

## Supplementary Figure Legends

### **Figure S1. Variant sequences of *Bombyx* cytoplasmic tRNA<sup>AspGUC</sup> (A) and tRNA<sup>HisGUG</sup> (B)**

According to RACE analyses, tRNA halves from tRNA<sup>AspGUC</sup> in BmN4 cells were derived from variant 1 (shown in square).

### **Figure S2. RACE identification of 5'-tRNA<sup>HisGUG</sup> half sequences in *Bombyx* BmN4 cells**

The cloverleaf secondary structure of the *Bombyx* cytoplasmic tRNA<sup>HisGUG</sup> is shown. Sequences of the tRNA halves derived from the tRNA<sup>HisGUG</sup> were identified by RACE analysis. All 3'-RACE products (10 out of 10) cloned from 5'-tRNA halves had 3'-terminal positions at np 34. 5'-RACE for 3'-tRNA half failed to amplify detectable bands, most likely because the m<sup>1</sup>G modification at np 37 inhibited reverse transcription.

### **Figure S3. Variant sequences of human cytoplasmic tRNA<sup>AspGUC</sup> (A) and tRNA<sup>HisGUG</sup> (B)**

### **Figure S4. RACE identification of the sequences of tRNA halves derived from tRNA<sup>AspGUC</sup> and tRNA<sup>HisGUG</sup> in human BT-474 cells**

(A) RNAs extracted from HeLa and BT-474 cells were subjected to RACE analyses for sequence identification of tRNA halves derived from human cytoplasmic tRNA<sup>AspGUC</sup> and tRNA<sup>HisGUG</sup>. RACE reactions from BT-474 RNA, but not those from HeLa RNA, yielded clear amplified bands for the 5'- and 3'-tRNA<sup>AspGUC</sup> halves and 5'-tRNA<sup>HisGUG</sup> half, which is consistent with the abundant expression of the tRNA halves in BT-474 cells and the barely detectable expression in HeLa cells (**Fig. 2A**). RACE for 3'-tRNA<sup>HisGUG</sup> half failed to amplify

detectable bands, most likely because the m<sup>1</sup>G modification at np 37 inhibited reverse transcription.

**(B)** The cloverleaf secondary structures of the human cytoplasmic tRNA<sup>AspGUC</sup>-V1 and tRNA<sup>HisGUG</sup>-V1 are shown. All 3'-RACE products cloned from the 5'-tRNA halves (15 out of 15 from 5'-tRNA<sup>AspGUC</sup>, and 13 out of 13 from 5'-tRNA<sup>HisGUG</sup>) had 3'-terminal positions at np 34. The majority of the 5'-RACE products (9 out of 10) cloned from 3'-tRNA<sup>AspGUC</sup> halves had 5'-terminal positions at np 35, while np 36 was the 5'-terminal position in one clone.

**Figure S5. Entire gel picture whose designated region (red square) was shown in Fig. 2C**

**Figure S6. Reduction of tRNA halves upon siRNA knockdown of ANG**

**(A)** BT-474 cells were transfected with control (Ctrl) siRNA or the two different siRNAs targeting the ANG gene. Total RNA was extracted from the cells after 72 h of transfection. ANG mRNA was quantified by real-time qRT-PCR. Expression levels from control siRNA-treated cells were set as 1 and relative expression levels of ANG mRNAs are indicated. Each data set represents the average of three independent experiments with bars showing the SD.

**(B)** Mature tRNA<sup>AspGUC</sup>, 5'-tRNA<sup>AspGUC</sup>, and miR-16 (negative control) in total RNA extracted from ANG siRNA-treated cells were detected by Northern blot. The Northern blot bands were quantified and shown as relative abundance; amounts in control cells were set as 1.

**Figure S7. Alteration of hormone status did not influence ANG and RNH1 expression levels**

(A) LNCaP-FGC cells were cultured in medium containing normal FBS or hormone-free CS-FBS. After culturing for 120 h, total RNA was extracted and ANG and RNH1 mRNA levels were quantified by real-time qRT-PCR. Expression levels in the cells cultured with normal FBS were set as 1, and average of three independent experiments with SD values are shown.

(B) By Western blots, RNH1 protein levels were examined in LNCaP-FGC cells cultured with FBS or CS-FBS for 120 h. The levels of  $\beta$ -tubulin were also examined as a control.

**Figure S8. siRNA targeting SHOT-RNA reduced the levels of the SHOT-RNA without affecting mature tRNA levels**

(A) LNCaP-FGC cells were transfected with control siRNA or siRNA targeting 5'-SHOT-RNA<sup>LysCUU</sup>. After 72 h of transfection, total RNA was extracted and subjected to Northern blot to detect 5'-SHOT-RNA<sup>LysCUU</sup> and mature tRNA<sup>LysCUU</sup>. The asterisk indicates the detection of one of the strands of the transfected siRNA.

(B) The Northern blot bands were quantified and shown as relative abundance; amounts in control cells were set as 1.

**Figure S9. Variant sequences of human cytoplasmic tRNA<sup>LysCUU</sup> (A), tRNA<sup>GluCUC</sup> (B), tRNA<sup>ValAAC</sup> (C), tRNA<sup>ValCAC</sup> (D), tRNA<sup>GlnCUG</sup> (E), tRNA<sup>LysUUU</sup> (F), and tRNA<sup>GlyGCC</sup> (G)**

Among 5'-SHOT-RNA<sup>LysCUU</sup> reads shown in Fig 5D, 24.4%, 0.25%, 0.2%, and 75.2% were derived from tRNA<sup>LysCUU</sup>-V1, V2, -V1/V2, and -V3/V4, respectively. Among 5'-SHOT-RNA<sup>GluCUC</sup> reads, 84.5% and 15.5% were derived from tRNA<sup>GluCUC</sup>-V1/V2, and -V1/V2/V5. Among 5'-SHOT-RNA<sup>LysUUU</sup> reads, 49.8% and 50.2% were derived from tRNA<sup>LysUUU</sup>-V1/V2, and -V1/V2/V3. All 5'-SHOT-RNA<sup>ValAAC/CAC</sup> reads were derived from tRNA<sup>ValAAC</sup>-V1/V2 or

tRNA<sup>ValCAC</sup>-V1/V2/V3. All reads of 5'-SHOT-RNA<sup>HisGUG</sup>, 5'-SHOT-RNA<sup>GlnCUG</sup>, 5'-SHOT-RNA<sup>AspGUC</sup>, and 5'-SHOT-RNA<sup>GlyGCC</sup> were derived from tRNA<sup>HisGUG</sup>-V1, tRNA<sup>GlnCUG</sup>-V1/V2/V3, tRNA<sup>AspGUC</sup>-V1, and tRNA<sup>GlyGCC</sup>-V1, respectively.

**Table S1. Sequences of adapters and primers for RACE analysis**

RACE	Adapter/primer	Sequence (5'–3')
5'-RACE	5'-RNA adapter	GUUCAGAGUUCUACAGUCCGACGAUC
	3'-tRNA <sup>AspGUC</sup> half-forward primer	GTTCAGAGTTCTACAGTCCGACGATC
	3'-tRNA <sup>AspGUC</sup> half-reverse primer	TGGCTCCCCGTCGGGGAATC
3'-RACE	3'-RNA adapter	5phos/UGGAAUUCUCGGGUGCCAAGG/3ddC
	5'-tRNA <sup>AspGUC</sup> half-forward primer	GCGGTCCTCGTTAGTATAGT
	5'-tRNA <sup>HisGUG</sup> half-forward primer	GCTCGCCGTGATCGTATAGT
	Common reverse primer	GCCTTGGCACCCGAGAATTCCA

**Table S2. Sequences of probes for Northern blot analysis**

Target	Sequence (5'–3')
<i>Bombyx</i> 5'-tRNA <sup>AspGUC</sup> half	GGGATACTGACCACTATACTACCGAAGA
<i>Bombyx</i> 3'-tRNA <sup>AspGUC</sup> half	CGGCGGGGAATCGAACCCCGGTCTCCC
<i>Bombyx</i> 5'-tRNA <sup>HisGUG</sup> half	GGGTCCTA <u>ACC</u> ACTAGACGA
<i>Bombyx</i> 3'-tRNA <sup>HisGUG</sup> half	AA <u>ATT</u> <u>CGA</u> <u>AC</u> CTGGGTT <u>ACT</u>
human 5'-tRNA <sup>AspGUC</sup> half	GGGATACTCACCACTATACTAACGAGGA
human 3'-tRNA <sup>AspGUC</sup> half	GTCGGGGGAATCGAACCCCGGTCTCC
human 5'-tRNA <sup>HisGUG</sup> half	CAGAGTACTA <u>ACC</u> ACTATA <u>CG</u> ATCACGGC
human 3'-tRNA <sup>HisGUG</sup> half	GCCGTGACTCGGATTCGAACCGAGGTT
human 5'-tRNA <sup>LysCUU</sup> half	GTCTCATGCTCTACCGACT

All synthetic probes and primers used in this study were synthesized by Integrated DNA Technologies. Locked Nucleic Acid (LNA)-modified probes were used for the detection of *Bombyx* 5'- and 3'-tRNA<sup>HisGUG</sup> halves (underlined letters designate LNA).

