

**Table S2:** Polymorphism results for each gene in each species. n - number of individuals sampled, Sites - number of base pairs in each gene, MissingSites - number of sites with alignment gaps, S - number of segregating sites, InvarSites - number of invariant sites, Eta - total number of mutations, Hap - number of haplotypes Hd - haplotype diversity, VarHd - variance in haplotype diversity, Pi - Nucleotide diversity, AvNumDif - average pair wise nucleotide difference per sequence, ThetaNuc - estimated population mutation rate per site ThetaG - mutation parameter per sequence Zns - Zns statistic, G+Cn - GC content at noncoding positions, G+Gc - GC content at coding positions, G+Ctot - GC content, TajimaD - Tajima's D statistic, SigD - significance of Tajima's D, FuLiD\* - Fu and Li's D\* statistic, SigD\* - significance of Fu and Li's D\*, FuLiF\* - Fu and Li's F\* statistic, SigF - significance of Fu and Li's F\*, FuFs - Fu's Fs statistic

Gene	Organism	Region	Ingroup	Outgroup	n	Sites	NetSites	MissingSites	S	InvarSites	Prop_Var	Eta	Hap	Hd	VarHd	Pi	VarPi	AvNumDif	ThetaNuc	ThetaG	Zns	G+Cn	G+Gc	G+Ctot	TajimaD	SigD	FuLiD*	SigD	FuLiF*	SigF	FuFs	
tolC	Acinetobac	1-1347	79	0	79	1347	1332	15	71	1261	0.053303		73	16	0.677	0.0033	0.00953	n.d.	12.6946	0.011093	14.7764	0.1144	0.4082	0	0.4082	-0.4691	n.s.	-0.7506	n.s.	-0.7647	n.s.	5.958
macB	Acinetobac	1-1995	79	0	79	1995	1995	0	222	1773	0.111278		237	16	0.665	0.00348	0.012871	n.d.	25.6774	0.024046	47.9726	0.20475	0.4475	0	0.4475	-0.5993	**	-4.5744	**	-4.0028	**	17.387
macA	Acinetobac	1-1344	79	0	79	1344	867	477	61	806	0.070358		63	16	0.661	0.00337	0.01891	n.d.	10.3096	0.014708	12.7522	0.1588	0.3993	0	0.3993	-0.6331	n.s.	-1.0306	n.s.	-1.0457	n.s.	3.91
adeB	Acinetobac	1-3294	79	0	79	3294	1093	2201	612	481	0.559927		762	19	0.665	0.00349	0.057182	n.d.	62.4995	0.141117	154.241	0.4882	0.4393	0	0.4139	-2.0685	*	2.2337	**	5.0011	n.s.	36.31
adeJ	Acinetobac	1-3177	79	0	79	3177	3177	0	83	3094	0.026125		86	19	0.68	0.00337	0.003032	n.d.	9.6323	0.005479	17.4078	0.0702	0.424	0	0.424	-1.4977	n.s.	-1.7256	n.s.	-1.9593	#	1.547
adeG	Acinetobac	1-318C	79	0	79	3180	3180	0	277	2903	0.087107		300	17	0.676	0.00326	0.019678	n.d.	62.5771	0.019096	60.7248	0.137	0.4467	0	0.4467	0.1053	n.s.	0.7067	n.s.	0.5463	n.s.	40.899
abeM	Acinetobac	1-1347	79	0	79	1347	837	510	32	805	0.038232		32	17	0.677	0.00328	0.009622	n.d.	8.0532	0.007739	6.4773	0.1711	0.4032	0	0.4032	0.7661	n.s.	1.0518	n.s.	1.1276	n.s.	1.507
craA	Acinetobac	1-144C	79	0	79	1440	1038	402	418	620	0.402697		426	17	0.677	0.0033	0.017739	n.d.	18.4135	0.083072	86.2292	0.8478	0.373	0	0.373	-2.7247	***	-8.7912	**	-7.4928	**	9.836
cmIA	Acinetobac	1-1470	79	0	79	1470	1008	462	728	280	0.722222		1000	20	0.681	0.0034	0.114718	n.d.	115.6355	0.20081	202.416	0.3916	0.4462	0	0.4462	-1.4927	n.s.	-1.2201	n.s.	-1.6031	n.s.	57.016
florA	Acinetobac	1-1372	79	0	79	1372	1055	317	744	311	0.705213		1024	19	0.681	0.0034	0.119361	n.d.	125.926	0.196468	207.274	0.4338	0.4449	0	0.4449	-1.3666	n.s.	2.4317	**	0.9902	n.s.	63.374
tetA	Acinetobac	1-1552	79	0	79	1555	751	804	599	152	0.797603		952	17	0.776	0.00168	0.345732	n.d.	259.6449	0.256591	192.7	0.3296	0.4448	0	0.4448	1.2093	n.s.	2.4726	**	2.327	**	n.d.
