Codon table architecture

Second letter

		U	С	Α	G	
	U	UUUC } Phe UUC } Leu UUG }	UCU) UCC UCA UCG)	UAU Tyr UAC Stop UAG Stop	UGU Cys UGC Stop UGA Trp	UCAG
	С	CUU } CUC } CUA CUG }	CCU Pro	CAU } His CAC } GIn CAG }	CGU CGC Arg	UCAG
	Α	AUU } Ile AUA } Met	ACU ACC Thr	AAU } Asn AAC } Lys AAG } Lys	AGU }Ser AGC }Arg AGA }Arg	U C A G
0 o o o	G	GUU GUC GUA GUA GUG	GCU GCC GCA GCG	GAU } Asp GAC } Glu GAG } Glu	GGU GGC GGA GGG	U C A G

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

	1	2	3
Start codon:	G	A	A
A	AAA Lysine	*	*
C	CAA Glutamine	GCA Alanine	GAC Aspartic Acid
G	*	GGA Glycine	GAG Glutamic Acid
T	TAA Stop	GTA Valine	GAT 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