**Table S3. Sequences of the sense strand of siRNAs with 3'-overhangs, which were designed using siExplorer (46)**

Target	Sequence (5'-3')
ANG-1	AAACCUAAGAAUAAGCAAGUCAU
ANG-2	CCUAAGAAUAAGCAAGUCUAU
5'-SHOT-RNA <sup>Lys</sup> CUU	AGCUCAGUCGGUAGAGCAUUU
5'-SHOT-RNA <sup>Asp</sup> GUC	GUUAGUAUAGUGGUGAGUAUU
5'-SHOT-RNA <sup>His</sup> GUG	UCGUAUAGUGGUUAGUACUUU
3'-SHOT-RNA <sup>Asp</sup> GUC	GCGGGAGACCGGGGUUCGAUU

**Table S4. Sequences of primers for real-time qRT-PCR**

Primer	Sequence (5'-3')
ANG-forward primer	AGAAGCGGGTGAGAAACAAAAC
ANG-reverse primer	AGTGCTGGGTCAGGAAGTGTG
GAPDH-forward primer	GTCTTCACCACCATGGAGAAGG
GAPDH-reverse primer	ATGATCTTGAGGCTGTTGTCAT
U6 snRNA-forward primer	TCGCTTCGGCAGCACATATAC
U6 snRNA-reverse primer	CGAATTTGCGTGTCATCCTTG
ESR1-forward primer	CGGCTCCGTAATGCTACGA
ESR1-reverse primer	TGGCAGCTCTCATGTCTCCA
AR-forward primer	AGCTCACCAAGCTCCTGGACTC
AR-reverse primer	TTGGGCACTTGCACAGAGATG
HER2-forward primer	CAGAGCAGCTCCAAGTGTTTG
HER2-reverse primer	GGTTCTGGAAGACGCTGAGG
RNH1-forward primer	AACAACAGGCTGGAGGATGC
RNH1-reverse primer	TCACGCAGGCTGTGGTTG
5S rRNA-forward primer	TACGGCCATACCACCCTGAAC
5S rRNA-reverse primer	CGGTCTCCCATCCAAGTACTAACC

**Table S5. Sequences of adapters and primers for SHOT-RNA quantification by TaqMan qRT-PCR**

Target	Adapter/primer	Sequence (5'–3')
5'-tRNA <sup>Asp</sup> GUC	3'-RNA adaptor	/5Phos/GAACACUGCGUUUGCUGGCCUUUGAGAGUU CUACAGUCCGACGAUC/3ddC/
	TaqMan probe	/56FAM/TATCCCCGC/ZEN/CTGGAACACTGCGTTT/3 IABkFQ/
	Forward primer	GCGGTCCTCGTTAGTATAGT
	Reverse primer	GATCGTCGGACTGTAGAACTC
5'-tRNA <sup>His</sup> GUG	3'-RNA adaptor	/5Phos/GAACACUGCGUUUGCUGGCCUUUGAGAGUU CUACAGUCCGACGAUC/3ddC/
	TaqMan probe	/5HEX/TAGTACTCT/ZEN/GCGTTGGAACACTGCGTT TGC/3IABkFQ/
	Forward primer	GCTCGCCGTGATCGTATAGT
	Reverse primer	GATCGTCGGACTGTAGAACTC
5'-tRNA <sup>Lys</sup> CUU	3'-RNA adaptor	/5Phos/GAACACUGCGUUUGCUGGCCUUUGAGAGUU CUACAGUCCGACGAUC/3ddC/
	TaqMan probe	/56FAM/AGAGCATGG/ZEN/GACTCGAACACTG/3IA BkFQ/
	Forward primer	GCCCCGGCTAGCTCAG
	Reverse primer	GATCGTCGGACTGTAGAACTC
3'-tRNA <sup>Asp</sup> GUC	5'-RNA adaptor	GAACACUGCGUUUGCUGGCCUUUGAUGAAAGUUC AGAGUUCUACAGUCCGACGAUC
	TaqMan probe	/56FAM/CAGTCCGAC/ZEN/GATCTCACGCGGGAGA C/3IABkFQ/
	Forward primer	GAACACTGCGTTTGGCTGGCTTTGATG
	Reverse primer	TGGCTCCCCGTCGGGGAATC
5'-tRNA <sup>Glu</sup> CUC	3'-RNA adaptor	/5Phos/GAACACUGCGUUUGCUGGCCUUUGAGAGUU CUACAGUCCGACGAUC/3ddC/
	TaqMan probe	/56FAM/CGCTCGAAC/ZEN/ACTGCGTTTG/3IABkFQ/
	Forward primer	TCCCTGGTGGTCTAGTGG
	Reverse primer	GATCGTCGGACTGTAGAACTC

**Table S6. Sequences of adapters and primers for mature tRNA quantifications by FL-PCR**

Adapter/primer	Sequence (5'–3')
Stem-loop adapter	/5Phos/TCGTAGGGTCCGAGGTATTCACGATGrGrC
tRNA <sup>Lys</sup> <sup>CUU</sup> -forward primer	GTTCGAGCCCCACGTT
tRNA <sup>Lys</sup> <sup>CUU</sup> -reverse primer	ACTGAGCTAGCCGGGC
tRNA <sup>Asp</sup> <sup>GUC</sup> -forward primer	CGGGAGACCGGGGTTTCGATT
tRNA <sup>Asp</sup> <sup>GUC</sup> -reverse primer	CGGGGATACTCACCCTATACTAACGAGGA

A, G, C, and T designate DNA, whereas rG and rC designate RNA.



