

		172	MP	238	
Xanthomonadales	Xylella fastidiosa 9a5c	15836728	QALRKL TGNIKRSNTLVIFINQLRMKIGVM	GQSPETTTGGNALKFYASVRLDIRRIGAIKKGDEI	
	Xylella fastidiosa Dixon	71275910	-----I-	-----	
	Xylella fastidiosa M12	170729337	-----I-	-----	
	Xylella fastidiosa Temecula1	28198030	-----I-	-----	
	Stenotrophomonas maltophilia	190573723	-----	-----	
	Stenotrophomonas sp. SKA14	254524001	-----	-----	
	Xanthomonas albilineans	285017962	-----V-	-----	
	Xanthomonas oryzae	2460018	-----V-	-----V-	
	Xanthomonas vesicatoria	325916032	-----V-	-----V-	
	Xanthomonas campestris	289669642	-----V-	-----V-	
	Xanthomonas gardneri	325924502	-----V-H-	-----V-	
	Xanthomonas axonopodis	21242489	-----V-	-----V-	
	Xanthomonas fuscans	294626629	-----V-	-----V-	
	Pseudoxanthomonas suwonensis	319786626	-----H-	-----S-	
	Pseudoxanthomonas spadix	357417030	-----	-----V-	
	Rhodanobacter sp. 2APBS1	352081858	-----A--K-GC-----I-	FG-----V--E--	
	Other Bacteria (0/500)	Pseudoalteromonas atlantica	109899564	-----I-	FG-----D--V
		Nitrosococcus watsonii	300113490	-----A-----I-	FG-----V--L-----
		Methylomonas methanica	333985518	-----A-----	FGN-----V
		Methylobacter tundripaludum	344943375	-----I-	FG-----S---E-V
Legionella pneumophila		464597	-----A-----I-	FG-----S---E--	
Dichelobacter nodosus		146328886	-----A--V--I-	FG-----M-----S-E--V	
Vibrio harveyi		213012346	--M-----L-Q--CMC-----I-	FGN-----T---E--V	
Pseudomonas putida		18076865	-----I--NA-C-----I-	FG-----T--V-E--V	
Gallionella capsiferriformans		302877752	-----A-----	FGN-----V	
Methylotenera mobilis		253997269	-----T-----I-	FGN-----T-----	
Dechloromonas aromatica		71909761	-----A--KT-----I-	FG-----V	
Lutiella nitroferrum		224825851	-----T-----I-	FG-----G---E--	
Cupriavidus sp. mapud3.4		304334137	-----T--T-C-----I-	FG-----S---DV	
Laribacter hongkongensis		226939722	-----T-----I-	FGN-----T---	
Cupriavidus sp. mapud10.1		304334135	-----T--T-C-----I-	FG-----S---DV	
Methylotenera versatilis		297539361	-----T--M-----I-	FGN-----T---V	
Chromobacterium violaceum		61097689	-----T-----I-	FGN-----T-G---V	
Methylomonas clara		132226	-----T-----I-	FGN-----S-----T---V	
Neisseria mucosa		2500090	-----H--T---V--I-	FG-----T-Q---DV	
Chromobacterium piscinae		61097707	-----T-----I-	FGN-----T-G---E-V	
Chromobacterium violaceum		61097691	-----T-----I-	FGN-----T-G---E-V	
Ralstonia solanacearum		83746096	-----T--T-C-----I-	FG-----S--R--V	
Neisseria flavescens		2500089	-----H--T---V--I-	FG-----T-Q---DV	
Burkholderia sp. JPY157	262112670	-----T--T-C-----I-	FGN-----S--N--V		
Ralstonia solanacearum	300692434	-----T--T-C-----I-	FG-----S--R--V		

Figure S30

Partial sequence alignment of a conserved region of RecA showing a 2 aa insert that is commonly shared by all Xanthomonadales except *Rhodanobacter* sp. 2APBS1. This signature was previously identified by (Cutino-Jimenez et al., 2010) and was described as all Xanthomonadales specific Signature.