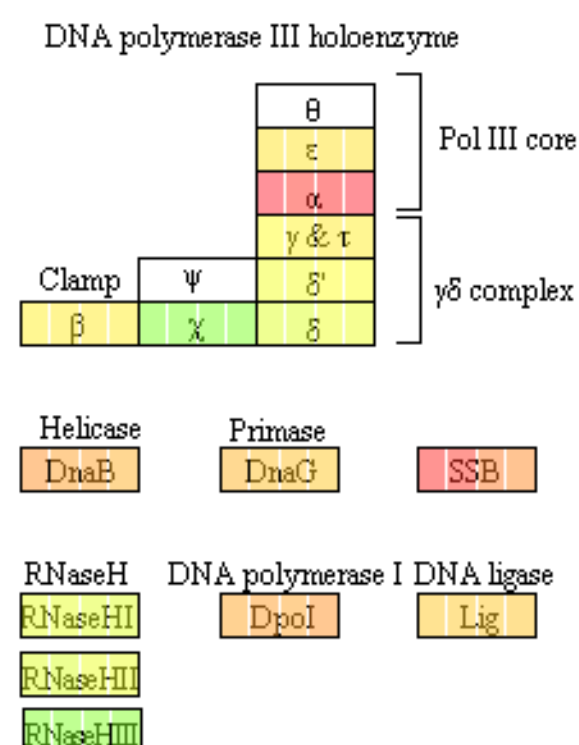
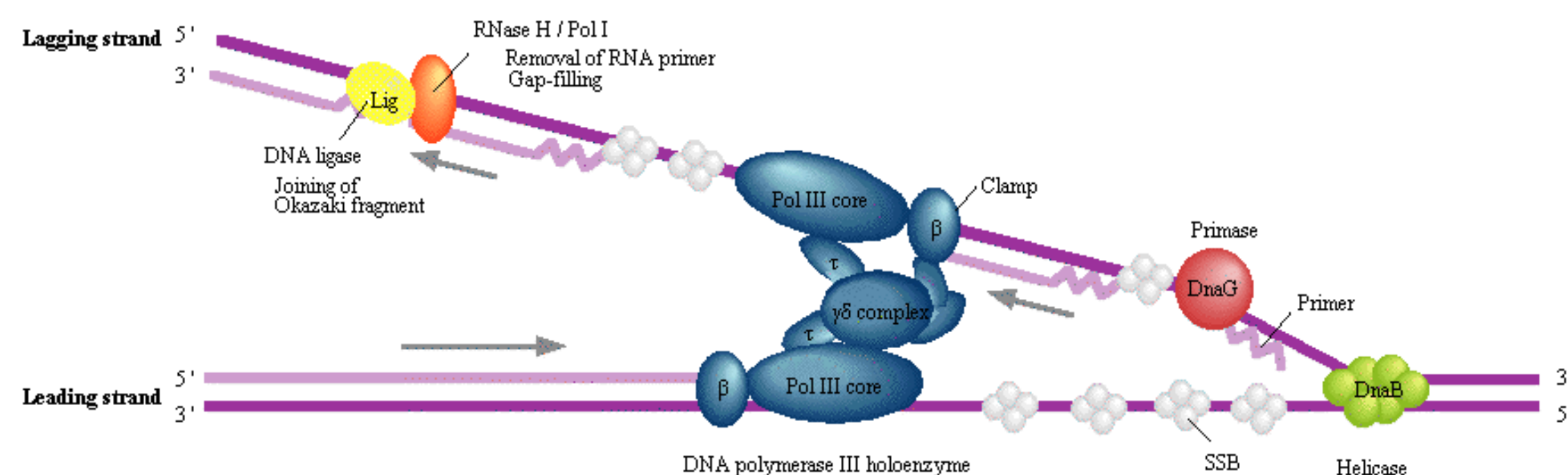


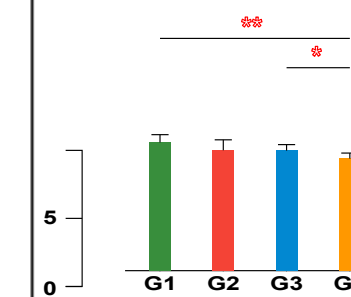
DNA REPLICATION

Replication complex (Bacteria)

