

Table 2. Summary of phenotypes from PA14 mariner mutants and wild-type PA14-containing overexpressing clones

PAO1#	PA14 Locus	Consensus Motif		Transposon mutant ID	Tn mutant phenotype		Overexpression Phenotype	
		DGC	PDE		Pellicle formation	CHO cell cytotoxicity	Pellicle formation	CHO cell cytotoxicity
PA0169	PA14_02110	GGEEF		55715	-	+	+	+
PA0285	PA14_03720	GGDEF	ESL	22718	P	+	+	-
PA0290	PA14_03790	GGEEF		41047	+	+	+	+
PA0338	PA14_04420	GGEEF		55979	+	+	P	+
PA0575	PA14_07500	GGDEF	EAL	28704	+	+	+	+
PA0847	PA14_53310	GGDEF		24080	+	+	P	+
PA0861	PA14_53140	GGDEF	ELL	289	P	+	+	+
PA1107	PA14_50060	GGEEF		35398	-	+	P	+
PA1120	PA14_49890	GGDEF		37761	-	+	P	+
PA1181	PA14_49160	GGDEF	ELL	28187	+	+	+	+
PA1433	PA14_45930	RGGEF	KVL	55781	+	+	+	+
PA1727	PA14_42220	GGDEF	EAL	42074	+	+	P	+
PA1851	PA14_40570	GGEEF		41347	+	+	+	+
PA2072	PA14_37690	GGDEF	EAL	26941	+	+	+	+
PA2133	PA14_36990		ETL	26651	+	+	-	-
PA2200	PA14_36260		EAL	703	+	+	+	-
PA2567	PA14_31330	SPTRF	EAL	27009	+	+	+	+
PA2771	PA14_26970	GGEEF		NA	NA	NA	+	+
PA2818	PA14_23130		EAL	NA	NA	NA	+	+
PA2870	PA14_21870	GGEEF		NA	NT	NT	+	-
PA3177	PA14_21190	GGEEF		29609	+	+	+	+
PA3258	PA14_20820	GGDDF	EAL	23726	+	+	+	-
PA3311	PA14_16500	AGDEF	EAL	26026	P	+	+	+
PA3343	PA14_14530	GGEEF		27296	P	+	+	+
PA3702	PA14_12810	GGEEF		28622	-	-	P	+
PA3825	PA14_56280		EVL	25360	+	+	+	-
PA3947	PA14_56790		EVL	56032	+	-	+	-
PA4332	PA14_57140	GGEEF		26451	P	+	P	+
PA4367	PA14_60870	GGDQF	EAL	52637	P	+	+	-
PA4396	PA14_64050	DEQHF		30693	+	+	+	-
PA4601	PA14_65090	GGDEF	EAL	26307	+	+	+	+
PA4843	PA14_65540	GGEEF		54304	+	+	+	+
PA4929	PA14_66320	GGEEF		29089	+	+	+	+
PA4959	PA14_69900	GDSIF	EVL	33928	-	-	+	+
PA5017	PA14_71850	ASNEF	EAL	45771	P	+	+	-
PA5295	PA14_72420	GSDEF	EAL	23485	+	+	+	+
PA5442	PA14_42350	AGDEF	EAL	30226	+	+	+	+
PA5487	PA14_50290	GGEEF		33256	-	+	P	+
<i>pvrR</i>			EAL	44482	-	-	+	+
<i>fliC</i>	PA14_23970			36424	-	-	-	-
<i>pilA</i>	PA14_58730			25907	-	-	-	-
<i>pseC</i>				29579	+	-	NT	-
<i>xcpQ</i>	GID829			26075	+	+	NT	NT
<i>rpoN</i>	GID1458			38940	+	+	NT	NT
PA14				wild type	+	+	+	+

Summary of phenotypes from PA14 mariner mutants (columns 6 and 7) and wild-type PA14 containing overexpressing clones (columns 8 and 9). Transposon mutants are listed using the ID numbers used by the PA14 transposon mutant library database. P, increased pellicle formation. A wild-type phenotype is designated by the plus sign, and a negative phenotype is designated by the minus sign. NT, not tested; NA, not applicable. There was no mutant available for PA2870.