

SUPPLEMENTAL MATERIAL

LEGENDS

TABLE S1 List of proteins significantly upregulated and downregulated of growing cell (OD₆₀₀ of 1) of *S. lugdunensis* N920143 compared to $\Delta agrA$ mutant.

TABLE S2 List of all genes differentially expressed in *S. lugdunensis* N920143 cells compared to $\Delta agrA$ mutant cells (OD₆₀₀ of 1).

TABLE S3 Summary of RNAseq results of the samples of *S. lugdunensis* N920143 and $\Delta agrA$ mutant.

TABLE S4 List of oligonucleotides used in this study.

FIG S1 Complementation experiments. **A** growth curves in BHI with 10% NaCl of *S. lugdunensis* $\Delta agrA$ mutant containing the empty plasmid pRB473 (continuous line), and $\Delta agrA$ mutant with the plasmid pRB473-*agr* (complemented strain) (dotted line). **B** growth curves in BHI with 0.4 mM H₂O₂ of *S. lugdunensis* $\Delta agrA$ containing the empty plasmid pRB473 (continuous line), and $\Delta agrA$ mutant with the plasmid pRB473-*agr* (complemented strain) (dotted line). **C** Transcriptional changes (Log₂FC) of RNAIII, *crtM*, *crtN*, *slushABC*, and *SLUG_07290* in the $\Delta agrA$ mutant compared to the wild type strain (black bars) and in complemented strain ($\Delta agrA$ mutant with the plasmid pRB473-*agr*) compared to the $\Delta agrA$ strain (white bars). Asterisks indicate *p* values < 0.05.

FIG S2 Volcano plots of proteins differentially expressed of growing cell (OD₆₀₀ of 1) of *S. lugdunensis* N920143 compared to $\Delta agrA$ mutant.

FIG S3 Volcano plots of genes differentially expressed of growing cell (OD₆₀₀ of 1) of *S. lugdunensis* N920143 compared to $\Delta agrA$ mutant.

TABLE S3 Summary of RNAseq results of the samples of *S. lugdunensis* N920143 and Δ *agrA* mutant.

	<i>S. lugdunensis</i> N920143 wild type				<i>S. lugdunensis</i> N920143 <i>agr</i> deleted			
	1	2	3	4	1	2	3	4
Overall results								
Number of input reads	29827506	33177543	34470980	31888778	32495196	31285384	29215079	31391569
Average input read length	50	50	50	50	50	50	50	50
Mean Quality	39.8	39.81	39.83	39.8	39.42	39.43	39.40	39.44
(%) > Q30	98.46	98.5	98.52	98.48	99.57	99.61	99.56	99.60
Unique reads								
Uniquely mapped reads number (%)	28976728 (97.15 %)	32320911 (97.42 %)	33762650 (97.95 %)	31205204 (97.86 %)	31426765 (96.71 %)	30426886 (97.26 %)	28239556 (96.66 %)	30783448 (98.06 %)
Average mapped length	49.94	49.94	49.94	49.94	49.94	49.95	49.94	49.95
Multi-mapping reads								
Number of reads mapped to multiple loci (%)	594203 (1.99 %)	492013 (1.48 %)	410947 (1.19 %)	518997 (1.63 %)	968870 (2.98 %)	550622 (1.76 %)	648812 (2.22 %)	485314 (1.55 %)
Number of reads mapped to too many loci	31	22	12	14	24	11	17	9
Unmapped reads								
Number of reads unmapped: too many mismatches	0	0	0	0	0	0	0	0
Number of reads unmapped: too short (%)	256245 (0.86 %)	364066 (1.10 %)	297024 (0.86 %)	164342 (0.52 %)	99284 (0.31 %)	307564 (0.98 %)	326342 (1.12 %)	122274 (0.39 %)
Number of reads unmapped: other	299	531	347	221	253	301	353	524