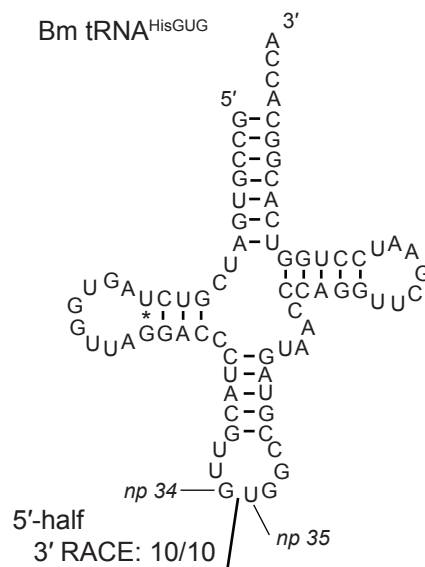
A

		Genome loci
tRNA <sup>AspGUC</sup> -V1	<b>TCCTCGGTAGTATAGTGG--TCAGTATCCCCGCTGTCACGCGGGAGACCGGGGTTCGATTCCCCCGCCGGAGAG</b>	12
tRNA <sup>AspGUC</sup> -V2	TCCTCGGTAGTATAGTGG--TCAGTATCCCGCCTGTCACGCGGGAGACCGGGGTTCGATTCCCCCGCCGGGGAG	3
tRNA <sup>AspGUC</sup> -V3	TCCTCGGTAGTATAGTGG--TTAGTATGGCCGCTGTCACGCGGAAGACCGGGGTTCGATTCCCCCGCCGGGGAG	3
tRNA <sup>AspGUC</sup> -V4	TCCTCGGTAGTATAGTGG--TGAGTATACTCGCCTGTCACGCGAGAGACCGGGGTTCGATTCCCCCGCCGGGGAG	1
tRNA <sup>AspGUC</sup> -V5	TCCTCGGTAGTACAGTGGG--TCAGTATACTCGCCTGTCACGCGAGAGACCGGGGTTCGATCCCCCGGCCGGGGAG	1
tRNA <sup>AspGUC</sup> -V6	TCCTCGGTAGTATAGTGG--TGAGTATGCACGCTGTCACGCGTGAGACCGGGGTTCGATTCCCCCGCCGGGGAG	1
tRNA <sup>AspGUC</sup> -V7	TCCTCGGTAGTACAGTGGG--TCAGTATGCTCGCCTGTCACGTGAGAGACCGGGGTTCGATCCCCCGCCGAGGAG	1
tRNA <sup>AspGUC</sup> -V8	TCCTCGGTAGTACAGTGGG--TCAGTATGCTCGCCTGTCACGCGAGAGACCGGGGTTCGAGCCCCGCCGAGGAG	1
tRNA <sup>AspGUC</sup> -V9	TCCTCGGTAGTACAGTGGG--TCAGTATGCTCGCCTGTCACGCGAGAGACCGGGGTTCGAGCCCCGCCGAGGAG	1
tRNA <sup>AspGUC</sup> -V10	TCCTCGGTAGTACAGTGGG--TCAGTATACTCGCCTGTCACGCGAGAGAACCGGGGTTCGATCCCCCGCGGGGAG	4
tRNA <sup>AspGUC</sup> -V11	TCCTCGGTAGTACAGTGGG--TCAGTATGCTCGCCTGTCACGTGAGAGACCGGGGTTCGAGCCCCGCCGAGAAG	1
tRNA <sup>AspGUC</sup> -V12	TCATCAGCAGTACAGTAGG--TCAGTATGCTCGCCTGTCACACGAGAGACCGGGGTTCGATCCCCCGCCGGGGAG	1
tRNA <sup>AspGUC</sup> -V13	TCATCGGTAGTACAGTGGGGTCAGTATGCTCGCTTGTCACACGAGAGACCGGGGTTCGAAACCCCCGCCGGGAG.	1
tRNA <sup>AspGUC</sup> -V14	TCCTTGTTAGTATAGTGG--TGAATATATTGCGCCTGTCACAAGAGACTGGGCTTAAATTCCCCCCCAAGGAG	1

B

		Genome loci
tRNA <sup>HisGUG</sup>	GCCGTGATCGTCTAGTGGTTAGGACCCTACGTTGTGGCCGTAGTAACCCAGGTTCGAATCCTGGTCACGGCA	14

*Honda et al. Figure S1*



*Honda et al. Figure S2*

**A**

Genome loci

tRNA <sup>AspGUC</sup> _V1	TCCTCGTTAGTATAGTGGTGGTGCAGTATCCCCGCCTGTCACGCGGGAGACCGGGGTTTCGATTCCCCGACGGGGAG	11
tRNA <sup>AspGUC</sup> _V2	TCCTCGTTAGTATAGTGGT <b>T</b> AGTATCCCCGCCTGTCACGCGGGAGACCGGGGTT <b>C</b> AATCCCCGACGGGGAG	1
tRNA <sup>AspGUC</sup> _V3	TCCTCGTTAGTATAGTGGTGGT <b>G</b> TCCCC <b>G</b> TCTGTCACGCGGGAGACCGGGGTTTCGATTCCCCGACGGGGAG	1
tRNA <sup>AspGUC</sup> _V4	TCCTCGTTAGTAT <b>G</b> GTGGTGGTATCCC <b>T</b> GCCTGTCACGCGGGAGACCGGGGTTTCGATTCCCC <b>A</b> ACGGGGAG	1
tRNA <sup>AspGUC</sup> _V5	TCCT <b>C</b> AT <b>C</b> AGTATAGTGGTGGTGCAGTATCCCCGCCTGTCACGCGGGAGAC <b>T</b> GGGGTTTCGATTCCC <b>T</b> GAG <b>G</b> AGGAG	1
tRNA <sup>AspGUC</sup> _V6	<b>T</b> ACTCGTTAGTATAGTGGT <b>G</b> CGTATCCCC <b>G</b> TCTGTCACGCGGGAGAG <b>G</b> CGGGGTT <b>C</b> G <b>C</b> TCTCCCCGACGGGGAG	1
tRNA <sup>AspGUC</sup> _V7	TCCT <b>T</b> GT <b>T</b> ACTATAGTGGTGGTGCAGTAT <b>C</b> T <b>G</b> CCCTGTCAT <b>G</b> CG <b>T</b> GAGAGAGGGGG <b>T</b> TCGATTCCCCGACGGGGAG	1
tRNA <sup>AspGUC</sup> _V8	<b>T</b> TCT <b>T</b> GT <b>T</b> A <b>A</b> TATAGTGGTGGTGCAGTAT <b>T</b> CCC <b>A</b> CTGTCAT <b>G</b> CGGGAG <b>A</b> -CGGGGTT <b>C</b> AAT <b>T</b> CCC <b>T</b> GAT <b>T</b> GGGGAG	1
tRNA <sup>AspGUC</sup> _V9	TCCT <b>T</b> GT <b>T</b> ACTATAGTGGT <b>A</b> AGTAT <b>C</b> T <b>T</b> GCCTGTCAT <b>G</b> CAT <b>G</b> AGAGAGGGGG <b>T</b> TCGATTCCC <b>T</b> GACGGGGAG	1
tRNA <sup>AspGUC</sup> _V10	TCCT <b>T</b> GT <b>T</b> AGTATAGTGGTGGT <b>G</b> T <b>T</b> T <b>T</b> GCCTGTCAT <b>G</b> T <b>G</b> -GAGACT <b>G</b> G <b>A</b> G <b>T</b> T <b>T</b> GAGTCCCC <b>A</b> ACAGGGAG	1

