



















## DNA polymerases are specialized for different roles in the cell

Eukaryotic	Number of Subunits	Function
Polα	4	Primer synthesis during DNA replication
Pol β	1	Base excision repair
Pol γ	3	Mitochondrial DNA replication and repair
Pol δ	2–3	Lagging-strand DNA synthesis; nucleotide and base excision repair
Pol e	4	Leading-strand DNA synthesis; nucleotide and base excision repair
Pol 0	acture of a sliding 11NA clampt	DNA repair of cross-links
Polζ	modated with Diving the open	TLS
Pol λ	A	Meiosis-associated DNA repair
Pol µ	1	Somatic hypermutation
Pol ĸ	1	TLS
Pol ŋ	1	Relatively accurate TLS past cis-syn cyclobutane dimers
Pol 1	1	TLS, somatic hypermutation
Rev1	1	TLS

