Supplementary materials for the article:

Liu Y. et al. Identification of a Novel Haloarchaeal Species *Halorubellus amylolyticus* sp. nov., Isolated from Salt Crystals of Salted Seaweed Knots and Genomic Insights into Genus *Halorubellus.*

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Table SI

General features of the genomes of strains PRR65^T, *Halorubellus salinus* GX3^T, and *Halorubellus litoreus* GX26^T.

Feature	PRR65^T	*Halorubellus salinus* GX3^T	*Halorubellus litoreus* GX26^T
Accession number	GCA_034808145.1	GCA_020567525.1	GCA_037081675.1
Genome size (Mb)	4.15	4.07	4.59
DNA G + C content (mol%)	67.2	68.0	67.7
Completeness (%)	99	99	99
Contamination (%)	0.01	0.01	0.01
Genes	4086	4021	4428
Proteins	3976	3933	4335
Coding Ratio	86.2	87	87.1
CRISPRs	2	2	1
rRNA	2	2	3
tRNA	53	53	53

Fig. S1. Colony morphology of strain PRR65^{T}.

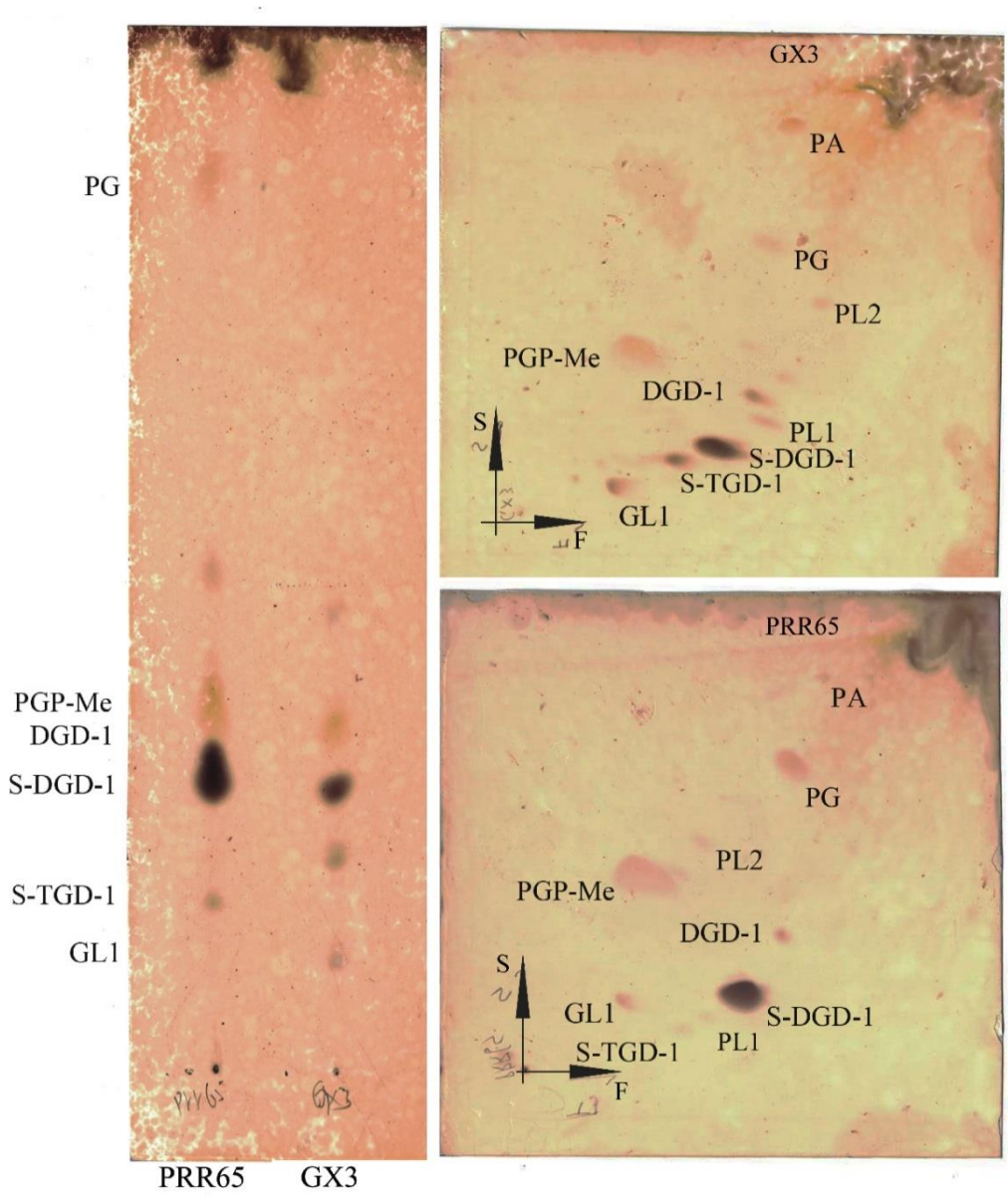

Fig. S2. Polar lipid detection.

One-dimensional thin layer chromatography (TLC) of the phospholipids and glycolipids from strains PRR65^T and GX3^T (right panel). Two-dimensional TLC of the phospholipids and glycolipids from strains GX3^T (left, up panel) and PRR65^T (left, bottom panel). The polar lipids were stained using sulfuric acid-ethanol (volume ratio 1:1).

PA – phosphatidic acid; PG – phosphatidylglycerol; PGP-Me – phosphatidylglycerol phosphate methyl ester; S-DGD-1 – sulfated mannosyl glucosyl diether; DGD-1 – mannosyl glucosyl diether; S-TGD-1 – sulfated galactosyl mannosyl glucosyl diether; PL1 – unidentified phospholipid; GL1 – unidentified glycolipid; F – first dimension; S – second dimension