

Table S4. Overall relative synonymous codon usage (RSCU) values in the coding sequences of 13 mitochondrial genes from different mitochondrial genome of five *Japanagallia* species.

ATP6								
Amino Acid	Codon	N	RSCU ^a	Amino Acid	Codon	N	RSCU ^a	
Ala A	GCU*	4.8	2.46	Leu L	UUC	4.6	0.78	
	GCC	0.8	0.41		UUA*	18.4	3.37	
	GCA*	2	1.03		UUG	1.2	0.22	
	GCG	0.2	0.1		CUU	5	0.91	
Arg R	CGU*	0.6	1.2	Pro P	CUC	0.4	0.07	
	CGC	0	0		CUA*	7.6	1.39	
	CGA*	1.4	2.8		CUG	0.2	0.04	
	CGG	0	0		CCU*	4.8	2.09	
Asn N	AAU*	9.6	1.26	Ser S	CCC	0.2	0.09	
	AAC	5.6	0.74		CCA*	4.2	1.83	
Asp D	GAU	0.4	0.8	Thr T	CCG	0	0	
	GAC*	0.6	1.2		UCU*	3.4	1.36	
Cys C	UGU	0.6	0.55	Val V	UCC	0.8	0.32	
	UGC*	1.6	1.45		UCA*	6.8	2.72	
Gln Q	CAA*	2	2	Tyr Y	UCG	1	0.4	
	CAG	0	0		AGU	0.6	0.24	
Clu E	GAA*	4	2	Trp W	AGC	0.2	0.08	
	GAG	0	0		AGA*	7.2	2.88	
	GGU	1.6	0.71		AGG	0	0	
Gly G	GGC	0.6	0.27	Trp W	ACU*	5.6	1.2	
	GGA*	4.8	2.13		ACC	1.8	0.39	
	GGG	2	0.89		ACA*	11.2	2.41	
	CAU*	1.6	1.07		ACG	0	0	
His H	CAC	1.4	0.93	Val V	UAU*	3.8	1.23	
	AUU*	17.2	1.58		UAC	2.4	0.77	
Ile I	AUC	4.6	0.42	Trp W	GUU*	2.4	1.17	
	AAA*	7.8	1.81		GUC	0	0	
Lys K	AAG	0.8	0.19	Trp W	GUA*	5.6	2.73	
	AUA*	27.4	1.81		GUG	0.2	0.1	
Met M	AUG	2.8	0.19		UGA*	3.6	1.8	
	UUU*	7.2	1.22		UGG	0.4	0.2	

ATP8

Amino Acid	Codon	N	RSCU ^a	Amino Acid	Codon	N	RSCU ^a
Ala A	GCU	0.2	0.8	Leu L	UUC	0	0
	GCC	0	0		UUA*	3.2	3.56
	GCA*	0.8	3.2		UUG	0.2	0.22
	GCG	0	0		CUU*	1	1.11
Arg R	CGU	0	0	Pro P	CUC	0.2	0.22
	CGC	0	0		CUA	0.8	0.89
	CGA	0	0		CUG	0	0
	CGG	0	0		CCU*	1.4	2.55
Asn N	AAU*	4.2	1.4	Ser S	CCC	0.2	0.36
	AAC	1.8	0.6		CCA*	0.6	1.09
Asp D	GAU*	0.2	2		CCG	0	0
	GAC	0	0		UCU	0	0
Cys C	UGU	0	0	UCC	0.2	0.57	
	UGC	0	0		UCA*	1.4	4
Gln Q	CAA*	1	2	Thr T	UCG	0	0
	CAG	0	0		AGU	0	0
Clu E	GAA	0	0		AGC	0.2	0.57
	GAG	0	0		AGA*	1	2.86
Gly G	GGU	0	0	AGG	0	0	
	GGC	0	0		ACU*	2	2.11
	GGA	0	0		ACC	0.2	0.21
	GGG	0	0		ACA*	1.6	1.68
His H	CAU	0	0	ACG	0	0	
	CAC*	0.2	2		UAU	0.8	0.73
Ile I	AUU*	5	1.85	Tyr Y	UAC*	1.4	1.27
	AUC	0.4	0.15		GUU	0	0
Lys K	AAA*	5.8	1.93	Val V	GUC	0	0
	AAG	0.2	0.07		GUA*	0.4	4
Met M	AUA*	6.6	2	Trp W	GUG	0	0
	AUG	0	0		UGA*	4	2
Phe F	UUU*	2.8	2		UGG	0	0

