

## DNA vs. RNA Base Pair Matches

| DNA Base Pair Matches    | RNA Base Pair Matches    |
|--------------------------|--------------------------|
| Adenine – Thymine (A-T)  | Adenine – Uracil (A-U)   |
| Cytosine – Guanine (C-G) | Cytosine – Guanine (C-G) |

### Protein Synthesis: Matching tRNA to mRNA codons

|                     |   | Second base of codon |     |     |     |   |   |
|---------------------|---|----------------------|-----|-----|-----|---|---|
|                     |   | U                    | C   | A   | G   |   |   |
| First base of codon | U | UUU                  | UCU | UAU | UGU | U |   |
|                     |   | UUC                  | UCC | UAC | UGC |   | C |
|                     |   | UUA                  | UCA | UAA | UGA |   | A |
|                     |   | UUG                  | UCG | UAG | UGG |   | G |
|                     | C | CUU                  | CCU | CAU | CGU | U |   |
|                     |   | CUC                  | CCC | CAC | CGC | C |   |
|                     |   | CUA                  | CCA | CAA | CGA | A |   |
|                     |   | CUG                  | CCG | CAG | CGG | G |   |
|                     | A | AUU                  | ACU | AAU | AGU | U |   |
|                     |   | AUC                  | ACC | AAC | AGC | C |   |
|                     |   | AUA                  | ACA | AAA | AGA | A |   |
|                     |   | AUG                  | ACG | AAG | AGG | G |   |
|                     | G | GUU                  | GCU | GAU | GGU | U |   |
|                     |   | GUC                  | GCC | GAC | GGC | C |   |
|                     |   | GUA                  | GCA | GAA | GGA | A |   |
|                     |   | GUG                  | GCG | GAG | GGG | G |   |

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