Electronic Supplementary Material

The conflict within: origin, proliferation and persistence of a spontaneously arising selfish mitochondrial genome

Joseph J Dubie, Avery R Caraway, McKenna M Stout, Vaishali Katju and Ulfar Bergthorsson

Philosophical Transactions of the Royal Society B Biological Sciences

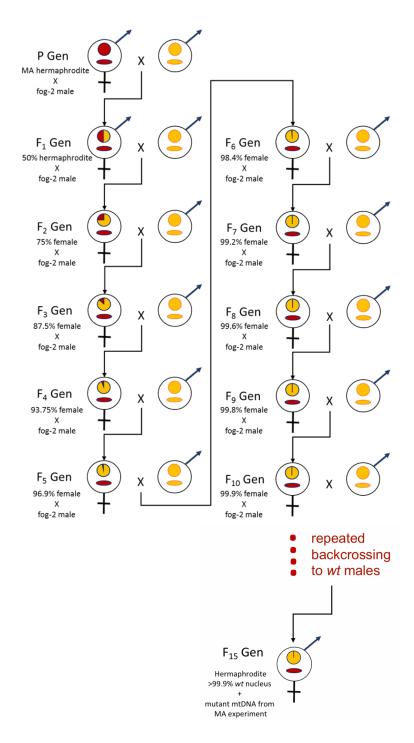


Figure S1. Schematic of the backcrossing experiment to sequester the mutant mitochondrial genome bearing the *ctb-1* deletion within a wild-type nuclear background. After 15 generations of backcrossing mutant mtDNA-bearing *C. elegans* hermaphrodites to wild-type *C. elegans* males (*fog-2* or *N2*), only 0.003% of the nuclear genome from the original 1G mutation accumulation line is expected to remain, ensuring that the mitochondrial deletion is no longer associated with any other nuclear mutations that arose during the course of the mutation accumulation experiment.

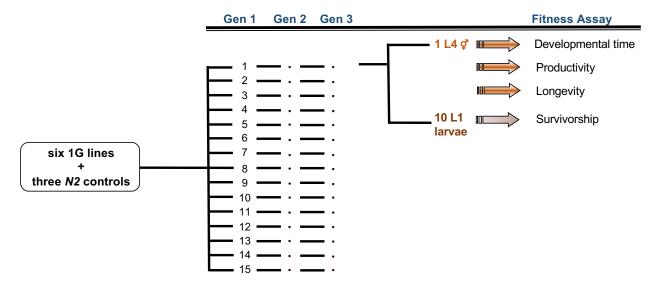


Figure S2. Design of assays for four fitness-related traits. Three *N*2 control and six replicate lines of 1G with the *ctb-1* deletion bearing mitochondrial genome sequestered in a wild-type nuclear background were assayed. For experimental or control lines, 15 within line replicates were established and propagated for two additional generations by single-progeny descent to remove environmental effects. The F3 generation worms were utilized for the fitness assays. 10 L1 larvae per line were isolated soon upon hatching and utilized for measuring survivorship to adulthood. One L4 larva, a sibling of the ten larvae utilized for the survivorship assay was used for measuring three additional fitness-related traits, namely developmental time, productivity and longevity.

