

Table S4

Frequency of four most frequently used codons in 45 mitochondrial genomes of Fulgoroidea.

Taxon	GenBank accession no.	PCGs				Total
		TTT (F)	ATT (I)	ATA (I)	TTA (L)	
Fulgoroidea						
Flatidae						
Flatinae						
<i>Metcalfa pruinosa</i> (H1)	MK303326	11.52	9.00	8.64	6.46	35.61
<i>Metcalfa pruinosa</i> (H3)	MN417319	11.52	9.00	8.64	6.48	35.64
<i>Salurnis marginella</i>	MT628542	11.58	8.74	8.08	6.38	34.78
<i>Geisha distinctissima</i>	FJ230961	10.76	7.76	7.18	6.30	32.01
Fulgoridae						
Fulgorinae						
<i>Pyrops candelaria</i>	FJ006724	10.26	7.11	8.67	4.67	30.71
Aphaeninae						
<i>Lycorma delicatula</i> (Henan, China)	EU909203	10.74	7.53	8.46	6.32	33.04
<i>Lycorma delicatula</i> (China)	FJ456942	11.33	7.60	8.48	6.26	33.67
<i>Lycorma delicatula</i> (Korea)	MN607209	11.32	7.25	7.06	5.52	31.15
<i>Aphaena</i> (<i>Callidepsa</i>) <i>amabilis</i>	MN025522	12.17	8.34	8.89	7.30	36.70
<i>Aphaena</i> (<i>Aphaena</i>) <i>discolor nigrotibiata</i>	MN025523	12.12	8.24	8.87	6.60	35.82
Achilidae						
Achilinae						
<i>Betatropis formosana</i>	MH324927	11.83	8.33	8.41	7.35	35.92
<i>Magadhaideus luodiana</i> sp. nov	MH324928	10.25	7.45	7.29	5.15	30.14
<i>Peltatavertexalis horizontalis</i> sp. nov	MH324929	10.86	8.19	8.36	5.66	33.07
<i>Plectoderini</i> sp.	MH324930	11.00	7.76	7.76	5.82	32.35
<i>Paracatonidia</i> sp.	MH324931	10.95	8.01	8.56	6.72	34.24
Cixiidae						
Cixiinae						
<i>Pentastiridius</i> sp.	KY039133	9.59	9.74	7.19	7.96	34.47
Derbidae						
Otiocerinae						
<i>Lydda</i> sp.	KY039126	10.70	9.75	8.17	8.95	37.57
Issidae						
Issinae						
<i>Sivaloka damnosus</i>	FJ360694	11.70	8.72	7.42	6.73	34.57
<i>Sivaloka</i> sp.	KY039137	10.41	9.68	7.82	6.67	34.58
Ricaniidae						
Ricaniinae						
<i>Ricania marginalis</i>	JN242415	11.19	8.69	6.72	6.28	32.89
<i>Ricania speculum</i>	KX371891	11.76	8.27	6.68	5.66	32.36
Delphacidae						
Asiracinae						
<i>Ugyops</i> sp.	MH352481	11.46	7.45	9.50	6.48	34.88
Delphacinae						
Saccharosydnini						
<i>Saccharosydne procerus</i>	MG515237	10.55	11.16	6.94	11.80	40.45
Delphacini						
<i>Changeondelphax velitchkovskyi</i>	MG049916	9.35	8.37	5.82	9.90	33.44

<i>Nilaparvata bakeri</i> (unknown)	KC333655	10.02	9.66	6.50	9.55	35.73
<i>Nilaparvata bakeri</i> (biotype Y, Zhejiang, China)	KC333653	9.83	9.74	6.03	9.52	35.12
<i>Nilaparvata bakeri</i> (biotype L, Zhejiang, China)	KC333654	9.83	9.74	6.03	9.52	35.12
<i>Nilaparvata lugens</i> (Hainan, China)	JX880069	9.95	9.73	6.40	9.70	35.78
<i>Nilaparvata lugens</i> (Hadong-gun, Korea)	MK590088	10.11	9.70	6.38	9.84	36.03
<i>Nilaparvata lugens</i> (Guangdong, China)	MK606371	9.98	9.73	6.38	9.75	35.84
<i>Nilaparvata lugens</i> (biotype 1, Zhejiang, China)	JN563995	9.85	9.74	6.06	9.52	35.18
<i>Nilaparvata lugens</i> (biotype 2, Zhejiang, China)	JN563996	9.74	9.72	6.09	9.58	35.12
<i>Nilaparvata lugens</i> (biotype 3, Zhejiang, China)	JN563997	9.80	9.66	6.11	9.52	35.09
<i>Nilaparvata mui</i>	JN563998	9.60	9.32	6.20	9.02	34.14
<i>Nilaparvata</i> sp.	KY039125	9.61	9.48	6.35	10.09	35.52
<i>Peregrinus maidis</i>	MG049917	9.32	8.95	6.04	10.78	35.10
<i>Sogatella furcifera</i> (Hainan, China)	KC512914	10.32	8.96	5.57	9.37	34.22
<i>Sogatella furcifera</i> (Yunnan, China)	KC512915	10.32	8.96	5.57	9.35	34.19
<i>Sogatella vibix</i>	MG515238	10.11	9.12	5.76	9.64	34.64
<i>Laodelphax striatellus</i> (Jiangsu, China)	JX880068	9.49	9.08	5.81	9.96	34.35
<i>Laodelphax striatellus</i> (Suwon, Korea)	MK838101	9.59	9.09	5.79	9.95	34.41
<i>Laodelphax striatellus</i> (Milyang, Korea)	MK862265	9.59	9.09	5.79	9.95	34.41
<i>Laodelphax striatellus</i> A1 (China)	MK292897	9.58	9.00	5.90	10.07	34.54
<i>Laodelphax striatellus</i> B1 (China)	MK292932	9.49	9.05	5.87	9.99	34.40
<i>Laodelphax striatellus</i> (Beijing, China)	FJ360695	9.63	8.92	5.71	10.07	34.33

Within parenthesis indicate corresponding amino acids.