU350TI	93%	strong		
5	138491	14	nad2eU293TM	92%	strong	Isoetes	
5	138505	16	nad2eU278AA	10%	silent		
5	138521	11	nad2eU263PL	91%	strong	Lycophytes	Angiosperms
5	138532	2	nad2eU251RR	20%	silent		
5	138534	11	nad2eU250RC	85%	strong		
5	138545	1	nad2eU239PL PL	92%	weak		
5	138546	65	nad2eU238PL PS	11%	secondary silent		
5	138611	5	nad2eU173PL	83%	strong		
5	138616	50	nad2eU168H	17%	silent		
5	138666	1517	nad2I156g2eC1507	24%	intron		
5	140183	3	nad2eU149PL	72%	strong		
5	140186	28	nad2eU1465L	72%	strong	Selaginella	
5	140214	5	nad2eU1181L	17%	silent		
5					nad2eC116LP missing		
5	140219	40	nad2eC113LP	78%	strong		
5					nad2eC95FS missing		
5	140259	4	nad2eU73HY	93%	strong	Isoetes	Ophioglossum
5	140263	25	nad2eU69LL	9%	silent		
5	140288	15	nad2eU44PL	84%	strong	Lycophytes	
5	140303	8	nad2eU29PL	89%	strong		MEF13
5	140311	4	nad2eU21FF	6%	silent		
5	140315	33	nad2eU175F	89%	strong		
5	140348	80	nad2eU-17	83%	5'-UTR		
5	140428		nad2eU-97	13%	5'-UTR		
8	165080	73	nad3eU15PP	28%	silent		
8	165153	69	nad3eU88LL	6%	silent		
8	165222	7	nad3eU157RC	94%	strong	Lycophytes	
8					nad3eU124PS missing		
8	165229	6	nad3eU1645F	92%	strong	Lycophytes	Angiosperms
8	165235	2	nad3eC170LP	89%	strong	Ophioglossum	
8	165237	10	nad3eU172LF	95%	strong	Selaginella	
8	165247	13	nad3eC182VA	92%	strong		
8	165260	7	nad3eU195FF	8%	silent		
8	165267	15	nad3eC202*R	89%	strong	Ophioglossum	
8	165282	35	nad3eU217PS	95%	strong	Lycophytes	Angiosperms
8	165317	36	nad3eU243TT	5%	silent		
8	165353	16	nad3eU279H	5%	silent		
8	165369	4	nad3eU394RW	91%	strong	Lycophytes	Psilotum
8	165373	37	nad3eC308FS	95%	strong		
8	165410		nad3eC345FF	5%	silent		
9	132551	30	nad4eU14275F	95%	strong	Isoetes	Ophioglossum
9	132581	5	nad4eU1397AV	93%	weak	Selaginella	
9	132586	4	nad4I1399g2eU1500	50%	intron		
9	132590	8	nad4I1399g2eU1496	63%	intron		
9	132598	85	nad4I1399g2eU1488	71%	intron		
9	132683	9	nad4I1399g2eU1403	83%	intron		
9	132692	1378	nad4I1399g2eU1394	72%	intron		
9	134070	21	nad4I1399g2eU16	65%	intron		
9	134091	1	nad4eU1391PF PL	63%	weak	Psilotum	
9	134092	5	nad4eU1390PF PS	61%	weak		
9	134097	9	nad4eU13855F	84%	strong	Lycophytes	Psilotum
9	134106	57	nad4eU13765F	94%	strong		
9					nad4eU1373TI missing		
9	134163	25	nad4eU13195L	80%	weak		
9	134188	2	nad4eU1294HY	88%	strong		
9	134190	10	nad4eU1292PL	88%	strong	Lycophytes	
9	134200	29	nad4eU1282PS	90%	strong	Isoetes	
9	134229	6	nad4eC1253VA	85%	strong		
9	134235	39	nad4eU12475L	87%	strong		
9	134274	6	nad4eU1208PL	96%	strong	Angiosperms	
9	134280	14	nad4eU1202PL	94%	strong	Lycophytes	Angiosperms
9	134294	1	nad4eU11885S_FF	98%	NEI		
9	134295	39	nad4eU11875F	97%	strong	Lycophytes	
9	134334	4	nad4eU11485F	97%	strong	Selaginella	Angiosperms
9	134338	5	nad4eU1144LF	95%	strong		
9	134343	8	nad4eU1139PL	98%	weak	Ophioglossum	

9	134351	25	nad4eU113155	86%	silent		
9	134376	21	nad4eU1106PL	7%	strong	Selaginella	Angiosperms
9	134397	4	nad4eU1085PL	89%	strong	Selaginella	
9	134401	12	nad4eC1081*R	91%	strong		
9			nad4eC1072YH missing				
9	134413	21	nad4eC1069*R	75%	strong	Ophioglossum	
9	134434	2	nad4eU1048RC	63%	strong	Selaginella	
9	134436	3	nad4eU1046SL	41%	strong	Selaginella	Ophioglossum
9	134439	9	nad4eU10435F	44%	strong	Selaginella	Eusporangiates
9	134448	3	nad4eC1034LS	71%	strong		
9	134451	1	nad4eC1031LS LP	78%	strong		
9	134452	5	nad4eU1030LS LF	84%	strong	Angiosperms	SLO4
9	134457	7	nad4eU1025PL	96%	strong	Selaginella	Angiosperms
9	134464	5	nad4eC1018YH	96%	strong		
9	134469	3	nad4eU1013SL	95%	strong	Lycophytes	Angiosperms
9	134472	2	nad4eU1010TM	89%	strong		
9	134474	1	nad4eU1008LL	9%	strong	NESI	
9	134475	1861	nad4eU1007PL	98%	strong		
9	136436	183	nad4eU76g2eU178	6%	intron		
9	136619	9	nad4eU9585F	85%	strong	Isoetes	Angiosperms
9	136628	19	nad4eU9597I	89%	strong		
9	136647	37	nad4eC940YH	94%	strong		
9	136684	5	nad4eU9303I	6%	silent		
9	136689	14	nad4eC898*Q	95%	strong		
9	136703	3	nad4eU884PL	94%	strong	Lycophytes	Angiosperms
9	136706	9	nad4eC881FS	88%	strong		
9	136715	105	nad4eU8727I	83%	strong		
9	136820	36	nad4eU7675L	94%	strong	Lycophytes	Angiosperms
9	136856	20	nad4eC731LP	91%	strong		
9	136876	14	nad4eU711PP	5%	silent		
9	136890	6	nad4eC697YH	6%	strong		
9	136896	45	nad4eC6915P	91%	strong		
9	136941	2	nad4eU646RW	93%	strong	Lycophytes	Ophioglossum
9	136943	3	nad4eU644PL	94%	strong	Lycophytes	
9	136946	7	nad4eU6415L	95%	strong	Lycophytes	Psilotum
9	136953	6	nad4eC634*Q	84%	strong		
9	136959	8	nad4eC628WR	92%	strong		
9	136967	8	nad4eU6205F	97%	strong	Ophioglossum	
9	136975	7	nad4eU6127T	24%	silent		
9	136982	15	nad4eU6055L	89%	strong	Selaginella	Angiosperms
9	136997	57	nad4eC590IT	94%	strong		
9	137054	10	nad4eU533PL	95%	strong	Selaginella	
9	137064	2	nad4eU523HY	97%	strong	Selaginella	
9	137066	4	nad4eU5215L	98%	strong	Lycophytes	Ophioglossum
9	137070	9	nad4eU5171F	95%	strong	Selaginella	
9	137079	21	nad4eU508HY	90%	strong	Selaginella	
9	137100	23	nad4eC487*Q	76%	strong	Isoetes	
9	137123	1394	nad4eU4647I	60%	strong		
9	138517	136	nad4i461g2eU136	79%	intron		
9	138653	34	nad4eU4585F	52%	strong	Lycophytes	
9	138687	3	nad4eU424HY	94%	strong	Lycophytes	Psilotum
9	138690	5	nad4eU4211F	97%	strong	Lycophytes	Psilotum
9	138695	3	nad4eU4165L	98%	strong	Lycophytes	
9	138698	6	nad4eU4137I	98%	weak		
9	138704	7	nad4eU4075L	97%	strong	Lycophytes	
9	138711	14	nad4eU4000C	99%	strong	Lycophytes	Angiosperms
9	138725	18	nad4eU3867M	98%	strong		
9	138743	56	nad4eU368PL	98%	strong	Lycophytes	Eusporangiates
9	138799	5	nad4eU312II	95%	silent		
9	138804	5	nad4eU3078C	93%	strong	Lycophytes	Psilotum
9	138809	6	nad4eC302LP	91%	strong		
9	138815	3	nad4eU2965L	93%	strong	Lycophytes	
9	138818	3	nad4eU2935F	93%	strong		
9	138821	6	nad4eC290MT	92%	strong		
9	138827	6	nad4eU2845L	94%	strong	Lycophytes	Eusporangiates
9	138833	6	nad4eU278AV	90%	strong		
9	138839	3	nad4eU2725F	93%	strong	Selaginella	
9	138842	1	nad4eU2699L PS	5%	strong	Isoetes	Physcomitrium
9	138843	2	nad4eU268PL PS	5%	secondary silent		PPRS6
9	138845	3	nad4eC266FS	87%	strong		
9	138848	62	nad4eU2637I	95%	weak		
9			nad4eU226HY missing				
9	138910	5	nad4eU201FF	8%	silent		
9	138915	23	nad4eC196*Q	79%	strong	Isoetes	
9	138938	4	nad4eU1735F	43%	strong		
9	138942	2	nad4eC169*Q	56%	strong		
9	138944	4	nad4eU1677I	61%	strong		
9	138948	2	nad4eU163RW	73%	strong	Isoetes	Angiosperms
9	138950	6	nad4eU1615F	82%	strong	Selaginella	MEF26
9	138956	3	nad4eU1555L	77%	strong	Lycophytes	Angiosperms
9	138959	1	nad4eC152LP FS	71%	strong		MEF13
9	138960	5	nad4eU15115L LF	83%	strong	Lycophytes	Angiosperms
9	138965	3	nad4eU1465L	79%	strong	Lycophytes	Eusporangiates
9	138968	6	nad4eU1435F	82%	strong	Lycophytes	Eusporangiates
9	138974	6	nad4eU1377M	53%	not predicted		
9	138980	7	nad4eC131FS	79%	strong		
9	138987	15	nad4eU124RC	86%	strong	Selaginella	
9	139002	9	nad4eC109*R	76%	strong	Isoetes	
9	139011	8	nad4eC100*R	77%	strong	Isoetes	
9	139019	5	nad4eC92FS	79%	strong		
9	139024	4	nad4eU877P	63%	silent		
9	139028	6	nad4eU835F	85%	not predicted		
9	139034	7	nad4eU775L	89%	weak	Psilotum	
9	139036	1	nad4eU75LL	89%	strong	NESI	
9	139037	22	nad4eU74PL	93%	strong	Angiosperms	
9	139059	6	nad4eC525P	93%	strong		
9	139065	1	nad4eU46LL	79%	strong	NESI	
9	139066	1	nad4eU45II	92%	strong	NESI	
9	139067	33	nad4eU447I	96%	strong	Selaginella	
9	139100		nad4eC11MT	77%	not predicted		
6	110837	23	nad4LeU+100	6%	3'-UTR		
6	110860	34	nad4LeU+77	5%	3'-UTR		
6	110894	7	nad4LeU+43	7%	3'-UTR		
6	110901	1	nad4LeU+36	37%	3'-UTR		
6	110902	2	nad4LeU+35	12%	3'-UTR		
6	110904	2	nad4LeU+33	27%	3'-UTR		
6	110906	19	nad4LeU+31	26%	3'-UTR		
6	110925	10	nad4LeU+12	22%	3'-UTR		
6	110935	4	nad4LeU+2	61%	3'-UTR		
6	110939	12	nad4LeU301R*	23%	strong	Isoetes	
6	110951	5	nad4LeU289RC	81%	weak		
6	110956	31	nad4LeU284PL	23%	weak		
6	110987	35	nad4LeC253*R	19%	strong	Ophioglossum	
6	111022	6	nad4LeC218FS	97%	strong		
6	111028	3	nad4LeC212VA	9%	strong		
6	111031	21	nad4LeC209VA	94%	strong		
6	111052	5	nad4LeU1885L	97%	strong	Lycophytes	Angiosperms
6	111057	2	nad4LeU183FF	14%	silent		
6	111059	2	nad4LeU1811F	95%	strong		
6	111061	4	nad4LeU1795L	92%	strong	Lycophytes	Angiosperms
6	111065	17	nad4LeC175*Q	87%	strong	Ophioglossum	
6	111082	10	nad4LeU1585L	92%	strong	Angiosperms	
6	111092	8	nad4LeU148PS	96%	strong	Lycophytes	Psilotum
6	111100	14	nad4LeU140PL	95%	strong	Selaginella	Ophioglossum
6	111114	10	nad4LeU126VV	20%	silent		
6	111124	6	nad4LeU116PL	96%	strong	Selaginella	
6	111130	9	nad4LeU1105L	91%	strong	Lycophytes	Angiosperms
6	111139	1	nad4LeC10115 LP	93%	strong		SLO2
6	111140	2	nad4LeU10005 LL	93%	strong	Lycophytes	Angiosperms
6	111142	12	nad4LeU987M	95%	strong	Selaginella	
6	111154	14	nad4LeU867I	95%	weak		
6	111168	4	nad4LeU72NN	28%	silent		

