|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Amino Acid  | Codon  | Num | Total | Freguency | Amino Acid  | Codon  | No. | Total | Freguency |
| Asp | GAT | 400 | 613 | 2.31% | Lys | AAA | 993 | 1,666 | 6.27% |
|  | GAC | 213 |  | AAG | 673 |
| Leu | TTA | 637 | 3,496 | 13.16% | Glu | GAA | 645 | 1,029 | 3.87% |
|  | TTG | 796 |  | GAG | 384 |
|  | CTT | 615 | Thr | ACT | 200 | 951 | 3.58% |
|  | CTC | 433 |  | ACC | 207 |
|  | CTA | 563 |  | ACA | 340 |
|  | CTG | 452 |  | ACG | 204 |
| Ile | ATT | 839 | 2,341 | 8.81% | Ala | GCT | 138 | 606 | 2.28% |
|  | ATC | 690 |  | GCC | 149 |
|  | ATA | 812 |  | GCA | 194 |
| Met | ATG | 731 | 731 | 2.75% |  | GCG | 125 |
| Asn | AAT | 670 | 1,093 | 4.11% | Tyr | TAT | 676 | 1,061 | 3.99% |
|  | AAC | 423 |  | TAC | 385 |
| Val | GTT | 455 | 1,525 | 5.74% | His | CAT | 310 | 556 | 2.09% |
|  | GTC | 281 |  | CAC | 246 |
|  | GTA | 446 | Cys | TGT | 266 | 484 | 1.82% |
|  | GTG | 343 |  | TGC | 218 |
| Phe | TTT | 904 | 1,704 | 6.41% | Trp | TGG | 496 | 496 | 1.87% |
|  | TTC | 800 | Arg | CGT | 101 | 1,423 | 5.36% |
| Ser | TCT | 428 | 1,758 | 6.62% |  | CGC | 94 |
|  | TCC | 284 |  | CGA | 231 |
|  | TCA | 428 |  | CGG | 238 |
|  | TCG | 310 |  | AGA | 461 |
|  | AGT | 189 |  | AGG | 298 |
|  | AGC | 119 | Gly | GGT | 253 | 1,169 | 4.40% |
| Pro | CCT | 231 | 1,030 | 3.88% |  | GGC | 184 |
|  | CCC | 208 |  | GGA | 365 |
|  | CCA | 311 |  | GGG | 367 |
|  | CCG | 280 | Stop | TAA | 604 | 1,862 | 7.01% |
| Gln | CAA | 567 | 975 | 3.67% |  | TAG | 676 |
|  | CAG | 408 |  | TGA | 582 |