Table 1. The 30 most highly expressed *Y. pestis* genes in the bubo

Rank	Gene	ORF	Function of the gene product	Relative expression*
1	**caf1**	YPMT1.84	**F1 capsule antigen**	43.9
2	**yopE**	YPCD1.06	**Yop effector protein**	32.0
3	—	YPO3279	Putative sigma 54 modulation protein	30.7
4	*groES*	YPO0350	10 kDa chaperonin	30.3
5	**yopD**	YPCD1.28c	**Yop negative regulation/targeting component**	29.2
6	*lpp*	YPO2394	Major outer membrane lipoprotein	27.2
7	**pla**	YPPCP1.07	**Plasminogen activator/surface protease**	27.1
8	*infC*	YPO2432	Translation initiation factor IF-3	24.7
9	*rplN*	YPO0220	50S ribosomal protein L14	24.3
10	*groEL*	YPO0351	60 kDa chaperonin	24.0
11	**yopH**	YPCD1.67c	**Protein-tyrosine phosphatase Yop effector**	23.8
12	*rpsM*	YPO0231	30S ribosomal protein S13	22.6
13	*uspA*	YPO3970	Universal stress protein A	18.5
14	*metE*	YPO3788	Homocysteine methyltransferase	18.4
15	—	YPO2705	Conserved hypothetical protein	18.3
16	**ymt**	YPMT1.74	**Murine toxin/phospholipase D**	18.0
17	**fyuA**	YPO1906	**Pesticin/yersiniabactin receptor protein**	18.0
18	*ail*	YPO2905	Attachment invasion locus protein	17.9
19	*cspE*	YPO2595	Putative cold shock protein	17.7
20	**caf1M**	YPMT1.83	**F1 capsule anchoring protein**	16.9
21	*rplE*	YPO0222	50S ribosomal protein L5	16.8
22	—	YPCD1.09c	Hypothetical protein YPCD1.09c	16.7
23	*gapA*	YPO2157	Glyceraldehyde 3-phosphate dehydrogenase A	16.7
24	*tufA*	YPO0203	Elongation factor Tu	16.3
25	—	YPO1649	Conserved hypothetical protein	15.8
26	**ybtS**	YPO1916	**Salicylate synthetase/ iron acquisition**	15.3
27	*rpsJ*	YPO0209	30S ribosomal protein S10	15.2
28	*ompA*	YPO1435	Putative outer membrane porin A protein	15.0
29	**lcrE**	YPCD1.39c	**Membrane-bound Yop targeting protein**	15.0
30	*rplB*	YPO0213	50S ribosomal protein l2	14.9

*Hybridization signal of the gene of interest divided by the average signal of all 4,683 *Y. pestis* genes on the microarray; —, gene not annotated. Genes shown in bold are known virulence factors.