6	111172	13	nad4LeU6BSL	92%	strong	Lycophytes	Ophioglossum	
6	111185	8	nad4LeU55RW	96%	strong	Ophioglossum	Angiosperms	GBSL
6	111193	6	nad4LeU475L	91%	strong	Selaginella	Angiosperms	
6	111199	39	nad4LeU415F	89%	strong	Selaginella	Angiosperms	MEF7
6	111238		nad4LeU22TM	97%	strong	Isoetes	Angiosperms	
4	81809	71	nad5eU2002Q*	6%	weak			
4					nad5eU19675L missing			
4					nad5eC1963*R missing			
4					nad5eU1951RW missing			
4					nad5eC1946FS missing			
4	81880	619	nad5eU1931TM	69%	weak			
4	82499	6	nad5eC1858*Q	90%	strong			
4	82505	53	nad5eC1852*Q	93%	strong			
4	82558	103	nad5eU17995L	90%	strong	Selaginella		
4	82661	60	nad5eU1696RW	97%	strong	Selaginella		
4					nad5eU1634PL missing			
4	82721	7	nad5eU1626LL	11%	silent			
4	82728	6	nad5eU1619NN	21%	silent			
4	82734	46	nad5eU1613FF	13%	silent			
4					nad5eC1586IT missing			
4	82780	41	nad5eU1567TI	17%				
4					nad5eU1556TI missing			
4					nad5eC1553IT missing			
4	82821	6	nad5eU15355S	5%	silent			
4	82827	44	nad5eU1529AA	5%	silent			
4	82871	1454	nad5eU1486RW	92%	strong	Lycophytes		
4	84325	1	nad5eU1326FF	6%	NESt			
4	84326	19	nad5eU1325SF	94%	strong	Selaginella		
4	84345	32	nad5eU1306HY	96%	strong	Lycophytes		
4	84377	1146	nad5eU12745L	93%	strong	Isoetes		
4	85523	5	nad5eU1234HY	79%	strong			
4	85528	6	nad5eU1229PL	92%	strong			
4	85534	51	nad5eU12235L	83%	strong	Isoetes	Ophioglossum	
4	85585	42	nad5eC1172FS	95%	strong			
4	85627	52	nad5eU11305L	88%	weak			
4	85679	20	nad5eC1078YH	97%	strong			
4	85699	3	nad5eU10585L	91%	strong	Isoetes		
4	85702	3	nad5eU10555F	96%	strong	Isoetes		
4	85705	27	nad5eU1052PL	92%	strong	Isoetes		
4	85732	31	nad5eU1025TM	92%	strong			
4	85763	9	nad5eU994PS	90%	strong			
4	85772	5	nad5eU985RC	86%	strong	Isoetes	Psilotum	
4	85777	1	nad5eU980PF PL	95%	strong			
4	85778	9	nad5eU979PF PS	92%	strong			
4	85787	5	nad5eU970HY	97%	strong	Selaginella		
4	85792	12	nad5eU9655L	85%	strong	Isoetes	Psilotum	
4	85804	3	nad5eC953IT	87%	strong			
4	85807	1	nad5eC950LS LP	90%	strong			
4	85808	25	nad5eU949LS LL	94%	strong	Isoetes		
4	85833	5	nad5eU924NN	11%	silent			
4	85838	13	nad5eC919*Q	83%	strong			
4					nad5eU916FL missing			
4	85851	22	nad5eU906TT	7%	silent			
4	85873	72	nad5eU884TM	91%	strong	Angiosperms		
4					nad5eU866TI missing			
4	85945	21	nad5eU812TM	95%	strong			
4	85966	3	nad5eU791TM	99%	strong	Isoetes	Angiosperms	
4	85969	58	nad5eC788IT	86%	strong			
4	86027	18	nad5eU730RW	87%	strong	Isoetes	Physcomitrium	PPR31 (Ppat)
4	86045	26	nad5eC712*Q	82%	strong			
4	86071	1	nad5eU686PF PL	84%	strong	Isoetes		
4	86072	2	nad5eU685PF PS	84%	strong	Angiosperms		MEF8 (Atha)
4	86074	3	nad5eU683PL	85%	strong	Eusporangiates		
4	86077	7	nad5eU6805L	87%	strong			
4	86084	2	nad5eU673RC	94%	strong	Isoetes	Ophioglossum	
4	86086	16	nad5eU671TI	87%	strong			
4	86102	15	nad5eC655YH	85%	weak			
4	86117	2	nad5eU640RC	98%	strong	Isoetes		
4	86119	40	nad5eU6385F	94%	strong	Isoetes	Psilotum	
4	86159	4	nad5eU598RC	98%	strong	Isoetes	Angiosperms	CWM1/PPR29
4	86163	4	nad5eU594FF	28%	silent			
4	86167	9	nad5eU590TI	96%	strong			
4	86176	13	nad5eU5815F	93%	strong	Isoetes	Angiosperms	
4	86189	5	nad5eC568*Q	86%	strong	Ophioglossum		
4	86194	10	nad5eU563PL	91%	weak			
4	86204	20	nad5eU553RC	92%	strong	Angiosperms		
4	86224	5	nad5eU5335L	95%	strong	Isoetes	Angiosperms	
4	86229	1	nad5eU528FF	17%	NESt			
4	86230	21	nad5eU5275F	85%	strong			
4	86251	23	nad5eU506PL	97%	strong	Angiosperms		
4	86274	3	nad5eC483NN	6%	silent			
4	86277	5	nad5eU480AA	78%	silent			
4	86282	10	nad5eC475*Q	79%	strong	Isoetes	Ophioglossum	
4	86292	5	nad5eU465FF	14%	silent			
4	86297	11	nad5eU460RW	86%	strong	Isoetes		
4	86308	9	nad5eU4495L	86%	strong	Isoetes	Eusporangiates	
4	86317	3	nad5eC440LS	78%	strong	Isoetes		
4	86320	2	nad5eC437VA	83%	strong			
4	86322	17	nad5eU435LL	8%	silent			
4	86339	5	nad5eU418RW	86%	strong	Selaginella	Ophioglossum	
4	86344	1	nad5eU413PL PL	89%	strong	Isoetes	Eusporangiates	
4	86345	9	nad5eU4092PL PS	35%	secondary silent			
4	86354	4	nad5eC403*Q	77%	strong	Isoetes	Psilotum	
4	86358	12	nad5eU399FF	81%	silent			
4	86370	16	nad5eU386TT	6%	silent			
4	86386	6	nad5eU371TM	92%	strong	Lycophytes		
4	86392	1	nad5eU365PF PL	93%	strong	Selaginella		
4	86393	1	nad5eU364PF PS	92%	strong	Lycophytes		
4	86394	5	nad5eU363TT	39%	NESt			
4	86399	24	nad5eU358LF	84%	strong	Isoetes	Angiosperms	
4	86423	36	nad5eC334*R	73%	strong	Ophioglossum		
4	86459	9	nad5eU298PS	95%	strong	Isoetes		
4	86468	16	nad5eC289YH	65%	strong			
4	86484	4	nad5eU273FF	6%	silent			
4	86488	35	nad5eC269IT	73%	strong			
4	86523	8	nad5eU234VV	5%	silent			
4	86531	4	nad5I230g2eU967	60%	intron			
4	86535	139	nad5I230g2eU963	59%	intron			
4	86674	906	nad5I230g2eU824	90%	intron			
4					nad5eC200LS missing			
4	87580	16	nad5eU150VV	6%	silent			
4	87596	12	nad5eU134TI	93%	strong			
4	87608	2	nad5eU122TI	93%	weak			
4	87610	12	nad5eU120LL	7%	silent			
4					nad5eU118LF missing			
4	87622	1	nad5eU108VV	56%	silent			
4	87623	74	nad5eU107AV	98%	strong			
4					nad5eC98IT missing			
4	87697	5	nad5eU33LL	88%	silent			
4	87702	1	nad5eU28LL	83%	NESt			
4	87703	7	nad5eU27PP	85%	NESt			
4	87710	6	nad5eU205L	7%	not predicted			
4	87716	12	nad5eU14TI	86%	strong			
4	87728		nad5eU27TM	91%	strong	Selaginella	Eusporangiates	
1	30040	152	nad6eU613Q*	76%	not predicted			
1	30192	1	nad6eU461PL PL	88%	strong	Isoetes		
1	30193	5	nad6eU460PL PS	76%	secondary silent			
1	30198	1	nad6eU455PL PL	90%	strong	Selaginella		
1	30199	13	nad6eU454PL PS	5%	secondary silent			
1	30212	44	nad6eU441TT	9%	silent			
1	30256	103	nad6eC397*Q	87%	strong	Isoetes	Ophioglossum	
1	30359	69	nad6eU294FF	7%	silent			

