

		136	180	
Xanthomonadales	<i>Xanthomonas axonopodis</i>	21244827	AQLVRPGIELVNTMSGSRMDSDA A V IAKFGVRPEQIVDLLALMGD	
	<i>Xanthomonas fuscans</i>	294664756	-----V-----	
	<i>Xanthomonas oryzae</i>	166710273	-----D-----	
	<i>Xanthomonas campestris</i>	78049756	-----D-----	
	<i>Xanthomonas albilineans</i>	285016940	-----VQ-----	
	<i>Xanthomonas vesicatoria</i>	325917393	-----N-----	
	<i>Xanthomonas perforans</i>	325924860	-----D-----	
	<i>Xanthomonas gardneri</i>	325923784	-----E-----	
	<i>Stenotrophomonas maltophilia</i>	190576375	-----T-----	
	<i>Stenotrophomonas</i> sp. SKA14	254524679	-----T-----	
	<i>Xylella fastidiosa</i>	71276059	-----V-----T-----AM	
	<i>Pseudoxanthomonas spadix</i>	357415770	-----V-----	
	<i>Rhodanobacter</i> sp. 2APBS1	352086477	---GSHVT---NTVL--AG	
	<i>Azotobacter vinelandii</i>	226942232	---DGH-T---T---VL-HAG	
	<i>Candidatus</i> <i>Hamiltonella</i>	238898050	---S-H-T-I---NDKTL-P-G	
	<i>Citrobacter koseri</i>	157147357	---T-N-T-I---TNTILGP-E	
	<i>Enterobacter cloacae</i>	296105444	---T---T-I---TNTILGPEE	
	<i>Escherichia coli</i>	195940271	---T-N-T-I---TNTILGPEE	
	Other γ-Proteobacteria	<i>Haemophilus influenzae</i>	145640969	---DDN-M-I---NN-LL-REG
		<i>Haemophilus parainfluenzae</i>	301154826	---DDN-M-I---NNTLL-R--
<i>Haemophilus somnus</i>		170717348	---DDN-M-I---NN-LL-R-G	
<i>Klebsiella pneumoniae</i>		238892277	---T---T-I---TNTILGP-E	
<i>Legionella drancourtii</i>		254497331	---NEHVT-I---NYT--VAG	
<i>Marinobacter algicola</i>		149378378	---SDHVT-I---TDT--R-G	
<i>Methylophaga thiooxidans</i>		254492177	---NQHVT---TETTL-P-G	
<i>Photobacterium damsela</i>		269103720	---DEN-T-I---TDVV--PAG	
<i>Pseudomonas aeruginosa</i>		152985854	---DGH-T---T---L-V-G	
<i>Pseudomonas entomophila</i>		104779389	---DGHVT---T---VL-VAG	
<i>Rickettsiella grylli</i>		160872753	---CEE-T---TNT-L-RQG	
<i>Salmonella enterica</i>		161505500	---T-N-T-I---TNTILGP-E	
<i>Shigella flexneri</i>		110807452	---T-N-T-I---TNTILGPEE	
<i>Teredinibacter turnerae</i>		254784333	---NEH-T---TDTV--IEG	
<i>Vibrio alginolyticus</i>		91224944	---DDN-T-I---TNVV--REG	
α-Proteobacteria		<i>Rhodobacteraceae bacterium</i>	254511729	M---GD-V-MLDA-KNK-I-R-G
		<i>Ruegeria</i> sp. R11	254474520	M---GG-V-MLDA-KNK-I---G
		<i>Azospirillum</i> sp. B510	288961988	M-----GMFDP-KNKAIGP-E
		<i>Rhodomicrobium vannielii</i>	312115891	M-----VTMLD--KNKVIGEEAE
		<i>Roseobacter litoralis</i>	338759679	M---GD-V-MLDA-KNK-I-R-G
	<i>Silicibacter</i> sp. TrichCH4B	259417724	M---GD-V-MLDA-KNK-I---G	
	<i>Phaeobacter gallaeciensis</i>	163742064	M---GG-V-MLDA-KNK-I-T-G	
	<i>Granulibacter bethesdensis</i>	114328629	M---IQ--V-MQDPIKQKTIGPAE	
	<i>Sagittula stellata</i>	126732262	M---GD-V-MLDP-KNK-I-REG	
	<i>Kingella kingae</i>	333376435	---S-R-T---KNEML-H-G	
β-Proteobacteria	<i>Thauera</i> sp. MZ1T	237654465	T-----VRW-----EEVL-EAG	
	<i>Azoarcus</i> sp. BH72	119899889	T-----VRW-----EEVL-EAG	
	<i>Neisseria bacilliformis</i>	329119683	---NERVT-----ETL-T-G	
	<i>Simonsiella muelleri</i>	294789122	---NTQ-T---KNETL--AG	
	<i>Aromatoleum aromaticum</i>	56477692	T-----VRW-----DEVL-EAG	
	<i>Burkholderia rhizoxinica</i>	312795716	---NERVT-I---TNE-L-R-G	
	<i>Neisseria mucosa</i>	261364888	---NERVT-----ETL-IEG	

Figure S22

Partial sequence alignment of a conserved region in DNA polymerase I showing a 1 aa insert that is uniquely shared by a subclade of Xanthomonadales except *Rhodanobacter* sp. 2APBS1.