

Confirmed tRNA Sequences for C koseri

C koseri tRNAs

Modomics Annotation	Kurland Annotation	Sequence
Ala (GGC)	Ala2	G G G G C U A N A G C U C A G C D G G G A D A G A G C G C U U G C A U G G C A U G C A A G A G A G 7 U C A G C G G G T P C G A A U C C G C G U U A G C U C C A C C A
Ala (UGC)	Ala18	G G G G C U A U A G C U C A G C D G G G A D A G A G C G C U U G C A U U V G C A C G C A G G A G 7 U C U G C G G G T P C G A A U C C G C G A U A G C U C C A C C A
Arg (AGG)	Arg2	G C A U C C G 4 A G C U C A G C D G G D A G A G A G C A G C U C G C U I C G / A P C C G A G G 7 X C G C G G T P C G A A U C C U C G C G A U G C A C C A
Asn (GUU)	Asn1	U C C U C U G 4 A G U U C A G D C G G D A A G A A C G C G C G G A C U U Q U U 6 A P C C G U A U 7 U C A C U G G T P C G A A U C C U C G A G U C A G A G G A C C C A
Gln (CUG)	Gln2	U G G G G U A 4 C G C C A A G C # G D A A G G C A C C C G G U J U C U G / P A C C C G G C A U U C C G A G G T P C G A A U C C U C G U A C C C A G C C A
Gln (UUG)	Gln1	U G G G G U A 4 C G C C A A G C # G D A A G G C A C C C G G U J U N U U G / P C C C G C A U U C C G U G G T P C G A A U C C A G G U A C C C C A G C C A
Glu (UUC)	Glu2	G U C C C C U C G U C P A G A G G C C C A G G A C A C C C C C C U S U C / C G G G C G G U A A C A G G G G T P C G A A U C C C C U A G G G G A C G C C A
Gly (CCG)	Gly1	G C G G C C G 4 A G U C A A U G G D D A G A A C G A G A G C U U C C C A A G C U C U A C G A G G G T P C G A U C C U U C G C C C C C C C A
Gly (GCC)	Gly3	G C G G G A U A G C U C A G D D G D D A G A G C A G C A C C U U G C C A A G G U D G 7 U C G C G A G T P C G A A U C C U C G U U C C C C C U C C A
Gly (UCC)	Gly2	G C G G G C A U C G U A U A U G G C U A U A A C C U C A G C U U N C C A A G C U G A U G A U G C G G G T P C G A A U C C C G C U G C C C G C U C C A
His (GUG)	His	G U G G G U A 4 A G C U C A G D D G D D A G A G C C C U A G G A U Q U G / P P C C A G U U 7 U C G U G G G T P C G A A U C C A U U A G C C C C C A
Ile (GAU)	Ile1	A G G C U U G U A G C U A G G D D G D D A G A G C G C A C C C C U G A A U 6 A G G G U G A G 7 X C G G U G G T P C A A A U C C A C P C A A G G C C U A C C A
Ile (GAU)	Ile2	A G G C U U G U A G C U C A G U U G D D A G A G C G C A C C C C U G A U 6 A G G G U G A G 7 X C G G U G G T P C A A A U C C A C P C A A G G C C U A C C A
Ile (CAU)	Ile2	G G C C C U 4 A G C U C A G U # G D D A G A G C A G C G A C U J A U 6 A P C C G C U U G 7 X C G C G G T P C A A G U C C A G C A G G C C A C C A
fMet (CAU)	fMet1	C G C G G G 4 G G A G C A G C C U G D D A G A C C U C G G G B U C A A U A A C C C G A A G 7 U C C U C G G T P C A A A U C C G G C C C C G C A A C C A
Leu (CAG)	Leu1	G C G A A G G U G G C G G A A D D # G D A G A C C C G C U A G C U U C A G : P G P U A G U G U C C C A U A C G G G A C G U G G G G T P C A A G U C C C C C C U C G C A C C A
Leu (GAG)	Leu2	G C C G A G G U G G U G G A A D D # G D A G A C C C G C U A C C U U G A G : P G P U A G U G U C C C A U A C G G G A C G U G G G G T P C A A G U C C C C C C U C G C U C C A
Leu (UAG)	Leu3	G C G G A G U G G C G A A D D # G D A G A C C C A C C A G A U U A G : P U C U G G C G C C A A G G U G C G G T P C A A G U C C C C C C U C C G C A C C A
Lys (UUU)	Lys1	G G G U C G U A G C U C A G D D G D D A G A G C A G U U G A C U S U U 6 A P C A A U U G 7 X C G C A G G T P C A A U C C U G C A C G A C C A C C A
Met (CAU)	Met m	G C C U C G 4 A G C U C A G D D # G D D A G A G C A C C A U C A U M A U 6 A P G A U G G 7 X C A C A G G T P C G A A U C C C G U C G U A G C C A C C A
Phe (GAA)	Phe1	G C C C G A 4 A G C U C A G D C G D D A G A G C A G G G A P U G A A * A P C C C A G 7 X C U U G G T P C G A U C C G A G U C C G G C C A C C A
Pro (CGG)	Pro1	C G G U G A U 4 G G C G C A C C C U G D D A G C G C A C C U C C J U G G G K A C C A G G 7 U C G G A G G T P C G A A U C C U C U A U C C G A C C A
Pro (GGG)	Pro2	C G G C A C U A G C G C A G C C U G D D A G C G C A C C G U C A U G G G K U G U C G G G 7 U C G G A G G T P C A A A U C C U C U C U G C C G A C C A
Pro (UGG)	Pro3	C G G C A G U G C G C A G C U U G D D A G C G C A C C U G G U U V G K A C C A U G G 7 U C G G A G G T P C G A A U C C U C U C U G C C G A C C A
Ser (CGA)	Ser2	G G A G A U G C C G G A G C # G C D G A A C C G A C C G G C U U C G A * A A C C G G A G U A G G G G C A A U C C U C G G G G T P C A A A U C C C C C U C U C C G C C A
Ser (GCU)	Ser3	G U G A G G 4 G C C C G A G A G G C D G A A G G C G C U C C C % U G C U 6 A G G G A U G C G G U C A A A A G C U G C A U C C G G G T P C G A A U C C C C C U C C G C C A
Ser (GGA)	Ser4	G U G A G G U G C C G A G U # G C D G A A G G A G C A C C C C U G G A A A G P G U U A C C G G C A A C G G U A U C C G G G T P C G A A U C C C C C U C C G C C A
Ser (UGA)	Ser1	G G A A G U G 4 G G C C G A G C # G D D G A A C C C G G U B U V G A * A A C C G G C A C C C G A A A G G G U U C C A G A G T P C G A A U C C G C C U C C G C C A
Thr (CGU)	Thr2	G C C G A U U A G C U C A G U U G D D A G A G C A C C G C A U U C G U A A U G C A A G 7 U C G U A G G T P C G A C U C C U A U U A U C C G C C A
Thr (UGU)	Thr4	G C C G A C U U A G C U C A G U A G D D A G A G C A C C U G A C U V G U A A U C A G U A G 7 U C A C C A G T P C G A U U C C G G U A G U C G C A C C A
Trp (CCA)	Trp1	A G G G G C G 4 A G U U C A A D D G D D A G A G C A C C G G U B U C C A * A A C C G G U U U G G G A G T P C G A G U C C U C C G C C U C G C C A
Tyr (GUA)	Tyr2	G U G U G G 4 U C C C G A G C # G C C A A A G G G A G C A C A C U Q U A * A P C U G C C G U C A C A G A C U U C G A A G G T P C G A A U C C U C C C C A C C C A C C A
Val (GAC)	Val28	G C G U C A 4 A G C U C A G D D G D D A G A G C A C C A C C U U G A C A U G G G G 7 X C G U U G G T P C G A G U C C A A U U G A A C C C A C C A
Val (UAC)	Val1	G G G U G A U 4 A G C U C A G C D G G G A G A G C A C C U C C C U V A C = A G G A G G G 7 U C G G C G G T P C G A U C C C G U C A U C A C C C A C C A
Cys (GCA)	Cys1	G C C G C U 4 A G C A A G C G D D A U G A G C G G A P U G C A * A P C C G U A G U C C G G T P C A C U C C G G A A C C C G C C U C C A
Thr (GGU)	Thr1	G C U G A U A U G C U C A G D D G D D A G A G C A C C U C U G G U E A G G G U G 7 U C C C A G T P C A C U C G G G U A U C A G C A C C A
Leu (UAA)	Leu4	G C C C G A 4 G G U G G A A D C # G D A G A C A C A A G G G A P U H A A * A P C C C U C G C G U U C G C G C U G U G U G G G T P C A A G U C C A C C U C C G G G U A C C A

