

Designing primers for PCR

[PCR tutorial](#)

<http://www.sumanasinc.com/webcontent/animations/content/pcr.html>

1. What is a PCR reaction? What can we do with the product?
2. What are the basic rules for creation of primers?
3. Find genomic sequence for a certain gene (<http://www.ncbi.nlm.nih.gov/gene?term>). What does an NG accession number in GeneBank database stand for?
4. Use Primer Blast (<https://www.ncbi.nlm.nih.gov/tools/primer-blast/>) software for primer creation. Paste the sequence in FASTA form. (what is a FASTA form?)
5. Explain parameters: primer size, T_m, %GC, ...
6. What are hairpins and primer dimere?
7. What is a difference between PCR and RT- PCR. Is there a difference in template for the reaction? Is there a difference in final product usage?