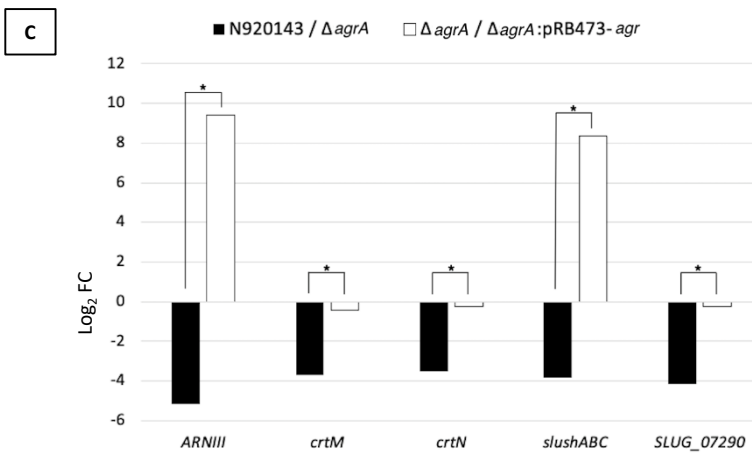
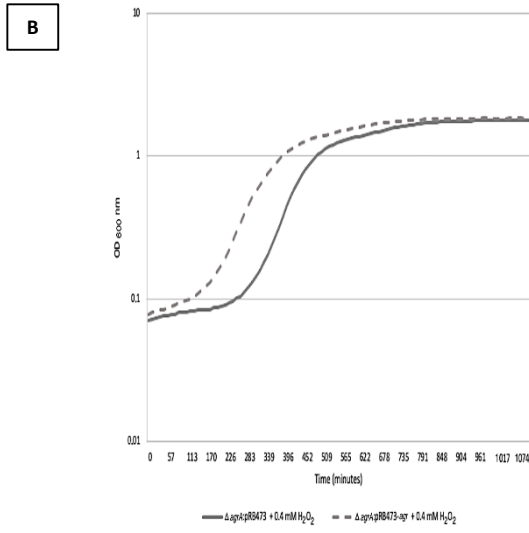
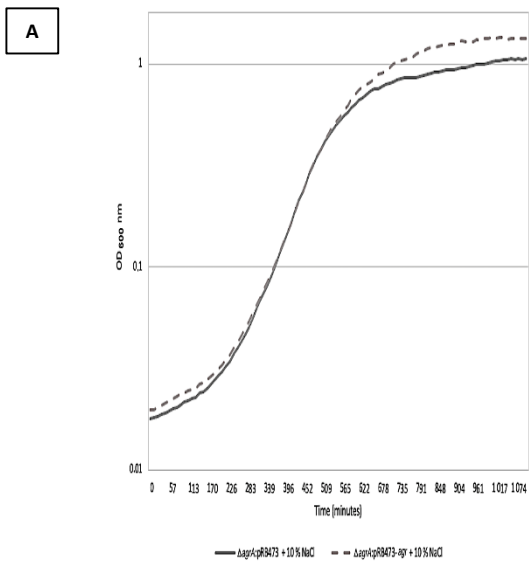


