

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# different types of mutations

I W U X D M L L E B H L K O X P T M D W R A B L  
L Q U I Q N U N K S M Z K F J C T N I O P J X K  
U N X W U L R M T F N L C W W J X R F D V D D D  
C I H M V K Y S R Q G E P V U L R J O A H R R D  
O E Y D T U U C Q F X O S S S U U Z K K D J U U  
E B K W M Z T O Z I K S V N P V S S L N E B V N  
V O I K T I N L S Q U R E N O L P F P S K J L Y  
Q D T C W L S I Q B V R Y T S N I O T N D I Q M  
A S K T X B L S S D U O Q Y E T J C S W A Q L X  
F U X N I E A T E B O E C J J J Z D E I D Y H X  
K P B W N G I H A N H Z C J K P W V V S T L C T  
F X A T K T R U V B S E D N Q B A S N O I I Q M  
S X D T U K L U N R L E Z J R C A O S C L T V G  
I N D T U N O I T R E S N I N L I P E J A K E E  
O Z I M D C T X Y F O P B B C T A G V H N J K T  
N O T C E V W F F O T X R R A Z W I T X V A Z D  
N Z I L L X K C I Z E C L C L N N F T H Z R L T  
F V O D E U M I U H F I O D Z M E H K V Z P F T  
Q C N X T W Y Z P R S L A K M Z V G M S N E T S  
Z Q G C I R Z D F S S E A X W R P D A D Y G B V  
E M K S O X P G O N C B M A E T M X T T D K O O  
P O L R N I X U A O H A N A P Z X P Q S I P E Z  
U O O K I D I R M N L Z Q E R H Q Z W W N V R V  
L B L K V W T R U K J E N T T F H J H L V Y E E

translocation  
frame shift  
missense  
negative  
point

substitution  
insertion  
deletion  
positive

splice site  
nonsense  
addition  
silent