

AA Coded by 2 or more diff. poly.

| AA | sRNA | mRNA Poly | change | Diagram | sRNA |
|---------------------|------------|------------------------|-----------------------|---------|--|
| Arg | U | AB CG | A ↓ C | | <div style="border: 1px solid black; padding: 2px;">ECU</div> UGA GUA |
| Leu | | UG UC UA (un) | G ↓ C ↓ A | | <div style="border: 1px solid black; padding: 2px;">AUG</div> <div style="border: 1px solid black; padding: 2px;">AUC</div> |
| Glu-NH ₂ | C | AG AC | G ↓ C | | AAC UUG UAC UAG UAG |
| Asp-NH ₂ | ANG | UA CA | U ↓ C | | AUU |
| Gly | | UG CG (?) AG (?) | U ↓ C ↓ A | | GUG |
| Proline | UAC UAC | C UC AC GC ? | C ↓ U ↓ A | | ACA |
| Ø | | U UC (?) | U ↓ C | | ACA |
| Threonine | U-A | AC GC (?) | A ↓ G | | UGC <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">UAG</div> |
| Isoleu | | UA | | | CAU CAU CAU CAU |

Read by change

U-G rare
 U-C often
 C-U often
 A-C rare
 C-A rare

| Arg | CCU | CUU | AAU | ACC | A |
|----------------|-----|-----|-----|-----|---|
| AAG | GGA | GAA | UUG | UGG | |
| AGG | UGA | UAA | UUU | UUG | |
| CCG | GUA | GCU | | UGU | |
| ACG | GGC | GAC | | | |

