

Table S3: Gene count estimate and confidence intervals of ancestral Roseobacter and SAR11 nodes for three ancestral reconstructions of the alphaproteobacterial tree.

P4			RAxML			PhyloBayes		
Node	Estimate ^a	CI ^b	Node	Estimate ^a	CI ^b	Node	Estimate ^a	CI ^b
R1	4041	3904-4219	R1	4059	3914-4234	R1	4040	3907-4215
R2	4128	3976-4296	R2	4138	3991-4307	R2	4126	3982-4293
R3	4769	4566-4942	R3	4761	4558-4934	R3	4732	4543-4912
R4	5810	5395-6125	R4	4147	3968-4321	R4	4129	3965-4324
R5	4154	4024-4332	R5	5988	5780-6246	R5	5923	5743-6167
R6	6065	5870-6258	R6	6038	5820-6246	R6	5953	5789-6167
R7	6075	5877-6268	R7	6076	5868-6279	R7	6005	5835-6222
R8	4168	3999-4319	R8	4162	3990-4317	R8	4144	3977-4302
R9	6013	5377-6508	R9	6024	5385-6476	R9	5966	5326-6422
R10	6589	6390-6785	R10	6581	6370-6779	R10	6491	6314-6750
R11	3838	3703-4018	R11	4419	4288-4568	R11	3831	3704-4012
R12	4961	4543-5201	R12	3836	3704-4017	R12	4921	4526-5179
R13	5173	4996-5347	R13	4951	4553-5178	R13	5145	4996-5334
R14	4417	4281-4562	R14	5170	5009-5342	R14	4412	4280-4560
R15	8596	8333-8895	R15	8635	8334-8989	R15	8461	8216-8851
R16	8584	8332-8885	R16	8625	8364-9009	R16	8457	8268-8835
R17	8644	8383-8935	R17	8718	8427-9077	R17	8614	8379-8987
R18	5248	5111-5412	R18	4499	4354-4709	R18	4494	4354-4697
R19	5840	5645-6024	R19	5127	4800-5499	R19	5078	4787-5467
R20	8689	8387-9049	R20	5405	5243-5613	R20	5374	5230-5562
R21	4502	4366-4711	R21	5236	5087-5404	R21	5217	5075-5391
R22	5159	4806-5510	R22	5817	5609-6250	R22	5783	5599-6006
R23	5469	5264-5932	R23	4863	4685-5647	R23	8361	8123-8783
R24	8134	7825-8485	R24	7077	6573-7557	R24	4788	4642-4994
R25	8454	8054-8900	R25	8582	8317-8980	R25	8384	8140-8800
R26	8689	8387-9051	R26	8778	8465-9092	R26	8418	8191-8800
R27	4237	4112-4390	R27	8773	8467-9092	R27	8614	8398-8987
R28	4766	4605-5622	R28	3898	3718-4453	R28	4210	4067-4355
R29	3915	3725-4477	R29	4749	4603-4990	R29	4655	4442-5450
R30	4760	4611-4961	R30	7189	6221-7813	R30	3885	3705-4431
R31	7391	6142-8170	R31	4225	4074-4372	R31	4727	4575-4947
R32	8341	7963-8699	R32	4689	4461-5530	R32	7130	6239-7883
R33	8957	8630-9256	R33	7984	7381-8320	R33	7874	7342-8292
R34	8680	8289-9030	R34	8799	8503-9109	R34	8649	8386-9015
R35	8935	8669-9237	R35	7170	4895-8120	R35	8635	8359-9020
R36	8935	8669-9222	R36	8793	8491-9109	R36	8634	8352-9020
R37	8986	8712-9267	R37	8838	8529-9167	R37	8688	8392-9059
R38	8374	8025-8685	R38	8153	7780-8484	R38	7976	7655-8405
S52	1425	1335-1545	S52	1680	1567-1790	S49	1409	1314-1531

S53	1435	1346-1562	S53	1429	1342-1562	S50	1427	1336-1562
S54	1703	1602-1794	S54	1688	1581-1802	S51	1665	1560-1787
S55	1712	1615-1806	S55	1414	1315-1533	S52	1676	1571-1799
S56	1953	1775-2078	S56	1912	1739-2046	S53	1902	1732-2029
S57	2045	1937-2136	S57	1954	1859-2093	S54	1928	1819-2039

^a posterior mean number of genes present at the node.

^b confidence interval with smallest and largest posterior mean in 100 bootstrap samples.