COX1

Amino Acid	Codon	N	RSCU ^a	Amino Acid	Codon	N	RSCU ^a
Ala A	GCU*	11.2	1.93	Leu L	UUC	11.6	0.59
	GCC	1	0.17		UUA*	29.8	3.52
	GCA*	10.2	1.76		UUG	2.6	0.31
	GCG	0.8	0.14		CUU	7	0.83
Arg R	CGU	1.4	0.7	Pro P	CUC	1	0.12
	CGC	0	0		CUA*	9.4	1.11
	CGA*	6.6	3.3		CUG	1	0.12
	CGG	0	0		CCU*	10.2	1.63
Asn N	AAU*	15	1.46		CCC	2	0.32
	AAC	5.6	0.54		CCA*	12.4	1.98
Asp D	GAU*	9.8	1.4	Ser S	CCG	0.4	0.06
	GAC	4.2	0.6		UCU*	13.4	2.11
Cys C	UGU*	0.2	2		UCC	4.8	0.76
	UGC	0	0		UCA*	19.8	3.12
Gln Q	CAA*	7.2	1.8		UCG	1.4	0.22
	CAG	0.8	0.2		AGU	0.8	0.13
Clu E	GAA*	8.2	1.82		AGC	0.8	0.13
	GAG	0.8	0.18		AGA*	8.6	1.35
Gly G	GGU*	10.8	1.03	Thr T	AGG	1.2	0.19
	GGC	0.6	0.06		ACU*	15	1.79
	GGA*	23.8	2.27		ACC	4.4	0.52
	GGG	6.8	0.65		ACA*	13.4	1.6
His H	CAU*	10.8	1.35		ACG	0.8	0.1
	CAC	5.2	0.65		UAU*	10.2	1.15
Ile I	AUU*	42.4	1.56	Tyr Y	UAC	7.6	0.85
	AUC	12	0.44		GUU*	7.8	1.08
Lys K	AAA*	9	1.76		GUC	1	0.14
	AAG	1.2	0.24		GUA*	18.6	2.58
Met M	AUA*	40.2	1.82	Val V	GUG	1.4	0.19
	AUG	4	0.18		UGA*	12.8	1.71
Phe F	UUU*	27.4	1.41		UGG	2.2	0.29

COX2

Amino Acid	Codon	N	RSCU ^a	Amino Acid	Codon	N	RSCU ^a
Ala A	GCU*	1.4	1.22	Leu L	UUC	3.8	0.55
	GCC	0.6	0.52		UUA*	14.8	4.11
	GCA*	2.2	1.91		UUG	0.2	0.06
	GCG	0.4	0.35		CUU	1.4	0.39
Arg R	CGU*	1.8	1.03	Pro P	CUC	0.2	0.06
	CGC	0.2	0.11		CUA*	4.8	1.33
	CGA*	4.8	2.74		CUG	0.2	0.06
	CGG	0.2	0.11		CCU*	3.6	1.26
Asn N	AAU*	6.2	1.02	Ser S	CCC	1	0.35
	AAC	6	0.98		CCA*	6.4	2.25
Asp D	GAU*	5	1.25		CCG	0.4	0.14
	GAC	3	0.75		UCU*	4.8	1.78
Cys C	UGU	0.8	0.8	Gln Q	UCC	1.6	0.59
	UGC*	1.2	1.2		UCA*	10.8	4
Gln Q	CAA*	7.6	1.9		UCG	0.8	0.3
	CAG	0.4	0.1		AGU	0.6	0.22
Clu E	GAA*	10.2	1.85	Gly G	AGC	0.2	0.07
	GAG	0.8	0.15		AGA*	2.8	1.04
Gly G	GGU	1.2	0.6		AGG	0	0
	GGC	0	0		ACU*	4.4	1.26
	GGA*	6	3		ACC	1.2	0.34
	GGG	0.8	0.4		ACA*	8.2	2.34
His H	CAU*	4.4	1.63	Tyr Y	ACG	0.2	0.06
	CAC	1	0.37		UAU*	5.2	1.49
Ile I	AUU*	22.4	1.6		UAC	1.8	0.51
	AUC	5.6	0.4	Lys K	GUU*	3.2	1.56
Lys K	AAA*	8.8	1.96		GUC	0.6	0.29
	AAG	0.2	0.04		GUA*	3.8	1.85
Met M	AUA*	18.6	1.92	Trp W	GUG	0.6	0.29
	AUG	0.8	0.08		UGA*	5.8	2
Phe F	UUU*	10	1.45		UGG	0	0

