

**TABLE 9.1 THE LIMITED AUTONOMY OF THE MITOCHONDRIAL GENOME**

Mitochondrial component	Encoded by	
	Mitochondrial genome	Nuclear genome
<b>Components of oxidative phosphorylation system</b>	<b>13 subunits</b>	<b>80 subunits</b>
I NADH dehydrogenase	7	42
II Succinate CoQ reductase	0	4
III Cytochrome <i>b-c</i> <sub>1</sub> complex	1	10
IV Cytochrome <i>c</i> oxidase complex	3	10
V ATP synthase complex	2	14
<b>Components of protein synthesis apparatus</b>	<b>24 RNAs</b>	<b>79 proteins</b>
rRNA	2	0
tRNA	22	0
Ribosomal proteins	0	79
<b>Other mitochondrial proteins</b>	<b>0</b>	<b>All<sup>a</sup></b>

<sup>a</sup>Includes mitochondrial DNA and RNA polymerases plus numerous other enzymes, structural and transport proteins, etc.