Definitions:

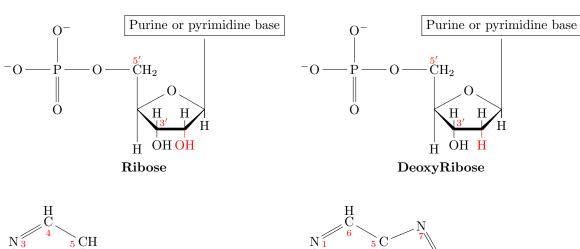
Ribonucleic Acid RNA \mathbf{DNA} Deoxyribonucleic Acid rRNARibosomal RNA \mathbf{tRNA} Transfer RNA Messenger RNA mRNA

gene A segment of a DNA molecule that contains a sequence of a functional biological

product, whether protein or RNA.

pyrimidine Cytosine, Thymine (DNA) and Uracil (RNA)

Adenine and Guanine purine



Pyrimidine

$$\begin{array}{c} O \\ \parallel \\ C \\ -6 \\ \end{array}$$

$$\begin{array}{c} C \\ -6 \\ \end{array}$$

$$\begin{array}{c} C \\ -7 \\ \end{array}$$

$$\begin{array}{c} N \\ -7 \\ \end{array}$$

$$\begin{array}{c} R \\ 8 \\ CH \\ \end{array}$$

$$\begin{array}{c} R \\ 1 \\ \end{array}$$

$$\begin{array}{c} R \\ -1 \\ \end{array}$$

Cytosine

$$\begin{array}{c} O \\ \parallel \\ C \\ \downarrow \\ C^2 \\ O \end{array} \begin{array}{c} CH_3 \\ \parallel \\ CC^2 \\ \downarrow \\ N \end{array}$$

Thymine (DNA)

Uracil (RNA)