amvA	Acinetobac	1-1512	79	0	79	1512	1218	294	163	1055	0.133826		175	19	0.692	0.00319	0.022754	n.d.	27.7147	0.029083	35.4228	0.2046	0.4069	0	0.4069	-0.7448	n.s.	1.0026	n.s.	0.3351	n.s.	14.526
adeC	Acinetobac	1-1468	79	0	79	1468	1322	146	453	869	0.342663		512	18	0.665	0.00347	0.130489	n.d.	172.5063	0.078394	103.637	0.6799	0.3873	0	0.3873	2.3056	*	1.7783	**	2.4013	**	n.d.
adeK	Acinetobac	1-1468	79	0	79	1468	1400	68	443	957	0.316429		460	18	0.692	0.00319	0.014554	n.d.	20.3759	0.066508	93.1114	0.8627	0.4231	0	0.4231	-2.7081	***	-6.6659	**	-7.3948	**	10.258
adeH	Acinetobac	1-1452	79	0	79	1452	1388	64	104	1284	0.074928		105	18	0.665	0.00347	0.094966	n.d.	13.1392	0.015312	21.2537	0.1407	0.4444	0	0.4444	-1.2894	n.s.	-2.9653	*	-2.7383	*	4.618
aceI	Acinetobac	1-577	79	0	79	577	358	219	162	196	0.452514		168	10	0.591	0.00352	0.026273	n.d.	9.4057	0.094989	34.0059	0.8803	0.3504	0	0.3504	-2.474	**	2.1316	**	0.2724	n.s.	9.074
adeA	Acinetobac	1-1323	79	0	79	1323	3	1320	1	2	0.333333		1	2	0.184	0.00294	0.061452	n.d.	0.1844	0.067472	0.2024	n.a.	0.2996	0	0.2996	-0.1075	n.s.	0.5078	n.s.	0.3781	n.s.	0.353
adeF	Acinetobac	1-1992	79	0	79	1992	1977	15	175	1802	0.088518		179	19	0.773	0.00209	0.010179	n.d.	20.124	0.018327	36.2325	0.196	0.4465	0	0.4465	-1.5224	n.s.	-3.187	*	-2.9977	*	8.936
adel	Acinetobac	1-1251	79	0	79	1251	1248	3	17	1231	0.013622		17	13	0.669	0.00307	0.002471	n.d.	3.0841	0.002757	3.4411	0.1404	0.4287	0	0.4287	-0.3025	n.s.	-2.1324	#	-1.7528	n.s.	-1.181
qacE	Acinetobac	1-348	79	0	79	348	330	18	158	172	0.478788		180	14	0.709	0.0027	0.229768	n.d.	75.8234	0.110409	36.4349	0.8164	0.4209	0	0.4209	3.7024	***	2.3565	**	3.4976	**	56.129
smr1	Acinetobac	1-697	79	0	79	697	197	500	23	174	0.116751		23	11	0.641	0.00333	0.014785	n.d.	2.9127	0.023632	4.6556	0.2392	0.4163	0	0.4163	-1.1377	n.s.	-0.1081	n.s.	-0.5846	n.s.	-0.228
abeS	Acinetobac	1-340	79	0	79	340	330	0	46	284	0.139394		50	14	0.673	0.00317	0.020102	n.d.	6.6336	0.030669	10.1208	0.4092	0.3527	0	0.3527	-1.1237	n.s.	1.2875	n.s.	0.4072	n.s.	2.068
cusF	Enterobact	1-409	53	0	53	409	238	171	170	68	0.714286		309	26	0.876	0.00137	0.208566	n.d.	49.6386	0.286097	68.091	0.1691	0.4769	0	0.4769	-0.977	n.s.	0.3706	n.s.	-0.1774	n.s.	7.58
