

EXAM EXPECTATIONS
AP Biology
“Unit 10 DNA & Molecular Genetics”

STATE why or how microarrays have had such an impact in genomic studies
STATE how bacteria protect themselves from their own restriction enzymes
STATE the role of restriction enzymes in bacteria, in biotechnology
STATE why plasmids are important in the field of biotechnology
STATE the approximate proportion of DNA in a human genome that codes for proteins or functional RNA
STATE that prokaryotic transcription and translation are coupled
STATE that prokaryotes do not have telomeres
STATE the base pair rules
DEFINE karyotypes
DEFINE provirus
DEFINE pseudogenes
LIST parts of the eukaryotic transcription complex
LIST processes that contribute to epigenetic inheritance
LIST parts of typical eukaryotic gene
LIST 2 mechanisms that generate genetic recombinants