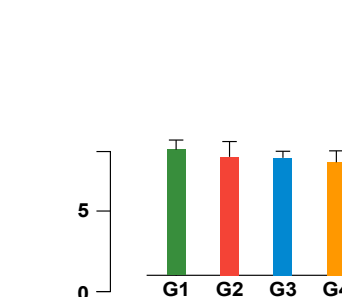


G1: BT G2: ACon G3: A16Con G4: A30Con

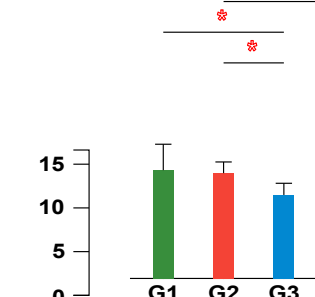
Helicase DnaB
K02314



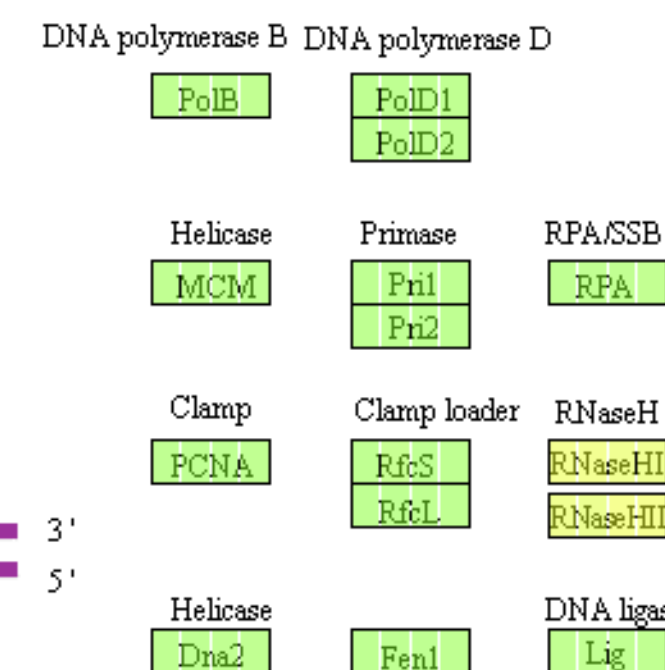
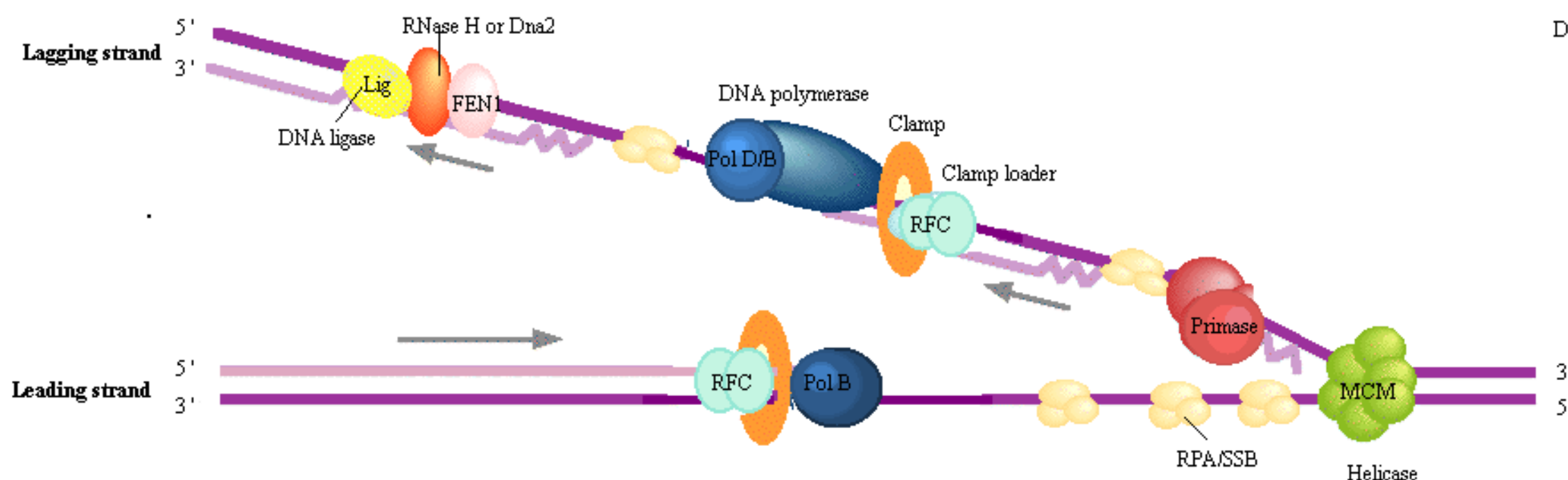
Primase DnaG
K02316



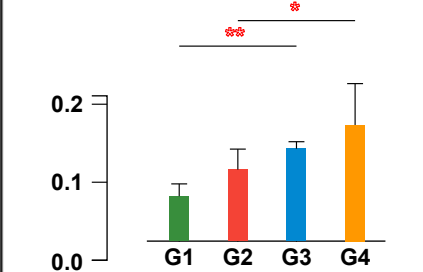
SSB
K03111



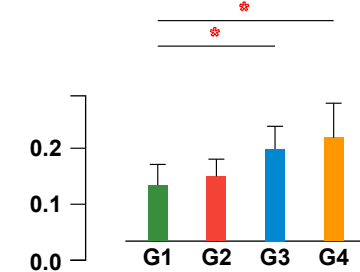
Replication complex (Archaea)