1	30428	1	nad6eU225TT_I	40%	NESI		
1	30429	6	nad6eU224TI	63%	strong		
1	30435	18	nad6eU218PL	62%	weak	Isoetes	
1	30453	6	nad6eU200SL	66%	strong	Lycophytes	Eusporangiates
1	30459	22	nad6eU194SL	66%	strong	Isoetes	Angiosperms
1	30481	31	nad6eU172HY	69%	strong	Lycophytes	Angiosperms
1	30512	13	nad6eU031LL	10%	silent		
1	30525	20	nad6eU128PL	81%	weak	Psilotum	
1	30545	2	nad6eU108RR_CC	24%	silent		
1	30547	1	nad6eU106RC	76%	strong	Isoetes	Angiosperms
1	30548	55	nad6eU105FF	78%	NESI		GRS1
1					nad6eC97FL missing		
1	30603	28	nad6eU50TM	82%	strong		
1	30631	22	nad6eU22PS	81%	strong	Selaginella	
1	30653		nad6eU-1	9%	5'-UTR		
8	167693	18	nad7eU+8	9%	3'-UTR		
8	167711	8	nad7eU1172AV	96%	strong	Isoetes	Ophioglossum
8	167719	1	nad7eU1164FF	97%	NESI		
8	167720	6	nad7eU1163SF	97%	strong	Isoetes	Angiosperms
8	167726	7	nad7eU1157TI	97%	strong	Isoetes	
8	167733	29	nad7eC1150*Q	97%	strong	Isoetes	
8	167762	15	nad7eU1121PL	97%	strong	Isoetes	Angiosperms
8	167777	3	nad7eC1106LS	96%	strong		
8	167780	22	nad7eU1103TM	96%	strong	Isoetes	
8	167802	71	nad7eC1081YH	94%	strong		
8	167873	20	nad7eU1010SF	98%	strong		
8	167893	1	nad7eC990AA_VV	18%	NESI		
8	167894	3	nad7eU989AV	97%	strong	Isoetes	
8	167897	2	nad7eC986VA	70%	strong		
8	167899	5	nad7eU984TT	5%	silent		
8	167904	1	nad7eU979HY	96%	strong	Psilotum	
8	167905	1	nad7eU979H TT	7%	NESI		
8	167906	36	nad7eC977IT	93%	strong		
8	167942	43	nad7eU941PL	97%	strong	Ophioglossum	Angiosperms
8	167985	6	nad7eC898*Q	84%	strong		
8	167991	14	nad7eC892*R	94%	strong		
8					nad7eC886SP missing		
8	168005	49	nad7eU878PL	98%	strong	Lycophytes	Ophioglossum
8	168054	7	nad7eU829RC	92%	strong	Lycophytes	
8	168061	8	nad7eU822II	65%	silent		
8	168069	12	nad7eC814*R	92%	strong	Isoetes	
8	168081	2	nad7eC802*R	91%	strong	Isoetes	
8	168083	13	nad7eU9800TM	94%	strong	Isoetes	
8	168096	18	nad7eC787CR	94%	strong		
8	168114	23	nad7eU769HY	96%	strong		
8	168137	9	nad7eC746LP	81%	strong		
8	168146	6	nad7eU737SF	87%	strong	Lycophytes	Angiosperms
8	168152	4	nad7eU731SL	93%	strong	Lycophytes	Angiosperms
8	168156	6	nad7eC727*Q	85%	strong		
8	168162	33	nad7eU721HY	92%	strong	Lycophytes	Angiosperms
8	168195	76	nad7eU688RW	81%	strong	Lycophytes	
8	168271	935	nad7e676g2eC904	11%	intron		
8	169206	12	nad7eU646RW	85%	strong	Selaginella	Psilotum
8	169218	3	nad7eC634*Q	75%	strong		
8	169221	10	nad7eC631*Q	78%	strong		
8	169231	23	nad7eU632TT	21%	silent		
8	169254	19	nad7eC598*Q	98%	strong		
8	169273	4	nad7eU579TT	8%	silent		
8	169277	1	nad7eU575PL PL	94%	strong	Lycophytes	Angiosperms
8	169278	2	nad7eU574PL PS	9%	secondary silent		
8	169280	9	nad7eU572TM	98%	strong	Isoetes	
8	169289	25	nad7eU563SL	96%	strong	Isoetes	Angiosperms
8	169314	3	nad7eC538*Q	96%	strong		
8	169317	45	nad7eC535*Q	91%	strong	Isoetes	Ophioglossum
8	169362	15	nad7eC490*Q	89%	strong	Isoetes	
8	169377	3	nad7eC475SP	93%	strong		
8	169380	2	nad7eC472*R	95%	strong	Ophioglossum	
8	169382	48	nad7eU470TI	92%	strong		
8	169430	3	nad7eU432SL	95%	strong		
8	169433	27	nad7eU419PL	96%	strong	Selaginella	
8	169460	12	nad7eU392PL	88%	strong	Lycophytes	Ophioglossum
8	169472	22	nad7eU380SL	96%	strong	Isoetes	Angiosperms
8	169494	14	nad7eC358YH	98%	strong	Isoetes	Psilotum
8	169508	12	nad7eU344PL	91%	strong	Selaginella	
8	169520	7	nad7eU332PL	91%	strong	Lycophytes	Angiosperms
8	169527	12	nad7eC325*R	84%	strong	Isoetes	
8	169539	1	nad7eU313RC	88%	strong	Isoetes	Angiosperms
8	169540	11	nad7eU312FF	89%	NESI		
8	169551	9	nad7eC301*R	88%	strong		
8	169560	6	nad7eC292*Q	88%	strong		
8	169566	23	nad7eC286*R	89%	strong	Isoetes	
8	169589	19	nad7eU263PL	91%	strong	Lycophytes	
8	169608	15	nad7eU244PS	90%	strong	Lycophytes	
8	169623	12	nad7eC229*Q	74%	strong	Isoetes	Eusporangiates
8	169635	7	nad7eU217PS	92%	strong	Lycophytes	Ophioglossum
8	169642	5	nad7eU2100D	92%	silent		
8	169647	4	nad7I209g2eU1050	66%	intron		
8	169651	69	nad7I209g2eU1046	73%	intron		
8	169720	15	nad7I209g2eC977	8%	intron		
8	169735	601	nad7I209g2eU962	8%	intron		
8	170336	377	nad7I209g2eU361	89%	intron		
8	170713	12	nad7eU193HY	73%	strong	Isoetes	Eusporangiates
8	170725	44	nad7eU1810*	10%	not predicted		
8	170769	983	nad7eU173PL	49%	not predicted		
8	171752	61	nad7I140g2eU60	7%	intron		
8	171813	35	nad7eC139YH	6%	weak	Isoetes	
8	171848	12	nad7eU104AV	71%	strong		
8	171860	6	nad7eU92TM	63%	strong	Ophioglossum	
8	171866	6	nad7eU86SL	69%	strong	Lycophytes	Eusporangiates
8	171872	4	nad7eU80SL	71%	strong	Lycophytes	Angiosperms
8	171876	12	nad7eC76*R	69%	strong	Isoetes	
8	171888	8	nad7eC64YH	78%	strong	Isoetes	
8	171896	7	nad7eC56LP	76%	strong		
8	171903	8	nad7eC49*Q	73%	strong		
8	171911	1	nad7eU414PL PL	85%	strong	Lycophytes	Angiosperms
8	171912	5	nad7eU40PF PS	86%	strong		
8	171917	33	nad7eU35SL	86%	strong	Lycophytes	Angiosperms
8	171950		nad7eU2TM	74%	weak	Psilotum	
9	52610	7	nad9eU1303FF	6%	silent		
9	52617	76	nad9eU1296AV	6%	not predicted		
9	52693	178	nad9eU1220Q*	14%	not predicted		
9	52871	15	nad9eU104ZLL	31%	silent		
9	52886	5	nad9eU1027TT	13%	silent		
9	52891	85	nad9eU1022HY	22%	not predicted		
9	52976	135	nad9eU937TT	6%	silent		
9	53111	84	nad9eU0802FF	23%	silent		
9	53195	46	nad9eC718RR	9%	silent		
9	53241	22	nad9eC671MT	85%	strong		
9	53263	6	nad9eC649YH	56%	strong		
9	53269	21	nad9eC643YH	78%	strong		
9	53290	51	nad9eC622CR	39%	not predicted		
9	53341	8	nad9eU571HY	12%	not predicted		
9	53349	20	nad9eC563LP	46%	not predicted		
9	53369	10	nad9eU543TT	13%	silent		
9	53379	46	nad9eU533SF	89%	strong	Lycophytes	Psilotum
9	53425	8	nad9eC487CR	91%	strong		
9	53433	65	nad9eU479SL	6%	not predicted		
9	53498	38	nad9eU434PF	41%	silent		
9	53536	48	nad9eC376YH	86%	strong		
9	53584	12	nad9eU328RW	89%	strong	Lycophytes	Angiosperms
9	53596	2	nad9eC316SP	85%	strong		SLO1
9	53598	44	nad9eU3145F	85%	strong	Selaginella	

