

	U	C	A	G	
U	Phe 0.0989	Ser 0.1449	Tyr 0.2955	Cys 0.3685	U
	Phe 1.9011	Ser 1.3039	Tyr 1.7045	Cys 1.6315	C
	Leu 0.0182	Ser 0.3171	Och 1.0000	Opa 1.0000	A
	Leu 0.5546	Ser 2.4191	Amb 1.0000	Trp 1.0000	G
C	Leu 0.2070	Pro 0.1957	His 0.3657	Arg 0.7563	U
	Leu 1.8526	Pro 1.4149	His 1.6343	Arg 2.9524	C
	Leu 0.0579	Pro 0.2092	Gln 0.2753	Arg 0.3546	A
	Leu 3.3097	Pro 2.1801	Gln 1.7247	Arg 1.6036	G
A	Ile 0.1258	Thr 0.1149	Asn 0.2251	Ser 0.3090	U
	Ile 2.8149	Thr 2.3552	Asn 1.7749	Ser 1.5061	C
	Ile 0.0593	Thr 0.2647	Lys 0.3580	Arg 0.0875	A
	Met 1.0000	Thr 1.2652	Lys 1.6420	Arg 0.2457	G
G	Val 0.1736	Ala 0.1538	Asp 0.3925	Gly 0.7587	U
	Val 1.7911	Ala 1.8142	Asp 1.6075	Gly 2.1742	C
	Val 0.1025	Ala 0.3625	Glu 0.5849	Gly 0.3908	A
	Val 1.9329	Ala 1.6696	Glu 1.4151	Gly 0.6763	G

M. smegmatis (67.4%)

	U	C	A	G	
U	Phe 0.7718	Ser 1.2877	Tyr 0.7654	Cys 0.9442	U
	Phe 1.2282	Ser 0.6765	Tyr 1.2346	Cys 1.0558	C
	Leu 0.1942	Ser 0.8725	Och 1.0000	Opa 1.0000	A
	Leu 1.2769	Ser 1.4184	Amb 1.0000	Trp 1.0000	G
C	Leu 1.5905	Pro 0.9784	His 0.9561	Arg 1.7382	U
	Leu 1.1537	Pro 0.7910	His 1.0439	Arg 1.4635	C
	Leu 0.3099	Pro 0.7160	Gln 1.0580	Arg 1.1116	A
	Leu 1.4748	Pro 1.5145	Gln 0.9420	Arg 0.6352	G
A	Ile 1.4583	Thr 1.1045	Asn 0.9587	Ser 0.8072	U
	Ile 1.3634	Thr 1.1076	Asn 1.0413	Ser 0.9378	C
	Ile 0.1782	Thr 0.8112	Lys 0.8430	Arg 0.6309	A
	Met 1.0000	Thr 0.9766	Lys 1.1570	Arg 0.4206	G
G	Val 1.6116	Ala 1.1836	Asp 1.0955	Gly 1.3603	U
	Val 1.0228	Ala 0.8144	Asp 0.9045	Gly 1.1310	C
	Val 0.4340	Ala 0.9908	Glu 1.2597	Gly 1.0051	A
	Val 0.9316	Ala 1.0113	Glu 0.7403	Gly 0.5037	G

Patience (50.3%)

	U	C	A	G	
U	Phe 0.6479	Ser 0.8243	Tyr 0.3495	Cys 0.6931	U
	Phe 1.3521	Ser 0.8343	Tyr 1.6505	Cys 1.3069	C
	Leu 0.1420	Ser 0.5645	Och 1.0000	Opa 1.0000	A
	Leu 1.0878	Ser 0.6545	Amb 1.0000	Trp 1.0000	G
C	Leu 0.9700	Pro 0.9689	His 0.4484	Arg 1.4348	U
	Leu 0.7933	Pro 0.8447	His 1.5516	Arg 1.5472	C
	Leu 0.7794	Pro 1.0506	Gln 0.6200	Arg 0.6252	A
	Leu 2.2275	Pro 1.1358	Gln 1.3800	Arg 1.1199	G
A	Ile 1.0817	Thr 0.8446	Asn 0.5185	Ser 0.9792	U
	Ile 1.6529	Thr 1.3109	Asn 1.4815	Ser 2.1432	C
	Ile 0.2654	Thr 0.9150	Lys 0.4099	Arg 0.3643	A
	Met 1.0000	Thr 0.9296	Lys 1.5901	Arg 0.9085	G
G	Val 0.9503	Ala 0.9878	Asp 0.6082	Gly 1.1138	U
	Val 0.7866	Ala 1.4307	Asp 1.3918	Gly 1.8055	C
	Val 0.6497	Ala 1.0250	Glu 0.6808	Gly 0.4950	A
	Val 1.6134	Ala 0.5566	Glu 1.3192	Gly 0.5856	G

Papyrus (56.0)