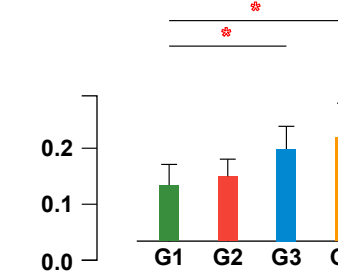
DNA polymerase D1
K02323



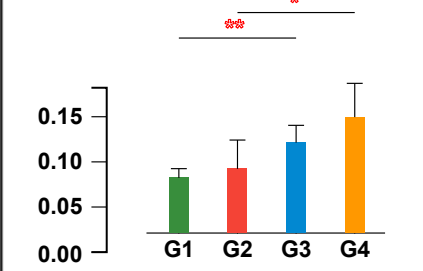
DNA polymerase D2
K02322



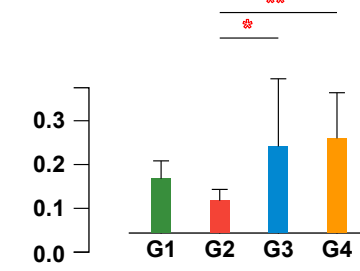
Primase priL
K18882



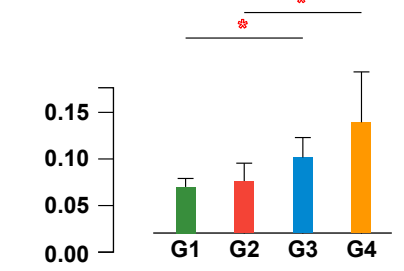
Clamp loader RfcL
K04800



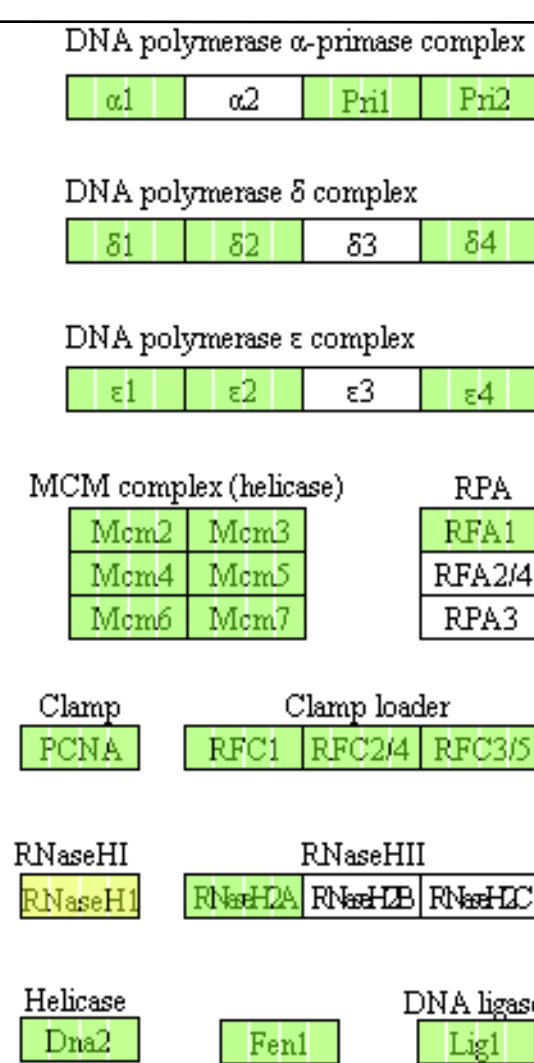
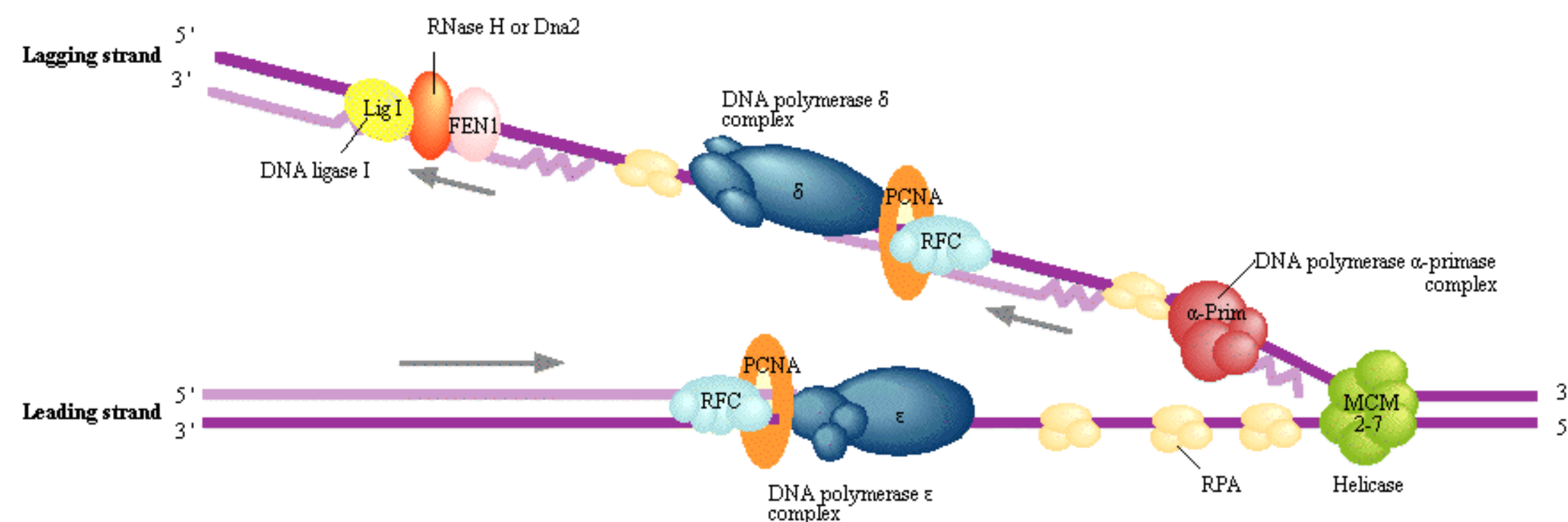
RNase H or Dna2
K10742