9	53642	17	nad9eU270II	45%	silent		
9	53659	20	nad9eC253CR	85%	strong	Ophioglossum	Eusporangiates
9	53679	10	nad9eU233PL	82%	strong	Lycophytes	
9	53689	28	nad9eU223HY	76%	strong	Selaginella	Angiosperms
9			nad9eU211LF missing				
9	53717	17	nad9eU195PP	11%	silent		
9	53734	11	nad9eU178RC	88%	strong	Isoetes	Eusporangiates
9	53745	21	nad9eU1675L	86%	strong	Lycophytes	Angiosperms
9	53766	33	nad9eC146IT	91%	strong		
9			nad9eC133FL missing				
9	53799	19	nad9eU1135L	92%	strong	Lycophytes	Angiosperms
9	53818	28	nad9eU94HY	21%	weak		
9	53846	14	nad9eU66II	56%	silent		
9	53860	14	nad9eU52RW	91%	strong	Lycophytes	
9	53874		nad9eC38IT	83%	not predicted		
8	143692	36	rpl2eU+50	32%	3'-UTR		
8	143728	4	rpl2eC+14	28%	3'-UTR		
8	143732	95	rpl2eC+10	50%	3'-UTR		
8	143827	22	rpl2eC1022MT	86%	strong		
8	143849	6	rpl2eC1000YH	88%	strong		
8	143855	123	rpl2eC994YH	85%	strong		
8	143978	6	rpl2eC871*R	85%	strong		
8	143984	3	rpl2eC865*Q	87%	strong		
8	143987	23	rpl2eC862LL	6%	silent		
8	144010	3	rpl2eC839LS	68%	strong		
8	144013	9	rpl2eC836LP	72%	strong		
8	144022	10	rpl2eU827AV	81%	strong		
8	144032	45	rpl2eC817*Q	65%	strong		
8	144077	5	rpl2eC772*R	77%	strong		
8	144082	66	rpl2eU7675L	77%	strong		
8	144148	10	rpl2eU7015L	80%	strong	Selaginella	
8	144158	15	rpl2eU6918RC	88%	strong		
8	144173	14	rpl2eC676*Q	68%	strong		
8	144187	67	rpl2eU662PL	82%	strong		
8	144254	15	rpl2eC595*Q	80%	strong		
8	144269	24	rpl2eU580LL	94%	silent		
8	144293	42	rpl2eC556*R	64%	strong		
8	144335	36	rpl2eU514RW	88%	strong		
8	144371	3	rpl2eC478*Q	66%	strong		
8	144374	28	rpl2eC475YH	81%	weak		
8	144402	207	rpl2i846g2eU710	41%	intron		
8	144609	504	rpl2i846g2eU503	38%	intron		
8	145113	36	rpl2eU4555F	57%	weak		
8	145149	43	rpl2eU419PL	57%	not predicted		
8	145192	19	rpl2eU376PS	9%	not predicted		
8	145211	5	rpl2eU357NN	15%	silent		
8	145216	3	rpl2eC352*Q	67%	strong		
8	145219	135	rpl2eU349RW	74%	not predicted	Ophioglossum	
8	145354	5	rpl2eC214*R	62%	strong	Ophioglossum	Angiosperms
8	145359	12	rpl2eU2095L	74%	strong		
8	145371	2	rpl2eC197FS	73%	strong		
8	145373	5	rpl2eU1955S	11%	silent		
8	145378	5	rpl2eC190CR	71%	strong		
8	145383	39	rpl2eC185LP	78%	strong		
8	145422	7	rpl2eU146AV	79%	not predicted		
8	145429	18	rpl2eC139*H	59%	strong		
8	145447	3	rpl2eC121*R	49%	strong		
8	145450	6	rpl2eC118*Q	57%	strong		
8	145456	5	rpl2eC112*R	60%	strong		
8	145461	13	rpl2eC107LS	65%	strong		
8	145474	3	rpl2eC94WR	70%	strong		
8	145477	24	rpl2eC91YH	76%	strong		
8	145501	10	rpl2eU67PS	83%	strong	Ophioglossum	
8	145511	1	rpl2eU57AA	75%	NESI		
8	145512		rpl2eC56VA	65%	strong		
7	187084	3	rpl5eU27TM	85%	strong		
7	187087	6	rpl5eC5LS	10%	not predicted		
7	187093	38	rpl5eU109PL	5%	not predicted		
7	187131	9	rpl5eC49*Q	70%	strong		
7	187140	1	rpl5eU58PL PS	44%	secondary silent		
7	187141	3	rpl5eU59PL PL	96%	strong		
7	187144	7	rpl5eU62PS	81%	strong		
7	187151	16	rpl5eC69YY	7%	silent		
7	187167	1	rpl5eU85PL PS	54%	secondary silent		
7	187168	15	rpl5eU86PL PL	73%	not predicted		
7	187183	72	rpl5eU1015L	81%	strong	Psilotum	Angiosperms
7	187255	8	rpl5eU173PL	91%	weak	Ophioglossum	Angiosperms
7	187263	6	rpl5eC181*Q	82%	strong	Ophioglossum	
7	187269	12	rpl5eU187RC	88%	weak		
7	187281	17	rpl5eC199*R	73%	strong		
7	187298	37	rpl5eC218TT	31%	silent		
7	187335	26	rpl5eC253*Q	56%	strong		
7	187361	13	rpl5eU279VV	71%	silent		
7	187374	12	rpl5eC292*Q	90%	strong	Psilotum	
7	187386	13	rpl5eC304*R	81%	strong		
7	187399	8	rpl5eU3177TM	88%	strong	Isoetes	
7	187407	36	rpl5eU325LF	90%	strong		
7	187443	15	rpl5eC361YH	91%	not predicted		
7	187458	8	rpl5eC376*R	74%	strong		
7	187466	6	rpl5eU382NN	10%	silent		
7	187472	43	rpl5eC388II	11%	silent		
7	187515	6	rpl5eU433LF	93%	strong		
7	187521	17	rpl5eC439*Q	88%	strong		
7	187538	5	rpl5eC456FF	10%	silent		
7	187543	2	rpl5eU461TI	91%	strong		
7	187545	1	rpl5eU463PF PS	91%	strong		
7	187546	3	rpl5eU464PF PL	86%	strong		
7	187549	6	rpl5eU467AV	6%	not predicted		
7	187555	2	rpl5eU473PL	89%	weak		
7	187557	54	rpl5eC475*R	75%	strong		
7	187611	17	rpl5eC529FL	45%	not predicted		
7	187628	3	rpl5eC546FF	16%	silent		
7	187631		rpl5eC549NN	7%	silent		
6	114105	44	rpl6eU261FF	86%	silent		
6	114149	14	rpl6eU217RC	86%	strong		
6	114163	5	rpl6eC203VA	86%	strong		
6	114168	1	rpl6eU1985S_FF	32%	NESI		
6	114169	4	rpl6eU1975F	95%	strong		
6	114173	12	rpl6eC193*Q	91%	strong		
6	114185	18	rpl6eC181*R	67%	strong		
6	114203	5	rpl6eU163RC	86%	strong	Psilotum	
6	114208	10	rpl6eU158TI	95%	strong	Ophioglossum	
6	114218	9	rpl6eC148YH	87%	weak		
6	114227	9	rpl6eU139RC	89%	strong		
6	114236	24	rpl6eC130CR	83%	strong		
6	114260	9	rpl6eC106*R	80%	strong		
6	114269	23	rpl6eC97YH	95%	strong	Ophioglossum	
6	114292	13	rpl6eU745L	83%	strong		
6	114305	4	rpl6eC61*Q	81%	strong		
6	114309	9	rpl6eU57NN	31%	silent		
6	114318	16	rpl6eU48VV	12%	silent		
6	114334	4	rpl6eU32TI	87%	not predicted		
6	114338	2	rpl6eC28*Q	86%	weak		
6	114340	3	rpl6eU265L	85%	weak		
6	114343	9	rpl6eU235F	84%	weak		
6	114352	4	rpl6eU145F	85%	weak		
6	114356		rpl6eC10*Q	94%	weak		
1	7336	9	rpl16eC28WR	88%	strong		
1	7345	39	rpl16eC37*Q	88%	strong		
1	7384	11	rpl16eC76*R	97%	strong		
1	7395	41	rpl16eU87FF	64%	silent		
1			rpl16eU127LS LL missing				

