# Codon table architecture

# Computing synonymous and non-synonymous sites for GAA (Glutamic Acid)

|  | 1 | 2 | 3 |
|---|---|---|---|
| **Start codon:** | **G** | **A** | **A** |
| **A** | AAA<br>Lysine | * | * |
| **C** | CAA<br>Glutamine | GCA<br>Alanine | GAC<br>Aspartic Acid |
| **G** | * | GGA<br>Glycine | GAG<br>Glutamic Acid |
| **T** | TAA<br>Stop | GTA<br>Valine | GAT<br>Aspartic Acid |
| Synonymous changes | 0 | 0 | 1 |
| Non-synonymous changes | 3 | 3 | 2 |
| **Synonymous sites** | **0** | **0** | **1/3** |
| **Non-synonymous sites** | **1** | **1** | **2/3** |