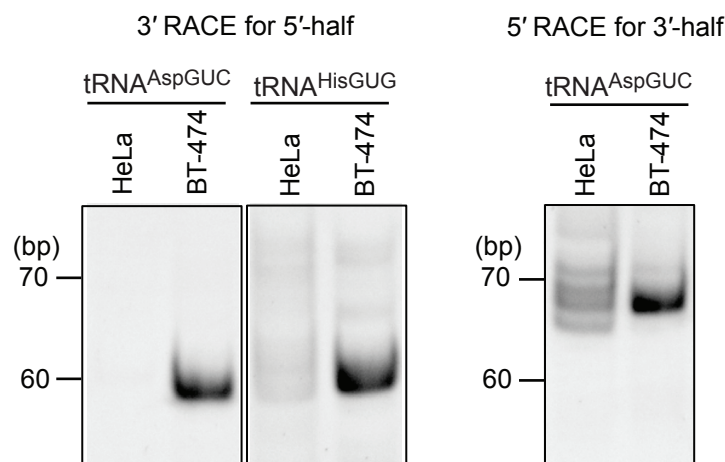
**B**

Genome loci

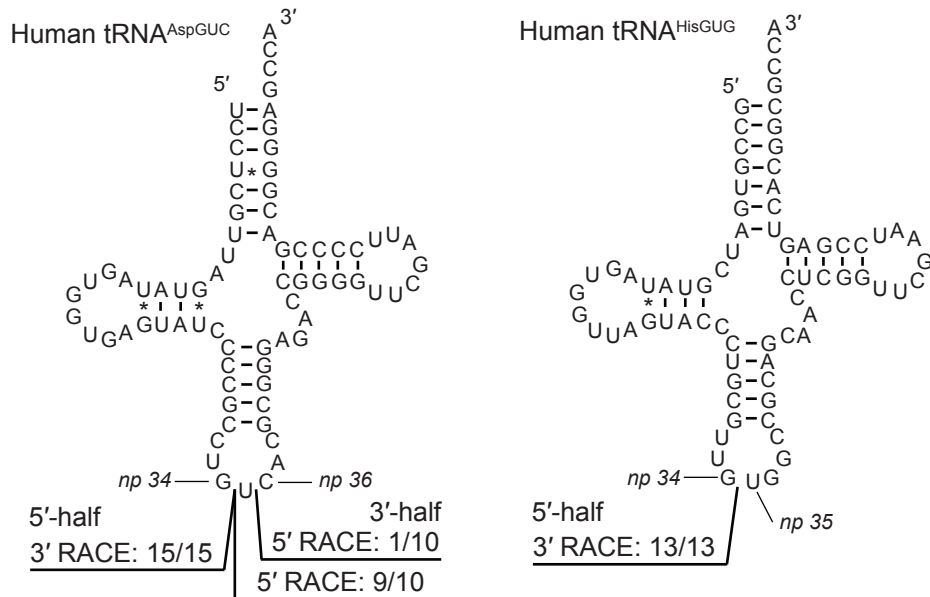
tRNA <sup>HisGUG</sup> _V1	GCCGTGATCGTATAGTGGTTAGTACTCTGCGTTGTGGCCGAGCAACCTCGGTTTCGAATCCGAGTCACGGCA	9
tRNA <sup>HisGUG</sup> _V2	GCC <b>A</b> TGATCGTATAGTGGTTAGTACTCTGCG <b>C</b> TGTGGCCGAGCAACCTCGGTTTCGAATCCGAGTCACGGCA	1
tRNA <sup>HisGUG</sup> _V3	GC <b>A</b> GTG <b>A</b> CTGTATAGTGGTTAG <b>C</b> ACTCTG <b>T</b> GTTGTGGCC <b>A</b> CAGCAACC <b>A</b> TGGTT <b>C</b> AAAT <b>T</b> GAGTCAT <b>G</b> ACA	1

*Honda et al. Figure S3*

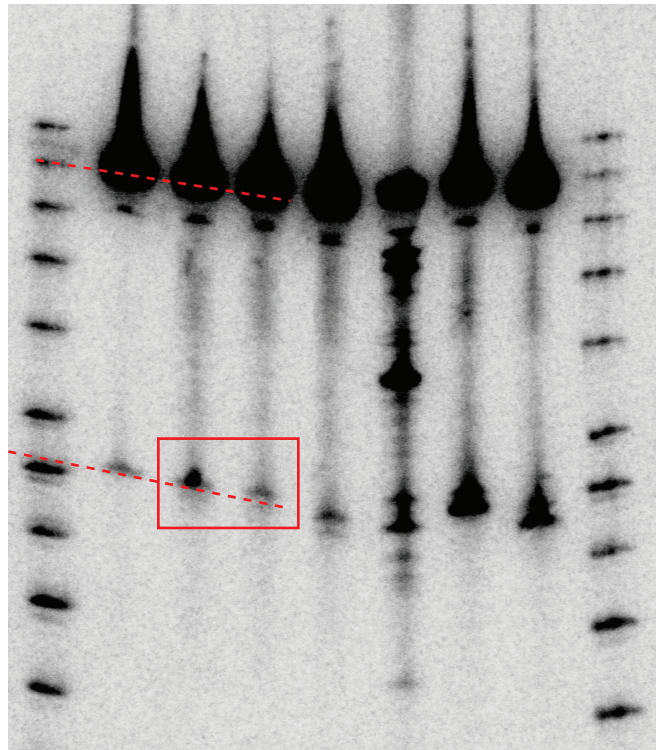
**A**



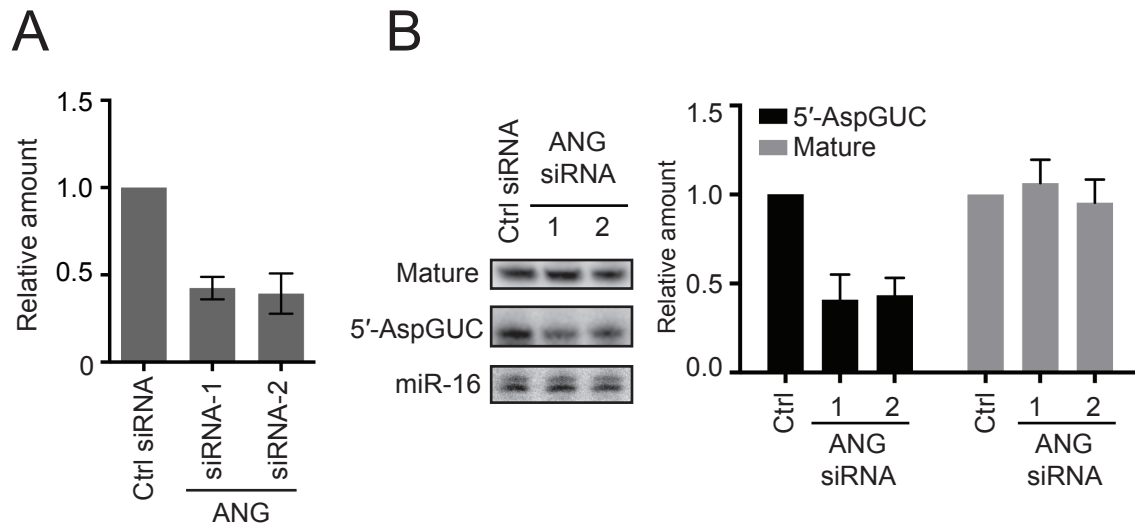
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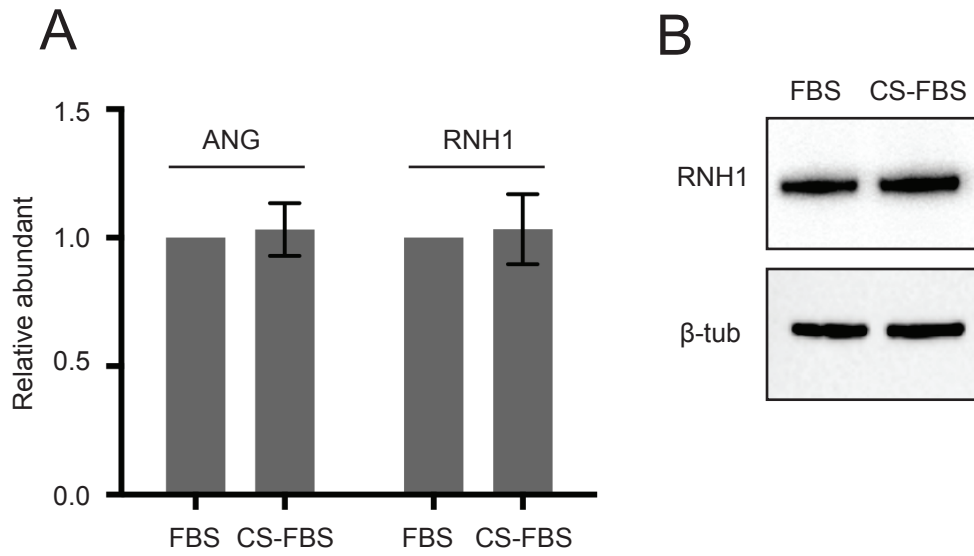
*Honda et al. Figure S4*



