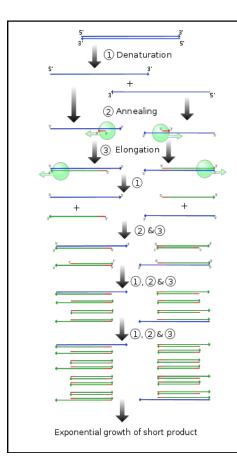


| Nitrogenous base   | e Nucleoside   | Deoxynucleoside   |
|--|--|---|
| H <sub>2</sub> N<br>N<br>N<br>Adenine  | HO<br>HO<br>HOH<br>Adenosine<br>A                            | Ho<br>OH<br>Deoxyadenosine<br>dA  |
| Guanine  | HO VI NH<br>HO VI NH2<br>HO VI NH2<br>HO VI NH2<br>HO VI NH2 | HO CH NH<br>HO CH NH2<br>Deoxyguanosine<br>dG                                   |
| o<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓ | о<br>но<br>онон<br>5'-Methyluridine<br>m <sup>5</sup> U      | HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>HO<br>H |
|  | Uridine<br>U   | HO VIENT  |
| Cytosine   | HO<br>OHOH<br>Cytidine<br>C                                  | HO<br>O<br>O<br>Deoxycytidine<br>dC   |



Schematic drawing of the PCR cycle. (1) Denaturing at 94–96 °C. (2) Annealing at ~65 °C (3) Elongation at 72 °C. Four cycles are shown here. The blue lines represent the DNA template to which primers (red arrows) anneal that are extended by the DNA polymerase (light green circles), to give shorter DNA products (green lines), which themselves are used as templates as PCR progresses.