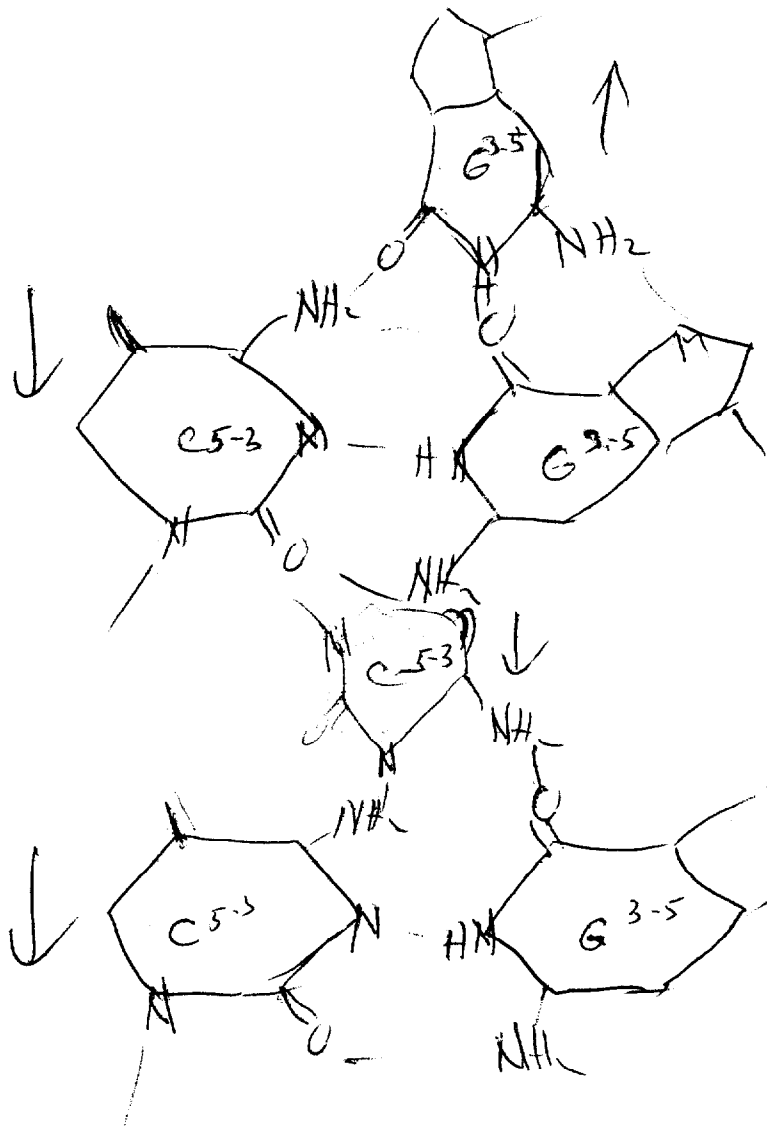
ii

Single Codons

| | AAU | AAA |
|----------|------------------------|------|
| Tyrosine | UUA | UAU |
| Valine | GUU GUU AAC | UAG? |
| Hist | CUA CUA | SUA? |
| Met | UAG? | |
| Asp | UAG? | |
| Glu | AAG? | |
| Trypt | ACG UGG | |

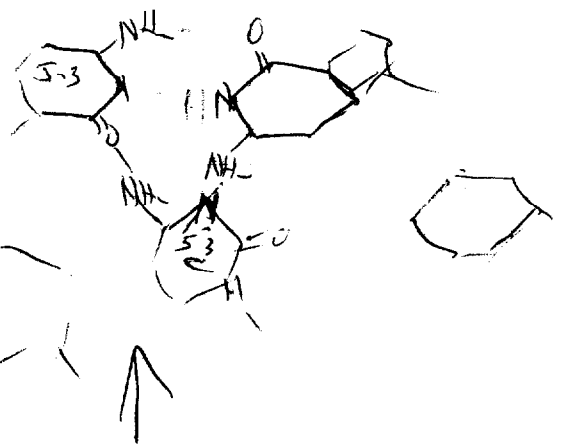
Double Codons

| | CCA | CAU | Change |
|---------------------|-----|------|------------|
| Threonine | CCA | CAU | CCA UUU |
| Asp-NH ₂ | AAC | AAU | C-A |
| Leu | UUC | UCC | C-U |
| Leu | CUU | CUU | C-U |
| Cyt? | | | UUU |
| Leu | AAU | AAA | A-U |
| Pro | CCC | CCC | UUU |
| | | CAC | C-U |
| | | CAC | UUU |
| | | CGC? | C-G |
| Arg | AAG | CCG | UUU |
| | | ACG | C-A |
| Asu-NH ₂ | AAC | AAG? | C-G |

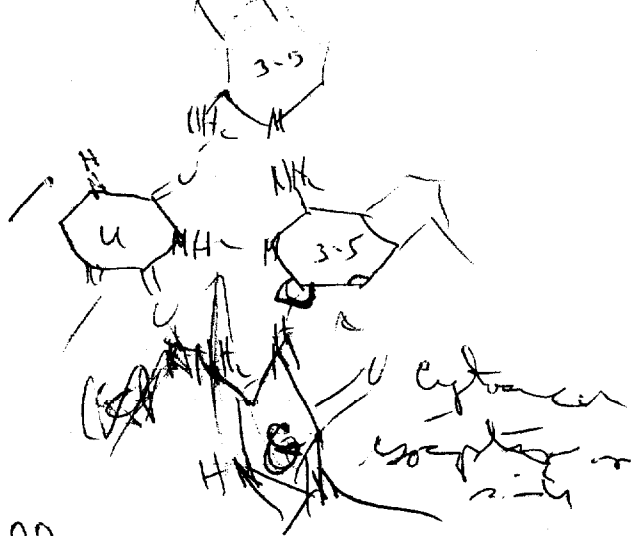


Read up/down the DNA groove with RNA polymerase. Strands of DNA do not have to separate.

would expect to get triple-stranded instead



If you could see double || RNA on ribbons, could read double strand 2 ways



Cytosine Guanine

Bill reading is parallel