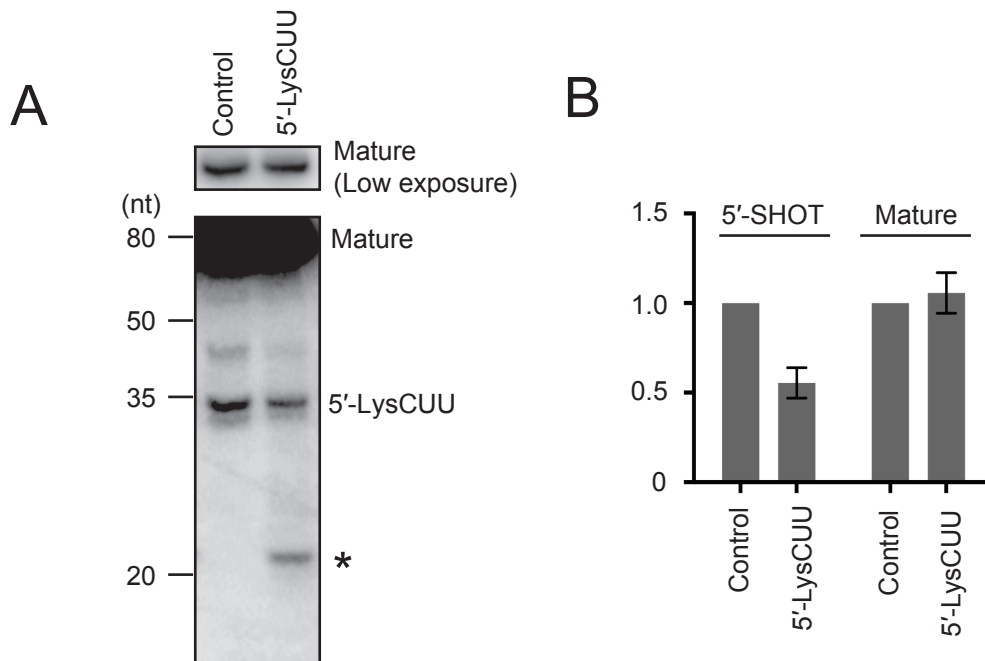
*Honda et al. Figure S5*



*Honda et al. Figure S6*



*Honda et al. Figure S7*



*Honda et al. Figure S8*

**A**

		Genome loci
tRNA <sup>Lys</sup> CUU_V1	GCCCCGGCTAGCTCAGTCGGTAGAGCATGAGACTCTTAATCTCAGGGTC-GTGGGTTTCGAGCCCCACGTTGGGCG	5
tRNA <sup>Lys</sup> CUU_V2	GCCCCGGCTAGCTCAGTCGGTAGAGCATGAGACCCTTAATCTCAGGGTC-GTGGGTTTCGAGCCCCACGTTGGGCG	1
tRNA <sup>Lys</sup> CUU_V3	GCCCCGGCTAGCTCAGTCGGTAGAGCATGGGACTCTTAATCTCAGGGTC-GTGGGTTTCGAGCCCCACGTTGGGCG	1
tRNA <sup>Lys</sup> CUU_V4	GCCCCGGCTAGCTCAGTCGGTAGAGCATGGGACTCTTAATCCAGGGTC-GTGGGTTTCGAGCCCCACGTTGGGCG	2
tRNA <sup>Lys</sup> CUU_V5	GCCCCGGCTAGCTCAGTCGATAGAGCATGAGACTCTTAATCTCAGGGTC-GTGGGTTTCGAGCCGCACGTTGGGCG	1
tRNA <sup>Lys</sup> CUU_V6	GCCCCAGCTAGCTCAGTCGGTAGAGCATGAGACTCTTAATCTCAGGGTC-ATGGGTTTGAGCCCCACGTTGGGTG	1
tRNA <sup>Lys</sup> CUU_V7	GCCCTGGCTAGCTCAGTCGGCAAAGCATGAGACTCTTAATCTCAGGGTC-GTGGGCTCGAGCTCCATGTTGGGCG	1
tRNA <sup>Lys</sup> CUU_V8	GACGAGCTAGCTCAGTCGGTAGAGCATGGGACTCTTAATCCAGGGTC-GTGGGTTTGAGCCCCATGTTGGGCA	1
tRNA <sup>Lys</sup> CUU_V9	CTGCAGCTAGCTCAGTCGGTAGAGCATGAGACTCTTAATCTCAGGGTC-ATGGGTTTCGTGCCCCATGTTGGGTG	1
tRNA <sup>Lys</sup> CUU_V10	GCCCCAGCTAGCTCAGTCGGTAGAGCATAAGACTCTTAATCTCAGGGTT-GTGGATTTCGTGCCCCATGCTGGGTG	1
tRNA <sup>Lys</sup> CUU_V11	GCCCCACTACCTCAGTCGGTGGAGCATGGGACTCTTCATCCAGGGTT-GTGGGTTTCGAGCCCCACATTGGGCA	1
tRNA <sup>Lys</sup> CUU_V12	GCTTAGCTAGATCAGTTGGTAGAGCATAAGACTCTTAATCTCAGGGTC-ATGGGTTTGAGCCCCATCGTTGGGCG	1
tRNA <sup>Lys</sup> CUU_V13	GCCCCAGCTAGCTCAGCCGGTAGAGCAAGACTCTTAATCTCAGGGTC-GTGGGTTTGAGCCCCGTGTTGAGCA	1
tRNA <sup>Lys</sup> CUU_V14	GCCCTGGCTACCTCAGTTGGTAGAGCATGGGACTCTTAATCCAGAGTCAGTGGGTTCAAGCCACATTGAGTG	1
tRNA <sup>Lys</sup> CUU_V15	ACCAGCATGTCTCAGTCGGTATAGTGTGAGACTCTTAATCTCAGGGTC-GTGGGTTCAAGCCCCACATTGGGCG	1
tRNA <sup>Lys</sup> CUU_V16	AACCGAATAGCTTAGTTGATGAAGCGTGAGACTCTTAATCTCAGGGTA-GTGGGTTCAAGCCCCACATTGGACA	1

**B**

		Genome loci
tRNA <sup>Glu</sup> CUC_V1	TCCCTGGTGGTCTAGTGGTTA-GGATTCGGCGCTCTCA-CCGCCGGGCCCGGG-TTCGATTCCCAGGTCAGGGAA...	7
tRNA <sup>Glu</sup> CUC_V2	TCCCTGGTGGTCTAGTGGTTA-GGATTCGGCGCTCTCA-CCGCCGGGCCCGGG-TTCGATTCCCAGGTCAGGAAA...	1
tRNA <sup>Glu</sup> CUC_V3	CCCCGTGGTGGTCTAGTGCTTA-GGATTCGGTGCTCTCA-CCGCTGCTGCCGCGG-TTCGATTCCCAGGTCAGGGAA...	1
tRNA <sup>Glu</sup> CUC_V4	TCCCTGGTGGTCTAATGGTTA-GGAGTCGGCACTCTCA-CCGCCGGGCTGGGG-TTGATTCCCAGTCAATGTAA...	1
tRNA <sup>Glu</sup> CUC_V5	CCCCGTGGCGGTCTAGTGGTTA-GGATTCGGCGCTCTCATCCACCGCGGCTGGG-TTCGACTCGTGGTCAGAGTG...	1
tRNA <sup>Glu</sup> CUC_V6	CCCCGTGGTGGTCTAGTGCTTA-GGATTGGCACTCTCG-CCACCGCAGCCGCGG-TTCAATTCCCAGGTCAGGGAA...	1
tRNA <sup>Glu</sup> CUC_V7	CCCCGTGTAGTCTAGTGGTTA-GAATTCGCGGCTCTCA-CAGCCGGGCCCGGG-TTCGATTCCCATTCCGGGAA...	1
tRNA <sup>Glu</sup> CUC_V8	CCCCGGTGGTGTAGTGGATG-GGATTGGCGCTCTCA-CCACCATGGCCGGA-TTGATTCCCAGGTCAGGGAA...	1
tRNA <sup>Glu</sup> CUC_V9	TCCCTTGGTGGTCTAGTGGTTA-GGATTCAACTCTCTCA-CCGCCGCAAGCCCGGG-TTGATTCCCAGGCAGGGAAAG..	1
tRNA <sup>Glu</sup> CUC_V10	TCCCTGCTTGTCTAGTGGTTA-GAATTCAGCACTCTCA-CTGCCACAGCCCAGG-TTCAATTCCCAGTCAAGAA...	1
tRNA <sup>Glu</sup> CUC_V11	TTATTATTATACCTGTGGTTA-GGATTCGGCGCTCTCA-CCGCCACGACCCCGGG-TTCAATTCCCAGGTCAGGGAA...	1
tRNA <sup>Glu</sup> CUC_V12	CCCCGTGGTGGTCTATCGGTTA-GGATTCAGACTCTCTCA-CCACTGCTACCCATG-CTCGATTCCAGGTCAGGGAA...	1
tRNA <sup>Glu</sup> CUC_V13	CCCCGTGGTGGTCTAGTGGTTA-GGCTTTGCGCTCTCTCA-GTGCCGCTGCCGCGG-TTGATTCCCAGTCAATGTGA...	1
tRNA <sup>Glu</sup> CUC_V14	.TCCTTGATGTCTAGTGGTTA-GGATTGGTGCTCTCTCA-CTGCAGCAGCCGCGG-TTCAATTTCTCAGTCAGGGAA...	1
tRNA <sup>Glu</sup> CUC_V15	.CTCTGGTGGTTTAGTGGCTA-GGATTCACCTCTCTCTCA-CTGCTGCAGCCCAGGGTTCCATTCCCAGGAGTCAGATG	1
tRNA <sup>Glu</sup> CUC_V16	TCCCTGGTGGTCTAGTGGCTA-AAGTTGGCGCTCTCTCA-CCGCCGGGACTGG----TTGATTCCAGATCAGGGGA...	1
tRNA <sup>Glu</sup> CUC_V17	TCCCTGGTGGTTCGGTGGTTA-GGATTGGCATTCTCTCA-CTGTTGTGGTCGGA-TTCAATCTGGCTTAGGGTA...	1
tRNA <sup>Glu</sup> CUC_V18	CCGTGGATAGCCAGCGGCTATGGAGCCGGGCTCTCTCA-CTCTGACGTCCTGGG-TTCAAGTCCCAGTGTGCACA...	1