1	7436	5	rpl16eC128LP	97%	strong			
1	7441	42	rpl16eC133*Q	91%	strong			
1	7483	12	rpl16eC175*Q	97%	strong			
1	7495	20	rpl16eC187*R	94%	strong			
1	7515	84	rpl16eU207FF	24%	silent	Eusporangiates	Angiosperms	OTF2
1	7609	7	rpl16eC301*Q	97%	strong			
1	7616	66	rpl16eU308PL	97%	strong			
1					rpl16eC331FL missing	Angiosperms		
1	7682	8	rpl16eU374PL	98%	strong			
1	7690	157	rpl16eC382SP	91%	not predicted			
1	7847		rpl16eU+131	9%	3'-UTR			
1	60517	650	rps1eU2TM	53%	strong			
1	61167	3	rps1I25g2eU627	5%	intron			
1	61170	98	rps1I25g2eU630	19%	intron			
1	61268	123	rps1I25g2eU728	31%	intron			
1	61391	7	rps1eC67*Q	67%	strong			
1	61398	19	rps1eC74FS	66%	strong			
1	61417	36	rps1eU93YY	49%	silent			
1	61453	120	rps1eU129H	46%	silent			
1	61573	9	rps1eU249LL	8%	silent			
1	61582	8	rps1eU258H	7%	silent			
1	61590	43	rps1eU266SL	94%				
1	61633	2	rps1eU309H	7%	silent			
1	61635	18	rps1eU311SL	99%	not predicted			
1	61653	20	rps1eU329PL	6%	not predicted			
1	61673	1	rps1eU349PL PS	96%	secondary silent			
1	61674	25	rps1eU350PL PL	27%	not predicted			
1	61699	56	rps1eU375H	6%	silent			
1	61755	24	rps1eC431LS	87%	weak			
1	61779	4	rps1eC455VA	85%	strong			
1	61783	17	rps1eU4559H	12%	silent			
1	61800	6	rps1eU476SF	87%	strong	Ophioglossum	Angiosperms	
1	61806	9	rps1eC482LP	85%	strong			
1	61815	35	rps1eU491PL	91%	weak			
1	61816		rps1eU492PP_LL	49%	NESI			
1	61850	39	rps1eU526HY	7%	not predicted			
1	61889	11	rps1eU565Q*	8%	not predicted			
1	61900	107	rps1eC576FF	6%	silent			
1	62007	1	rps1eU683SF	78%	not predicted			
1	62008	6	rps1eU684SS_FF	77%	NESI			
1	62014	2	rps1eU690H	63%	NESI			
1	62015		rps1eU691PL PS	68%	secondary silent			
1	62016	6	rps1eU692PL PL	76%	weak			
1	62022	48	rps1eU698TM	80%	weak			
1	62071	12	rps1eU747YY	6%	silent			
1	62083	1	rps1eU759LL	16%	NESI, silent			
1	62084	14	rps1eU760Q*	93%	NESI			
1	62098	34	rps1eU+12	38%	3'-UTR			
1	62132	147	rps1eU+46	6%	3'-UTR			
1	62279	22	rps1eU+193	12%	3'-UTR			
1	62301		rps1eU+215	10%	3'-UTR			
1	33208	11	rps2eU2TM	34%	not predicted			
1	33219	2	rps2eC13FL	8%	not predicted			
1	33221	68	rps2eC13FF	14%	silent			
1	33289	16	rps2eU83PL	77%	strong	Psilotum		
1	33305	63	rps2eU999HH	41%	silent			
1	33368	6	rps2eU1625S	46%	silent			
1	33374	6	rps2eU168TT	46%	silent			
1	33380	17	rps2eU174H	9%	silent			
1	33397	187	rps2eU191PL	52%	strong			
1	33584	69	rps2eU378HH	5%	silent			
1	33653	26	rps2eC447YY	6%	silent			
1	33679	46	rps2eU470LL	72%	silent			
1	33725	1	rps2eU519H	12%	NESI			
1	33726	16	rps2eC520CR	50%	not predicted			
1	33742	9	rps2eU536SL	60%	strong	Isoetes		
1	33751	316	rps2eC545LP	68%	strong			
1	34067	151	rps2eU861FF	8%	silent			
1	34218	33	rps2eU1011LL	8%	silent			
1	34251	32	rps2eU1044HY	41%	not predicted			
1	34283	15	rps2eU1077VV	24%	silent			
1	34298	26	rps2eU1092NN	31%	silent			
1	34324	25	rps2eU1118PL	21%	not predicted			
1	34349	20	rps2eU1143NN	16%	silent			
1	34369	125	rps2eU1163SL	11%	not predicted			
1	34494	236	rps2eC1288FL	28%	not predicted			
1	34730	12	rps2eU1524SS	74%	silent			
1	34742	4	rps2eC1536FF	77%	silent			
1	34746	5	rps2eU1540RC	96%	not predicted			
1	34751	2	rps2eU1545H	87%	silent			
1	34753	2	rps2eU15475L	9%	not predicted			
1	34755	2	rps2eU1549LF	89%	not predicted			
1	34757	9	rps2eU1551LL_FF	82%	silent			
1	34766	15	rps2eU+3	82%	3'-UTR			
1	34781	47	rps2eU+18	94%	3'-UTR			
1	34828	3	rps2eU+65	7%	3'-UTR			
1	34831	1063	rps2eU+68	81%	3'-UTR			
1	35894		rps2eU+1130	7%	3'-UTR			
1	3811	28	rps3eU2TM	93%	strong			
1	3839	10	rps3eU30VV	27%	silent			
1	3849	1	rps3eU40PL PS	87%	secondary silent			
1	3850	23	rps3eU41PL PL	5%	strong	Psilotum		
1	3873	84	rps3eU64RW	80%	strong	Isoetes	Angiosperms	
1	3957	16	rps3I74g2eU74	10%	intron			
1	3973	578	rps3I74g2eC90	8%	intron			
1	4351	714	rps3I74g2eC468	68%	intron			
1	5065	18	rps3I74g2eU1182	7%	intron			
1	5083	88	rps3I74g2eU1200	71%	intron			
1	5171	26	rps3I74g2eU1288	14%	intron			
1	5180	25	rps3eU75DD	75%	silent			
1					rps3eU76HY missing			
1	5197	20	rps3eU92SL	91%	strong	Isoetes	Angiosperms	
1	5205	12	rps3eC100*Q	89%	strong	Isoetes		
1	5217	2	rps3eU112LF	83%	weak			
1	5219	7	rps3eU114FF	32%	silent			
1	5226	1	rps3eU121PF PS	91%	weak			
1	5227	19	rps3eU122PF PL	93%	weak			
1	5246	26	rps3eU141PP	30%	silent			
1	5272	1	rps3eU167TI	10%	weak			
1	5273	15	rps3eU168TT_II	15%	NESI			
1	5288	6	rps3eU183DD	11%	silent			
1	5294	113	rps3eU189TT	39%	silent			
1	5407	5	rps3eU302PL	97%	not predicted			
1	5412	3	rps3eC307*Q	89%	weak			
1	5415	15	rps3eC310*R	90%	weak			
1	5430	3	rps3eU325LF	92%	weak			
1	5433	6	rps3eU328LF	81%	weak			
1	5439	12	rps3eC334*R	79%	strong			
1	5451	3	rps3eC336*R	71%	weak			
1	5454	6	rps3eC349*R	70%	weak			
1	5460	329	rps3eC355*Q	66%	strong			
1	5789	243	rps3I249g2eC321	5%	intron			
1	6032	248	rps3I249g2eU564	94%	intron			
1	6280	81	rps3I249g2eU812	75%	intron			
1	6361	6	rps3I249g2eU893	76%	intron			
1	6367	129	rps3eC365LP	11%	weak			
1	6496	14	rps3eU494PL	96%	weak			
1	6510	6	rps3eC508*Q	92%	weak			
1	6516	28	rps3eC514VH	22%	weak			
1	6544	7	rps3eU542TI	97%	not predicted			
1	6551	10	rps3eU550DD	11%	silent			
1	6561	1	rps3eU559PF PS	87%	not predicted			