mdtC	Enterobact	1-3397	53	0	53	3397	2791	606	1979	812	0.709065		3051	42	0.982	0.0001	0.125405	n.d.	350.0065	0.240887	672.3161	0.2945	0.6129	0	0.6129	-1.7447	#	-3.019	*	-3.0254	*	8.882
eefB	Enterobact	1-3178	53	0	53	3178	2051	1127	1136	915	0.553876		1800	40	0.978	0.00012	0.190179	n.d.	390.0581	0.193392	396.6467	0.2391	0.6003	0	0.6003	-0.0604	n.s.	-0.0156	n.s.	-0.0395	n.s.	13.288
acrF	Enterobact	1-3152	53	0	53	3152	3103	49	1425	1678	0.459233		2345	41	0.981	0.0001	0.137895	n.d.	427.8882	0.166553	516.7425	0.1333	0.5448	0	0.5448	-0.6256	n.s.	0.3891	n.s.	-0.0061	n.s.	12.444
oxqB	Enterobact	1-3447	53	0	53	3447	2452	995	1697	755	0.692088		2556	41	0.981	0.0001	0.127416	n.d.	312.4253	0.229706	563.2383	0.2744	0.5948	0	0.5948	-1.6203	#	-1.3204	n.s.	-1.722	n.s.	9.374
cusB	Enterobact	1-1533	53	0	53	1533	1091	442	784	307	0.718607		1361	33	0.951	0.00036	0.217141	n.d.	236.9006	0.274894	299.909	0.2943	0.5164	0	0.5164	-0.7636	n.s.	0.4122	n.s.	-0.0528	n.s.	19.917
mdtB	Enterobact	1-339C	53	0	53	3390	2847	543	1741	1106	0.611521		2499	42	0.982	0.0001	0.113024	n.d.	321.7787	0.193424	550.6778	0.3602	0.6116	0	0.6116	-1.5124	n.s.	-2.6097	*	-2.6167	*	8.163
acrB	Enterobact	1-3151	53	0	53	3151	3110	41	1276	1834	0.410289		1860	42	0.985	0.00007	0.08537	n.d.	265.4993	0.13179	409.8682	0.1856	0.5591	0	0.5591	-1.281	n.s.	-1.4934	n.s.	-1.6909	n.s.	6.605
acrD	Enterobact	1-3156	53	0	53	3156	3104	51	1541	1564	0.496296		2418	42	0.982	0.0001	0.133903	n.d.	415.77	0.171603	532.8287	0.2062	0.5818	0	0.5818	-0.7993	n.s.	0.6557	n.s.	0.1084	n.s.	10.417
cusC	Enterobact	1-1641	53	0	53	1641	1094	547	858	236	0.784278		1516	34	0.957	0.00029	0.214798	n.d.	234.9891	0.303346	331.861	0.225	0.5277	0	0.5277	-1.0612	n.s.	0.6971	n.s.	0.0175	n.s.	17.856
tolC	Enterobact	1-1682	53	0	53	1682	1200	482	737	463	0.614167		1000	42	0.982	0.0001	0.108477	n.d.	130.172	0.183633	220.3593	0.3668	0.5535	0	0.5535	-1.4862	n.s.	-2.799	*	-2.7441	*	2.019
eefC	Enterobact	1-1458	53	0	53	1458	1178	280	945	233	0.802207		1664	41	0.981	0.0001	0.272989	n.d.	321.5813	0.311271	366.6778	0.2495	0.6079	0	0.6079	-0.4472	n.s.	1.054	n.s.	0.5647	n.s.	9.643
acrE	Enterobact	1-1196	53	0	53	1199	1131	68	643	488	0.568523		1084	40	0.977	0.00014	0.170355	n.d.	192.6713	0.211202	238.8694	0.1496	0.5587	0	0.5587	-0.7025	n.s.	0.5336	n.s.	0.065	n.s.	6.411
