

E. coli has 3 DNA polymerases

- DNA polymerase I (pol I)
 - Remove primers and replace them with DNA
- DNA polymerase II (pol II)
 - Involved in DNA repair processes
- DNA polymerase III (pol III)
 - Main replication enzyme
- All 3 have 3'-to-5' exonuclease activity – proofreading
- DNA pol I has 5'-to-3' exonuclease activity – removing RNA primers