(Leu-UAA tentative due to 5S rRNA interference)

Singlets Predicted but not detected by RNase T1

Arg (CGC)	Arg2	Arg3	G C G C C C G U A G C U C A G C D G G D A D A G A G C G C U G C C % U C C G K A G G C A G A G 7 U C U C A G G T P C G A A U C C U G U C G G G C G C A C C A
Arg (CCU)	Arg4	Arg5	G U C U C C U U A G U U A A A U G G D A D A G A C G A G C C C % U C C U C 6 A G G G C U A U U U G C A G G T P C G A A U C C U C G A G G G G C A C C A
Arg (UCU)	Arg3	Arg4	G C G C C C U A G C U C A G U U G G A U A G A G C A A C G G C % U C U U 6 A G C C G G G U C G C A G G T P C G A A U C C U C G A G G G C C G C C A
Asp (GUC)	Asp	Asp	G A G C C G 4 A G U U C A G D U U G D D A G A A U A C C U G C C U Q U C / C C G C A G G 7 U C G C G G G T P C G A A U C C G P C C G U C C G C C A
fMet (CAU)	fMet2	fMet2	C G C G G G 4 G G A G C A G C C U G D D A G C U C G U C G G G B U C A U A A C C C G A A G G U C G U C A G T P C A A A U C U G G C C C C G C A C C A
Leu (CAA)	Leu5	Leu4	G C G A A C 4 G G C G A A D C # G D A G A C C A G U U G A P U B A A * A P C A A C C G U A G A A U A C G U C C G G T P C G A G U C C C C U C G G C A C C A
Leu (CAU)-B	Leu1	Leu1	G G A A G U G C C G A A D # G D A G A C C G C U A G C U U C A G : P G P U A G U U U C U U A C G A C G U G G G T P C A A U C C C C C U C G G C A C C A
Sec6 (UCA)	Sec1	Sec1	G G A A G U G C U C G U C C C G G D A G G C G G C U G G A C U U C A + A U C C A G U U G G G C C G C A G C G G U C C G G G C A G G T P C G A C U C C U G U G A U C U U C C A
Tyr (GUA)	Tyr1	Tyr1	G U G G G 4 U C C C G A G U # G C C A A A G G G A G C A C A C U Q U A * A P C U G C C G U C A U C G A C U U C G A A G G T P C G A A U C C U C C C C A C C C A C C A
Val (GAC)	Val2	Val2A	G C G U C U G 4 A G C U C A G D D G D D A G A G C A C C A C C U U G A C A A U G G 7 X C G U U G G T P C G A G U C C A U U C A G A C G C A C C A