mdtA	Enterobact	1-1466	53	0	53	1466	1015	445	651	364	0.641379		947	42	0.982	0.0001	0.124503	n.d.	126.3701	0.205596	208.6802	0.3303	0.6061	0	0.6061	-1.4321	n.s.	-2.2616	#	-3.2427	#	1.867
eefA	Enterobact	1-1218	53	0	53	1218	980	238	642	338	0.655102		1070	39	0.976	0.00014	0.231422	n.d.	226.7939	0.240596	235.7844	0.2429	0.6076	0	0.6076	-0.1385	n.s.	1.0944	n.s.	0.7385	n.s.	9.183
oxqA	Enterobact	1-1262	53	0	53	1262	1005	257	660	345	0.656716		971	40	0.98	0.0001	0.143251	n.d.	143.9673	0.212904	213.9688	0.3357	0.5904	0	0.5904	-1.1879	n.s.	0.2644	n.s.	-0.3578	n.s.	4.175
cusA	Enterobact	1-3305	53	0	53	3309	3087	222	1678	1409	0.54357		2860	39	0.979	0.0001	0.230866	n.d.	712.6843	0.204155	630.2275	0.275	0.5666	0	0.5666	0.4761	n.s.	0.5484	n.s.	0.6236	n.s.	22.78
acrA	Enterobact	1-125C	53	0	53																											

opmD	Pseudomo	1-1538	80	0	80	1538	1345	193	548	797	0.407435	594	34	0.947	0.00015	0.015666	n.d.	21.0706	0.089166	119.9278	0.6786	0.7264	0	0.7264	-2.8593 ***	-8.7116 **	-7.4883 **	-0.038
opmE	Pseudomo	1-1720	80	0	80	1720	1352	368	649	703	0.48003	738	41	0.97	0.00007	0.029493	n.d.	39.8741	0.112028	149.0012	0.5811	0.7121	0	0.7121	-2.5435 ***	-0.5934 n.s.	-1.7036 n.s.	1.489
oprA	Pseudomo	1-1517	80	0	80	1517	1323	194	688	635	0.52003	813	36	0.956	0.00011	0.023844	n.d.	31.5462	0.124069	164.1436	0.4865	0.6899	0	0.6899	-2.8067 ***	-7.2639 **	-6.4534 **	1.924
oprJ	Pseudomo	1-1495	80	0	80	1495	1400	95	592	808	0.422857	628	39	0.969	0.00005	0.017406	n.d.	24.3677	0.090566	126.7924	0.6395	0.6968	0	0.6968	-2.803 ***	-8.151 **	-7.0701 **	-1.068
opmH	Pseudomo	1-1493	80	0	80	1493	1431	62	90	1341	0.062893	101	30	0.933	0.00024	0.016257	n.d.	23.2639	0.01425	20.3918	0.2129	0.6802	0	0.6802	0.4744 n.s.	-2.3988 *	-1.4721 n.s.	2.382
czcC	Pseudomo	1-1293	80	0	80	1293	1287	6	127	1160	0.098679	133	42	0.973	0.00005	0.007114	n.d.	9.1557	0.020864	26.8525	0.4023	0.7148	0	0.7148	-2.2385 **	-6.017 **	-5.3537 **	-16.667
opmB	Pseudomo	1-1500	80	0	80	1500	1497	3	82	1415	0.054776	83	43	0.972	0.00006	0.009218	n.d.	13.7997	0.011194	16.7576	0.1661	0.6958	0	0.6958	-0.5902 n.s.	-3.3505 **	-2.6795 *	-10.105
oprM	Pseudomo	1-1458	80	0	80	1458	1457	1	75	1382	0.051476	76	36	0.956	0.00011	0.007236	n.d.	10.5424	0.010531	15.3443	0.1777	0.6851	0	0.6851	-1.0424 n.s.	-3.9722 **	-3.3483 **	-7.485