	U	C	A	G	
U	Phe 0.2719	Ser 0.6464	Tyr 0.5204	Cys 0.4423	U
	Phe 1.7281	Ser 0.7549	Tyr 1.4796	Cys 1.5577	C
	Leu 0.0114	Ser 0.4688	Och 1.0000	Opa 1.0000	A
	Leu 0.6346	Ser 1.2632	Amb 1.0000	Trp 1.0000	G
C	Leu 0.5852	Pro 0.5476	His 0.5729	Arg 1.1338	U
	Leu 2.0785	Pro 1.1619	His 1.4271	Arg 2.1882	C
	Leu 0.2318	Pro 0.5883	Gln 0.3590	Arg 0.7676	A
	Leu 2.4585	Pro 1.7021	Gln 1.6410	Arg 1.2882	G
A	Ile 0.5125	Thr 0.4376	Asn 0.6502	Ser 0.4688	U
	Ile 2.4036	Thr 1.7894	Asn 1.3498	Ser 2.3980	C
	Ile 0.0839	Thr 0.6041	Lys 0.2426	Arg 0.2029	A
	Met 1.0000	Thr 1.1690	Lys 1.7574	Arg 0.4191	G
G	Val 0.6059	Ala 0.8180	Asp 0.5966	Gly 0.8107	U
	Val 1.5178	Ala 1.4665	Asp 1.4034	Gly 1.9359	C
	Val 0.2597	Ala 0.6987	Glu 0.5415	Gly 0.6593	A
	Val 1.6167	Ala 1.0167	Glu 1.4585	Gly 0.5941	G

Plot (59.7%)

	U	C	A	G	
U	Phe 0.0616	Ser 0.3918	Tyr 0.1256	Cys 0.3194	U
	Phe 1.9384	Ser 1.2138	Tyr 1.8744	Cys 1.6806	C
	Leu 0.0047	Ser 0.3688	Och 1.0000	Opa 1.0000	A
	Leu 0.3806	Ser 2.3124	Amb 1.0000	Trp 1.0000	G
C	Leu 0.2349	Pro 0.3169	His 0.2699	Arg 0.7284	U
	Leu 2.1002	Pro 1.3292	His 1.7301	Arg 2.0342	C
	Leu 0.0752	Pro 0.3292	Gln 0.1968	Arg 0.8040	A
	Leu 3.2044	Pro 2.0247	Gln 1.8032	Arg 1.7644	G
A	Ile 0.1257	Thr 0.1708	Asn 0.0658	Ser 0.2305	U
	Ile 2.8378	Thr 2.1753	Asn 1.9342	Ser 1.4827	C
	Ile 0.0365	Thr 0.2517	Lys 0.0949	Arg 0.1673	A
	Met 1.0000	Thr 1.4022	Lys 1.9051	Arg 0.5018	G
G	Val 0.2114	Ala 0.5740	Asp 0.3140	Gly 0.8017	U
	Val 2.2392	Ala 1.6233	Asp 1.6860	Gly 2.0908	C
	Val 0.1248	Ala 0.5992	Glu 0.3420	Gly 0.4470	A
	Val 1.4246	Ala 1.2035	Glu 1.6580	Gly 0.6604	G

Twister (65.0%)

	U	C	A	G	
U	Phe 0.0502	Ser 0.1351	Tyr 0.1068	Cys 0.2124	U
	Phe 1.9498	Ser 1.1027	Tyr 1.8932	Cys 1.7876	C
	Leu 0.0133	Ser 0.2270	Och 1.0000	Opa 1.0000	A
	Leu 0.1060	Ser 1.6919	Amb 1.0000	Trp 1.0000	G
C	Leu 0.0828	Pro 0.2462	His 0.1675	Arg 0.4612	U
	Leu 1.6797	Pro 1.5732	His 1.8325	Arg 3.0020	C
	Leu 0.0530	Pro 0.1450	Gln 0.0358	Arg 0.4065	A
	Leu 4.0652	Pro 2.0356	Gln 1.9642	Arg 1.8762	G
A	Ile 0.1542	Thr 0.1478	Asn 0.0887	Ser 0.2054	U
	Ile 2.8426	Thr 2.7226	Asn 1.9113	Ser 2.6378	C
	Ile 0.0031	Thr 0.0426	Lys 0.0235	Arg 0.0195	A
	Met 1.0000	Thr 1.0870	Lys 1.9765	Arg 0.2345	G
G	Val 0.1184	Ala 0.3111	Asp 0.2039	Gly 0.5283	U
	Val 1.7498	Ala 2.2256	Asp 1.7961	Gly 2.5472	C
	Val 0.0749	Ala 0.0771	Glu 0.0755	Gly 0.1189	A
	Val 2.0568	Ala 1.3861	Glu 1.9245	Gly 0.8057	G

KayaCho (70.0%)

Figure S4