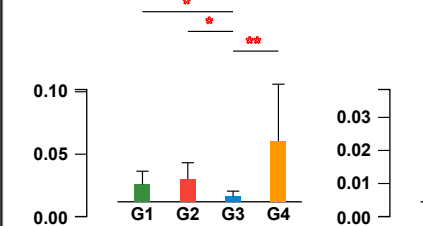
Flap endonuclease-1
K04799



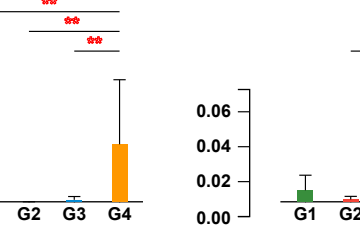
Replication complex (Eukaryotes)



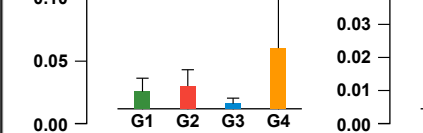
DNA polymerase δ complex
δ1 K02327



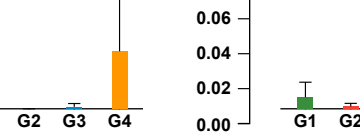
DNA polymerase ε complex
ε1 K02324



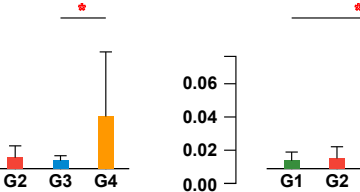
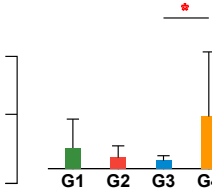
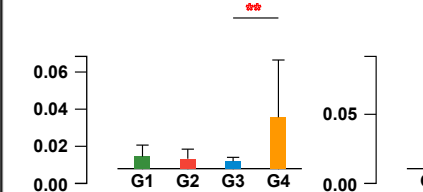
δ2 K02328



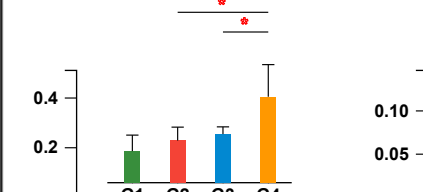
ε2 K03506



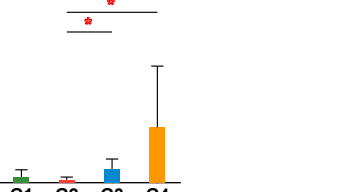
Minichromosome maintenance protein (MCM) complex (helicase)
Mcm2 K02540 Mcm4 K02212 Mcm7 K02210



Replication protein A
PRA1 K07466



Clamp loader RFC1
K10754



DNA polymerase α-primase complex
K02684

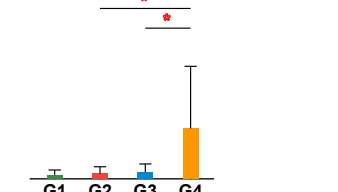


Fig. S10 Metabolic pathway difference-in-difference analysis on the DNA replication based on metagenomics data