mexH	Pseudomo	1-3201	80	0	80	3201	3034	167	1084	1950	0.357284	1155	52	0.98	0.00005	0.028957	n.d.	87.8554	0.07686	233.193	0.726	0.683	0	0.683	-2.1684 **	0.9793 n.s.	-0.4281 n.s.	2.52
mexX	Pseudomo	1-1256	80	0	80	1256	1005	251	383	622	0.381095	407	38	0.967	0.00006	0.022181	n.d.	22.2918	0.081764	82.1728	0.6923	0.7255	0	0.7255	-2.5205 ***	0.3391 n.s.	-1.0387 n.s.	-1.276
mexP	Pseudomo	1-1274	80	0	80	1274	1003	271	426	577	0.424726	460	34	0.947	0.00014	0.018586	n.d.	18.6415	0.092596	92.8734	0.6332	0.6933	0	0.6933	-2.7675 ***	-7.8918 **	-6.8797 **	-0.836
mexA	Pseudomo	1-1391	80	0	80	1391	1014	377	389	625	0.383629	407	32	0.938	0.00021	0.055052	n.d.	55.8231	0.081038	82.1728	0.8319	0.6765	0	0.6765	-1.1091 n.s.	1.8814 **	0.7466 n.s.	12.495
mexC	Pseudomo	1-1225	80	0	80	1225	1001	224	402	599	0.401598	443	31	0.946	0.00014	0.017227	n.d.	17.2443	0.089352	89.4411	0.6574	0.7143	0	0.7143	-2.794 ***	-8.0048 **	-6.9726 **	-0.121
mexM	Pseudomo	1-1305	80	0	80	1305	1001	304	434	567	0.433566	468	25	0.919	0.00033	0.043719	n.d.	43.7627	0.094394	94.4886	0.6903	0.6902	0	0.6902	-1.8591 *	0.4933 n.s.	-0.5989 n.s.	16.203
triB	Pseudomo	1-1071	80	0	80	1071	1071	0	90	981	0.084034	90	34	0.962	0.00006	0.006632	n.d.	7.1028	0.016966	18.1709	0.312	0.7083	0	0.7083	-2.0432 *	-6.179 **	-5.3984 **	-11.325
triA	Pseudomo	1-1173	80	0	80	1173	1104	69	88	1016	0.07971	90	28	0.932	0.0002	0.005972	n.d.	6.5927	0.016459	18.1709	0.4614	0.7079	0	0.7079	-2.1374 *	-6.4281 **	-5.6218 **	-6.273
mexV	Pseudomo	1-1131	80	0	80	1131	1116	15	101	1015	0.090502	105	29	0.951	0.00009	0.007619	n.d.	8.5032	0.018996	21.1994	0.4544	0.6676	0	0.6676	-2.02 *	-5.5906 **	-4.958 **	-4.403
mexJ	Pseudomo	1-1104	80	0	80	1104	1104	0	55	1049	0.049819	57	31	0.916	0.00045	0.006896	n.d.	7.6136	0.010424	11.5082	0.0984	0.7095	0	0.7095	-1.1109 n.s.	-3.5854 **	-3.1205 **	-7.232
czcB	Pseudomo	1-1455	80	0	80	1455	1311	144	87	1224	0.066362	90	27	0.921	0.00033	0.004078	n.d.	5.3468	0.01386	18.1709	0.3605	0.7002	0	0.7002	-2.3674 **	-5.4315 **	-5.0236 **	-7.797
muxA	Pseudomo	1-1281	80	0	80	1281	1191	90	64	1127	0.053736	65	39	0.97	0.00005	0.004821	n.d.	5.7424	0.011019	13.1234	0.1678	0.6826	0	0.6826	-1.8595 *	-4.4252 **	-4.076 **	-22.517
