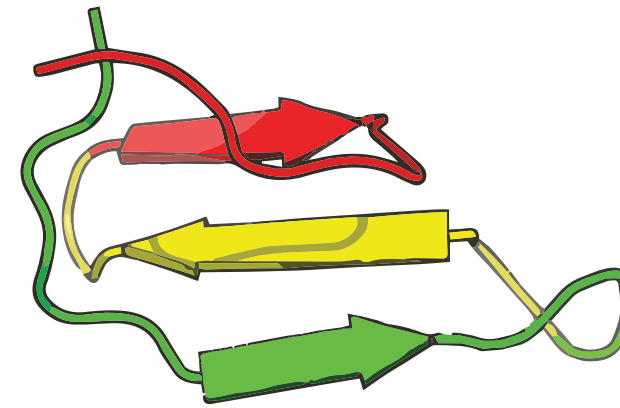


Genotype

ATG|GGA| ... |TCG
DNA sequence

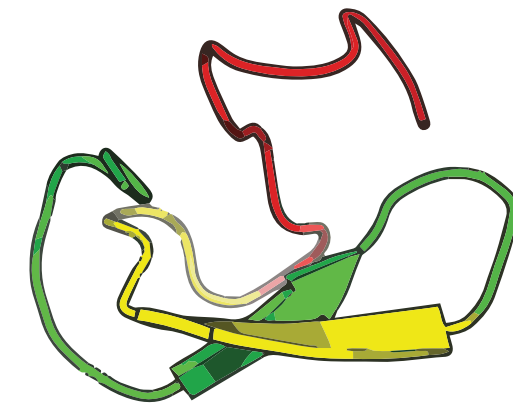
\mathcal{S}

Phenotype



$G_F(\mathcal{S}^t)$

Free energy of
folded state



$G_U(\mathcal{S}^t)$

Free energy of
unfolded state

$$\Delta G = G_F(\mathcal{S}) - G_U(\mathcal{S})$$

Fitness

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

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