

ACT ATY ATC
TGA TAA TAG

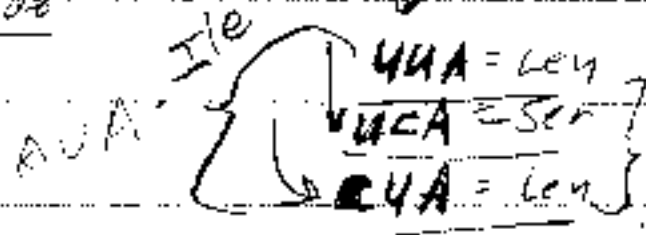
TGA
TAG
TAA

11/22/93

Antisense Reading Frames

ORF = region spanned by stop codons

% = $\frac{\text{size of antisense ORF} \times 100}{\text{gene size}}$



Rho
AZO
Strept
Halob
Alcal
Thermus
Serratia

Streptococcus
v.v low

many at 100%

① randomize aa sequence: no effect

② randomize codon usage - lose 100%

* STOP CODONS

-2 = G, C 7 = TA

* RNY = higher in coding regions. Shephard
= suggest it "forces" triplet phasing