COX3

Amino Acid	Codon	N	RSCU ^a	Amino Acid	Codon	N	RSCU ^a
Ala A	GCU*	1.2	1.09	Leu L	UUC	9	0.83
	GCC	0.4	0.36		UUA*	12.6	3.32
	GCA*	2.8	2.55		UUG	0.8	0.21
	GCG	0	0		CUU	3.6	0.95
Arg R	CGU*	0.8	1.07	Pro P	CUC	0.4	0.11
	CGC	0	0		CUA*	4.6	1.21
	CGA*	2.2	2.93		CUG	0.8	0.21
	CGG	0	0		CCU*	2.8	1.24
Asn N	AAU*	8.6	1.3	Ser S	CCC	0.6	0.27
	AAC	4.6	0.7		CCA*	5.6	2.49
Asp D	GAU*	3	1.43	Thr T	CCG	0	0
	GAC	1.2	0.57		UCU*	5.2	1.33
Cys C	UGU	0	0	Tyr Y	UCC	1.6	0.41
	UGC	0	0		UCA*	15.8	4.05
Gln Q	CAA*	4.6	1.84	Val V	UCG	1	0.26
	CAG	0.4	0.16		AGU	0.6	0.15
Clu E	GAA*	6	1.76	Trp W	AGC	0.4	0.1
	GAG	0.8	0.24		AGA*	6	1.54
Gly G	GGU*	4.2	1.04	Tyr Y	AGG	0.6	0.15
	GGC	0.6	0.15		ACU*	5.2	1.24
	GGA*	9.8	2.42		ACC	1.4	0.33
	GGG	1.6	0.4		ACA*	9.8	2.33
His H	CAU*	7.2	1.2	Val V	ACG	0.4	0.1
	CAC	4.8	0.8		UAU*	5.6	1.3
Ile I	AUU*	21.4	1.55	Trp W	UAC	3	0.7
	AUC	6.2	0.45		GUU*	3.2	1.14
Lys K	AAA*	6.4	1.88	Tyr Y	GUC	0.2	0.07
	AAG	0.4	0.12		GUA*	7.4	2.64
Met M	AUA*	24.2	1.82	Phe F	GUG	0.4	0.14
	AUG	2.4	0.18		UGA*	11	1.83
Phe F	UUU*	12.6	1.17		UGG	1	0.17

CYTB

Amino Acid	Codon	N	RSCU^a	Amino Acid	Codon	N	RSCU^a
Ala A	GCU*	5	1.19	Leu L	UUC	9.6	0.77
	GCC	1.4	0.33		UUA*	27.6	3.55
	GCA*	9.8	2.33		UUG	1.4	0.18
	GCG	0.6	0.14		CUU	4	0.52
Arg R	CGU	0.8	0.47	Pro P	CUC	0.8	0.1
	CGC	0.2	0.12		CUA*	12.6	1.62
	CGA*	4.8	2.82		CUG	0.2	0.03
	CGG	1	0.59		CCU*	6.8	1.36
Asn N	AAU*	12.8	1.14		CCC	1.2	0.24
	AAC	9.6	0.86		CCA*	11.6	2.32
Asp D	GAU*	6.4	1.33	Ser S	CCG	0.4	0.08
	GAC	3.2	0.67		UCU*	6.4	1.78
Cys C	UGU*	1	1		UCC	2.2	0.61
	UGC*	1	1		UCA*	14.2	3.94
Gln Q	CAA*	4.8	2		UCG	0.4	0.11
	CAG	0	0		AGU	0.2	0.06
Clu E	GAA*	6	2		AGC	0.2	0.06
	GAG	0	0		AGA*	4.6	1.28
Gly G	GGU	3.2	0.56	Thr T	AGG	0.6	0.17
	GGC	0.4	0.07		ACU*	7.8	1.39
	GGA*	16	2.81		ACC	2.2	0.39
	GGG	3.2	0.56		ACA*	11.8	2.11
His H	CAU*	4.8	1.07		ACG	0.6	0.11
	CAC	4.2	0.93		UAU*	10	1.16
Ile I	AUU*	33.4	1.58	Tyr Y	UAC	7.2	0.84
	AUC	9	0.42		GUU*	3.8	1.17
Lys K	AAA*	14.2	1.89		GUC	0.2	0.06
	AAG	0.8	0.11		GUA*	8.8	2.71
Met M	AUA*	32	1.93	Val V	GUG	0.2	0.06
	AUG	1.2	0.07		UGA*	11.4	1.93
Phe F	UUU*	15.2	1.23		UGG	0.4	0.07

