



[Link to SBGN notation](#)

The diagram illustrates the assembly of the 80S ribosome from various subunits and factors. The assembly is organized into four main clusters, each containing a grid of subunits and factors, with some highlighted in green. Arrows indicate the assembly pathway from the subunits to the final 80S ribosome.

40S ribosomal complex: This cluster contains a grid of subunits and factors, including RPS21, RPS9, RPS2, RPS12, RPS18, RPS14, RPS7, 16S rRNA, RPS16, RPS8, RPS19, RPS28, RPS27A, RPS11, FAU, RPS23, RPSA, RPS29, RPS27, RPS20, RPS24, RPS5, RPS3, RPS3A, RPS10, RPS13, RPS4Y1, RPS25, RPS15, RPS17, RPS15A, RPS6, and RPS26. The 16S rRNA is highlighted in green.

60S ribosomal complex: This cluster contains a grid of subunits and factors, including RPL4, RPL15, RPL24, RPL18, RPL23, RPL36, RPL3A, RPL36A, RPL36L, RPL37A, RPL35A, RPL8, RPL23A, RPL10A, RPL37, 5S rRNA, RPL2, RPL21, RPL30, 5.8S rRNA, RPL35, UBA52, RPL27A, RPL22, RPL22, RPL32, RPL16, RPS21, RPL3, RPL31, RPL38, RPL29, RPL11, 18S rRNA, RPS16, RPS28, 28S rRNA, RPL9, RPL19, RPL7, RPL17, FAU, RPL14, RPL28, RPL18A, RPLP1, RPL12, RPS27, RPS27, RPS20, RPS25, RPL5, RPL31, RPS3, RPL26, RPL10, RPL10, RPLP0, RPS24, RPS4X, RPS4Y1, RPS4Y2, RPS15A, RPL39, RPL35, RPL41, RPL27, RPL34, RPL7A, RPL6, RPS17, RPS13, and RPL13A. The 5S rRNA, 5.8S rRNA, and 28S rRNA are highlighted in green.

80S ribosome: This cluster contains a grid of subunits and factors, including RPS7, RPS9, RPS2, RPS12, RPL15, RPL24, RPL18, RPL23, RPL36, RPS19, RPL36A, RPL36L, RPS14, RPS28, RPL4, RPS27A, RPS11, RPL35A, RPL8, RPS10, RPSA, RPS29, RPL23A, RPS23, RPL10A, RPS5, RPS3A, RPL37, UBA52, 5S rRNA, RPL37A, RPS15, RPL21, RPL30, 5.8S rRNA, RPL35, RPS26, RPL13, RPL27A, RPL22, RPL22, RPL32, RPL16, RPS21, RPL3, RPL31, RPL38, RPL29, RPL11, 18S rRNA, RPS16, RPS28, 28S rRNA, RPL9, RPL19, RPL7, RPL17, FAU, RPL14, RPL28, RPL18A, RPLP1, RPL12, RPS27, RPS27, RPS20, RPS25, RPL5, RPL31, RPS3, RPL26, RPL10, RPL10, RPLP0, RPS24, RPS4X, RPS4Y1, RPS4Y2, RPS15A, RPL39, RPL35, RPL41, RPL27, RPL34, RPL7A, RPL6, RPS17, RPS13, and RPL13A. The 5S rRNA, 5.8S rRNA, and 28S rRNA are highlighted in green.

Central Assembly Node: This node is the central point where the 40S and 60S ribosomal complexes assemble to form the 80S ribosome. It is represented by a small square with arrows pointing to the 40S and 60S clusters.