

*Tissue-specific differences of human tRNA expression.*

Table S2. Sequences of Human probes for chromosomal encoded tRNA genes.

Probe name	Sequence (5' - 3') <sup>a</sup>
Ala-IGC	TGGAGAATGYGGGCGTCGATCCC <b>R</b> CTACCTCTYGCATGCTAAGCRAGCGCTCTACCRCTGAGCTAATTCCCC
Ala-hGC	TGGAGRTGCCGGGGATYGAACCCGGGR <b>C</b> CTCRTRCATGCSAAGCAYGCGCTCTACCACTGAGCTACAYCCCC
Arg-ICG	CGAGCCAGCCAGGAGTCGAACCT <b>R</b> GAACTCTTCTGATCCGTAGTCAGACGCGTTATCCATTGCGCCACTGGCCC
Arg-YCG	CAACCACGRAGGGACTCGAACCCTCAATCTTCTGATCCG <b>R</b> ARTCAGACGCCTTATCCATTAGGCCACGCGGCC
Arg-CCT	TACCCAGGTGGGACTCGAACCACAATCCCTGGCTTAGGAGGCCAGTGCCTTATCCATTAGGCCACTGGGGC
Arg-TCT	CGACTCTGCYGGGACTCGAACCCG <b>W</b> AACCTTTGAATTAGAAGTCCAATGCGCTATCCATTGCGCCACAGAGCC
Asn-GTT	CGTCCCTGGGTGGGCTCGAACCACCAACCTTTCGGTTAACAGCCGAACGCGCTAACCGATTGCGCCACAGAGAC
Asp-GTC	CTCCCCGTCGGGGAATCGAACCCCGGTCTCCCGCTGACAGGCGGGGATACTCACCCTATACTAACGAGGA
Cys-GCA	AGGGGGCACCYGGATT <b>T</b> GAAACCRGGGACCTCTTGATCTGCAGTCAAATGCTCTACCMCTGAGCTATACCCCC
Gln-YTG	AGGTTCCACCGAGAYTTGAACTCGGATCGCTGGATT <b>C</b> ARAGTCCAGAGTGCTHACCATTACACCATGG <b>R</b> ACC
Glu-YTC	TTCCCTGACCGGAATCGAACCCGGGGCC <b>W</b> MGGCGGTGARAGCGCCGAATCCTARCCACTAGACCACCAGG <b>R</b>
Glu-TTC	TTCCCA <b>Y</b> ACCGGGAGTCGAACCCGGGGC <b>R</b> CCTGGGTGAAACCAGGAATCCTAACCGCTAGACCAT <b>R</b> TGGGA
Gly-SCC	TGCATTGGCC <b>R</b> GGAATYGAACCCGGGYCTCC <b>R</b> CGTGGWAGGCGAGAATTCTACCACTG <b>M</b> ACCACCM <b>Y</b> AGC
Gly-TCC	TGCGTTGGCCGGGAATCGAACCCGGGTCAACTGCTTGGAAGGCAGCTATGCTCACCCTATAACCACCAACGC
His-GTG	TGCCGTGACTCGGATT <b>C</b> GAAACCGAGGTTGCTGCGGCCACAACGCAGAGTACTAACCACTATACGATCACGGC
Ile-IAT	TGGCC <b>M</b> GTACGGGGATCGAACCCGCGACCTTGCGGTTATTAGCACCACGCTCTAACCAACTGAGCTAAC <b>R</b> GCC
Ile-TAT	TGCTCCAGGTGAG <b>G</b> MTCGAACTCACAACCTCGGCATTATAAGTACCGCGCGCTAACCGATTGCGCCACTGGAGC
Leu-wAG	TGGCAGYGGTGGGATT <b>C</b> RAACCCACGCCYCCGAARAGACTGGAGCCTTAATCCAGCGCCTTAGACC <b>R</b> CTCGGCCAC <b>R</b> CTA
Leu-CAG	TGTCARAAGTGGGATT <b>C</b> GAAACCCACGCCTCCAGWGGAGG <b>W</b> TGCGATTTGAACGCAGCGCCTTAAGACYGCTCGGCCATCC
Leu-CAA	TGTCAGAAGTGGGATT <b>C</b> GAAACCCACGCCTCCATTGGAGACCAGAACTTGAGTCTGGCGCCTTAGACCACTCGGCCATCC
Leu-TAA1	TACCRGGAGTGGGGYTCGAACCCACGCGGACAY <b>C</b> SGTCCATTGGATCTTAAGTCCAACGCCTTAACCACT <b>C</b> RGCCATCC
Leu-TAA2	TGTTAA <b>K</b> RAGAGGAGTTGAACCTCTGATTATAAA <b>R</b> TTTTTAAGTYTTATGCAATT <b>R</b> CC <b>R</b> GGCTCTGCCATCTTAAC
Lys-CTT	CGCCCAACGTGGGGCTCGAACCCACGACCCTGAGATTAAAGAGTCTCATGCTCTACCGACTGAGCTAGCCGGGC
Lys-TTT1	CGCCYGAACAGGGACTTGAACCC <b>T</b> GGACCCTCAGATTAAAGTCTGATGCTCTACCR <b>A</b> CTGAGCTATCC <b>R</b> GGC
Lys-TTT2	CACCCAAAAGGGACATGAACCTTGGACCCTCAGATTAAAGTCTGATGCTCTACTGACTGAGCTATCTGGGT
Lys-TTT3	CGCCTGGACAGGGACTTGAACCCTAGACCCTCAGATTAAAGTCTGATGTTCTACCTACTGAGCTACCCAGGT
Met-i	TAGCAGAGGATGGTTTTCGATCCATCGACCTCTGGGTTATGGGCCCAGCACGCTTCCGCTGCGCCACTCTGCT
Met-e	TGCCC <b>Y</b> CTCTGAGGCTCGAACTCAGGACCTTCAGATTATGAGACTGACGCGCTGCC <b>H</b> RCTGCGCTAAG <b>R</b> RGGC
Phe-GAA	TG <b>C</b> YGAAACCCGGGATYGAACCAGGGACCTTTAGATCTTCAGTCTAACGCTCTCCCAACTGAGCTATTTCCGC
Pro-hGG	GGGCTCGTCCGGGATTTGAACCCGGGACCTCTCGCACCC <b>D</b> AAGCGAGAATCATACCCCTAGACCAACGAGCC
Sec-TCA	TGACCACAAAGGGACTCAAACCTCAATCTTCTGATCTGAAGTCAGACACCTTATCCATTAAGGCCACACGGTC
Ser-CGA	GCTGTGAGCAGGATTTGAACCTGCGCGGGGARACCCCAATTGGATTT <b>C</b> GAGTCCAACGCCTTAACCACTCGGCCATCAG
Ser-wGA	GTAGYCGGCAGGATTCGAACCTGCGCGGGGARACCCCAATGGATTT <b>C</b> SAGTCCATCGCCTTAACCACTCGGCCACGACTA
Ser-GCT	GACGAG <b>R</b> TGGGATTCGAACCCACGYGTGCAGAGCACAAATGGATTAGCAGTCCATCGCCTTAACCACTCGGCCACCTCGT