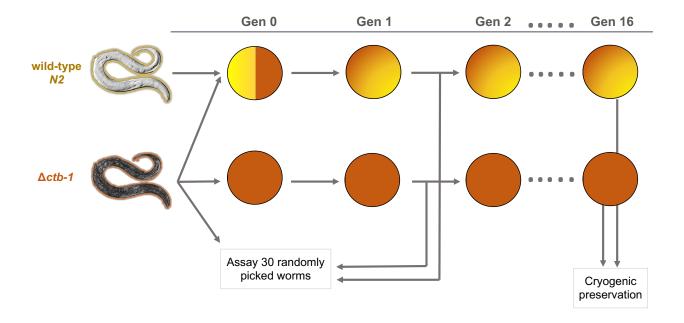


Figure S3. Design of the competition experiment. 50 WT N2 hermaphrodites and 50 Δctb-1 mtDNA-bearing 1G hermaphrodites from the backcrossing experiment were used to establish each of the five replicate populations comprising the competition assays. Non-competed control populations of 1G replicate lines were established with 50 L4 hermaphrodites from each of five Δctb-1 mtDNA bearing replicate lines of 1G. Three days after establishing each new generation, 30 randomly picked worms were each analyzed for the presence of the Δctb-1 mitotype. On day 4, the entire worm population on the NGM plate was bleached and the eggs transferred to a new plate to establish the next generation. The bleaching procedure was repeated every four days for 16 generations and the frequency analysis was performed in each of the 16 generations.

Table S1. Probes for Bio-Rad ddPCR assay for quantification of mtDNA copy-number.

Gene	Assay ID	Quencher	Probe Fluorophore	Location	MIQE Context
actin-2	dCNS59442090	Iowa Black	FAM	Chr. V: 11077658 11077779	CACCCAGTACTTCTCACTGAAGCCCCACTCAATCCAAAGGCTAACCGTG AAAAGATGACCCAAATCATGTTCGAGACCTTCAATACCCCAGCCATGTA TGTCGCCATCCAAGCTGTCCTCTCC
ctb-1	dCNS821148280	Iowa Black	FAM	mtDNA: 50565177	AGCTATTCTAGTTATTGTATTGGGGCATTTAATTTTTTTACACAGAACTGG TAGAACATCTAGGTTATATTGCCACGGTGATTATGATAAAGTTTGTTT
cox-1	dCNS484374227	Iowa Black	HEX	mtDNA: 81898310	CATCTATATTAATTTTAGATGCTTGTTTTGTAGATATAGGTTGTGGGA CTAGGTGAACAGTCTACCCACCTTTAAGAACAATGGGGCACCCTGGAAG TAGAGTAGATTTAGCTATTTTTA

Table S2. Fitness of $\triangle ctb-1$ bearing worms relative to WT N2 controls. Fitness was tested under benign laboratory conditions. Four fitness-related traits namely productivity, survivorship to adulthood, developmental time and longevity were assayed in three N2 controls (C1-C3) and six experimental lines of 1G with the ctb-1 deletion bearing mitochondrial genome sequestered in a wild-type nuclear background. Where possible, data was collected for 15 replicates per experimental and control line. Grey cells signify missing data.

Line	Replicate	Survivorship	Developmental Time (hrs)	Longevity (days)	Productivity
C1	1	0.9	51	19	279
C1	2	1	53	12	274
C1	3	1	53	21	286
C1	4	0.9	53	13	312
C1	5	0.9	51	9	282
C1	6	1	49	21	326
C1	7	1	51	18	381
C1	8	1	49	11	301
C1	9	1	53	17	285
C1	10	1	53	11	300
C1	11	1	55	11	286
C1	12	1	51	22	276
C1	13	1	49	13	244
C1	14	1	51	11	281
C1	15	1	53	18	311
C2	1	1	42	26	323
C2	2	1	40	25	308
C2	3	1	42	18	387
C2	4	1	42	21	334
C2	5	1	40	10	340
C2	6	1	46	17	339
C2	7	1	42	18	320
C2	8	1	42	10	349
C2	9	1	44	17	317
C2	10	1	44	13	326
C2	11	1	38	23	303
C2	12	1	40	18	262
C2	13	1	44	21	348
C2	14	1	46	12	277
C2	15	1	42	20	362
C3	1	1	40	14	363
C3	2	1	42	15	314