1	6562	2	rps3eU560PF PL	86%	not predicted		
1	6564	45	rps3eU562PS	85%	not predicted		
1	6609	54	rps3eC607*R	96%	weak		
1	6663	24	rps3eU661RC	94%	weak		
1	6687	19	rps3eU685RC	95%	not predicted		
1	6706	2	rps3eU704PL	94%	not predicted		
1	6708	24	rps3eU706RC	95%	not predicted		
1	6732	3	rps3eC730*R	95%	weak		
1	6735	10	rps3eU733RC	96%	weak		
1	6745	7	rps3eU743TM	5%	not predicted		
1	6752	14	rps3eU750PP	13%	silent		
1	6766	13	rps3eU764TM	94%	not predicted		
1	6779	31	rps3eU777YY	6%	silent		
1	6810	7	rps3eC808*R	85%	weak		
1	6817	49	rps3eU815SL	98%	weak		
1	6866	7	rps3eU864VV	32%	silent		
1	6873	3	rps3eU871HY	9%	not predicted		
1	6876	6	rps3eU874RC	98%	weak		
1	6882	33	rps3eU880RW	98%	weak		
1	6915	10	rps3eC913*Q	95%	strong	Eusporangiates	
1	6925	19	rps3eU923SL	95%	strong		
1	6944	37	rps3eC942TT	6%	silent		
1	6981	3	rps3eU979HY	84%	strong	Isoetes	
1	6984	13	rps3eC982*Q	75%	strong		
1					rps3eU992FS missing		
1	6996	1	rps3eU994PL PS	90%	secondary silent		
1	6997	8	rps3eU995PL PL	80%	strong		
1	7005	10	rps3eC1003*Q	90%	strong		
1	7015	9	rps3eU1013PL	82%	not predicted		
1	7024	23	rps3eU1022PL	86%	strong	Isoetes	Angiosperms
1	7047	14	rps3eC1045*Q	86%	strong		
1	7061	5	rps3eC1059SS	5%	silent		
1	7066	1	rps3eU1064SF	97%	strong		
1	7067	1	rps3eU1065SS_FF	6%	NESI		
1	7068	3	rps3eC1066*Q	94%	strong		
1	7071	33	rps3eC1069*Q	81%	strong	Isoetes	
1	7104	9	rps3eC1102CR	89%	strong		
1	7113	3	rps3eU1111RC	95%	strong	Isoetes	Ophioglossum
1	7116	6	rps3eU1114PS	91%	strong	Isoetes	
1	7122	4	rps3eC1120*R	97%	strong	Isoetes	
1	7126	20	rps3eU1124SL	89%	strong	Ophioglossum	Angiosperms
1	7146	5	rps3eC1144*Q	97%	strong		
1	7151	51	rps3eU1149TT	12%	silent		
1	7202	61	rps3eU1200II	17%	silent		
1	7263	36	rps3eU1261PS	93%	strong	Isoetes	Psilotum
1	7299	37	rps3eU1297LL	73%	silent		
1	7336	9	rps3eC1334LS	88%	overlap rpl16		
1	7345		rps3eC1343LS	88%	overlap rpl16		
8	175190	61	rps4eU910LL	6%	silent		
8	175251	85	rps4eU849SS	8%	silent		
8	175336	123	rps4eU764SF	8%	not predicted		
8	175459	10	rps4eU641PL	82%	weak		
8	175469	9	rps4eC631*R	79%	weak		
8	175478	5	rps4eC622WR	92%	not predicted		
8	175483	4	rps4eU617PL	91%	weak		
8	175487	21	rps4eC613*Q	88%	strong		
8	175508	21	rps4eC592*R	88%	strong		
8	175529	40	rps4eC571*Q	91%	weak		
8	175569	1	rps4eC531TT_II	6%	NESI		
8	175570	6	rps4eU530TI	76%	strong		
8	175576	2	rps4eU524TI	93%	strong	Isoetes	
8	175578	9	rps4eU522LL	6%	silent		
8	175587	12	rps4eU513CC	10%	silent		
8	175599	7	rps4eU501FF	36%	silent		
8	175606	19	rps4eC494LP	81%	strong		
8	175625	4	rps4eU475PS	85%	weak	Isoetes	
8	175629	15	rps4eU472VV	34%	silent		
8	175644	10	rps4eC4564H	9%	silent		
8	175654	4	rps4eU446SL	88%	strong	Isoetes	Angiosperms
8	175658	9	rps4eC442*Q	79%	strong	Isoetes	
8	175667	17	rps4eC433*Q	90%	strong		
8	175684	15	rps4eU416SF	91%	strong	Isoetes	
8	175699	35	rps4eU401PL	90%	strong	Isoetes	Psilotum
8	175734	66	rps4eU366FF	5%	silent		
8	175800	40	rps4eU300PP	61%	silent		
8	175840	8	rps4eU260SL	83%	strong	Isoetes	Psilotum
8	175848	11	rps4eU252SS	7%	silent		
8	175859	18	rps4eC241*Q	80%	strong		
8	175877	43	rps4eC223*R	86%	not predicted		
8	175920	6	rps4eU186LL	45%	silent		
8	175926	12	rps4eU174VV	51%	silent		
8	175938	131	rps4eU162FF	10%	silent		
8	176069	6	rps4eC31*Q	35%	strong		
8	176075	8	rps4eU25RC	72%	strong	Eusporangiates	
8	176083	1	rps4eU17PF PL	87%	strong		
8	176084		rps4eU16PF PS	87%	strong		
1	129	2	rps7eU415F	6%	not predicted		
1	131	21	rps7eC43*Q	53%	strong		
1	152	5	rps7eC64*Q	63%	strong		
1	157	6	rps7eU69TT	5%	silent		
1	163	15	rps7eU75PP	21%	silent		
1	178	2	rps7eU90II	6%	silent		
1	180	38	rps7eC920T	26%	weak		
1	218	23	rps7eU130RC	76%	strong	Ophioglossum	
1	241	36	rps7eU153II	51%	silent		
1	277	10	rps7eU189AA	49%	silent		
1	287	15	rps7eC199*Q	60%	strong		
1	302	6	rps7eC214FL	67%	weak		
1	308	24	rps7eU220RW	60%	strong		
1	332	24	rps7eC244*Q	63%	strong		
1	356	18	rps7eC268*Q	68%	strong		
1	374	16	rps7eU286LL	9%	weak		
1	390	57	rps7eU302PL	62%	strong	Ophioglossum	
1	447	38	rps7eU359PL	74%	strong		
1	485		rps7eU397RW	64%	strong		
7	186381	52	rps10eC253*Q	51%	strong		
7	186433	22	rps10eC201HH	57%	silent		
7	186455	1	rps10eU179PL PL	97%	strong		
7	186456	6	rps10eU178PS LL	13%	NESI		
7	186462	4	rps10eC172*Q	56%	strong		
7	186466	20	rps10eC168HH	7%	silent		
7	186486	29	rps10eC148*Q	56%	strong		
7	186515	4	rps10eC119LS	90%	strong		
7	186519	14	rps10eC115*R	61%	strong		
7	186533	2	rps10eU1015L	95%	strong		
7	186535	5	rps10eU99II	5%	silent		
7	186540	9	rps10eC94*R	70%	strong		
7	186549	12	rps10eC85SP	37%	strong		
7	186561	14	rps10eC73*Q	58%	strong		
7	186575	13	rps10eU59PL	80%	weak		
7	186588	2	rps10eU46PS	8%	weak		
7	186590	10	rps10eU44PL	76%	not predicted		
7	186600	37	rps10eU34LF	96%	strong		
7	186637	13	rps10eU-10	17%	5'-UTR		
7	186650		rps10eU-17	5%	5'-UTR		
6	112980	141	rps11eCv151	23%	3'-UTR		
6	113121	7	rps11eU-10	12%	3'-UTR		
6	113128	5	rps11eU-9	53%	3'-UTR		
6	113133	20	rps11eU466Q*	92%	strong	Eusporangiates	Angiosperms
6	113153	4	rps11eC446LP	75%	weak		
6	113157	10	rps11eC442*R	87%	strong		
6	113167	16	rps11eC432HH	33%	silent		