*Honda et al. Figure S9*

# C

		Genome loci
tRNA <sup>Val</sup> AAC_V1	GTTTCCGTAGTGTAGTGGTTATCACGTTTCGCCTAACACGCGAAAGGTCCCCGGTTCGAAACCGGGCGGAAACA	5
tRNA <sup>Val</sup> AAC_V2	GTTTCCGTAGTGTAGTGGT <b>C</b> ATCACGTTTCGCCTAACACGCGAAAGGTCCCCGGTTCGAAACCGGGCGGAAACA	1
tRNA <sup>Val</sup> AAC_V3	GTTTCCGTAGTGTAGTGGTTATCACGTTTCGCCTAACACGCGAAAGGTCC <b>G</b> CGGTTTCGAAACCGGGCGGAAACA	1
tRNA <sup>Val</sup> AAC_V4	GTTTCCGTAGTGTAGTGGTTATCACGTT <b>T</b> GCCTAACACGCGAAAGGTCCCCGGTTCGAAACCGGGC <b>A</b> GAAACA	1
tRNA <sup>Val</sup> AAC_V5	GTTTCCGTAGTGTAGTGGTTATCACGTTTCGCCTAACACGCGAAAGGTCCC <b>T</b> GGATC <b>A</b> AAACC <b>A</b> GGCGGAAACA	1
tRNA <sup>Val</sup> AAC_V6	GTTTCC <b>A</b> TAGTGT <b>A</b> CTGGTTATCAC <b>A</b> TT <b>C</b> ACCTAACACGCGAAAGGTCC <b>T</b> TGGTT <b>T</b> GAAACC <b>A</b> GGC <b>A</b> GAAACA	1
tRNA <sup>Val</sup> AAC_V7	<b>G</b> GGGGTGTAG <b>C</b> TCAGTGGT- <b>A</b> GAGCGT <b>A</b> TGCT <b>T</b> AA <b>C</b> AT <b>T</b> CAT <b>G</b> AGG <b>C</b> T <b>T</b> GGGTTCG <b>A</b> TC <b>C</b> CC <b>A</b> GC <b>A</b> CT <b>T</b> CCA	1

# D

		Genome loci
tRNA <sup>Val</sup> CAC_V1	GTTTCCGTAGTGTAGTGGTTATCACGTTTCGCCTCACACGCG-AAAGGTCCCCGGTTCGAAACCGGGCGGAAACA	6
tRNA <sup>Val</sup> CAC_V2	GTTTCCGTAGTGTAGTGGTTATCACGTTTCGCCTCACACGCG <b>T</b> AAAGGTCCCCGGTTCGAAACCGGGCGGAAACA	1
tRNA <sup>Val</sup> CAC_V3	GTTTCCGTAGTGTAGTGGTTATCACGTTTCGCCTCACACGCG-AAAGGTCCCCGGTTCGAAAC <b>T</b> GGGCGGAAACA	1
tRNA <sup>Val</sup> CAC_V4	GTTTCCGTAGT <b>G</b> AGTGGTTATCACGTTTCGCCTCACACGCG-AAAGGTCCCCGGT <b>T</b> GAAACC <b>A</b> GGCGGAAACA	1
tRNA <sup>Val</sup> CAC_V5	GTTTCCGTAGTGTAG <b>C</b> GGTTATCAC <b>A</b> TT <b>C</b> GCCTCACACGCG-AAAGGTCCCCGGTTCG <b>A</b> TC <b>C</b> CGGGCGGAAACA	1
tRNA <sup>Val</sup> CAC_V6	<b>G</b> CTT <b>C</b> TGTAGTGTAGTGGTTATCACGTTTCGCCTCACACGCG-AAAGGTCCCCGGTTCGAAACCGGGC <b>A</b> G <b>A</b> GGCA	1
tRNA <sup>Val</sup> CAC_V7	GTTTCCGTAGTGTAGTGGTTAT <b>T</b> ATGTTTCGCCTCACACGCG-AAA <b>A</b> GTCCCCGGTTCG <b>A</b> AA <b>T</b> C <b>A</b> GGCGG <b>G</b> AAACA	1
tRNA <sup>Val</sup> CAC_V8	GTTT <b>C</b> TGTAGT <b>A</b> TGGTGGTTATCACGTT <b>A</b> GTCTCACACG <b>T</b> G-AAAGGTCCC <b>T</b> GGTTCGAAACC <b>A</b> GG <b>T</b> G <b>G</b> AAACA	1
tRNA <sup>Val</sup> CAC_V9	GTTT <b>C</b> TGT <b>G</b> GTGTAGTGGTTAT <b>C</b> ATGTTTCGCCTCACACG <b>A</b> G-AAA <b>A</b> GTCCC <b>T</b> G <b>A</b> TT <b>C</b> G <b>A</b> G <b>A</b> CT <b>G</b> GGT <b>G</b> GG <b>A</b> AC <b>G</b>	1
tRNA <sup>Val</sup> CAC_V10	<b>G</b> CTT <b>C</b> T <b>G</b> T <b>A</b> ATGTAGTGGTTATCAC <b>A</b> TT <b>C</b> GCCTCACAC <b>A</b> T <b>G</b> -AAAGGT <b>C</b> ACC <b>A</b> GT <b>T</b> T <b>G</b> AGACCGGGC <b>C</b> AA <b>A</b> ACA	1
tRNA <sup>Val</sup> CAC_V11	<b>T</b> TTT <b>C</b> TGTAGTGTAGT <b>T</b> GT <b>T</b> AA <b>C</b> ACGTTTCGCCTCACACG <b>T</b> TAAAG <b>T</b> T <b>C</b> T <b>T</b> GGTT <b>G</b> GAT <b>A</b> CC <b>A</b> G <b>A</b> T <b>G</b> GAA <b>T</b> G	1
tRNA <sup>Val</sup> CAC_V12	GTTT <b>C</b> TGTAGT <b>A</b> TAGTGGTTAT <b>C</b> ATGTT <b>T</b> GCCTCACAT <b>G</b> T <b>G</b> -AAAG <b>A</b> CC <b>T</b> T <b>G</b> G <b>C</b> TCG <b>A</b> G <b>A</b> CT <b>G</b> G <b>A</b> GG <b>A</b> AA <b>C</b> A	1
tRNA <sup>Val</sup> CAC_V13	GTTT <b>C</b> TGT <b>G</b> GTGTAGTGGTTAT <b>T</b> ATGTTTCG <b>T</b> TCACAT <b>A</b> T <b>G</b> -AAAGGT <b>C</b> T <b>T</b> GGTTCG <b>A</b> G <b>A</b> CT <b>G</b> CG <b>T</b> GG <b>G</b> AA <b>C</b> A	2
tRNA <sup>Val</sup> CAC_V14	<b>G</b> CACT <b>G</b> GT <b>G</b> GT <b>T</b> CAGTGGT- <b>A</b> GA <b>T</b> T <b>C</b> TCGCCTCACACGCG-- <b>G</b> GACACCCGGG <b>T</b> T <b>C</b> A <b>T</b> T <b>C</b> CG <b>G</b> T <b>C</b> A <b>G</b> GG <b>C</b> A	1