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Thr-mGT	AGGCCCC <b>R</b> CTGGGA <b>K</b> TCGAACCCAGGATCTCCTGTTTAC <b>K</b> AGACAGGCGCTTTAACC <b>A</b> RCTAAGCCAY <b>Y</b> R <b>G</b> NGCC
Thr-TGT1	AGGCCCCAGCGAGATT <b>Y</b> GAACTCGCGACCCCTGGTTTACAAGACCAGTGCTCTAACC <b>M</b> CTGAGCTATGGAGCC
Thr-CGT1	AGGCCCTGGTGAGATTTGAACCTCACGACCCCTAGGTTTACGAGACCAGCGCTCCAACCGCTGAGCTACAGGGCC
Thr-TGT2	TGCTGCTCACAGGACTCGAACCTGCATTTCCATCCTTACAAGGGATGTGTAATAGCCAATTATACGAAAGCAGC
Thr-CGT2	AGGCACGGACGGGGTTTCGAACCCG <b>Y</b> GATCTTCGGTTTACGAGACCGACGCCTTACCACTTGGCCACCGCGCC
Trp-CCA	TGACCCCGACGTGATTTGAACACGCAACCTTCTGATCTGGAGTCAGACGCGCTACCGTTGCGCCACGAGGTC
Tyr-GTA	TCCTTCGAGCCGG <b>A</b> STCGAACCCAGCGACCTAAGGATCTACAGTCCTCCGCTCTACCA <b>R</b> CTGAGCTATCGAAGG
Val-mAC	TGTTTC <b>Y</b> GCC <b>Y</b> GGTTTCGAACCC <b>R</b> GGGACCTTTCGCGTG <b>T</b> KAGGCGAACGTGATAACCACTACACTAC <b>R</b> GAAAC
Val-TAC	TGGTTCCACTGGGGCTCGAACCCAGGACCTTCTGCGTGTAAGCAGACGTGATAACCACTACACTATGGAACC
E.coli tRNA <sup>Lys</sup>	TGGGTCGTGCAGGATTTCGAACCTGCGACCAATTGATTAAAAAGTCAACTGCTCTACCAACTGAGCTAACGACCC
E.coli tRNA <sup>Tyr</sup>	TGGGGGAAGGATTTCGAACCTTCGAAGTCGATGACGGCAGATTTACAGTCTGCTCCCTTTGGCCGCTCGGGAAACCCACC
Yeast tRNA <sup>Phe</sup>	TGCGAATTCTGTGGATCGAACACAGGACCTCCAGATCTTCAGTCTGGCGCTCTCCCAACTGAGCTAAATCCGC

a. M = A/C; K = G/T; S = G/C; D = A/G/T; W = A/T; H = A/C/T.