

Table S2. Gene by gene divergences in the protein coding genes at different taxonomic levels, both at nucleotide level and amino acid levels. C here denotes conserved sites, I denotes phylogenetically informative sites, V denotes variable sites, N denotes nucleotide level, A denotes amino acid level.

Sites	Hierarchy level	<i>nad2</i>	<i>cox1</i>	<i>cox2</i>	<i>atp8</i>	<i>atp6</i>	<i>cox3</i>	<i>nad3</i>	<i>nad5</i>	<i>nad4</i>	<i>nad4l</i>	<i>nad6</i>	<i>cytb</i>	<i>nad1</i>
C-N	Species	84.1	88.9	89.2	86.3	87.8	87.1	90.5	90.1	89.9	90.5	83.1	85.3	86.3
	Genus	78.8	84	85	81.5	82.4	80.6	80.4	85.9	85.2	85	73.3	78.6	81.6
	Family	70.7	78.5	80	64.3	73.5	71.5	70.4	76.9	76.1	75.9	61.3	70.4	71
	Superfamily	66	76.1	78	56	71.3	68.6	67.9	72.6	70.8	73.8	56.1	66.4	68.1
	Order	51.2	68.5	69.2	41.7	62.5	60.7	58.4	59.7	59.7	58.2	41.9	58.1	59.5
V-N	Species	12.7	10.4	10.4	13.7	11.9	12.5	9.22	9.05	9.81	8.5	16.3	13.2	11.5
	Genus	17.9	15.2	14.6	18.5	17.4	19.1	19.3	13.4	14.5	13.9	26.1	20.1	16.9
	Family	27.2	20.7	19.6	35.7	26.2	28.2	29.3	22.6	23.6	24.1	38.7	28.9	28.1
	Superfamily	31.9	23.1	21.6	44	28.4	31.1	31.8	27.1	28.9	26.2	43.9	32.8	30.9
	Order	46.8	30.9	30.8	58.3	37.2	38.9	41.3	40	40	41.8	58.1	41.1	39.5
I-N	Species	0	0	0	0	0	0	0	0	0	0	0	0	0
	Genus	3.34	2.72	3.21	2.38	3.82	2.65	1.68	2.56	2.75	2.04	3.89	3.08	3.77
	Family	18.4	12.2	12.3	24.4	18.8	16.7	18.2	14.9	14.9	12.9	24.3	16.1	18.3
	Superfamily	20	14.2	13.3	28.6	20	18.6	19.6	16.5	16.1	15.3	27.4	18.2	19.4
	Order	22	15.9	15.8	33.3	22.5	21.7	23.5	18.5	19.3	19	32	21.5	21.5
C-A	Species	86	98.2	96.9	76.8	94.2	93.9	90.8	91.8	91.3	87.8	83.3	92.5	91.8
	Genus	81.1	97.9	94.3	69.6	92	90.9	80.7	88.5	87.5	81.6	74.4	88.4	86.2
	Family	66.5	91.1	89	42.9	78.3	80.3	68.9	75.2	72.5	67.3	55.6	78.4	67
	Superfamily	61	90.1	86.8	39.3	76.1	77.3	64.7	69.4	67	64.3	52.2	74.8	63.2
	Order	40.1	79.8	71.9	25	61.5	67.8	53.8	53.7	52.7	46.9	31.7	62	51.6
V-A	Species	10.6	1	2.63	21.4	5.31	5.3	8.4	7.4	8.26	10.2	15.6	5.66	5.7
	Genus	15.5	1.4	5.26	28.6	7.52	8.33	18.5	10.8	12.1	16.3	24.4	10	11.9
	Family	31.2	8.2	10.5	55.4	21.2	18.9	30.3	24.1	27	31.6	43.9	20.6	31.8
	Superfamily	36.7	9.1	12.7	58.9	23.5	22	34.5	30.1	32.6	34.7	47.2	24.2	35.5
	Order	57.9	19.6	28.1	73.2	38.1	31.4	45.4	45.8	46.9	52	67.8	37	47.2
I-A	Species	0	0	0	0	0	0	0	0	0	0	0	0	0
	Genus	2.9	0.2	1.32	1.79	2.65	1.14	0.84	2.6	2.01	1.02	1.7	1.8	1.3
	Family	24.4	6	6.14	37.5	18.6	13.6	22.7	19.8	19	20.4	33.3	11.6	20.4
	Superfamily	25.5	6.2	6.58	37.5	19	15.5	23.5	20.5	19.6	22.4	35	12.6	21.7
	Order	27.5	6.4	8.3	44.6	20.4	16.3	26.1	21.5	22.5	25.5	38.9	13.4	23.9