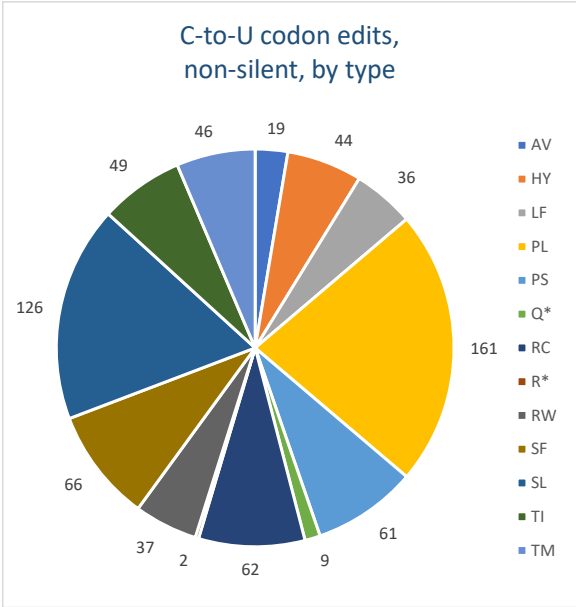
6	113183	14	rps11eC416VA	9%	not predicted		
6	113197	4	rps11eU402TT	5%	silent		
6	113201	6	rps11eU398TI	86%	weak	Ophioglossum	
6	113207	15	rps11eU392PL	94%	weak	Ophioglossum	
6	113222	56	rps11eU3775L	95%	weak	Eusporangiates	
6	113278	20	rps11eC431VV	9%	silent		
6	113298	36	rps11eC301*Q	83%	strong		
6	113334	129	rps11eC265*Q	92%	strong		
6	113463	52	rps11eC136*Q	86%	strong		
6	113515	2	rps11eU83HH	10%	silent		
6	113517	8	rps11eU82HY	86%	not predicted		
6	113525	19	rps11eC74IT	75%	not predicted		
6	113544	2	rps11eC55*Q	83%	not predicted		
6	113546	4	rps11eC53IT	14%	not predicted		
6	113550	15	rps11eC49*Q	86%	not predicted		
6	113565	3	rps11eC34WR	77%	not predicted		
6	113568	3	rps11eC31*Q	81%	not predicted		
6	113571	3	rps11eC28*Q	86%	not predicted		
6	113574	15	rps11eC25*Q	83%	not predicted		
6	113589	6	rps11eC10*Q	87%	not predicted		
6	113595	2	rps11eC4*Q	85%	not predicted		
6	113597	2	rps11eU2TM	90%	not predicted		
6	113599		rps11eU-1	90%	5'-UTR		
1	28035	80	rps12eC+124	99%	3'-UTR		
1	28115	14	rps12eU+43	59%	3'-UTR		
1	28129	31	rps12eU+29	6%	3'-UTR		
1	28160	30	rps12eU379R*	87%	strong		
1	28190	5	rps12eU349HY	49%	strong		
1	28195	10	rps12eC344LS	57%	strong		
1	28205	6	rps12eC334*R	53%	strong		
1	28211	17	rps12eC338*R	72%	strong	Psilotum	Angiosperms
1	28228	22	rps12eU3115L	66%	strong		
1	28250	17	rps12eU289RC	75%	strong		
1	28267	1	rps12eC272UP LS	50%	strong		
1	28268	26	rps12eC271UP LL	53%	strong	Angiosperms	
1	28294	13	rps12eU245AV	74%	weak		
1	28307	9	rps12eU232PS	76%	strong	Ophioglossum	Angiosperms
1	28316	2	rps12eC223*Q	45%	strong		
1	28318	7	rps12eU2215L	75%	strong		
1	28325	10	rps12eC214VH	65%	strong		
1	28335	1	rps12eU204PP	37%	NESt		
1	28336	25	rps12eC203LP	70%	strong	Eusporangiates	
1	28361	14	rps12eC178*R	67%	strong		
1	28375	3	rps12eU164AV	65%	strong		
1	28380	11	rps12eC159VV	9%	silent		
1	28391	8	rps12eC148CR	61%	strong		
1	28399	55	rps12eC140LS	67%	strong		
1	28454	2	rps12eC85*Q	60%	strong		
1	28456	4	rps12eC83LP	54%	strong		
1	28460	3	rps12eU79RC	77%	strong		
1	28463	12	rps12eC76*Q	44%	strong		
1	28475	8	rps12eC64*R	72%	strong		
1	28483	40	rps12eU56TI	8%	not predicted		
1	28523	14	rps12eC16*Q	51%	strong		
1	28537		rps12eU27TM	29%	strong		
6	113684	4	rps13eU379LL	6%	silent		
6	113688	21	rps13eC375NN	6%	silent		
6	113709	30	rps13eU354II	91%	silent		
6	113739	11	rps13eC324AA	46%	silent		
6	113750	6	rps13eC313VH	80%	strong		
6	113756	3	rps13eC307*R	83%	strong		
6	113759	6	rps13eC304*Q	83%	strong		
6	113765	39	rps13eC298CR	92%	strong		
6	113804	30	rps13eU259RC	91%	strong	Psilotum	Angiosperms
6	113834	3	rps13eC229*Q	89%	strong		
6	113837	42	rps13eC226*Q	79%	strong		
6	113879	30	rps13eC184*Q	70%	weak		
6	113909	6	rps13eC154*Q	85%	strong		
6	113915	5	rps13eU148RW	5%	not predicted		
6	113920	1	rps13eU143PL PL	90%	strong		
6	113921	26	rps13eU142PL PS	14%	secondary silent		
6			rps13eU128TI missing				
6	113947	6	rps13eU116PL	93%	weak		
6	113953	4	rps13eU1105L	91%	strong		
6	113957	6	rps13eC106*Q	79%	strong	Ophioglossum	Angiosperms
6	113963	39	rps13eU100RC	90%	strong		
6	114002	1	rps13eC61*Q	91%	strong		
6	114003	20	rps13eU60TT	25%	NESt		
6	114023	26	rps13eC40*Q	95%	strong		
6	114049	12	rps13eU14PL	86%	weak		
6	114061		rps13eU2AV	83%	not predicted		
9	117364	3	rps14eU-113	35%	5'-UTR		
9	117367	31	rps14eU-110	90%	5'-UTR		
9	117398	35	rps14eC-79	10%	5'-UTR		
9	117433	12	rps14eC-43	87%	5'-UTR		
9	117445	21	rps14eU-32	38%	5'-UTR		
9	117466	35	rps14eC-10	83%	5'-UTR		
9	117501	13	rps14eC25*R	82%	strong		
9	117514	2	rps14eU38PL	95%	not predicted		
9	117516	7	rps14eC40*R	72%	strong		
9	117523	13	rps14eU47PL	87%	strong		
9	117536	10	rps14eC60YY	14%	silent		
9	117546	7	rps14eC70*R	73%	strong		
9	117553	1	rps14eU77PL	90%	weak		
9	117554	3	rps14eU78LL	17%	NESt		
9	117557	13	rps14eC81YY	10%	silent		
9	117570	34	rps14eC94*Q	67%	strong		
9	117604	1101	rps14i114g2eU8	5%	intron		
9	118705	91	rps14i114g2eU1109	47%	intron		
9	118796	574	rps14i114g2eU1200	75%	intron		
9	119370	9	rps14eU134PL	15%			PPR78
9	119379	6	rps14eU1435L	71%	strong		
9	119385	3	rps14eU149PL	48%	not predicted		
9	119388	3	rps14eU1525L	71%	strong	Ophioglossum	
9	119391	20	rps14eC155LP	34%	strong		
9	119411	12	rps14eC175*R	80%	strong	Ophioglossum	
9	119423	3	rps14eC187*R	90%	strong		
9	119426	7	rps14eU190RC	87%	strong		
9	119433	1	rps14eU1975F	87%	strong	Angiosperms	
9	119434	2	rps14eU19855_FF	8%	NESt		
9	119436	9	rps14eC200IT	60%	strong		
9	119445	6	rps14eC209FS	51%	strong	Ophioglossum	
9	119451	8	rps14eC215FS	47%	strong		
9	119459	27	rps14eC223*Q	42%	strong		
9	119486	1	rps14eU250PF PS	83%	strong		
9	119487	1	rps14eU251PF PL	91%	strong		
9	119488	8	rps14eU252PP_FF	8%	NESt		
9	119496	6	rps14eU2605L	90%	strong		
9	119502	12	rps14eC266LS	80%	strong		
9	119514	23	rps14eU2785L	77%	strong		
9	119537	3	rps14eU301RW	79%	strong		
9	119540	3	rps14eU304Q*	80%	weak		
9	119543	5	rps14eU+1	5%	3'-UTR		
9	119548	5	rps14eU+6	21%	3'-UTR		
9	119553	3	rps14eU+11	9%	3'-UTR		
9	119556	7	rps14eU+14	5%	3'-UTR		
9	119563	50	rps14eU+21	17%	3'-UTR		
9	119613	45	rps14eU+71	9%	3'-UTR		
9	119658		rps14eU+11G	12%	3'-UTR		
1	3549	4	rps19eC7*R	30%	weak		
1	3553	36	rps19eC11FS	31%	weak		
1	3589	31	rps19eU475L	39%	weak		

