

**S1 Table. Gene coordinates in mitochondrial genomes of *S.mikatae* and *S.kudriavzevii***

<i>S.mikatae</i>	Coordinates			<i>S.kudriavzevii</i>	Coordinates		
	<i>Genetic element</i>	Start	End		Orientation	<i>Genetic element</i>	Start
<i>rnl exon1</i>	789	3469	Direct	<i>rnl</i>	537	3802	Direct
<i>Intron rnl</i>	3470	3862	Direct	<i>tRNA-Thr2</i>	5237	5312	Direct
<i>rnl exon2</i>	3863	4441	Direct	<i>tRNA-Cys</i>	5915	5987	Direct
<i>tRNA-Thr2</i>	5483	5558	Direct	<i>tRNA-His</i>	6025	6099	Direct
<i>tRNA-Cys</i>	6057	6129	Direct	<i>tRNA-Leu</i>	6849	6933	Direct
<i>tRNA-His</i>	6221	6295	Direct	<i>tRNA-Gln</i>	6952	7027	Direct
<i>tRNA-Leu</i>	7420	7504	Direct	<i>tRNA-Lys</i>	7817	7888	Direct
<i>tRNA-Gln</i>	7528	7603	Direct	<i>tRNA-Arg1</i>	8190	8262	Direct
<i>tRNA-Lys</i>	8507	8580	Direct	<i>tRNA-Gly</i>	8400	8471	Direct
<i>tRNA-Arg1</i>	8733	8805	Direct	<i>tRNA-Asp</i>	9560	9632	Direct
<i>tRNA-Gly</i>	8853	8927	Direct	<i>tRNA-Ser1</i>	10633	10718	Direct
<i>tRNA-Asp</i>	9538	9612	Direct	<i>tRNA-Arg2</i>	10725	10797	Direct
<i>tRNA-Ser1</i>	10565	10650	Direct	<i>tRNA-Ala</i>	11650	11725	Direct
<i>tRNA-Arg2</i>	10651	10724	Direct	<i>tRNA-Ile</i>	11848	11922	Direct
<i>tRNA-Ala</i>	11109	11184	Direct	<i>tRNA-Tyr</i>	12402	12485	Direct
<i>tRNA-Ile</i>	11409	11484	Direct	<i>tRNA-Asn</i>	13001	13071	Direct
<i>tRNA-Tyr</i>	12172	12253	Direct	<i>tRNA-Met1</i>	13540	13614	Direct
<i>tRNA-Asn</i>	12813	12883	Direct	<i>cox2</i>	14358	15113	Direct
<i>tRNA-Met1</i>	13843	13918	Direct	<i>ORF1</i>	15095	16519	Direct
<i>cox2</i>	15048	15803	Direct	<i>tRNA-Phe</i>	18276	18347	Direct
<i>ORF1</i>	15785	17200	Direct	<i>tRNA-Thr1</i>	18643	18714	Reverse
<i>tRNA-Phe</i>	18161	18235	Direct	<i>tRNA-Val</i>	19579	19654	Direct
<i>tRNA-Thr1</i>	18844	18917	Reverse	<i>cox3</i>	20450	21259	Direct
<i>tRNA-Val</i>	19251	19326	Direct	<i>Rep-origin1</i>	24351	24594	Direct
<i>cox3</i>	19933	20742	Direct	<i>Rep-origin2</i>	28537	28796	Reverse
<i>Rep-origin1</i>	24731	24995	Direct	<i>tRNA-Met2</i>	31334	31411	Direct
<i>tRNA-Met2</i>	27327	27404	Direct	<i>rnp1</i>	32129	32549	Direct
<i>rnp1</i>	27866	28239	Direct	<i>tRNA-Pro</i>	32743	32814	Direct
<i>tRNA-Pro</i>	29004	29075	Direct	<i>cox1 exon1</i>	34268	34507	Direct
<i>cox1 exon1</i>	32094	32262	Direct	<i>Intron cox1.1</i>	34508	36071	Direct
<i>Intron cox1.1</i>	32263	34710	Direct	<i>cox1 exon2</i>	36072	36217	Direct
<i>cox1 exon2</i>	34711	34781	Direct	<i>Intron cox1.2</i>	36218	37231	Direct
<i>Intron cox1.2</i>	34782	36398	Direct	<i>cox1 exon3</i>	37232	37554	Direct
<i>cox1 exon3</i>	36399	36544	Direct	<i>Intron cox1.3</i>	37555	39633	Direct
<i>Intron cox1.3</i>	36545	37428	Direct	<i>cox1 exon4</i>	39634	39895	Direct
<i>cox1 exon4</i>	37429	37751	Direct	<i>Intron cox1.4</i>	39896	41263	Direct
<i>Intron cox1.4</i>	37752	39773	Direct	<i>cox1 exon5</i>	41264	41424	Direct
<i>cox1 exon5</i>	39774	40035	Direct	<i>Intron cox1.5</i>	41425	42297	Direct
<i>Intron cox1.5</i>	40036	41406	Direct	<i>cox1 exon6</i>	42298	42770	Direct
<i>cox1 exon6</i>	41407	41542	Direct	<i>atp8</i>	43984	44130	Direct
<i>Intron cox1.6</i>	41543	43088	Direct	<i>atp6</i>	44425	45204	Direct
<i>cox1 exon7</i>	43089	43113	Direct	<i>Rep-origin3</i>	49795	50056	Reverse
<i>Intron cox1.7</i>	43114	44003	Direct	<i>tRNA-Glu</i>	50623	50694	Direct
<i>cox1 exon8</i>	44004	44476	Direct	<i>cob exon1</i>	51650	52042	Direct
<i>atp8</i>	45692	45838	Direct	<i>Intron cob1</i>	52043	52685	Direct
<i>atp6</i>	46297	47076	Direct	<i>cob exon2</i>	52686	52707	Direct

