













Step	Temp	Time	Notes	
Initial Denaturation	94-96°C	2-5 min		
30-35 cycles:				
Denaturation	94-96°C	0.5-2 min	Longer: ↑ denaturation, but ↓ enzyme & template	
Annealing	45-65°C	0.5-2 min	Higher/shorter: ↑ specificity, but ↓ yield	
Extension	72°C	~1 min/kb	Taq processivity = 150 nt/sec	
Final extension	72°C	5 min		









Types of PCR: RT-PCR

Applications

- Study of gene expression
- Quantitation of mRNA and viral RNA levels
- Detection of specific gene expression/ mRNA
- Detection of RNA viruses















ARMS results: 2 rxns per sample				
Sample # 1: Wt Homozygote	Wt Rxn	Mut Rxn		
Sample # 2: Wt+Mut Heterozygote				
Sample # 3: Mut Homozygote				
Wt mut				