1	3620	7	rps19eU66II	25%	silent		
1	3627	7	rps19eC85CR	87%	strong		
1	3634	75	rps19eC92FS	81%	strong		
1					rps19eU133HY missing		
1	3709	40	rps19eC167IT	88%			
1	3749	2	rps19eU207SS	82%	silent		
1	3751	2	rps19eC209IT	87%	strong		
1	3753	20	rps19eC211*R	76%	strong		
1	3773	56744	rps19eU231TT	86%	silent		
1					rps19eC247*Q missing		
8	140818	119	sdh3eU+74	6%	3'-UTR		
8	140937	5	sdh3eU351VV	6%	silent		
8	140942	2	sdh3eU346RC	97%	strong	Eusporangiates	
8	140944	9	sdh3eU3445F	96%	strong		
8	140953	33	sdh3eU335PL	99%	weak		
8	140986	7	sdh3eU3025L	94%	strong		
8	140993	5	sdh3eU295LF	97%	strong		
8	140998	16	sdh3eU2905L	96%	strong	Ophioglossum	
8	141014	3	sdh3eC224YH	89%	strong		
8	141017	18	sdh3eC271CR	95%	strong		
8	141035	28	sdh3eC253YH	93%	strong		
8	141073	24	sdh3eU2155L	92%	weak		
8	141097	5	sdh3eC191VA	5%	not predicted		
8	141102	3	sdh3eU186FF	6%	silent		
8	141105	11	sdh3eU183FF	12%	silent		
8	141116	6	sdh3eC172*Q	72%	strong		
8	141122	81	sdh3eU166RC	91%	not predicted		
8					sdh3eS155IT missing		
8	141203	9	sdh3eU85PS	94%	strong	Isoetes	Ophioglossum
8	141212	9	sdh3eC76YH	95%	strong		
8					sdh3eU73 missing		
8	141221	10	sdh3eU67PS	95%	strong	Isoetes	Angiosperms
8	141231	8	sdh3eU57TT	91%	silent		
8	141239	13	sdh3eC49*Q	78%	strong	Isoetes	
8	141252	14	sdh3eU36TT	15%	silent	Isoetes	Angiosperms
8	141266	9	sdh3eU22PS	93%	strong		
8	141275	4	sdh3eC13*R	89%	strong		
8	141279	5	sdh3eU9II	48%	silent		
8	141284	87	sdh3eC4*Q	94%	strong		
8	141371	36	sdh3eU-84	79%	5'-UTR		
8	141407		sdh3eU-120	7%	5'-UTR		
1	31130	36	sdh4eU21TM	85%	not predicted		
1	31166	57	sdh4eU38TI	98%	weak		
1	31223	9	sdh4eC95IT	98%	strong		
1	31232	9	sdh4eU1045L	95%	strong		
1	31241	1	sdh4eU1135F	95%	not predicted		
1	31242	10	sdh4eU1145S_FF	6%	NESI		
1	31252	3	sdh4eU124RW	82%	strong	Ophioglossum	
1	31255	25	sdh4eC127YH	94%	strong		
1	31280	32	sdh4eU152TI	87%	strong		
1	31312	6	sdh4eC184*R	97%	strong		
1	31318	7	sdh4eU190RC	95%	not predicted		
1	31325	20	sdh4eU1975L	31%	strong		
1	31345	14	sdh4eU217LL	16%	silent		
1	31359	9	sdh4eU231II	10%	silent		
1	31368	1	sdh4eU240FF	5%	NESI		
1	31369	4	sdh4eU241RC	98%	not predicted		
1	31373	9	sdh4eU2455L	88%	weak		
1	31382	1	sdh4eU254AV	95%	weak		
1	31383	18	sdh4eU255AA_VV	15%	NESI		
1	31401	5	sdh4eU+9	7%	3'-UTR		
1	31406	53	sdh4eU+14	15%	3'-UTR		
1	31459		sdh4eC+67	11%	3'-UTR		
9	21566	21	tatCeU17PL	60%	strong	Ophioglossum	
9	21587	8	tatCeU38PL	69%	weak	Psilotum	
9	21595	6	tatCeC46CR	45%	strong	Isoetes	
9	21601	15	tatCeU52HY	62%	not predicted		
9	21616	13	tatCeU67RC	58%	strong	Isoetes	
9	21629	60	tatCeC80MT	72%	strong		
9	21689	1	tatCeU140PL	76%	not predicted		
9	21690	65	tatCeU141PP_LL	74%	NESI		
9	21755	3	tatCeC206FS	59%	strong		
9	21758	8	tatCeC209LS	16%	weak		
9	21766	25	tatCeU217RC	68%	strong	Selaginella	
9	21791	74	tatCeU243TM	56%	not predicted		
9	21865	28	tatCeU316PS	70%	not predicted		
9					tatCeU343PF/PS missing		
9	21893	6	tatCeU344PL	67%	strong		
9	21899	1	tatCeU3505F	62%	strong	Isoetes	Eusporangiates
9	21900	91	tatCeU3515S_FF	42%	NESI		
9					tatCeC391FL missing		
9	21991	1	tatCeC442SL SP	66%	secondary silent		
9	21992	21	tatCeU443SL SL	6%	not predicted		
9	22013	3	tatCeC464LS	55%	not predicted		
9	22016	14	tatCeU4675L	47%	strong		
9	22030	15	tatCeU481LL	53%	silent		
9	22045	3	tatCeU496LL	23%	silent		
9	22048	2	tatCeU499RC	64%	strong	Psilotum	
3	22050	30	tatCeU501LL	9%	silent		
9	22080	34	tatCeU5395L	32%	weak	Angiosperms	
9	22114	9	tatCeU569L	10%	silent		
9	22123	18	tatCeC574CR	74%	strong		
9	22141	48	tatCeU592HY	51%	not predicted		
9	22189	26	tatCeC640*Q	74%	strong		
9	22224	35	tatCeU675LL	8%	silent		
9	22259	4	tatCeU710PL	75%	not predicted		
9	22263	12	tatCeC714YY	15%	silent		
9	22275	62	tatCeU726PP	28%	silent		
9	22337	1	tatCeU788PL	67%	not predicted		
9	22338	64	tatCeU789PP_LL	68%	NESI		
9	22402		tatCeC853*Q	95%	not predicted		

Edits	1618	1091	527	21	12	1495	233	233	57	45	0
Gene	total	C>U	U>C	5'-UTR	start	CDS	*>Q/R	silent	introns	3'-UTR	check
atp1	3	3	0	0	0	3	0	1	0	0	0
atp4	5	4	1	0	0	5	0	3	0	0	0
atp6	41	32	9	0	1	41	6	6	0	0	0
atp8	31	19	12	0	1	31	7	3	0	0	0
atp9	15	11	4	0	0	15	2	0	0	0	0
cob	8	6	2	1	0	7	0	4	0	0	0
cox1	145	90	55	5	0	136	11	9	2	2	0
cox2	44	25	19	0	0	42	9	4	2	0	0
cox3	29	19	10	0	0	29	4	5	0	0	0
matR	69	40	29	0	0	69	21	6	0	0	0
nad1	95	66	29	1	0	87	8	6	5	2	0
nad2	98	82	16	2	0	83	5	22	12	1	0
nad3	15	10	5	0	0	15	1	6	0	0	0
nad4	123	95	28	0	0	115	9	7	8	0	0
nad4L	37	31	6	0	1	28	2	3	0	9	0
nad5	106	87	19	0	1	103	8	20	3	0	0
nad6	22	21	1	1	0	21	1	4	0	0	0
nad7	92	58	34	0	1	84	20	5	7	1	0
nad9	37	25	12	0	0	37	0	11	0	0	0
rpl2	50	20	30	0	0	45	14	4	2	3	0
rpl5	38	20	18	0	1	38	9	8	0	0	0
rpl6	24	14	10	0	0	24	6	3	0	0	0
rpl16	14	5	9	0	0	13	6	2	0	1	0
rps1	40	34	6	0	1	33	1	9	3	4	0
rps2	37	30	7	0	1	32	0	17	0	5	0
rps3	90	61	29	0	1	80	19	15	10	0	0
rps4	38	25	13	0	0	38	9	13	0	0	0
rps7	19	12	7	0	0	19	5	5	0	0	0
rps10	20	10	10	2	0	18	6	3	0	0	0
rps11	30	11	19	1	1	26	11	4	0	3	0
rps12	32	14	18	0	1	29	8	1	0	3	0
rps13	25	12	13	0	0	25	9	4	0	0	0
rps14	48	31	17	6	0	32	7	2	3	7	0
rps19	11	4	7	0	0	11	2	3	0	0	0
sdh3	29	20	9	2	0	26	4	6	0	1	0
sdh4	22	18	4	0	1	19	1	2	0	3	0
tatC	36	26	10	0	0	36	2	7	0	0	0

50% ET (Efficiency Threshold)									
		≥ ET	< ET	check					
total	1618	1142	458	18					
C to U sites					U to C sites				
total	1091	720	358	13	total	527	422	100	5
Codon edits, non-silent									
total	718	611	98	9	total	479	411	63	5
AV	19	16	3	0	VA	17	14	3	0
HY	44	29	13	2	YH	45	41	4	0
LF	36	34	2	0	FL	9	5	4	0
PL	161	137	23	1	LP	54	48	6	0
PS	61	46	15	0	SP	14	12	2	0
Q*	9	5	4	0	*Q	154	135	18	1
RC	62	60	1	1	CR	22	20	2	0
R*	2	1	1	0	*R	79	63	14	2
RW	37	32	4	1	WR	7	5	2	0
SF	66	60	6	0	FS	22	20	2	0
SL	126	111	13	2	LS	22	19	2	1
TI	49	42	6	1	IT	27	23	3	1
TM	46	38	7	1	MT	7	6	1	0

Start creation					Stop removal				
TM start	15	12	2	1	*>Q/R	233	198	32	3
Stop creation									
	11	6	5	0					



Multiple codon edits

	127	total							
	100	sense							
sense	83	66	17	0	sense	17	16	1	0
	27	silent _							
silent _	25	7	16	2	silent _	2	0	2	0
Additional codon changes:									
PF/PS	14	14	0	0	FP/FL	0	0	0	0
PF/PL	14	14	0	0	FP/FS	0	0	0	0

Silent edits					298	75	219		
sum	266	70	192	4	total	32	5	27	0
AA	11	5	6	0	AA	1	0	1	0
CC	2	0	2	0	CC	0	0	0	0
DD	6	2	4	0	DD	0	0	0	0
FF	54	16	38	0	FF	6	1	5	0
GG	2	1	1	0	GG	0	0	0	0
HH	3	0	3	0	HH	4	1	3	0
II	44	9	35	0	II	2	0	2	0
LL	55	23	30	2	LL	2	1	1	0
NN	8	0	8	0	NN	3	0	3	0
PP	14	3	10	1	PP	0	0	0	0
RR	3	0	3	0	RR	1	0	1	0
SS	13	5	8	0	SS	2	1	1	0
TT	26	2	23	1	TT	2	0	2	0
VV	17	3	14	0	VV	3	0	3	0
YY	8	1	7	0	YY	6	1	5	0

Primary silent edits

LS/LL	6	6	0	0	LP/LL	1	1	0	0
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Secondary silent edits

PL/PS	19	7	12	0	SL/SP	2	1	1	0
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Non-coding regions									
total	123	45	78						
total	107	39	68	45	total	16	6	10	0
5'-UTR	21	8	13	21	check				
5'-UTR	18	6	12	0	5'-UTR	3	2	1	0
3'-UTR	45	10	35	45	check				
3'-UTR	39	8	31	0	3'-UTR	6	2	4	0
Introns	57	27	30						
Introns	50	25	25	0	Intron	7	2	5	0

