		Array	qRT-PCR		
Identification	ORF description	fold	fold		
		change*	change <sup>†</sup>		
Down-regulated loci					
YPO0027	Conserved hypothetical protein	-2.6			
YPO0102	Putative exported protein	-4.1			
YPO0289	Putative ATP/GTP-binding protein	-2.8			
YPO0291	Conserved hypothetical protein	-3.3			
YPO0292	Conserved hypothetical protein	-3.4			
YPO0499 <sup>‡</sup>	Hypothetical protein	-4.6	-4.4		
YPO0500 <sup>‡</sup>	Conserved hypothetical protein	-5.1			
YPO0501 <sup>‡</sup>	Conserved hypothetical protein	-5.8			
YPO0502 <sup>‡</sup>	Conserved hypothetical protein	-3.7			
YPO0503 <sup>‡</sup>	Conserved hypothetical protein	-5.9			
YPO0504 <sup>‡</sup>	Conserved hypothetical protein	-5.0	-5.1		
YPO0505 <sup>‡</sup>	Conserved hypothetical protein	-4.8			
YPO0506 <sup>‡</sup>	clpB/htpM putative Clp ATPase	-5.5	-3.1		
YPO0507 <sup>‡</sup>	Conserved hypothetical protein	-5.4	-4.2		
YPO0508 <sup>‡</sup>	Hypothetical protein	-5.6			
YPO0509 <sup>‡</sup>	Hypothetical protein	-2.6			
YPO0510 <sup>‡</sup>	Hypothetical protein	-4.6	-5.3		
YPO0511 <sup>‡</sup>	Hypothetical protein	-5.3			

## Table 2. Microarray analysis of RovA regulon in Y. pestis

YPO0511a <sup>‡</sup>	Hypothetical protein	-5.2	
YPO0512 <sup>‡</sup>	Putative lipoprotein	-5.5	
YPO0513 <sup>‡</sup>	Conserved hypothetical protein	-4.6	
YPO0514 <sup>‡</sup>	Putative OmpA-family membrane protein	-4.4	-3.6
YPO0515 <sup>‡</sup>	Putative membrane protein	-2.6	-2.8
YPO1192	Conserved hypothetical protein	-3.3	
YPO1200	Putative amino acid permease	-16.9	-16.6
YPO1201	Putative amino acid decarboxylase	-5.2	
YPO1224	ampH putative penicillin-binding protein	-2.6	
YPO1301	psaE putative regulatory protein	-5.7	-9.8
YPO1302	psaF putative membrane protein	-4.7	-11.3
YPO1303	psaA pH 6 antigen precursor (antigen 4) (adhesin)	-25.9	-133
YPO1304	psaB chaperone protein PsaB precursor	-8.7	-66.5
YPO1309	lysP/cadR putative lysine-specific permease	-3.6	
YPO1500	Hypothetical protein	-6.3	
YPO1684	Putative membrane protein (pseudogene)	-6.5	
YPO1686	Putative exported protein	-4.3	
YPO1793	inv invasin (pseudogene)	-3.6	
YPO2271	Phage hypothetical protein	-3.0	
YPO2272	Phage hypothetical protein	-2.9	-6.8
YPO2531	elaB putative membrane protein	-3	
YPO2538	Putative lipoprotein	-2.8	
YPO2667	ureC urease alpha subunit	-3.2	-3.1

YPO2668	ureE urease accessory protein	-2.8	
YPO2699	Conserved hypothetical protein	-2.8	
YPO2700	Conserved hypothetical protein	-2.7	
YPO2702	Putative membrane protein	-2.2	
YPO4018	cysM pyridoxal-phosphate dependent protein	-15.1	-43.3
YPO4019	Putative phosphoribosyl transferase protein	-21.3	
YPO4020	Putative membrane protein	-5.0	-12.1
YPO4021	Hypothetical protein	-4.9	
	Up-regulated loci		
YPO1232	msgA/dinI putative stress response protein	4.5	5.2
YPO1234	Probable phage antitermination protein Q	3.8	
YPO1239	Putative bacteriophage protein	4.6	11.8
YPO1240	Putative ATP-binding protein	4.7	
YPO1247	Putative bacteriophage tail protein	4.7	
YPO1252	stf putative bacteriophage tail fiber protein	2.6	
YPO1386	ansB putative L-asparaginase II precursor	12.9	17.5
YPO1436	sulA/sfiA putative cell division inhibitor	3.8	4.3
YPO1586	dinI DNA-damage-inducible protein I	3.3	3.9
YPO1718	Putative exported protein	3.1	
YPO2066	zwf glucose-6-phosphate 1-dehydrogenase	5.5	
YPO2080	Conserved hypothetical protein	2.6	
YPO2186	oppF oligopeptide transport ATP-binding protein	4.0	1.4
YPO2274 §	Putative phage protein	10.5	

YPO2275 §	Putative phage protein	16.7	
YPO2276 <sup>§</sup>	Putative phage-related membrane protein	28.1	
YPO2276a <sup>§</sup>	Putative phage-related membrane protein	18.4	
YPO2277 §	Phage hypothetical protein	23.2	66.7
YPO2279 <sup>§</sup>	Putative phage-related membrane protein	29.9	
YPO3307	recA/lexB/umuB/recH/rnmB/tif/zab protein	2.4	2.3
YPO3518	Putative exported protein	5.5	
pst	Pst encoded on pPCP1	4.2	6.5

\* Fold difference in gene transcripts between wildtype and the  $\Delta rovA$  mutant as

determined by microarray analysis that were  $\ge 2$ -fold different with a *P* value  $\le 0.05$  as described in *Materials and Methods*.

<sup> $\dagger$ </sup> Fold difference in gene transcripts between wildtype and the  $\Delta rovA$  mutant as determined by qRT-PCR. The value listed is the average fold difference from multiple repeats of qRT-PCR performed on different biological replicates as described in the Material and Methods.

<sup> $\ddagger$ </sup>IAHP locus (1, 2).

<sup>§</sup> CUS-2 phage locus (3).

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