C3 3 1 48 11 346 C3 4 1 48 12 153 C3 5 1 40 10 346 C3 6 1 42 15 325 C3 7 1 42 10 330 C3 8 1 42 18 331 C3 9 1 40 7 250 C3 10 1 44 21 307 C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IGC 1 0.9 58 14 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
C3 5 1 40 10 346 C3 6 1 42 15 325 C3 7 1 42 10 330 C3 8 1 42 18 331 C3 9 1 40 7 250 C3 10 1 44 21 307 C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 14 1 42 18 308 C3 15 1 46 9 311 1G.C 1 0.9 58 14 0 1G.C 1 0.9 58 14 0 1G.C 2 0.6 58	C3	3	1	48	11	346
C3 6 1 42 15 325 C3 7 1 42 10 330 C3 8 1 42 18 331 C3 9 1 40 7 250 C3 10 1 44 21 307 C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IGC 1 0.9 58 14 0 IGC 1 0.9 58 14 0 IGC 2 0.6 58 14 0 IGC 3 1 46 13 141 IGC 4 1 52 5 <td></td> <td>4</td> <td>1</td> <td>48</td> <td>12</td> <td>153</td>		4	1	48	12	153
C3 7 1 42 10 330 C3 8 1 42 18 331 C3 9 1 40 7 250 C3 10 1 44 21 307 C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IG.C 1 0.9 58 14 0 IG.C 1 0.9 58 14 0 IG.C 2 0.6 58 14 3 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 <		5	1	40	10	346
C3 8 1 42 18 331 C3 9 1 40 7 250 C3 10 1 44 21 307 C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 1G.C 1 0.9 58 14 0 1G.C 2 0.6 58 14 3 1G.C 3 1 46 13 141 1G.C 4 1 52 5 26 1G.C 3 1 46 13 141 1G.C 4 1 52 5 26 1G.C 5 0.9 52 <		6	1	42	15	325
C3 9 1 40 7 250 C3 10 1 44 21 307 C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IGC 1 0.9 58 14 0 IGC 2 0.6 58 14 3 IGC 3 1 46 13 141 IGC 4 1 52 5 26 IGC 5 0.9 52 13 149 IGC 6 1 48 14 20 IGC 7 1 44 14 247 IGC 8 1 58 27		7	1	42	10	330
C3 10 1 44 21 307 C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IG.C 1 0.9 58 14 0 IG.C 2 0.6 58 14 0 IG.C 2 0.6 58 14 0 IG.C 2 0.6 58 14 0 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 7 1 44		8	1	42	18	331
C3 11 1 50 20 358 C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IG.C 1 0.9 58 14 0 IG.C 2 0.6 58 14 0 IG.C 3 1 46 13 141 IG.C 3 1 46 13 141 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58		9	1	40	7	250
C3 12 1 46 12 340 C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IG.C 1 0.9 58 14 0 IG.C 2 0.6 58 14 0 IG.C 2 0.6 58 14 3 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50	C3	10	1	44	21	307
C3 13 1 44 10 308 C3 14 1 42 18 308 C3 15 1 46 9 311 IG.C 1 0.9 58 14 0 IG.C 2 0.6 58 14 3 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 13 1 42	C3	11	1	50	20	358
C3 14 1 42 18 308 C3 15 1 46 9 311 IG.C 1 0.9 58 14 0 IG.C 2 0.6 58 14 3 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 13 1 42	C3	12	1	46	12	340
C3 15 1 46 9 311 IG.C 1 0.9 58 14 0 IG.C 2 0.6 58 14 3 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 <td>C3</td> <td>13</td> <td>1</td> <td>44</td> <td>10</td> <td>308</td>	C3	13	1	44	10	308
IGC 1 0.9 58 14 0 IGC 2 0.6 58 14 3 IGC 3 1 46 13 141 IGC 4 1 52 5 26 IGC 5 0.9 52 13 149 IGC 6 1 48 14 0 IGC 6 1 48 14 0 IGC 7 1 44 14 247 IGC 8 1 58 27 0 IGC 9 0.7 58 20 5 IGC 10 1 50 7 151 IGC 11 0.8 56 5 18 IGC 11 0.8 56 5 18 IGC 12 0.8 54 14 320 IGC 13 1 42 <t< td=""><td>C3</td><td>14</td><td>1</td><td>42</td><td>18</td><td>308</td></t<>	C3	14	1	42	18	308
IG.C 2 0.6 58 14 3 IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 199 IG.C 14 0.9 42 7 199 IG.L 1 1	C3	15	1	46	9	311
IG.C 3 1 46 13 141 IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.L 1 1 53	1G.C	1	0.9	58	14	0
