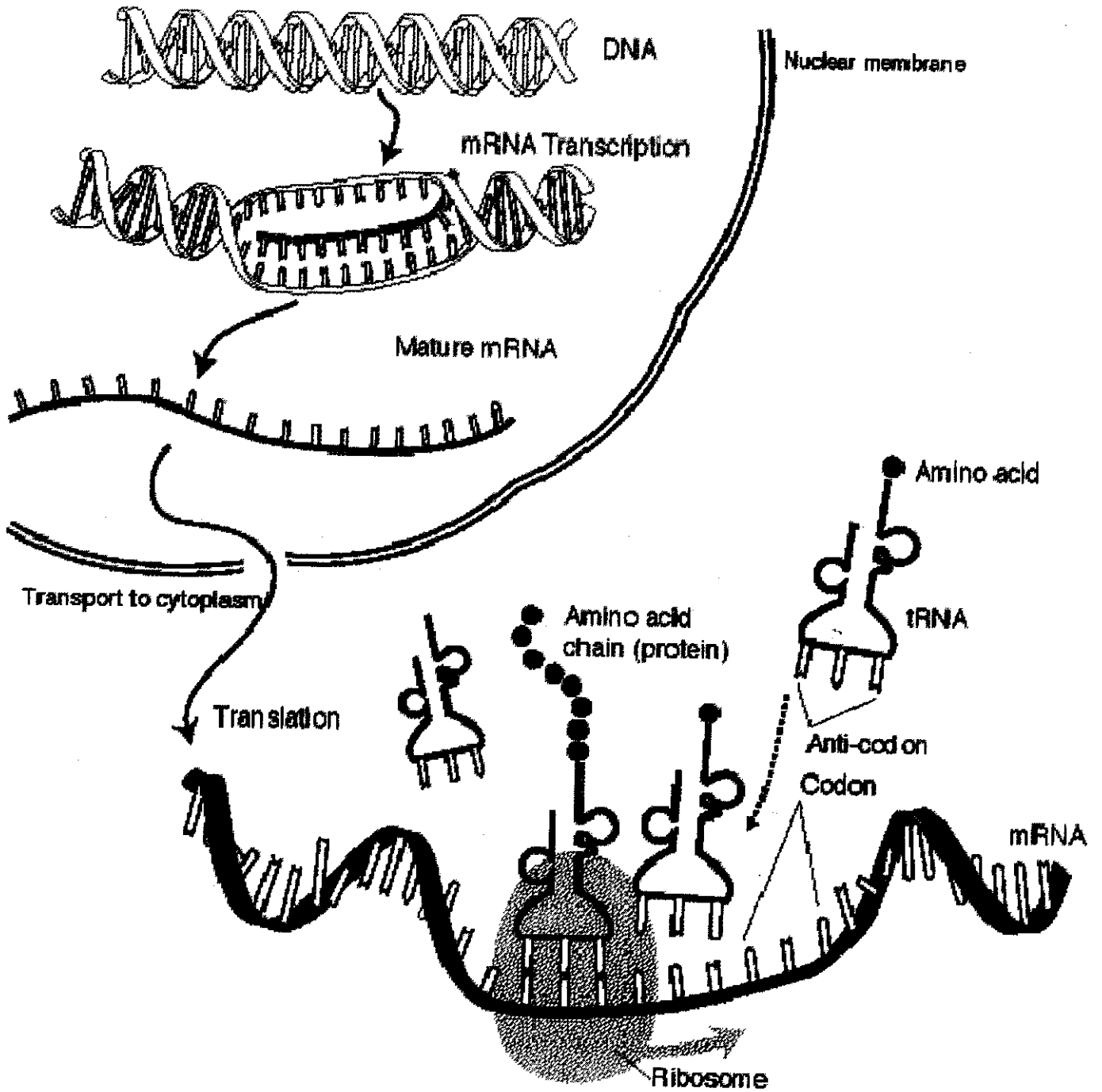


Protein Synthesis



ACGATACCCTGACCGAGCCGTTAGCT
 ACCUAUGGGACUG

First position

Second position

U C A G

UUU	Phe	UCU	Ser	UAU	Tyr	UGU	Cys																																																																																																																
UUC	Phe	UCC	Ser	UAC	Tyr	UGC	Cys	UUA	Leu	UCA	Ser	UAA	Stop	UGA	Stop	UUG	Leu	UCG	Ser	UAG	Stop	UGG	Trp	CUU	Leu	CCU	Pro	GAU	His	CGU	Arg	CUC	Leu	CCC	Pro	CAC	His	CGC	Arg	CUA	Leu	CCA	Pro	GAA	Gln	CGA	Arg	CUG	Leu	CCG	Pro	CAG	Gln	CGG	Arg	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly
UUA	Leu	UCA	Ser	UAA	Stop	UGA	Stop	UUG	Leu	UCG	Ser	UAG	Stop	UGG	Trp	CUU	Leu	CCU	Pro	GAU	His	CGU	Arg	CUC	Leu	CCC	Pro	CAC	His	CGC	Arg	CUA	Leu	CCA	Pro	GAA	Gln	CGA	Arg	CUG	Leu	CCG	Pro	CAG	Gln	CGG	Arg	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly								
UUG	Leu	UCG	Ser	UAG	Stop	UGG	Trp	CUU	Leu	CCU	Pro	GAU	His	CGU	Arg	CUC	Leu	CCC	Pro	CAC	His	CGC	Arg	CUA	Leu	CCA	Pro	GAA	Gln	CGA	Arg	CUG	Leu	CCG	Pro	CAG	Gln	CGG	Arg	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																
CUU	Leu	CCU	Pro	GAU	His	CGU	Arg	CUC	Leu	CCC	Pro	CAC	His	CGC	Arg	CUA	Leu	CCA	Pro	GAA	Gln	CGA	Arg	CUG	Leu	CCG	Pro	CAG	Gln	CGG	Arg	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																								
CUC	Leu	CCC	Pro	CAC	His	CGC	Arg	CUA	Leu	CCA	Pro	GAA	Gln	CGA	Arg	CUG	Leu	CCG	Pro	CAG	Gln	CGG	Arg	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																
CUA	Leu	CCA	Pro	GAA	Gln	CGA	Arg	CUG	Leu	CCG	Pro	CAG	Gln	CGG	Arg	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																								
CUG	Leu	CCG	Pro	CAG	Gln	CGG	Arg	AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																