ND1

Amino Acid	Codon	N	RSCU^a	Amino Acid	Codon	N	RSCU^a
Ala A	GCU*	2.6	3.47	Leu L	UUC	2.2	0.09
	GCC	0.2	0.27		UUA*	31.6	4.03
	GCA	0.2	0.27		UUG*	9.4	1.2
	GCG	0	0		CUU	4.6	0.59
Arg R	CGU*	5.2	2.97	Pro P	CUC	0.2	0.03
	CGC	0.2	0.11		CUA	1.2	0.15
	CGA	0.4	0.23		CUG	0	0
	CGG	1.2	0.69		CCU*	6.2	2.7
Asn N	AAU*	8.2	1.95	Ser S	CCC	0.8	0.35
	AAC	0.2	0.05		CCA	2.2	0.96
Asp D	GAU*	5.4	1.86		CCG	0	0
	GAC	0.4	0.14		UCU*	18.8	3.82
Cys C	UGU*	14	1.92		UCC	0.6	0.12
	UGC	0.6	0.08		UCA*	5.4	1.1
Gln Q	CAA	2	0.8		UCG	0.2	0.04
	CAG*	3	1.2		AGU*	5.8	1.18
Clu E	GAA	4	0.8		AGC	0.2	0.04
	GAG*	6	1.2		AGA*	7	1.42
Gly G	GGU*	8.4	2.21	Thr T	AGG	1.4	0.28
	GGC	1.2	0.32		ACU*	5.2	3.71
	GGA	2.4	0.63		ACC	0	0
	GGG	3.2	0.84		ACA	0	0
His H	CAU*	1.4	2	Tyr Y	ACG	0.4	0.29
	CAC	0	0		UAU*	23.8	1.93
Ile I	AUU*	24.6	1.94	Val V	UAC	0.8	0.07
	AUC	0.8	0.06		GUU*	11.6	2.61
Lys K	AAA	1.4	0.34		GUC	1.2	0.27
	AAG*	6.8	1.66		GUU	4	0.9
Met M	AUA*	8	1.57	Trp W	GUG	1	0.22
	AUG	2.2	0.43		UGA*	5	1.28
Phe F	UUU*	44.8	1.91		UGG	2.8	0.72

