

Table S1. Annotation of the mt genome of *Helota thoracica* and *Helota yehi*.

Gene	Direction	Location Start	End	Size	Anticodon	Codon Start	Stop	InteNgenic nucleotides
<i>tRNA^{Ile}</i>	J	1	64	64	GAU			-3/19
<i>tRNA^{Gln}</i>	N	62/84	130/152	69	UUG			-1/-2
<i>tRNA^{Met}</i>	J	130/151	198/221	69/71	CAU			0/17
<i>ND2</i>	J	199/239	1211/1234	1013/996		ATT/ATA	TA- tRNA/TAA	0
<i>tRNA^{Trp}</i>	J	1212/1235	1278/1301	67	UCA			0
<i>tRNA^{Cys}</i>	N	1279/1302	1341/1365	63/64	GCA			0
<i>tRNA^{Tyr}</i>	N	1342/1366	1406/1430	65	GUA			-8
<i>COX1</i>	J	1399/1423	2919/2970	1521/1548		ATT	T- tRNA/TAA	22/-6
<i>tRNA^{Leu(UUR)}</i>	J	2942/2965	3006/3031	65/67	UAA			0/-1
<i>COX2</i>	J	3007/3031	3694/3718	688		ATA/ATT	T- tRNA	0
<i>tRNA^{Lys}</i>	J	3695/3719	3765/3788	71/70	CUU			-1/0
<i>tRNA^{Asp}</i>	J	3765/3789	3830/3853	66/65	GUC			0
<i>ATP8</i>	J	3831/3854	3986/4009	156		ATT	TAG	-4/-7
<i>ATP6</i>	J	3983/4003	4654/4677	672/675		ATA/ATG	TAA	-1
<i>COX3</i>	J	4654/4677	5440/5463	787		ATG	T- tRNA	0
<i>tRNA^{Gly}</i>	J	5441/5464	5504/5527	64	UCC			0
<i>ND3</i>	J	5505/5528	5856/5879	352		ATT	T- tRNA	0

<i>tRNA^{Ala}</i>	J	5857/5880	5921/5944	65	UGC			0
<i>tRNA^{Arg}</i>	J	5922/5945	5984/6007	63	UCG			-1
<i>tRNA^{Asn}</i>	J	5984/6007	6047/6070	64	GUU			0
<i>tRNA^{Ser(AGN)}</i>	J	6048/6071	6114/6137	67	UCU			0
<i>tRNA^{Glu}</i>	J	6115/6138	6177/6200	63	UUC			0
<i>tRNA^{Phe}</i>	N	6178/6201	6243/6264	66/64	GAA			0
<i>ND5</i>	N	6244/6265	7961/7982	1718		ATT	TA- tRNA	0
<i>tRNA^{His}</i>	N	7962/7983	8026/8046	65/64	GUG			0
<i>ND4</i>	N	8027/8047	9357/9377	1331		ATG	TA- tRNA	-7/-7
<i>ND4L</i>	N	9351/9371	9635/9640	285/270		ATG/ATT	TAA	4/19
<i>tRNA^{Thr}</i>	J	9640/9660	9701/9721	62	UGU			0
<i>tRNA^{Pro}</i>	N	9702/9722	9766/9785	65/64	UGG			10/1
<i>ND6</i>	J	9777/9787	10262/10281	486/495		ATA	TAA	-1/5
<i>CYTB</i>	J	10262/1028	11399/11421	1138/1135		ATG/ATC	T- tRNA	0
		7						
<i>tRNA^{Ser(UCN)}</i>	J	11400/1142	11464/11486	65	UGA			17
		2						
<i>ND1</i>	N	11482/1150	12432/12454	951		TTG	TAG	0
		4						
<i>tRNA^{Leu(CUN)}</i>	N	12433/1245	12497/12519	65	UAG			0/30
		5						
<i>rrnL</i>	N	12498/1255	13783/13807	1286/1258				0
		0						
<i>tRNA^{Val}</i>	N	13784/1380	13852/13876	69	UAC			0

<i>rrnS</i>	N	8	13853/1387	14638/14635	786/759	0
		7				
Dloop		6	14639/1463	16112/16401	1474/1766	

Note: N and J indicate that the genes are located in the minor (N) and major (J) strand. The '/' indicated that these from left to right were *H.thoracica* and *H.yehi*. Intergenic sequence: positive numbers/negative numbers indicate intergenic/overlapping regions between adjacent genes.