

species	rRNA sequence length				number of ribosomal proteins		
	large subunit		small subunit		whole	large	small
	23S/28S	5.8S	5S	16S/18S			
bacteria, <i>E. coli</i>	2904	N/A	120	1542	56	34	22
yeast, <i>S. cerevisiae</i>	3550	159	118	1800	78	46	32
brine shrimp, <i>Artemia</i>	3630	162	120	1810	—	—	—
fruit fly, <i>D. melanogaster</i>	4123	122+30	120	1995	78	46	32
rabbit, <i>O. cuniculus</i>	—	162	122	1860	—	—	—
rat, <i>R. norvegicus</i>	4943	156	121	1874	79	47	32
human, <i>H. sapiens</i>	5190	159	121	1870	79	47	32

Table 5.1: Molecular composition of ribosomes from a prokaryote and several eukaryotes. *Artemia* refers to both the North American species, *Artemia franciscana* and the European species, *Artemia salina*. The *Drosophila melanogaster* 5.8S is different and broken into two pieces, the m5.8S rRNA (122 nts) and 2S rRNA (30 nts). Ribosomal protein numbers determined by Arnold & Reilly (1999) for *E. coli*, Planta & Mager (1998) for yeast, Wool *et al.* (1996) for rat, Other numbers taken from the Ribosomal Protein Database (Nakao *et al.*, 2004) removing duplicates.