IG.C 4 1 52 5 26 IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 <td< td=""><td>1G.C</td><td>2</td><td>0.6</td><td>58</td><td>14</td><td>3</td></td<>	1G.C	2	0.6	58	14	3
IG.C 5 0.9 52 13 149 IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 13 1 42 7 199 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 <	1G.C	3	1	46	13	141
IG.C 6 1 48 14 0 IG.C 7 1 44 14 247 IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 0 IG.L 5 0.9 6	1G.C		1	52	5	
IGC 7 1 44 14 247 IGC 8 1 58 27 0 IGC 9 0.7 58 20 5 IGC 10 1 50 7 151 IGC 11 0.8 56 5 18 IGC 12 0.8 54 14 320 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 0 IG.L 5 0.9 67	1G.C	5	0.9	52	13	149
IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 0 IG.L 5 0.9 67 23 0 IG.L 6 1 63 22 0 IG.L 7 0.9 6	1G.C	6		48	14	0
IG.C 8 1 58 27 0 IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IGL 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 IG.L 5 0.9 67 23 0 IG.L 6 1 63 22 0 IG.L 7 0.9 63 6	1G.C	7	1	44	14	247
IG.C 9 0.7 58 20 5 IG.C 10 1 50 7 151 IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 IG.L 5 0.9 67 23 0 IG.L 6 1 63 22 0 IG.L 7 0.9 63 6 5 IG.L 8 1 55 4	1G.C	8	1	58	27	
IG.C 11 0.8 56 5 18 IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 0 IG.L 5 0.9 67 23 0 IG.L 6 1 63 22 0 IG.L 7 0.9 63 6 5 IG.L 8 1 55 4 58 IG.L 9 1 53 4 76 IG.L 10 1 51 <td>1G.C</td> <td>9</td> <td>0.7</td> <td></td> <td>20</td> <td>5</td>	1G.C	9	0.7		20	5
IG.C 12 0.8 54 14 320 IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 0 IG.L 5 0.9 67 23 0 IG.L 6 1 63 22 0 IG.L 7 0.9 63 6 5 IG.L 8 1 55 4 58 IG.L 9 1 53 4 76 IG.L 10 1 51 13 136	1G.C	10	1	50	7	151
IG.C 13 1 42 7 116 IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 0 IG.L 5 0.9 67 23 0 IG.L 6 1 63 22 0 IG.L 7 0.9 63 6 5 IG.L 8 1 55 4 58 IG.L 9 1 53 4 76 IG.L 10 1 51 13 136	1G.C	11	0.8	56	5	18
IG.C 14 0.9 42 7 199 IG.C 15 0.5 58 7 1 IG.L 1 1 53 6 138 IG.L 2 0.9 55 9 295 IG.L 3 0.9 61 13 0 IG.L 4 0.7 0 0 0 IG.L 5 0.9 67 23 0 IG.L 6 1 63 22 0 IG.L 7 0.9 63 6 5 IG.L 8 1 55 4 58 IG.L 9 1 53 4 76 IG.L 10 1 51 13 136	1G.C	12	0.8	54	14	320
1G.C 15 0.5 58 7 1 1G.L 1 1 53 6 138 1G.L 2 0.9 55 9 295 1G.L 3 0.9 61 13 0 1G.L 4 0.7 0 0 0 1G.L 5 0.9 67 23 0 1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.C	13	1	42	7	116
1G.L 1 1 53 6 138 1G.L 2 0.9 55 9 295 1G.L 3 0.9 61 13 0 1G.L 4 0.7 0 0 0 1G.L 5 0.9 67 23 0 1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.C	14	0.9	42	7	199
1G.L 2 0.9 55 9 295 1G.L 3 0.9 61 13 0 1G.L 4 0.7 0 0 0 1G.L 5 0.9 67 23 0 1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.C	15	0.5	58	7	1
1G.L 2 0.9 55 9 295 1G.L 3 0.9 61 13 0 1G.L 4 0.7 0 0 0 1G.L 5 0.9 67 23 0 1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.L	1	1	53	6	138
1G.L 3 0.9 61 13 0 1G.L 4 0.7 0 0 1G.L 5 0.9 67 23 0 1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136			0.9			
1G.L 4 0.7 0 0 1G.L 5 0.9 67 23 0 1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.L				13	
1G.L 5 0.9 67 23 0 1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.L		0.7			0
1G.L 6 1 63 22 0 1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.L			67		
1G.L 7 0.9 63 6 5 1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.L					
1G.L 8 1 55 4 58 1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.L		0.9			
1G.L 9 1 53 4 76 1G.L 10 1 51 13 136	1G.L	8			4	58
1G.L 10 1 51 13 136	1G.L					
	1G.L	10				
70	1G.L	11	1	61	25	96

