

TABLE 3. Expression of the P_{PA3309} -*lacZ* reporter gene fusion in *P. aeruginosa* wild type and mutants.

<i>P. aeruginosa</i> strains	β -galactosidase activity (Miller units)					
	Aerobic exponential phase ^b	Aerobic stationary phase ^c	Fold induction ^d	Anaerobic exponential phase ^b	Anaerobic stationary phase ^c	Fold induction ^e
wild type	214.4 \pm 9.6	1149.2 \pm 70.4	5.4	1339.1 \pm 171.7	2377.5 \pm 270.8	1.8
<i>anr</i> mutant	218.1 \pm 8.0	914.1 \pm 23.5	4.2	ND ^a	ND	ND
<i>rpoS</i> mutant	284.3 \pm 164.1	1160.5 \pm 500.1	4.1	956.2 \pm 117.6	2262.4 \pm 0	2.4
<i>gacA</i> mutant	229.7 \pm 11.3	985.4 \pm 47.0	4.3	1161.2 \pm 118.8	2524.9 \pm 154.4	2.2
<i>rhlR</i> mutant	248.5 \pm 4.0	1342.2 \pm 87.5	5.4	1314.8 \pm 56.3	2747.9 \pm 818.2	2.1
<i>lasR</i> mutant	217.1 \pm 2.9	1139.8 \pm 79.4	5.3	1172.6 \pm 44.8	2106.6 \pm 65.5	1.8
<i>relA</i> mutant	455.5 \pm 20.8	1577.5 \pm 70.0	3.5	ND	ND	ND

5 β -galactosidase activities of the P_{PA3309} -*lacZ* reporter gene fusion in wild type PAO1 and various mutants under aerobic and anaerobic conditions as described in Material and Methods.

^a ND, not determined.

^b Exponential growth phase, OD₅₇₈ 0.5 or 0.3 (aerobic and anaerobic culture, respectively);

^c stationary phase, 16 h after entry in the stationary phase;

10 ^d fold induction from aerobic exponential to aerobic stationary phase; ^e fold induction from anaerobic exponential to anaerobic stationary phase