# E

		Genome loci
tRNA <sup>Gln</sup> CUG_V1	...GGTTCATGGTGTAAATGGTT-AGCACTCTGGACTCTGAATCCAGCGAT--CCGAGTTCAAATCTCGGTG-GAACCT...	5
tRNA <sup>Gln</sup> CUG_V2	...GGTTCATGGTGTAAATGGTT-AGCACTCTGGACTCTGAATCCAGCGAT--CCGAGTTCAAG <b>T</b> CTCGGTG-GAACCT...	1
tRNA <sup>Gln</sup> CUG_V3	...GGTTCATGGTGTAAATGGTT-AGCACTCTGGACTCTGAATCC <b>G</b> G <b>T</b> AAT--CCGAGTTCAAATCTCGGTG-GAACCT...	1
tRNA <sup>Gln</sup> CUG_V4	...GGTTCATGGTGTAAATGGT <b>G</b> -AGCACTCTGGACTCTGAATCCAGCGAT--CCGAGTT <b>C</b> G <b>A</b> G <b>T</b> CTCGGTG-GAACCT...	2
tRNA <sup>Gln</sup> CUG_V5	...GGTTCATGGTGTAAATGGT <b>A</b> -AGCACTCTGGACTCTGAATCCAGCGAT--CCGAGTT <b>C</b> G <b>A</b> G <b>T</b> CTCGGTG-GAACCT...	2
tRNA <sup>Gln</sup> CUG_V6	...GG <b>CC</b> CCATGGTGTAAATGGT <b>C</b> -AGCACTCTGGACTCTGAATCCAGCGAT--CCGAGTTCAAATCTCGGTG- <b>G</b> GAC <b>CC</b> ...	1
tRNA <sup>Gln</sup> CUG_V7	...GGTTCATGG <b>G</b> TAAATGGT <b>G</b> -AGCAC <b>C</b> TGGACTCTGAAT <b>C</b> AAGCGAT--CCGAGTTCAAATCTCGGTG- <b>G</b> TAC <b>CT</b> ...	1
tRNA <sup>Gln</sup> CUG_V8	...GGTTCATGGTGTAAATGGT <b>A</b> -AGCACTCTGGACTCTGAATCCAGC <b>C</b> AT-- <b>C</b> TGAGTT <b>C</b> G <b>A</b> G <b>T</b> CT <b>C</b> T <b>G</b> TG-GAACCT...	1
tRNA <sup>Gln</sup> CUG_V9	...GGTTCATGGTGTAAATGGT <b>G</b> - <b>A</b> CCACT <b>T</b> TGGACTCTGAAT <b>A</b> CAGT <b>G</b> AT-- <b>C</b> AGAGTTCAAG <b>T</b> CT <b>C</b> ACT <b>G</b> -GAACCT...	1
tRNA <sup>Gln</sup> CUG_V10	...GGTTCATGGTGTAAATGGT <b>G</b> -AGCACT <b>T</b> TGGACTCTGAAT <b>A</b> CAGT <b>G</b> AT-- <b>C</b> AGAGTTCAAG <b>T</b> CT <b>C</b> ACT <b>G</b> -GGACCT...	1
tRNA <sup>Gln</sup> CUG_V11	...GGTTCATGGTGTAAATGGT <b>A</b> -AGCAC <b>C</b> TGGACTCTGAATCCAGC <b>A</b> C-- <b>C</b> AGAGTT <b>C</b> C <b>A</b> G <b>T</b> CT <b>C</b> A <b>G</b> CGT <b>G</b> ACCT...	2
tRNA <sup>Gln</sup> CUG_V12	...GGTTCATGGTGTAAATGGT <b>G</b> - <b>A</b> GG <b>C</b> T <b>T</b> TGGACTCTG <b>A</b> CT <b>A</b> CAGT <b>G</b> AT-- <b>C</b> AGAGTTCAAG <b>T</b> CT <b>C</b> A <b>G</b> T <b>G</b> -GGACCT...	1
tRNA <sup>Gln</sup> CUG_V13	...GGTTCATG <b>A</b> TGTAAATGGT <b>G</b> -AGC <b>G</b> C <b>T</b> TGGACTCTG <b>A</b> G <b>T</b> AC <b>G</b> GT <b>G</b> AT-- <b>C</b> AG <b>C</b> GT <b>T</b> CAAG <b>T</b> CT <b>C</b> A <b>G</b> T <b>G</b> -GGACCT...	1
tRNA <sup>Gln</sup> CUG_V14	...GG <b>C</b> A <b>G</b> TATGGT <b>A</b> GAGTGGTT- <b>A</b> GA <b>T</b> CAT <b>G</b> A <b>A</b> CTCTGAAG <b>T</b> CAGAGATA <b>C</b> TTGA <b>A</b> TT <b>G</b> AAT <b>G</b> CTGGT <b>T</b> CT <b>G</b> T <b>C</b> A...	1
tRNA <sup>Gln</sup> CUG_V15	GT <b>G</b> AG <b>A</b> CT <b>G</b> CA <b>C</b> AG <b>CC</b> AGTGGT <b>G</b> - <b>C</b> AGGG <b>C</b> AT <b>G</b> G-CTCTG <b>A</b> CA <b>CC</b> T <b>G</b> G- <b>C</b> G <b>CC</b> T <b>G</b> GGTTCAAAT <b>C</b> CA <b>G</b> CT <b>T</b> CT <b>A</b> C...	1
tRNA <sup>Gln</sup> CUG_V16	...GGT <b>A</b> G <b>T</b> GTAGT <b>C</b> TACTGGTT-AA <b>A</b> CG <b>C</b> T <b>T</b> GGG <b>C</b> TG <b>A</b> C <b>A</b> TT <b>A</b> A-- <b>C</b> GT <b>C</b> T <b>G</b> GGTTCAAAT <b>C</b> CA <b>G</b> CT <b>T</b> T <b>G</b> T <b>C</b> A...	1
tRNA <sup>Gln</sup> CUG_V17	... <b>G</b> A <b>G</b> CT <b>G</b> T <b>A</b> -- <b>G</b> CATAGT <b>A</b> TT- <b>A</b> GG <b>A</b> CAT <b>G</b> GACTCT <b>G</b> A <b>G</b> CC <b>A</b> AAT <b>C</b> TG <b>C</b> CT <b>G</b> GGT <b>T</b> CTAG <b>T</b> CC <b>A</b> G <b>T</b> CT <b>G</b> T <b>C</b> T <b>C</b> A...	1
tRNA <sup>Gln</sup> CUG_V18	... <b>C</b> TAG <b>G</b> A <b>C</b> TGGTGTAAAT <b>A</b> GGT-AGCAC <b>A</b> G <b>A</b> GA <b>A</b> TTCT <b>G</b> AT <b>T</b> CT <b>C</b> AG <b>G</b> G-- <b>G</b> TAGGTTCAAT <b>T</b> C <b>T</b> AT <b>A</b> G-- <b>A</b> AC <b>T</b> AG <b>G</b>	1
tRNA <sup>Gln</sup> CUG_V19	...GG <b>C</b> A <b>G</b> TGTAG <b>CC</b> CAGAGGTT <b>C</b> A <b>GG</b> G <b>C</b> AT <b>TC</b> GCTCT <b>G</b> TAT <b>C</b> AG <b>A</b> GGG <b>T</b> CTGGGTTCAAAT <b>C</b> CT <b>T</b> T <b>G</b> T <b>C</b> ACT <b>G</b> CT <b>T</b> .	1