mexE	Pseudomo	1-1245	80	0	80	1245	1146	99	50	1096	0.04363	51	30	0.9	0.00068	0.004528	n.d.	5.1892	0.008985	10.2968	0.1552	0.6945	0	0.6945	-1.6174 #	-3.3726 **	-3.212 **	-11.542
emrE	Pseudomo	1-333	80	0	80	333	327	6	28	299	0.085627	30	16	0.804	0.00106	0.009564	n.d.	3.1275	0.018523	6.057	0.6587	0.662	0	0.662	-1.5111 n.s.	-5.2584 **	-4.5857 **	-3.072
mexG	Pseudomo	1-1256	80	0	80	1256	1005	251	383	622	0.381095	407	38	0.967	0.00006	0.022181	n.d.	22.2918	0.081764	82.1728	0.6923	0.7255	0	0.7255	-2.5205 ***	0.3391 n.s.	-1.0387 n.s.	-1.276
sav1866	Staphyloco	1-1831	158	0	158	1831	1108	723	441	667	0.398014	460	30	0.811	0.00074	0.010341	n.d.	11.4577	0.073654	81.6089	0.8196	0.3432	0	0.3432	-2.8037 ***	-12.1817 **	-9.1882 **	0.634
mepA	Staphyloco	1-1356	158	0	158	1356	1356	0	96	1260	0.070796	103	31	0.811	0.00008	0.008881	n.d.	12.0422	0.013476	18.2733	0.0693	0.3292	0	0.3292	-1.0777 n.s.	-3.3609 **	-2.7899 *	0.631
lmrS	Staphyloco	1-1520	158	0	158	1520	407	1113	200	207	0.4914	231	19	0.868	0.00015	0.01306	n.d.	24.9517	0.100692	40.9818	0.5471	0.3184	0	0.3184	-1.2641 n.s.	2.3797 **	0.7975 n.s.	24.331
norA	Staphyloco	1-1522	158	0	158	1522	1088	434	497	591	0.456801	545	28	0.79	0.0006	0.033141	n.d.	36.0571	0.088868	96.6888	0.5937	0.3337	0	0.3337	-2.0483 *	-9.2032 **	-6.8881 **	23.36
norC	Staphyloco	1-1404	158	0	158	1404	1197	207	396	801	0.330827	445	31	0.862	0.0003	0.022769	n.d.	27.2546	0.065955	78.9477	0.6945	0.3659	0	0.3659	-2.1349 *	0.8805 n.s.	-0.6687 n.s.	11.823
norB	Staphyloco	1-1538	158	0	158	1539	1374	165	516	858	0.375546	614	38	0.832	0.00058	0.017753	n.d.	24.392	0.07928	108.9301	0.4612	0.3286	0	0.3286	-2.5372 ***	-7.368 **	-6.0219 **	4.603
sdrM	Staphyloco	1-1347	158	0	158	1347	447	900	104	343	0.232662	114	22	0.778	0.00073	0.052112	n.d.	23.294	0.045246	20.2248	0.5484	0.305	0	0.305	0.4814 n.s.	0.5682 n.s.	0.6337 n.s.	17.913
mdeA	Staphyloco	1-1462	158	0	158	1462	1358	104	137	1221	0.100884	147	31	0.851	0.0004	0.010367	n.d.	14.0787	0.019204	26.0794	0.1223	0.3439	0	0.3439	-1.4718 n.s.	-1.2287 n.s.	-1.6059 n.s.	1.868
tet38	Staphyloco	1-1359	158	0	158	1359	1353	6	72	1281	0.053215	76	24	0.827	0.00048	0.008003	n.d.	10.8279	0.009965	13.4832	0.1263	0.3197	0	0.3197	-0.6139 n.s.	-3.9307 **	-2.9511 *	2.74