FIG S1

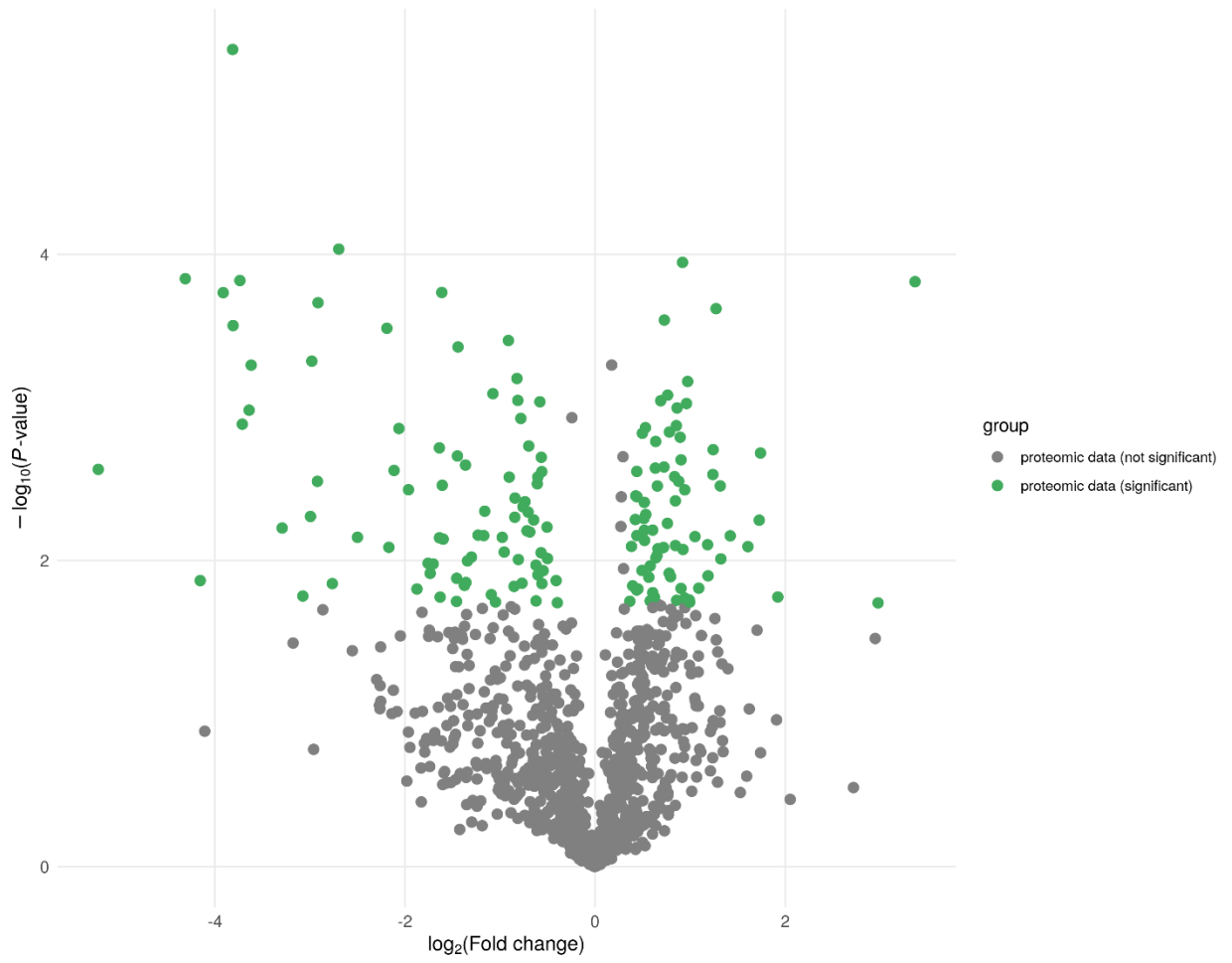


FIG S2

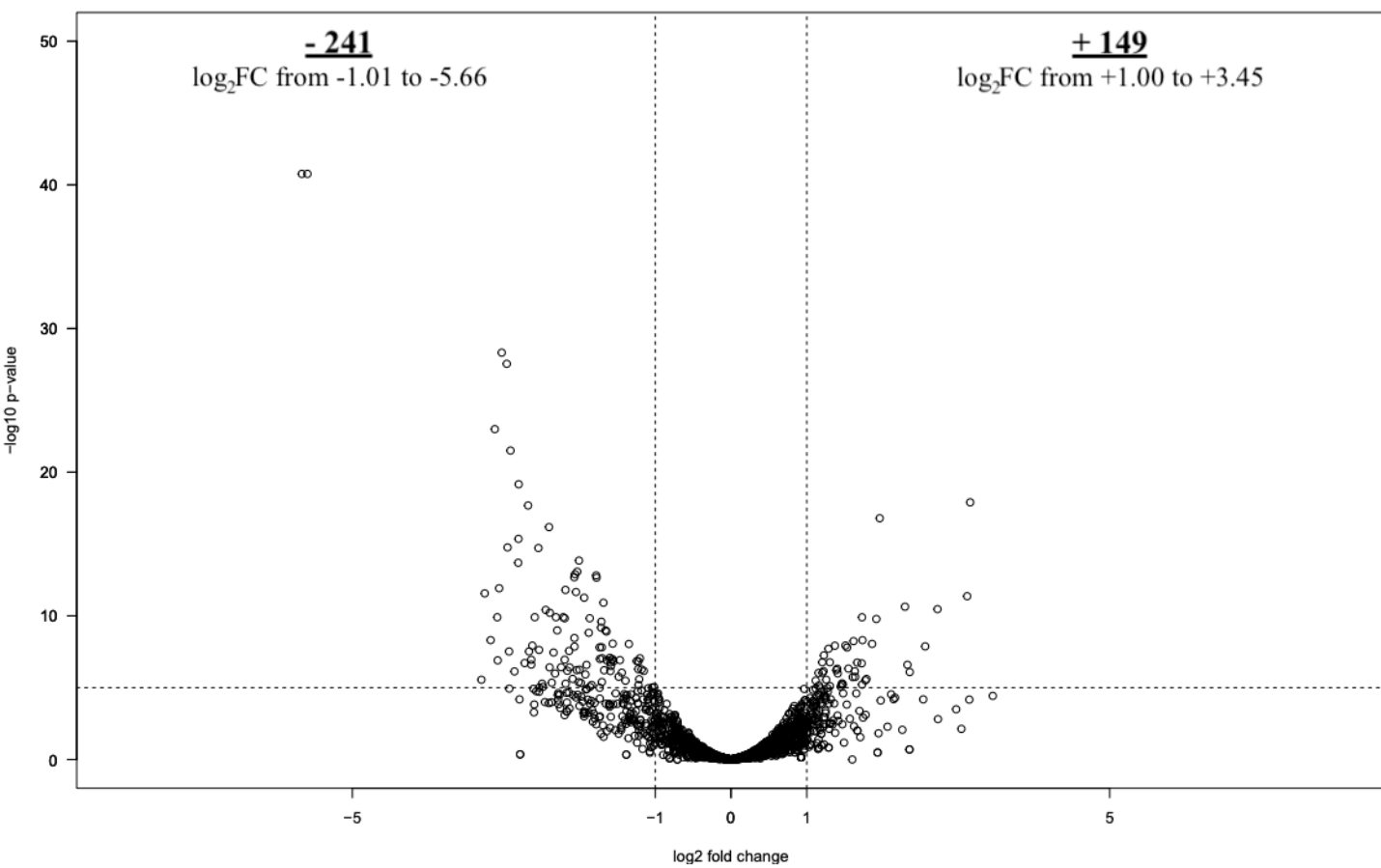


FIG S3