<i>Rep-origin2</i>	48694	48957	Direct	<i>Intron cob2</i>	52708	53570	Direct
<i>tRNA-Glu</i>	52220	52291	Direct	<i>cob exon3</i>	53571	53584	Direct
<i>cob exon1</i>	53399	53791	Direct	<i>Intron cob3</i>	53585	54853	Direct
<i>Intron cob1</i>	53792	55143	Direct	<i>cob exon4</i>	54854	54930	Direct
<i>cob exon2</i>	55144	55165	Direct	<i>Intron cob4</i>	54931	56499	Direct
<i>Intron cob2</i>	55166	55947	Direct	<i>cob exon5</i>	56500	57151	Direct
<i>cob exon3</i>	55948	55961	Direct	<i>Rep-origin4</i>	58193	58454	Direct
<i>Intron cob3</i>	55962	57230	Direct	<i>rns</i>	59421	61024	Direct
<i>cob exon4</i>	57231	57307	Direct	<i>tRNA-Trp</i>	62635	62708	Direct
<i>Intron cob4</i>	57308	58869	Direct	<i>var1</i>	65351	66518	Reverse
<i>cob exon5</i>	58870	59119	Direct	<i>tRNA-Ser2</i>	67920	68008	Reverse
<i>Intron cob5</i>	59120	60607	Direct	<i>atp9</i>	69746	69976	Reverse
<i>cob exon6</i>	60608	60657	Direct				
<i>Intron cob6</i>	60658	61261	Direct				
<i>cob exon7</i>	61262	61613	Direct				
<i>Rep-origin3</i>	62514	62779	Reverse				
<i>rns</i>	63621	65268	Direct				
<i>tRNA-Trp</i>	66749	66822	Direct				
<i>atp9</i>	67942	68172	Direct				
<i>tRNA-Ser2</i>	69257	69346	Reverse				
<i>var1</i>	69915	71134	Reverse				

Note: The table showed the coordinates of 35 genes and their introns in *S.mikatae* and *S.kudriavzevii*.