ND2

Amino Acid	Codon	N	RSCU^a	Amino Acid	Codon	N	RSCU^a
Ala A	GCU*	3	1.71	Leu L	UUC	4.6	0.5
	GCC	0.6	0.34		UUA*	26.2	3.29
	GCA*	3.4	1.94		UUG	4.4	0.55
	GCG	0	0		CUU	6	0.75
Arg R	CGU*	1	2	Pro P	CUC	1.2	0.15
	CGC	0	0		CUA*	9.6	1.21
	CGA*	1	2		CUG	0.4	0.05
	CGG	0	0		CCU*	3	1.94
Asn N	AAU*	17.6	1.56		CCC	0.2	0.13
	AAC	5	0.44		CCA*	2.4	1.55
Asp D	GAU*	0.2	2	Ser S	CCG	0.6	0.39
	GAC	0	0		UCU*	8	1.52
Cys C	UGU*	0.8	1.33		UCC	1.8	0.34
	UGC	0.4	0.67		UCA*	19.8	3.77
Gln Q	CAA*	5	1.92		UCG	0.4	0.08
	CAG	0.2	0.08		AGU	3.4	0.65
Clu E	GAA*	7.6	1.9		AGC	0.8	0.15
	GAG	0.4	0.1		AGA*	7.8	1.49
Gly G	GGU	2.2	0.94	Thr T	AGG	0	0
	GGC	0.8	0.34		ACU*	6.6	1.81
	GGA*	3.2	1.36		ACC	0.8	0.22
	GGG*	3.2	1.36		ACA*	7.2	1.97
His H	CAU	0.4	0.67	Tyr Y	ACG	0	0
	CAC*	0.8	1.33		UAU*	6	1.22
Ile I	AUU*	31.2	1.68	Val V	UAC	3.8	0.78
	AUC	6	0.32		GUU*	4.4	1.69
Lys K	AAA*	16	1.84		GUC	0.6	0.23
	AAG	1.4	0.16		GUA*	5.4	2.08
Met M	AUA*	48.8	1.82	Trp W	GUG	0	0
	AUG	4.8	0.18		UGA*	6.4	1.64
Phe F	UUU*	13.8	1.5		UGG	1.4	0.36

ND3

Amino Acid	Codon	N	RSCU^a	Amino Acid	Codon	N	RSCU^a
Ala A	GCU	0.2	0.33	Leu L	UUC	4	0.75
	GCC	0.2	0.33		UUA*	9.8	3.46
	GCA*	2	3.33		UUG	0.6	0.21
	GCG	0	0		CUU	2	0.71
Arg R	CGU*	0.6	2.4	Pro P	CUC	0.2	0.07
	CGC	0.2	0.8		CUA*	4.4	1.55
	CGA	0.2	0.8		CUG	0	0
	CGG	0	0		CCU	0.8	0.8
Asn N	AAU*	2.8	1.17	Ser S	CCC	0	0
	AAC	2	0.83		CCA*	3.2	3.2
Asp D	GAU*	1.4	1.4		CCG	0	0
	GAC	0.6	0.6		UCU*	2	1.7
Cys C	UGU*	0.8	1.6	Thr T	UCC	0	0
	UGC	0.2	0.4		UCA*	3.6	3.06
Gln Q	CAA*	1.8	1.8		UCG*	1.2	1.02
	CAG	0.2	0.2		AGU	0.6	0.51
Clu E	GAA*	2.8	1.87	Val V	AGC	0	0
	GAG	0.2	0.13		AGA*	1.8	1.53
Gly G	GGU	0.4	0.53		AGG	0.2	0.17
	GGC	0	0		ACU*	2	1.33
	GGA*	2.4	3.2		ACC	0.8	0.53
	GGG	0.2	0.27		ACA*	3.2	2.13
His H	CAU*	0.6	1.2	Tyr Y	ACG	0	0
	CAC	0.4	0.8		UAU*	2.4	1.26
Ile I	AUU*	14	1.49		UAC	1.4	0.74
	AUC	4.8	0.51		GUU*	1.2	1.33
Lys K	AAA*	8	2	Trp W	GUC	0.2	0.22
	AAG	0	0		GUA*	1.8	2
Met M	AUA*	12.6	1.97		GUG	0.4	0.44
	AUG	0.2	0.03		UGA*	2.6	1.73
Phe F	UUU*	6.6	1.25		UGG	0.4	0.27

