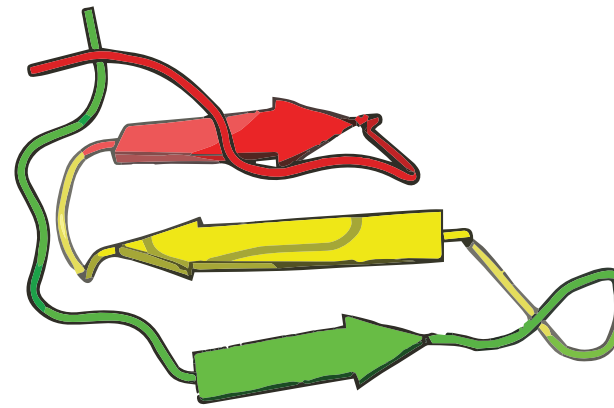


# Genotype

**ATG|GGA| ... |TCG**  
DNA sequence

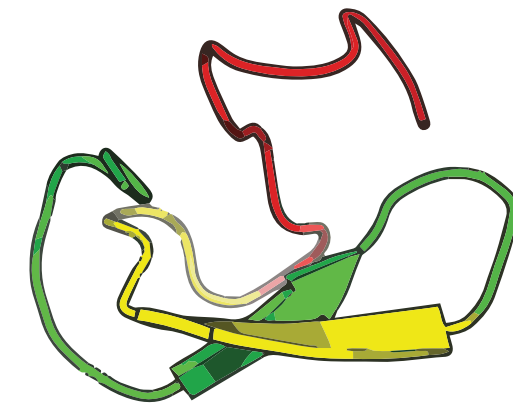
$\$$

# Phenotype



$G_F (\$)$

Free energy of  
folded state



$G_U (\$)$

Free energy of  
unfolded state

$$\Delta G = G_F (\$) - G_U (\$)$$

# Fitness

Fitness of the organism  
proportional to the  
number of folded  
proteins in the cell

$$W (\Delta G) = \frac{1}{1 + e^{\beta \Delta G}}$$