

DNA Replication (HIL)

SUMMARY OF FUNCTIONS		
Enzyme/ Protein		Function
Helicase		Unwinds the DNA double helix at the replication forks.
DNA Primase		Synthesize RNA primer.
RNA Primer		A short RNA sequence which marks the beginning of the replication process. They are later replaced with DNA nucleotides by DNA polymerase I.
DNA Polymerase I		Removes RNA primer at the end of replication and replaces it with DNA nucleotides.
DNA Polymerase III		Synthesize the new strand by catalyzing the addition of nucleotides in the 5' to 3' direction. Also removes mismatched nucleotides.
DNA Ligase	S	Joins the ends of DNA segments and Okazaki fragments.
Single-stranded binding protein		Keeps bases from reforming hydrogen bonds between them after helicase action.

01.1

Teach Me





tchme.org