

HEMAGLOBIN

	Amino Acid	Symbol	mRNA	DNA	tRNA
0	Methionine	met	AUG	TAC	UAC
1	Valine	val	GUU	CAA	CAA
2	Histidine	his	CAU	GTA	GUA
3	Leucine	leu	CUU	GAA	GAA
4	Threonine	thr	ACU	TGA	UGA
5	Proline	pro	CCU	GGA	GGA
6	Glutamine	glu	GAA	CTT	CUU
7	Glutamine	glu	GAG	CTC	CUC
8	Lysine	lys	AAA	TTT	UUU
9	Serine	ser	AGU	TCA	UCA
10	Alanine	ala	GCU	CGA	CGA
11	Valine	val	GUC	CAG	CAG
12	Threonine	thr	ACC	TGG	UGG
13	Alanine	ala	GCC	CGG	CGG
14	Leucine	leu	CUC	GAG	GAG
15	Tryptophan	try	UAU	ATA	AUA
16	Glycine	gly	GGU	CCA	CCA
17	Lysine	lys	AAG	TTC	UUC
18	Valine	val	GUA	CAT	CAU
19	Asparagine	asp	GAU	CTA	CUA
20	Valine	val	GUG	CAC	CAC
21	Asparagine	asp	GAC	CTG	CUG
22	Glutamine	glu	GAA	CTT	CUU
23	Valine	val	GUU	CAA	CAA
24	Glycine	gly	GGC	CCG	CCG
25	Glycine	gly	GGA	CCT	CCU
26	Glutamine	glu	GAU	CTA	CUA
27	Alanine	ala	GCA	CGT	CGU
28	Leucine	leu	UUA	AAT	AAU
29	Glycine	gly	GGU	CCA	CCA
30	Arginine	arg	CGU	GCA	GCA
31	Leucine	leu	UUG	AAC	AAC
0	STOP	STOP	UAG	ATC	AUC

This is the amino acid sequence for Hemaglobin. mRNA reverse transcribed into DNA and then tRNA give

Valine	5
Histidine	1
Leucine	4
Threonine	2
Proline	1
Glutamine	4
Lysine	2
Serine	1
Alanine	3
Tryptophan	1
Glycine	4
Asparagine	2
Arginine	1
Total	31

Steve Tester 2005