ND4

Amino Acid	Codon	N	RSCU^a	Amino Acid	Codon	N	RSCU^a
Ala A	GCU*	7.4	3.44	Leu L	UUC	3	0.08
	GCC	0.2	0.09		UUA*	44	4.2
	GCA	0.8	0.37		UUG	9.8	0.94
	GCG	0.2	0.09		CUU	6	0.57
Arg R	CGU*	3	2.4	Pro P	CUC	0.6	0.06
	CGC	0.4	0.32		CUA	1.8	0.17
	CGA	1.2	0.96		CUG	0.6	0.06
	CGG	0.4	0.32		CCU*	8.2	2.98
Asn N	AAU*	12.8	1.94		CCC	0.8	0.29
	AAC	0.4	0.06		CCA	1.8	0.65
Asp D	GAU*	4.8	1.78	Ser S	CCG	0.2	0.07
	GAC	0.6	0.22		UCU*	20.6	3.39
Cys C	UGU*	15.8	1.8		UCC	0.4	0.07
	UGC	1.8	0.2		UCA	4.8	0.79
Gln Q	CAA*	2	1.33		UCG	1.2	0.2
	CAG	1	0.67		AGU*	15.2	2.69
Clu E	GAA*	3.2	1.07		AGC	1	0.18
	GAG	2.8	0.93		AGA	2.6	0.46
Gly G	GGU*	15.2	2.69	Thr T	AGG	3.8	0.67
	GGC	1	0.18		ACU*	5.2	2.54
	GGA	2.6	0.46		ACC	0.4	0.2
	GGG	3.8	0.67		ACA*	2.2	1.07
His H	CAU*	7.8	1.95		ACG	0.4	0.2
	CAC	0.2	0.05		UAU*	33.8	1.85
Ile I	AUU*	40	1.86	Tyr Y	UAC	2.8	0.15
	AUC	3	0.14		GUU*	12.8	2.37
Lys K	AAA	3.2	0.86		GUC	0.8	0.15
	AAG*	4.2	1.14		GUA*	7	1.3
Met M	AUA*	19.4	1.4	Val V	GUG	1	0.19
	AUG	8.4	0.6		UGA*	3.6	1.2
Phe F	UUU*	71.4	1.92		UGG	2.4	0.8

ND4L

Amino Acid	Codon	N	RSCU ^a	Amino Acid	Codon	N	RSCU ^a
Ala A	GCU*	1	4	Leu L	UUC	0.2	0.04
	GCC	0	0		UUA*	11	3.27
	GCA	0	0		UUG*	3.6	1.07
	GCG	0	0		CUU*	4.4	1.31
Arg R	CGU*	2	4	Pro P	CUC	0	0
	CGC	0	0		CUA	1.2	0.36
	CGA	0	0		CUG	0	0
	CGG	0	0		CCU	0	0
Asn N	AAU*	2	2	Ser S	CCC	0	0
	AAC	0	0		CCA	0	0
Asp D	GAU*	1.4	1.4		CCG	0	0
	GAC	0.6	0.6		UCU*	2	2.29
Cys C	UGU*	3.8	1.9	Thr T	UCC	0	0
	UGC	0.2	0.1		UCA*	2.2	2.51
Gln Q	CAA	0	0		UCG	0	0
	CAG	0	0		AGU*	2.2	2.51
Clu E	GAA*	1.2	1.2	Tyr Y	AGC	0.2	0.23
	GAG	0.8	0.8		AGA	0	0
Gly G	GGU*	2.6	2.48		AGG	0.4	0.46
	GGC	0.2	0.19		ACU*	1	4
	GGA	1	0.95		ACC	0	0
	GGG	0.4	0.38		ACA	0	0
His H	CAU*	1.8	1.8	Val V	ACG	0	0
	CAC	0.2	0.2		UAU*	7.8	2
Ile I	AUU*	9	1.96		UAC	0	0
	AUC	0.2	0.04		GUU*	4.6	3.07
Lys K	AAA	0.2	0.4	Trp W	GUC	0.2	0.13
	AAG*	0.8	1.6		GUU	1.2	0.8
Met M	AUA*	5.6	1.27		GUG	0	0
	AUG	3.2	0.73		UGA*	0.8	1.6
Phe F	UUU*	10.4	1.96		UGG	0.2	0.4