1G.L	12	1	59	19	13
1G.L	13	1	55	18	255
1G.L	14	1	49	10	217
1G.L	15	0.9	57	25	164
1G.M	1	1	59	4	43
1G.M	2	1	55	5	57
1G.M	3	0.8	61	9	0
1G.M	4	1	61	4	14
1G.M	5	1	63	16	0
1G.M	6	0.9	55	11	37
1G.M	7	1	55	11	185
1G.M	8	1	55	25	230
1G.M	9	1	53	10	178
1G.M	10	1	63	25	0
1G.M	11	0.9	65	11	155
1G.M	12	1		2	0
1G.M	13	0.9	53	18	182
1G.M	14	0.9	55	26	216
1G.M	15	0.9	61	19	8
1G.N	1	1	48	18	0
1G.N	2	0.9	44	4	49
1G.N	3	0.2	50	5	79
1G.N	4	0.8	48	17	183
1G.N	5	0.4	50	16	47
1G.N	6	0.4	56	4	56
1G.N	7	0.5	54	16	56
1G.N	8	0.6	42	15	229
1G.N	9	1	46	4	26
1G.N	10	1	48	24	0
1G.N	11	0.9	56	7	114
1G.N	12	1	40	11	205
1G.N	13	0.8	40	11	186
1G.N	14	1		0	0
1G.N	15	0.9	58	13	57
1G.T	1	1	48	13	214
1G.T	2	1	40	7	230
1G.T	3	1	44	15	167
1G.T	4	0.8	46	5	130

1G.T	5	1	52	14	4
1G.T	6	1	40	18	230
1G.T	7	1	54	19	172
1G.T	8	0.9	44	16	332
1G.T	9	1	48	5	133
1G.T	10	1	48	16	276
1G.T	11	0.8	44	21	249
1G.T	12	0.8	44	4	124
1G.T	13	1	56	13	166
1G.T	14	1	48	4	36
1G.T	15	1	46	16	86
1G.U	1	1	54	29	0
1G.U	2	1	58	7	3
1G.U	3	1	44	5	171
1G.U	4	1	42	7	143
1G.U	5	1	44	14	193
1G.U	6	1	46	17	304
1G.U	7	1	52	21	103
1G.U	8	0.6	58	18	0
1G.U	9	1	52	18	87
1G.U	10	1	58	15	119
1G.U	11	1	50	16	230
1G.U	12	1	48	14	182
1G.U	13	1	58	5	23
1G.U	14	0.7	52	12	175
1G.U	15	1	52	7	83