# F

		Genome loci
tRNA <sup>Lys</sup> UUU-V1	GCCCCGGATAGCTCAGTCGGGTAGAGC-ATCAGACTTTTAAATCTGAGGGTCCAGGGTTCAAGTCCCTGTTTCGGGCG	5
tRNA <sup>Lys</sup> UUU-V2	GCCCCGGATAGCTCAGTCGGGTAGAGC-ATCAGACTTTTAAATCTGAGGGTCCGGGGTTCAAGTCCCTGTTTCGGGCG	1
tRNA <sup>Lys</sup> UUU-V3	GCC <sup>T</sup> GGATAGCTCAGTCGGGTAGAGC-ATCAGACTTTTAAATCTGAGGGTCCAGGGTTCAAGTCCCTGTTCA <sup>AGGCG</sup>	1
tRNA <sup>Lys</sup> UUU-V4	GCC <sup>T</sup> GGATAGCTCAGT <sup>T</sup> GGTAGAGC-ATCAGACTTTTAAATCTGAGGGTCCAGGGTTCAAGTCCCTGTTCA <sup>AGGCG</sup>	1
tRNA <sup>Lys</sup> UUU-V5	GCC <sup>T</sup> GGATAGCTCAGT <sup>T</sup> GGTAGAGC-ATCAGACTTTTAAATCTGAGGGTCCAGGGTTCAAGTCCCTGTTCA <sup>AGGCA</sup>	1
tRNA <sup>Lys</sup> UUU-V6	GCC <sup>T</sup> GG <sup>G</sup> TAGCTCAGTCGGGTAGAGC-ATCAGACTTTTAAATCTGAGGGTCCAGGGTTCAAGTCCCTGT <sup>CC</sup> AGGCG	1
tRNA <sup>Lys</sup> UUU-V7	GCCCCGGA <sup>G</sup> AGCTCAGT <sup>G</sup> GGTAGAGC-ATCAGACTTTTAAATCTGAGGGTCCAGGGTTCAAGTCC <sup>TC</sup> GTTTCGGGCA	1
tRNA <sup>Lys</sup> UUU-V8	GCC <sup>T</sup> GGATAGCTCAGT <sup>T</sup> GGTAGA <sup>AC</sup> -ATCAGACTTTTAAATCTGA <sup>CGGT</sup> GCAGGGTTCAAGTCCCTGTTCA <sup>AGGCG</sup>	1
tRNA <sup>Lys</sup> UUU-V9	<sup>ACCC</sup> AGATAGCTCAGTCA <sup>GT</sup> AGAGC-ATCAGACTTTTAAATCTGAGGGTCCA <sup>AGGTTCA</sup> TGTCCCT <sup>TTTT</sup> TGGG <sup>TG</sup>	1
tRNA <sup>Lys</sup> UUU-V10	<sup>ACCT</sup> GG <sup>G</sup> TAGCTCAGT <sup>AGG</sup> TAGA <sup>AC</sup> -ATCAGACTTTTAAATCTGAGGGT <sup>CT</sup> AGGGTTCAAGTCCCTGT <sup>CC</sup> AGGCG	1
tRNA <sup>Lys</sup> UUU-V11	GCC <sup>AGG</sup> ATAG <sup>TTC</sup> AG <sup>GT</sup> GGTAGAGC-ATCAGACTTTTAA <sup>CCT</sup> GAGGGT <sup>TC</sup> AGGGTTCAAGT <sup>CT</sup> CTGTT <sup>TGGGCG</sup>	1
tRNA <sup>Lys</sup> UUU-V12	<sup>ACCC</sup> AGATAGCTCAGT <sup>TG</sup> ATAGAGC-ATCAGACTTTTAAATCTGAGGGTCCAGGGTTCA <sup>TGT</sup> CCCTGTT <sup>CTTAA</sup>	1
tRNA <sup>Lys</sup> UUU-V13	GCC <sup>T</sup> GG <sup>G</sup> TAGCTCAGTCGGGTAGAGC <sup>TAT</sup> CAGACTTTT <sup>AGCCT</sup> GAGGA <sup>ATTC</sup> AGGGTTCA <sup>ATCCCT</sup> TG <sup>CT</sup> GGGGCG	1
tRNA <sup>Lys</sup> UUU-V14	<sup>ACCT</sup> GG <sup>G</sup> TAGCT <sup>T</sup> AGT <sup>T</sup> GGTAGAGC-AT <sup>TGG</sup> ACTTTTAA <sup>TT</sup> GAGGG <sup>CC</sup> AGG <sup>TTT</sup> CAAGTCCCTGTT <sup>TGGG</sup> TG	1
tRNA <sup>Lys</sup> UUU-V15	<sup>GTT</sup> GGG <sup>GTA</sup> ACTCAGT <sup>T</sup> GGTAGAG <sup>T</sup> -AGCAGACTTTT <sup>CAT</sup> CTGAGGGTCCAGGGTT <sup>TAAGTCC</sup> ATGT <sup>CC</sup> AGGCA	1
tRNA <sup>Lys</sup> UUU-V16	. <sup>.TCCT</sup> ATAGCCAGT <sup>GAT</sup> TAG <sup>GAT</sup> - <sup>TCTTTG</sup> CTTTTACT <sup>ACC</sup> ATGACT <sup>TGGG</sup> -TTCAAT <sup>ACCC</sup> AGT <sup>CAGGGAA</sup>	1
tRNA <sup>Lys</sup> UUU-V17	. <sup>ACC</sup> TGT <sup>GGTAC</sup> AGGGG <sup>CTA</sup> ATAT- <sup>GCTGGG</sup> C <sup>TTTACC</sup> ACT <sup>TCAG</sup> CCAGG- <sup>TTCG</sup> ATTCC <sup>TGGT</sup> CAGGGAA	1

# G

		Genome loci
tRNA <sup>Gly</sup> GCC-V1	GCATTGGTGGTTTCAGTGGTAGAATTCTCGCCTGCCACGCGGGAGGCC <sup>C</sup> GGGTTTCGATTCCC <sup>CGCC</sup> AAATGCA	6
tRNA <sup>Gly</sup> GCC-V2	GCAT <sup>GGG</sup> TGGTTTCAGTGGTAGAATTCTCGCCTGCCACGCGGGAGGCC <sup>CGG</sup> TTCGATTCCC <sup>CGCC</sup> CATGCA	5
tRNA <sup>Gly</sup> GCC-V3	GCATTGGTGGTTTCAGTGGTAGAATTCTCGCCTGCCACGCGGGAGGCC <sup>CGG</sup> T <sup>T</sup> GATTCCC <sup>CGCC</sup> AG <sup>T</sup> GCA	1
tRNA <sup>Gly</sup> GCC-V4	GCATTGGTGGTTTCAGTGGTAGAATTCTCGCCTGCCA <sup>T</sup> GCGGG <sup>CGG</sup> CC <sup>GGG</sup> CTTCGATTCC <sup>TGG</sup> CCAATGCA	1
tRNA <sup>Gly</sup> GCC-V5	GCAT <sup>AGG</sup> TGGTTTCAGTGGTAGAATTCT <sup>TG</sup> CCCTGCCACGC <sup>AGG</sup> AGGCC <sup>AGG</sup> TT <sup>T</sup> GATTCC <sup>TGG</sup> CCATGCA	1
tRNA <sup>Gly</sup> GCC-V6	GCAT <sup>GGG</sup> TG <sup>ATT</sup> CAGTGGTAGAATT <sup>TT</sup> CA <sup>CT</sup> GCCAT <sup>GC</sup> AGGAGG <sup>TCC</sup> AGGTT <sup>CAT</sup> TTCC <sup>TGG</sup> CC <sup>T</sup> ATGCA	1

*Honda et al. Figure S9*