Table S2. Statistical analyses of LGT rates for Roseobacter branches. A) Analysis of covariance results of F-tests for ancestral compared to exterior branches. B) Deleted-t residuals analysis from regressions of gene loss rate, LGT rate, and gene duplication rate vs. amino acid substitution rate, conducted separately for ancestral and exterior branches.

Α.					
Phylogenetic method	Factor	Dependent variable			
		LGT	Losses	Duplications	
P4	a.a. replacements ¹	0.002	< 0.001	N.S.	
	branch category ²	< 0.001	N.S.	< 0.001	
	interaction	N.S.	N.S.	N.S.	
RAxML	a.a. replacements ¹	0.003	< 0.001	N.S.	
	branch category ²	< 0.001	N.S.	< 0.001	
	interaction	N.S.	N.S.	N.S.	
PhyloBayes	a.a. replacements ¹	0.004	< 0.001	N.S.	
	branch category ²	< 0.001	N.S.	< 0.001	
	interaction	N.S.	N.S.	N.S.	

¹Covariate

N.S.: Not Significant

ı	
п	

Phylogenetic method	Branch category	Dependent variable	Branch	Deleted-t residual
P4	ancestral	LGT	R37	12.84***
	leaf	Losses	CCS1	-3.54*
		Duplications	OA238	7.77***
RAxML	ancestral	LGT	R37	13.56***
		Duplications	R33	5.28***
	leaf	Duplications	OA238	7.60***
PhyloBayes	ancestral	LGT	R37	13.79***
		Duplications	R24	5.50***
	leaf	Duplications	OA238	7.50***

Significance levels were corrected for multiple testing by the Bonferroni method: * P < 0.05; *** P < 0.001. Boldface indicates patterns consistent across phylogenetic methods.

²Branches were categorized as ancestral or leaf.