

TableS1

gene	HR	HR.95L	HR.95H	pvalue
Rickettsia	1.466148	1.032512	2.081905	0.032452
Gemmata	1.420214	1.022543	1.972541	0.036352
Lawsonia	1.390972	1.049082	1.844282	0.021855
Frankia	1.342513	1.109824	1.623987	0.002422
Candidatus_Stoquefichus	1.325337	1.052067	1.669589	0.016812
Xylella	1.308886	1.015187	1.687553	0.037873
Simplexvirus	1.243315	1.021257	1.513657	0.030045
Enterovirus	1.23629	1.002777	1.524181	0.047042
Molluscipoxvirus	1.194574	1.034616	1.379262	0.015354
Luteimonas	1.19385	1.014895	1.40436	0.032484
Cytomegalovirus	1.172179	1.072757	1.280816	0.000443
Anoxybacillus	0.86741	0.773003	0.973347	0.015543
Paludibacter	0.861929	0.746992	0.994549	0.04187
Pseudorhodoferax	0.86188	0.749752	0.990778	0.036595
Bibersteinia	0.849706	0.729816	0.989291	0.035843
Saccharomonospora	0.846968	0.721995	0.993573	0.041438
Nitrosococcus	0.846922	0.735811	0.974811	0.020585
Rhodoferax	0.844923	0.73519	0.971035	0.017593
Terriglobus	0.842712	0.73385	0.967724	0.015315
Methylobacter	0.826374	0.690728	0.988657	0.0371
Aeromonas	0.819934	0.674911	0.99612	0.045596
Algiphilus	0.818915	0.699761	0.958359	0.01277
Candidatus_Midichloria	0.815722	0.666872	0.997796	0.047544
Serinicoccus	0.814404	0.689562	0.961849	0.015601
Steroidobacter	0.812189	0.662492	0.995711	0.045358
Alkanindiges	0.809259	0.671286	0.97559	0.026481
Oceanicola	0.800098	0.654741	0.977726	0.029245
Ruania	0.798421	0.644184	0.989586	0.039826
Ottowia	0.796555	0.664941	0.95422	0.013567
Propionimicrobium	0.796256	0.648324	0.977943	0.029806
Ilumatobacter	0.795931	0.664918	0.952758	0.01287
Eggerthia	0.79545	0.642524	0.984774	0.035657
Arhodomonas	0.794633	0.634062	0.995866	0.045942
Caldicoprobacter	0.792036	0.629565	0.996434	0.04654
Parvibaculum	0.791312	0.629702	0.994398	0.044626
Fluviicola	0.789832	0.640782	0.973554	0.027025
Silanimonas	0.788796	0.628303	0.990286	0.040947
Brucella	0.788341	0.626303	0.992301	0.042786
Anaerotruncus	0.786539	0.646462	0.95697	0.016417
Balneatrix	0.786392	0.618695	0.999544	0.049566
Sulfurospirillum	0.782109	0.620936	0.985117	0.03686
Pleurocapsa	0.780488	0.614065	0.992016	0.042818

Sedimenticola	0.780413	0.630212	0.966411	0.023013
Citricoccus	0.777517	0.61457	0.983668	0.035976
Mahella	0.772891	0.599569	0.996318	0.046763
Kangiella	0.772274	0.597858	0.997574	0.047865
Reinekea	0.77073	0.603505	0.984291	0.036902
Brachymonas	0.76945	0.61785	0.958246	0.019236
Frateuria	0.768615	0.628838	0.939463	0.010177
Leucothrix	0.767667	0.600324	0.981658	0.035072
Caldisericum	0.766067	0.60829	0.964767	0.023525
Cryobacterium	0.764143	0.612639	0.953115	0.017039
Ruegeria	0.762531	0.604374	0.962075	0.022256
Methylophaga	0.761943	0.619056	0.937809	0.010289
Acidothermus	0.760312	0.586529	0.985586	0.038488
Candidatus_Accumulibacter	0.760046	0.578509	0.998549	0.048794
Methylovorus	0.75957	0.588675	0.980076	0.034454
Halocynthiibacter	0.758998	0.583483	0.987309	0.039864
Leptospirillum	0.757217	0.602127	0.952255	0.01739
Simiduia	0.757178	0.590855	0.97032	0.027945
Jiangella	0.755557	0.594832	0.959711	0.021622
Spongiibacter	0.754287	0.591375	0.962079	0.023125
Symbiobacterium	0.752417	0.582666	0.971624	0.02921
Methylothermus	0.751433	0.629504	0.896979	0.001559
Gemmobacter	0.745794	0.592461	0.93881	0.012502
Halothermothrix	0.745605	0.578048	0.96173	0.023794
Fluoribacter	0.745157	0.563695	0.985035	0.038842
Dinoroseobacter	0.744604	0.555068	0.99886	0.049117
Solibacillus	0.743992	0.578783	0.95636	0.020985
Halothiobacillus	0.743951	0.595593	0.929263	0.009149
Azonexus	0.743449	0.567508	0.973936	0.031426
Catelliglobosporia	0.742904	0.559246	0.986875	0.040253
Ponticoccus	0.74235	0.568163	0.969937	0.028985
Thalassomonas	0.741293	0.572185	0.960379	0.023453
Amphibacillus	0.739317	0.56751	0.963137	0.0252
Pseudorhodobacter	0.737895	0.602443	0.903803	0.003309
Candidatus_Phaeomarinobacter	0.737671	0.56223	0.967857	0.02811
Coralimargarita	0.73746	0.555395	0.979208	0.035273
Myxosarcina	0.737097	0.551507	0.985139	0.03929
Casaltella	0.734115	0.53984	0.998305	0.048749
Silvibacterium	0.732243	0.554384	0.967165	0.028154
Woodsholea	0.731923	0.54686	0.979614	0.035865
Thermomonospora	0.728073	0.563197	0.941216	0.015418
Hirschia	0.726139	0.559439	0.942513	0.016177
Salinibacter	0.724292	0.553198	0.948303	0.018974
Thalassolituus	0.723646	0.56281	0.930445	0.011666

Ferriphaselus	0.716926	0.565947	0.908182	0.005812
Candidatus_Aquiluna	0.714418	0.564115	0.904768	0.005265
Kribbella	0.712553	0.565581	0.897717	0.004034
Thermobaculum	0.710612	0.558039	0.9049	0.0056
Vitreoscilla	0.708431	0.56478	0.888619	0.00287
Opitutus	0.703209	0.568388	0.870009	0.001186
Neorhizobium	0.701332	0.539937	0.910972	0.007843
Oscillochloris	0.701118	0.518429	0.948186	0.021144
Thermobispora	0.701048	0.562564	0.873622	0.00156
Deefgea	0.697494	0.529441	0.91889	0.010426
Gryllotalpicola	0.69469	0.537214	0.898328	0.005479
Acaricomes	0.691527	0.521575	0.916858	0.010373
Arcanobacterium	0.68884	0.529648	0.89588	0.005436
Robiginitalea	0.686502	0.512594	0.91941	0.011613
Mesoaciditoga	0.678435	0.51967	0.885704	0.004341
Leptolinea	0.673487	0.515741	0.879482	0.003694
