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| D | Y | A | M | I | N | O | A | C | I | D | U |
| I | M | C | N | O | I | E | L | A | R | A | M |
| N | S | K | Y | C | G | E | N | E | Q | N | E |
| G | T | R | H | T | O | X | S | T | O | P | N |
| F | A | I | U | T | O | D | V | E | J | Y | I |
| R | R | K | I | C | N | S | O | R | B | V | N |
| A | T | D | Y | A | D | E | I | N | A | C | E |
| M | E | M | O | N | E | G | L | N | F | I | D |
| E | S | R | G | U | A | N | I | N | E | L | A |

Words can be in any direction:

1. **Nucleotide:** Term for the four building blocks of DNA
2. **Thymine:** (T) Chemical name for one of the four building blocks of DNA
3. **Adenine:** (A) Chemical name for one of the four building blocks of DNA
4. **Guanine:** (G) Chemical name for one of the four building blocks of DNA
5. **Cytosine:** (C) Chemical name for one of the four building blocks of DNA
6. **DNA:** The instruction manual that tells the cells in your body what to do
7. **Codon:** A group of 3 nucleotides that encodes an amino acid or stop codon
8. **Start:** A string of three nucleotides that signals the start of a protein
9. **Stop:** A string of three nucleotides that signals the end of a protein
10. **Internal:** In Genome Detectives we look for internal stop codons, which means protein manufacture will finish early and the protein will not be functional.
11. **Amino acid:** The building blocks of proteins
12. **Gene:** Section of DNA coding for a protein
13. **Reading frame:** One of three possible ways of dividing a sequence of nucleotides (A, T, G, C) into triplets
14. **Genome:** Complete set of genes or genetic material in an organism
15. **PubMLST:** A large database containing a dictionary of genes, linked to information about the bacteria the genes are found in.