

Table S1. Upper GenBank accession numbers for the 16S rRNA gene, *recA* and *rpoA* housekeeping genes and genome sequences of *Photobacterium sanctipauli* sp. nov.; and for *recA* and *rpoA* of *P. gaetbulicola* LMG 27839^T (data from this study). **Lower** Accession numbers for the *Photobacterium* strains' genomes used for GGD calculation (data publicly available at GenBank).

Strains	16S rRNA	<i>recA</i>	<i>rpoA</i>	Genomes
A-394^T	KC751088	KF748540	KF748544	JGVO00000000
A-373	KC751065	KF748538	KF748542	
A-379	KC751086	KF748539	KF748543	
A-397	KC751086	KF748541	KF748545	
A-398	KC751091			
<i>P. gaetbulicola</i> LMG 27839 ^T	KF771650	KF771651		
<i>P. angustum</i> S14				AAOJ00000000.1
<i>P. damsela</i> subsp. <i>damsela</i> CIP 102761				ADBS00000000.1
<i>P. halotolerans</i> DSM18316				AULG00000000.1
<i>P. leiognathi</i> Irivu.4.1				BANQ00000000.1
<i>P. profundum</i> 3TCK				AAPH00000000.1