ND5

Amino Acid	Codon	N	RSCU^a	Amino Acid	Codon	N	RSCU^a
Ala A	GCU*	8.2	2.73	Leu L	UUC	3.4	0.09
	GCC	0.6	0.2		UUA*	57	4.09
	GCA*	3.2	1.07		UUG	13.8	0.99
	GCG	0	0		CUU	9.2	0.66
Arg R	CGU*	3	2.4	Pro P	CUC	0.2	0.01
	CGC	0	0		CUA	3.2	0.23
	CGA*	1.8	1.44		CUG	0.2	0.01
	CGG	0.2	0.16		CCU*	4.6	2.3
Asn N	AAU*	23.8	1.89	Ser S	CCC	0.4	0.2
	AAC	1.4	0.11		CCA*	2.8	1.4
Asp D	GAU*	11	1.77		CCG	0.2	0.1
	GAC	1.4	0.23		UCU*	30.4	3.45
Cys C	UGU*	14	1.69		UCC	2.4	0.27
	UGC	2.6	0.31		UCA*	8.8	1
Gln Q	CAA*	3.2	1.03		UCG	1	0.11
	CAG	3	0.97		AGU*	13	1.48
Clu E	GAA*	4.4	1.57		AGC	0.6	0.07
	GAG	1.2	0.43		AGA*	9.6	1.09
Gly G	GGU*	19.8	2.68	Thr T	AGG	4.6	0.52
	GGC	0.4	0.05		ACU*	11.2	3.11
	GGA	3.4	0.46		ACC	1.2	0.33
	GGG	6	0.81		ACA	1.6	0.44
His H	CAU*	5	1.92	Tyr Y	ACG	0.4	0.11
	CAC	0.2	0.08		UAU*	50.2	1.82
Ile I	AUU*	43.6	1.92	Val V	UAC	5	0.18
	AUC	1.8	0.08		GUU*	17.4	2.58
Lys K	AAA*	4.6	1.12		GUC	1	0.15
	AAG	3.6	0.88		GUA*	7.4	1.1
Met M	AUA*	28	1.51	Trp W	GUG	1.2	0.18
	AUG	9.2	0.49		UGA*	6.8	1.36
Phe F	UUU*	76.4	1.91		UGG	3.2	0.64

ND6

Amino Acid	Codon	N	RSCU ^a	Amino Acid	Codon	N	RSCU ^a
Ala A	GCU	0.4	0.57	Leu L	UUC	1.6	0.48
	GCC	0	0		UUA*	12.4	3.51
	GCA*	2.2	3.14		UUG	1	0.28
	GCG	0.2	0.29		CUU	2.6	0.74
Arg R	CGU	0	0	Pro P	CUC	0.4	0.11
	CGC	0.2	0.8		CUA*	4.8	1.36
	CGA*	0.6	2.4		CUG	0	0
	CGG	0.2	0.8		CCU*	1.2	2.18
Asn N	AAU*	2.4	1.2	Ser S	CCC	0.4	0.73
	AAC	1.6	0.8		CCA*	0.6	1.09
Asp D	GAU*	0.8	1.33	Cys C	CCG	0	0
	GAC	0.4	0.67		UCU*	2.2	1.24
Cys C	UGU	0	0	Gln Q	UCC	0.6	0.34
	UGC*	0.2	2		UCA*	7	3.94
Gln Q	CAA*	3.4	1.89	Clu E	UCG	0.4	0.23
	CAG	0.2	0.11		AGU	0.2	0.11
Clu E	GAA*	10	1.92	Gly G	AGC	0.2	0.11
	GAG	0.4	0.08		AGA*	3.6	2.03
Gly G	GGU	0.4	0.4	His H	AGG	0	0
	GGC	0.2	0.2		ACU*	4	1.31
	GGA*	3.2	3.2		ACC	1.8	0.59
	GGG	0.2	0.2		ACA*	6	1.97
His H	CAU*	1.6	1.6	Ile I	ACG	0.4	0.13
	CAC	0.4	0.4		UAU*	2.4	1.14
Ile I	AUU*	20.8	1.76	Lys K	UAC	1.8	0.86
	AUC	2.8	0.24		GUU*	1.4	1.65
Lys K	AAA*	14.4	1.92	Met M	GUC	0	0
	AAG	0.6	0.08		GUU*	1.8	2.12
Met M	AUA*	28.4	1.88	Phe F	GUG	0.2	0.24
	AUG	1.8	0.12		UGA*	1	2
Phe F	UUU*	5	1.52		UGG	0	0

^a mean values of RSCU based on the synonymous codon usage frequencies; N: Total number of preferred codon; *RSCU>1; Yellow colour represents over-represented codon (RSCU>1.6).