AUU	Ile	ACU	Thr	AAU	Asn	AGU	Ser	AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																								
AUC	Ile	ACC	Thr	AAC	Asn	AGC	Ser	AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																																
AUA	Ile	ACA	Thr	AAA	Lys	AGA	Arg	AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																																								
AUG	Met	ACG	Thr	AAG	Lys	AGG	Arg	GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																																																
GUU	Val	GCU	Ala	GAU	Asp	GGU	Gly	GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																																																								
GUC	Val	GCC	Ala	GAC	Asp	GGC	Gly	GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																																																																
GUA	Val	GCA	Ala	GAA	Glu	GGA	Gly	GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																																																																								
GUG	Val	GCG	Ala	GAG	Glu	GGG	Gly																																																																																																																

U C A G U C A G U C A G U C A G

U	Valine	Alanine	Alanine	Valine	U	Valine	Alanine	Alanine	Valine
C	Proline	Leucine	Leucine	Leucine	C	Proline	Leucine	Leucine	Leucine
A	Asparagine	Asparagine	Threonine	Threonine	A	Asparagine	Asparagine	Threonine	Threonine
G	Cysteine	Cysteine	Stop	Stop	G	Cysteine	Cysteine	Stop	Stop
U	Valine	Alanine	Alanine	Valine	U	Valine	Alanine	Alanine	Valine
C	Proline	Leucine	Leucine	Leucine	C	Proline	Leucine	Leucine	Leucine
A	Asparagine	Asparagine	Threonine	Threonine	A	Asparagine	Asparagine	Threonine	Threonine
G	Cysteine	Cysteine	Stop	Stop	G	Cysteine	Cysteine	Stop	Stop